





RANGPATHARGAROPARA JOINT FOREST MANAGEMENT COMMITTEE (JFMC)

RANGJULI RANGE, GOALPARA FOREST DIVISION
GOALPARA, ASSAM

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

Prepared by Rangpathar Garopara Joint Forest Management Committee

assisted by
Assam Forest Department
&
COMPELO
(IIE and RGVN)

May 2017

Contract Civision

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		
EPA	Entry Point Activities		
GIS	Geographical Information System		
На	Hectare		
IIE	Indian Institute of Entrepreneurship		
JFMC	Joint Forest Management Committee		
Kg	Kilogram		
Km	Kilometre		
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		

RANGPATHAR JOINT FOREST MANAGEMENT COMMITTEE Goalpara Forest Division

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

Table of Contents

Section No	Heading	Page No
1	Introduction	1
2	Village Socio-Economic Profile	2-5
3	Livelihood Opportunity Analysis	5-10
4	Livelihood Development Plan	10
5	Forest Development Plan	11-22
6	List of Appendices	23-48
	-List of beneficiaries identified for livelihood generation activities.	
	1) Livestock	

1. Introduction

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 *Agence France de Développement* (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), Guwahatiand *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 for the Rangpathar JFMC

This document gives the Micro-Plan for the Rangpathar JFMC, which is located in the Goalpara of Assam. The JFMC falls under the jurisdiction of Rangjuli Range of Goalpara Forest Division. 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 February 2017. The micro-plan has been compiled by IIE based on the project guidelines. The document has been discussed and finalized for adoption in June 2017.

formed to cover the existing community dwelling in RangpatharGaropara Village located on the fringe of the AmjongaReserve Forest. The area covered by the above JFMC falls within the DudhnoiRevenue Circle of GoalparaDistrict of Assam. Appendix-1 gives the Village Map. Key Information The key information of the JFMC is furnished below. Table-A: Key Information of the JFMC Name of the JFMC RangpatharGaropara Range Rang	2. Village Socio-Eco	onomic Profile			
The key information of the JFMC is furnished below.	Location	The RangpatharGaroparaJoint Forest Management Committee (JFMC) has been formed to cover the existing community dwelling in RangpatharGaropara Village located on the fringe of the AmjongaReserve Forest. The area covered by the above JFMC falls within the DudhnoiRevenue Circle of GoalparaDistrict of Assam.			
Table-A: Key Information of the JFMC Name of the JFMC		Appendix-1 gives the Village N	Map.		
Name of the JFMC RangpatharGaropara	Key Information				
Habitation Garo Name of Revenue Village RangpatharGaropara			1		
Name of Revenue Village RangpatharGaropara Name of the Gram Puronivita Panchayat / VCDC Revenue Circle Dudhnoi District Goalpara Forest Division Goalpara Forest Range Rangjuli Forest Beat Amjonga Year Formed 2015 Description of Boundary of North: NH 37 JFMC JFMC Records & Discussions during PRA Exercise in February 2017 Additional details are given at Table-1 of Record-I (Given at Annexure) Brief Details of the Executive Committee & General Body Table-B: Brief Details of Executive Committee & General Body Name of President Napoleon Marak Name of Members Napoleon Marak Name of Treasurer DiansonSangma No. of Members in Male: 8 Executive Committee Female: 3 No. of Members in the General Body Source: JFMC Records Households & The JFMC consisting of Rangpathar village with a total household of 94. Table-2 of the president Table-B: Fire Consisting of Rangpathar village with a total household of 94. Table-2 of the president Table-B: Fire Consisting of Rangpathar village with a total household of 94. Table-2 of the president Name of Treasurer Panchage of the president Name of Treasurer DiansonSangma No. of Members in the General Body Rangpathar Village with a total household of 94. Table-2 of the president Table-B: Fire Details of Rangpathar village with a total household of 94. Table-2 of the president Table-B: Fire Details of Rangpathar village with a total household of 94. Table-2 of the president No. of Members in the General Body Table-B: Fire Details of Rangpathar village with a total household of 94. Table-2 of the president Table-B: Fire Details of Rangpathar village with a total household of 94. Table-2 of the president Table-B: Fire Details of Rangpathar village with a total household of 94. Table-2 of the president Table-B: Fire Details of Rangpathar village with a total household of 94. Table-2 of the president Table-B: Fire Detai					
Name of the Gram Puronivita Panchayat / VCDC Revenue Circle District Goalpara Forest Division Goalpara Forest Range Rangjuli Forest Beat Year Formed 2015 Description of Boundary of JFMC Source: JFMC Records & Discussions during PRA Exercise in February 2017 Additional details are given at Table-1 of Record-I (Given at Annexure) Brief Details of the Executive Committee & General Body Table-B: Brief Details of Executive Committee & general Body Name of President Name of Member Secretary Name of Treasurer No. of Members in Executive Committee No. of Members in the General Body No. of Members in the General Body Table-B: Brief Details of Executive Committee & general Body No. of Members in Male: 8 Executive Committee No. of Members in the General Body The JFMC Records					
Panchayat / VCDC Revenue Circle Dudhnoi District Goalpara Forest Division Goalpara Forest Bange Rangjuli Forest Beat Amjonga Year Formed 2015 Description of Boundary of JFMC East: Kachadol Village West: Puronivita South : Meghalay Border Source: JFMC Records & Discussions during PRA Exercise in February 2017 Additional details are given at Table-1 of Record-I (Given at Annexure) Brief Details of the Executive Table-1 of Record-I (Given at Annexure) Brief Details of the 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 Napoleon Marak Name of Member Secretary Name of Treasurer DiansonSangma No. of Members in Male: 8 Executive Committee Female: 3 No. of Members in the general Body 94 (one male and one female members in each household) Source: JFMC Records The JFMC consisting of Rangpathar village with a total household of 94. Table-2 of the prosident Table-3 of the prosiden		, and the second			
Revenue Circle Dudhnoi			Puronivita		
District Goalpara Forest Division Goalpara Forest Range Rangjuli Forest Beat Amjonga Year Formed 2015 Description of Boundary of JFMC Source: JFMC Records & Discussions during PRA Exercise in February 2017 Additional details are given at Table-1 of Record-I (Given at Annexure) Brief Details of the Executive Executive Committee & General Body Table-B: Brief Details of Executive Committee & General Body Table-B: Brief Details of Executive Committee & General Body Name of President Napoleon Marak Name of President Napoleon Marak Name of Treasurer DiansonSangma No. of Members in Male: 8 Executive Committee Female: 3 No. of Members in the General Body Source: JFMC Records Households & Table-B: FMC Consisting of Rangpathar village with a total household of 94. Table-2 of the state of the					
Forest Division Forest Range Forest Bange Forest Bange Rangjuli Forest Beat Amjonga Year Formed 2015 Description of Boundary of JFMC Source: JFMC Records & Discussions during PRA Exercise in February 2017 Additional details are given at Table-1 of Record-I (Given at Annexure) Brief Details of the Executive Committee & General Body Table-B: Brief Details of Executive Committee & General Body of the JFMC ar contained in the table, which is given below. Table-B: Brief Details of Executive Committee & general Body Name of President Name of Member Secretary Name of Treasurer No. of Members in Male: 8 Executive Committee No. of Members in the 94 (one male and one female members in each household) Source: JFMC Records The JFMC consisting of Rangpathar village with a total household of 94. Table-2 of the property of the p		Revenue Circle	Dudhnoi		
Forest Range Rangjuli Forest Beat Amjonga Year Formed 2015 Description of Boundary of JFMC Records & Discussions during PRA Exercise in February 2017 Additional details are given at Table-1 of Record-I (Given at Annexure) Brief Details of the Executive Committee & General Body Table-B: Brief Details of Executive Committee & General Body Name of President Napoleon Marak Name of Member Sceretary Name of Treasurer DiansonSangma No. of Members in Male: 8 Executive Committee No. of Members in the General Body The JFMC Records Households & The JFMC consisting of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total household of 94. Table-2 of Rangpathar village with a total househo			Goalpara		
Forest Beat Year Formed Description of Boundary of JFMC Source: JFMC Records & Discussions during PRA Exercise in February 2017 Additional details are given at Table-1 of Record-I (Given at Annexure) Brief Details of the Executive Committee & General Body Table-B: Brief Details of Executive Committee & General Body of the JFMC ar contained in the table, which is given below. Table-B: Brief Details of Executive Committee & general Body Name of President Name of Member Secretary Name of Treasurer DiansonSangma No. of Members in Male: 8 Executive Committee Female:3 No. of Members in the General Body To details of Executive Committee Female:3 No. of Members in the General Body The JFMC Records The JFMC Records The JFMC Records The JFMC Consisting of Rangpathar village with a total household of 94. Table-2 of the JFMC are contained in the table, which is given below.		Forest Division	Goalpara		
Year Formed 2015 Description of Boundary of JFMC Description of Boundary of JFMC Source: JFMC Records & Discussions during PRA Exercise in February 2017 Additional details are given at Table-1 of Record-I (Given at Annexure) Brief Details of the Executive The brief details of Executive Committee & General Body of the JFMC are contained in the table, which is given below.		Forest Range	Rangjuli		
Description of Boundary of JFMC		Forest Beat	Amjonga		
JFMC East:Kachadol Village West:Puronivita South : Meghalay Border		Year Formed	2015		
West:Puronivita South: Meghalay Border Source: JFMC Records & Discussions during PRA Exercise in February 2017 Additional details are given at Table-1 of Record-I (Given at Annexure) The brief details of Executive Committee & General Body of the JFMC ar contained in the table, which is given below. Table-B: Brief Details of Executive Committee & general Body Name of President Name of Member Secretary Name of Treasurer No. of Members in Male: 8 Executive Committee Female:3 No. of Members in the General Body Source: JFMC Records Households & The JFMC consisting of Rangpathar village with a total household of 94. Table-2 of		Description of Boundary of	North: NH 37		
Source: JFMC Records & Discussions during PRA Exercise in February 2017 Additional details are given at Table-1 of Record-I (Given at Annexure) Brief Details of the Executive Committee & General Body of the JFMC ar contained in the table, which is given below. Table-B: Brief Details of Executive Committee & general Body Name of President Name of Member Secretary Name of Treasurer No. of Members in Executive Committee No. of Members in Executive Committee Secretary No. of Members in the General Body Table-B: Brief Details of Executive Committee & general Body Name of President Napoleon Marak Name of Members in Male: 8 Executive Committee Pemale:3 No. of Members in the General Body Source: JFMC Records The JFMC consisting of Rangpathar village with a total household of 94. Table-2 of		JFMC	East:Kachadol Village		
Source: JFMC Records & Discussions during PRA Exercise in February 2017 Additional details are given at Table-1 of Record-I (Given at Annexure) Brief Details of the Executive Committee & General Body Table-B: Brief Details of Executive Committee & General Body of the JFMC ar contained in the table, which is given below. Table-B: Brief Details of Executive Committee & general Body Name of President Napoleon Marak Name of Member KhagenKalita Secretary Name of Treasurer DiansonSangma No. of Members in Male: 8 Executive Committee Female:3 No. of Members in the General Body Source: JFMC Records The JFMC consisting of Rangpathar village with a total household of 94. Table-2 of the properties of the prope			West:Puronivita		
Additional details are given at Table-1 of Record-I (Given at Annexure) Brief Details of the Executive Committee & General Body of the JFMC ar contained in the table, which is given below. Table-B: Brief Details of Executive Committee & general Body Name of President Name of Member Secretary Name of Treasurer No. of Members in Male: 8 Executive Committee Female:3 No. of Members in the General Body No. of Members in the General Body The JFMC Records The JFMC Records The JFMC consisting of Rangpathar village with a total household of 94. Table-2 of the properties of the JFMC arconding the J			South : Meghalay Border		
Committee & Committee & General Body		Additional details are given at Table-1 of Record-I (Given at Annexure)			
Name of Member KhagenKalita Secretary Name of Treasurer No. of Members in Male: 8 Executive Committee Female:3 No. of Members in the General Body Source: JFMC Records The JFMC consisting of Rangpathar village with a total household of 94. Table-2 of the secretary DiansonSangma Name of Member KhagenKalita Bias Secretary DiansonSangma Female:3 Female:3 Foundation of Members in deach household Source: JFMC Records	Executive Committee &				
Name of Member KhagenKalita Secretary Name of Treasurer No. of Members in Male: 8 Executive Committee Female:3 No. of Members in the General Body Source: JFMC Records The JFMC consisting of Rangpathar village with a total household of 94. Table-2 of the secretary DiansonSangma Name of Member KhagenKalita Bias Secretary DiansonSangma Female:3 Female:3 Foundation of Members in deach household Source: JFMC Records		Name of President	Napoleon Marak		
Name of Treasurer No. of Members in Male: 8 Executive Committee Female:3 No. of Members in the General Body Source: JFMC Records The JFMC consisting of Rangpathar village with a total household of 94. Table-2 of the state of		Name of Member	•		
No. of Members in Male: 8 Executive Committee Female:3 No. of Members in the General Body each household) Source: JFMC Records The JFMC consisting of Rangpathar village with a total household of 94. Table-2 of the second of			DiansonSangma		
Executive Committee Female:3 No. of Members in the General Body 94 (one male and one female members in each household) Source: JFMC Records Households & The JFMC consisting of Rangpathar village with a total household of 94. Table-2 of the second sec			-		
No. of Members in the General Body Source: JFMC Records The JFMC consisting of Rangpathar village with a total household of 94. Table-2 of the second of t					
General Body each household) Source: JFMC Records Households & The JFMC consisting of Rangpathar village with a total household of 94. Table-2 of					
Households & The JFMC consisting of Rangpathar village with a total household of 94. Table-2 of			· ·		
		Source: JFMC Records			
Structure Record-1 may be referred for further details in the above regard.	Population	The JFMC consisting of Rangpathar village with a total household of 94. 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 5.76. (2) The sex ratio is 862 females per 1000 males in the village.		(1) The average number of persons in a household is 5.76.			

Education & Skills	Over 80 % of the population is reported to be literate. Of this 55.6% completed		
Development	primary education and 25% secondary level education and 0.85% are graduates.		
	There is one LP School in the village where children get primary level education. After primary education children have to go Meghalaya (5km) and Damra (20km). Higher secondary colleges at Mendipathar (50km). For taking post-graduation education people have to go Tura (200km) and Shillong.		
	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 rearing (b) Farming (c) Weaving		
	Government has been active in promoting formal skills development programmes in the country as well as in the state. The village has not reported receipt of benefits of any such programme has been carried out in the habitation or in nearby areas.		
Soil	The soil type of the project area includes: The soil mostly of alluvial origin comprising silt, sand and clay. The soil is very fertile Himalayan Moist Mixed Deciduous Forest		
Water	The forest areas with undulating topography are intercepted with numbers of nullahs and seasonal streams. The water table is considerably high'		
Climate: Temperature & Rainfall	The annual average precipitation during the year varies from 1440.4 mm to 2189.3 mm. The month wise numbers of rainy days vary from nil to 20. The highest number of rainy days occurs in the month of July. Very insignificant rainfall is received during the month of November, December, January and February.		
	The temperature varies from 22 degree celsius to 39.1 degree celsius.		
Forest & Biodiversity	Sal with its associates are growing naturally in the area. Different species namely SchimaWallichii, Vitexpeduncularies, Shorearebusta, Holarrhenaantidysenterica, Gmelinaarborea, Syzigiumcumini, Garugapinnata, Emlicaofficinalis, Erythrinaveriegata, Streculiavillosa, AtstoniaScholaris, Cassis Fistula etc have been found in the forest of the JFMC. The forests can yield a range of NTFP like leafy vegetables, ferns, medicinal plants, bamboo, thatch 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:		
	Fallow Land 0.75% Forest Area 9.85% Mixed Plantation by villagers 11.16% Paddy Field 59.25% Road 1.95% Settlement Area 17.40		

[
Land Holdings	The type of households as per land-holding is given at Table-3 of Record-I. From the same, it is seen that:					
	• 11.70 % of the households are landless					
	• 64.89% of the households are marginal farmers					
	 9.57% of the households belong to large categories. 					
Livestock	The total number of livestock in the village is 1276. The main types of livestock					
	possessed by the households include:					
	Cows: 276					
	Goats: 66					
	Pigs: 132					
	Poultry: 345					
	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					
Infrastructure &	of sustainable livelihood options. The present condition of infrastructure in the					
Communication	village is not satisfactory. This is borne out by Table-5 of Record-I , which gives					
Facilities	the present status of the village infrastructure.					
	Physical Infrastructure: At a distance from 3 km towards the village, road connectivity is very poor. Road is katcha.					
	Education & Health Facilities: There is one LP School in the village where					
	children get primary level education. After lower primary education children have					
	to go to distanced places, children use to go Meghalaya (5km) and Damra (20km).					
	Higher secondary colleges at Mendipathar (50km). For taking post-graduation					
	education people have to go Tura (200km) and Shillong.					
	There is no Public Health Centre within the village People use to go Dudhnoi					
	There is no Public Health Centre within the village. People use to go Dudhnoi, which is 9km far from the village.					
	which is 9km far from the village.					
	Govt. Offices : All government offices are outside village. Forest beat office and post office in amjonga at a distance of 3 km. Gram panchayat office at Puronivita at					
	a distance of 8 km.					
	Financial Institution : Facilities for financial institution like bank is outside the					
	villageat Dudhnoi at a distance of 9 km.					
Agricultural Crops	The details of the agricultural crops grown in the village is available at Table-6 of					
	Record-I.					
	The above shows that the following are the main crops grown in the village.					
	Kharif Crops: Ranjit, Paddy, Yam, turmeric, Ginger					
	Rabi crops: Leafy vegetables Vegetables: Bottle guard, white guard, bitter guard					
	Others: Banana, guava, jack fruit, jamun, lemonetc.					
	oners. Samuna, gaura, jack fruit, jainuii, icinonete.					
	Table-7 of Record-I may be referred to for the production and yield details of the					
	crops grown in the village.					
Crop Production						
Profile	The maximum numbers of households are involved in growing crops like rice and					
	Sali, paddy.					
	The production and yield of crops is given as follows:					
	(a) Paddy: Production 800 Quintals Yield 18 q /ha					
Fodder Availability	The matter of fodder availability in the village is dealt with at Table-8 of Record-I.					
Touter Availability	The above shows that the main sources of fodder in the village are as follows:					
	(a) Crop residue					

	(b) Grazing in forest (c) Household wastage (d) Green fodder
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: Amjonga, 3 km from the village (b) Weekly / Bi-weekly Market: : Amjonga, 3 km from the village (c) Major Market: : Dudhnoi at 9 km away
Water Resources	The water resources are tabulated at Table-10 of Record-I. The main water resources with water availability is as follows: Katcha ring well (Water Availability: Perennial / Seasonal)
Energy Consumption	Table-11 of Record-I shows the major sources of energy in the village. The same have been listed below. (a) FUEL WOOD- Households Depending 82 Nos. Source: forest, own yard area (b) KEROSENE-Households Depending: 94 Nos.(for lightning houses, than as fuel) Source: Open Market and PDS
Socio-economic status	Social set-up: The village is inhabited by tribal community. They do not have a caste system. The society is not marked by deep social divisions. The observed position of women is satisfactory. Economic Condition: Villager's main source of earning is daily wage earning with 45%. Very few are associated with service sector. Service sector comprises of school teacher, medical sector, defence etc. Non farming sector consist of carpentry, masonry, animal husbandry etc.
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

2. Livelihood Opportunity Analysis

PRA Exercise	Team from IIE Guwahati carried out PRA exercise in Rangpathar JFMC as follows:		
	Date: 1st March, 2017Location: Rongpathar LP School, Rongpathar Numbers Present: 50		
	In Presence of: JFMC office bearers, Headmaster of LP School, 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 & Different tools were used and outcomes obtained. These include: Outcomes of Social Mapping the PRA Wealth Ranking Time Line review Seasonality of Livelihoods Venn Diagram **Appendix-3** furnishes detailed information of the above. Ranking 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. Livestock rearing 2.Weaving 3. Cane and bamboo 4. Tailoring 5. Carpentry 6. Masonry Ranking of EPA **Details** Village EPA as Probable source of (Appendix-3 has additional Rank ranked funding/Deptt. particulars) 40ft X 35ft with platform and **EPA from APFBC** Community hall 1 store house **Drinking Water EPA** from APFBC/ At least 4 ring well 2 **NRDWP** Culvert 4 Nos of culvert in the village PWD 3 adjoining road Providing HHL (House Hold 4 Sanitation SwachBharart Mission/ Latrine) - Low cost, septic PHE and sanitary type. electricity 5 Electricity supply Uninterrupted ASEB/APDCL supply to each household 6 Health Center Health centre within the PHC village. Livelihood Livelihood Opportunities were identified as follows: opportunities Livestock Agriculture & Horticulture **NTFP** Skills Development Credit Facility Agriculture & Table-12 under Record-2 may be seen in this connection for opportunities in the areas of Horticulture agriculture and horticulture.

	The main constraints are: (a) Very negligible use of fertilizers and pesticides, insecticides. (b) Lack of irrigation facilities (c) Lack of agricultural infrastructure, modern tools and equipment's viz, power tillers, tractors etc. (d) Non usages of high yielding seeds etc. The opportunities are: (a) Application of proper and controlled pesticides and insecticides. (b) Introduction of new and advance technology (c) Well-structured training programme. The villagers are inherited with the skill of cultivation. All they need is improvisation of their skill level. The suggested programmes are: Tractor operation training Agri-skill development programme. Training on insecticides, pesticides, hybrid cultivation etc.
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. (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 The opportunities are: (a) Higher income from livestock rearing. The suggested programme is:
	(a)Piggery (b)Poultry
NWFP	The opportunities for NWFP 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 The suggested programme are:
	(a)Plantation of fruit trees, (b)Medicinal Plant / Medicinal and Aromatic plants etc.

Specialized Skills

For skills development, the opportunities are tabulated at **Table-15** under Record-2 like i) livestock rearing, ii) weaving

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. / or other sponsorship agencies.

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) Higher rate charged by the private money lender.

The opportunities are:

(a)setting up modern financial institution

(b)Adequate awareness.

The suggested programme is:

(a) Setting up modern financial institution in the nearby areas.

Strategic Interventions

Summarizing the suggested programmes at above as strategic interventions for the 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 fruit trees, Medicinal Plant etc
- **4. Specialized Skills:** Training on Modern Tools and Equipment in livestock rearing, weaving etc. 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.
- **5. Credit facility:** Setting up modern financial institution in the nearby areas.

Framework of livelihood Opportunity Analysis has been done with the help of the following criteria:

- A) Livelihood assets
- B) Livelihood context
- C) Priority ranking on potential livelihood

The livelihood situation of RangpatharJFMC has been analysed during the PRA exercise using sustainable livelihood framework of DFDI (Department of Funding for International Development). The existing livelihood situation of JFMC is outlined in terms of –

- Natural Capital
- Physical Capital
- Social Capital
- Human Capital
- Financial Capital

NATURAL CAPITAL:

The major natural capital of Rangpathar JFMCis Amjonga P.R.F

Majority of the people are dependent on the forest for firewood, green fodder, timber etc. For farming purpose and for livestock rearing, the villagers use the river water.

(Refer table 10, 11, table 3 of FDP for further details)

PHYSICAL CAPITAL:

Majority of the households in the Rangpathar JFMC are involved in daily wage earning. Farming activities are very less as land holding is minimal in the JFMC. 31.91% of the household are marginal farmers. 64.89% are landless. Detailed land holding pattern is described in the table 3/annexure 6.

The village has 5 numbers of semi-pucca houses and 5 numbers of pucca houses and the remaining houses are thatched houses. Among the various sources of energy consumption such as Biomass, kerosene, electricity, LPG and candle, villagers depend on the firewood and kerosene for household and other uses. Although, some of the household have LPG, but reliability is very less. (Refer to table 10, 11)

There is two LP schools, one ME School, one High School and one Junior College present within the JFMC area. (Refer to table 5)

In case of water sources, 20 per cent HH have access to katcha ring well.

SOCIAL CAPITAL:

The villagers are not fully involved in the JFMCs functioning due to lack of awareness on their roles, functions, and specific benefits they are going to receive.

There is one LP School and three Anganwadi School in the JFMC.

HUMAN CAPITAL:

75 per cent of total population of the JFMC are literate and out of this 51 per cent of them have crossed upper primary level school education.

FINANCIAL CAPITAL:

There is no government bank or lending institution available in the JFMC area or in the nearby areas. However, villagers lend from informal lending groups, relatives etc.20 numbers of people have bank account in commercial banks, but they are not aware of the benefits of financial inclusion.

Livelihood Context:

Livelihood activities of the RangpatharJFMC are identified on the basis of following criteria:

- a) Contribution of particular livelihood activity in the total income of the JFMC
- b) Percentage involvement of income group in a particular livelihood activities
- c) Priority ranking of the potential livelihood activities

3. Livelihood Development Plan

Income Generating Activities	The main income generating activities as planned at the village are:			
1100111000	Farm Sector :			
	1.Poultry and Piggery			
	2. Vanilla cultivation			
	3.Horticulture			
	Non-Farm sector:			
	1.Handloom/ Weaving			
	2.Driving			
	3. Electrician			
	4. Sericulture			
	5. Small Business			
SHG Activities				
SIG Activities	SHGs of the village can plan the following activities:			
	1. To create awareness.			
	2. To organise and form group			
	3. To involve the villagers in Livelihood Activities collectively.			
	·			
E a arrana Traina	4. To involve themselves in earning activities.			
Exposure Trips	Some exposure trips may be planned:			
	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 schemes			
	(f) MGNREGA/DRDA			
	(g) PHE etc			
	(h) Other schemes for rural development and livelihoods as found appropriate.			
	() 1 2 and 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10			
	The above convergence will yield synergies for the present plan, as well as help in			
	The above convergence will yield syncigles for the present plant as well as note in			
	sustaining the planned works in the post-project period.			

4. Forest Development Plan of Rangpathar JFMC

This Forest Development Plan has been prepared after a detailed PRA exercise at the village level as a part of the Micro-Plan of Rangpathar 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 JFMC Forests of the RangpatharJFMC:

- (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 Table-3.1 under Proforma-3 ('Forest Development Plan'), which has been attached as Annexure to this microplan. After considering other areas planted (or to be planted), the conditions of the forests of the RangpatharJFMC have been summarized below.

Table-1: Conditions of the Forests of Rangpathar 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 / PF Name: Rangpathar Beat: Rangpathar Compartment: Nil	75 Ha	0 km		
(B) Other Planted Area				
TOTAL	75 Ha			

1.2. Forest Soil Type

The forests of Rangpathar JFMC are located in loamy type(s) of soil. Some salient points of the forest soil type have been given in the following table.

Table-2: Forest Soil Type inRangpathar 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	Yes	Nil
(b) Mud-flat	Nil	Nil
(c) Newly accreted land	Low	Nil
(d) Sand dune	nil	Nil

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

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

- (a) Loam soil
- (b) Fertile

1.3. Existing Composition of Flora

In the forests of the Rangpathar JFMC, the existing composition of the flora has been given as follows. It may be noted that the local forests are classified as Himalayan Moist mixed Deciduous Forest.

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

Parameter	Local Name(s)	Biological Name(s)
Major Forest Species	Segun	Tectonagrandis
	Gomari	Gamelinaarborea
	Arjun	Terminalia arjuna
	Bhelkor	Trewianudiflora
	Ghoraneem	Meliaazedarach
Shrubs	Dhekia	Ferns
	Jharmonibann	Atropabellodonna
Medicinal Plants	Arjun,	Terminalia arjuna
	Hilikha	Terminalia chebula
	Neem	Azadirachtaindica
	Amla	Phyllanthusemblica

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 Rangpathar JFMC.

2.1. Past Protection Measures of the JFMC

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

- (a) Number of households involved:-
- (b) Number of people involved:-
- (c) Summary of the measures: Patrolling
- (d) Any formal mechanism: Not available

[Source: Proforma-3, 'JFMC Status - viii + ix' / 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 Rangpathar JFMC

Name of Forest	Average Household Requirement		How met at	G
Produce	Frequency of Requirement	Approx. Qty	Present	Source
Firewood	Once in a week	40-50 kg		Tree
Timber for House	Once in a year	1-2qntl/yr		Forest
Small timber for Implements	Nil			
Pole / Bamboo	Frequently	1-2 bamboo / per month		Forest
Fodder from Forest	Cattle grazing inside forest			Forest
NTFP	Rarely			
Other	-			

Source: Proforma-3, Table-3.2 / Discussions with Forest Department personnel & Community members

There are 94 households in the Rangpathar JFMC. From the above table and this number of households, it is inferred that the total annual requirements of the Rangpathar village for forest produce for own use is as follows:

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

Name of Forest Produce	Community Requirement (Kg per annum) (*)	Remarks
Firewood	140000	Throughout the year
Timber for House	110000	Dec - Jan
Small Timber for Implements	-	Occasional
Pole / Bamboo	1500 bamboo	
Fodder from Forest	-	
NTFP	-	
Other		

Source: Table - 4(A) at above & Total Household Number from Community records

(*) = Approx. Qty. of Average Household Requirement (from Table-4 (A) x _____ Households

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 Rangpathar JFMC is given in the following table.

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

	Colle	Collection for Marketing		
Name of Forest Produce	Season / Months	No of Households Collecting	Average Qty. Collected (Kg)	Location of Collection
Firewood	Dec/ Jan	3-4	400-500	Forest
Timber for House				
Small timber for Implements	-			
Bamboo	Once a month	4-5	8-10 pc	Forest
Pole	-			
Fodder from Forest	-			
NTFP	-			
Other				

Source: Proforma-3, Table-3.3 / Discussions with Forest Department personnel & Community members

In the above connection, the following table gives additional pertinent information.

Table-5 (B): Collection & Marketing of Forest Produce - Additional Information [Rangpathar JFMC]

Name of Forest Produce	Surplus Marketed (Kg)	How marketed	Average Income per HH from sale of Forest Produce
Firewood	1300kg	Rangpathar	1600- 2000/month
Timber for House	-	-	
Small timber for Implements	-	-	
Bamboo	32-40 pc/per month	Rangpathar market	800- 1250/month
Pole	-	-	
Fodder from Forest	-	-	
NTFP	-	-	
Other			

Source: Proforma-3, Table-3.4 / Discussions with Forest Department personnel & Community members

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

The total requirements of forest produce by the community members of the Rangpathar 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 Rangpathar 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	180000 kg	1570	162575
Timber for House	110400 kg	-	110400
Small timber for Implements	-		
Bamboo	1656 pcs	384-600pcs	2040-2256pcs
Fodder from Forest	-		
NTFP	-		
Other	-		

Source: Tables 4 (B) & 5 (B) of this Section, given at the previous pages

3. Forest Protection Issues

3.1. Protection Problems

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

Table-7: Protection Problems of the Rangpathar JFMC

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

Source: Proforma-3, Table-3.5 / Discussions with Forest Department personnel & Community members

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

- (a) Grazing Local Animals
- (b) Grazing Animals from Other Area

3.2. Reasons for Degradation of the Forest

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

- (a) Cutting of trees
- (b)Grazing of cattle,of forest land.

[**Source**: Proforma-3, Table-3.6 / Discussions with Forest Department personnel & Community members]

4. Components of the Forest Development Plan

The following sub-sections discuss the main components of the Forest Development Plan of Rangpathar 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 Rangpathar JFMC from the issues discussed earlier at Sub-section 3.1.

Table-8: Protection Plan of the Rangpathar JFMC

Protection Work [to be filled from Table 3.7 of Proforma-3 as applicable]	Location in Forest Area	Quantification of the Measures [Length, Area, Size etc.]	Timing	Priority [High / Medium / Low]
Social Fencing	Boundary	Along the Demarcation of the Plantation Area	Grazing Season	High
Fire Protection	Within the Forest	-	Autumn- Winter	High
Illicit Felling	Within the forest	Within the forest	Summer	Low

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 Rangpathar JFMC (with high / medium priority) are as follows:

- (a) Fencing
- (b) Fire protection
- (c) Patrolling

4.2. Types of Operations Proposed

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

Table-9: Types of Operations Proposed in the Rangpathar JFMC

Treatment	Required (Yes/ No)	Responsibility of JFMC (Yes / No)	Month / Year when can be done	Extent of Area proposed for Treatment (Ha)
Restoration of Degraded Forests	Yes	Yes	April - August	
Protection to Cut Stumps of Trees				
Water Reservoirs				
Grass &Silvi-pasture				
Bamboo Plantation	Yes	Yes	Mar-April	
Seed Sowing	Yes	Yes	Jun/July	Nil
Root & Shoot Cutting & Plantation	Yes	Yes	Jun/July Oct-Nov	Nil

Treatment	Required (Yes/ No)	Responsibility of JFMC (Yes / No)	Month / Year when can be done	Extent of Area proposed for Treatment (Ha)
Cut Back & Coppice Treatment				
Physical Fencing	Yes	No	Sep- Nov	Nil
Social Fencing	Yes	Yes	Throughout the year	50 ha
Other Activities				

Source: Proforma-3, Table-3.9 / 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 Rangpathar JFMC:

- (a) Seed Sowing
- (b) Root & Shoot Cutting & Plantation

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 Rangpathar JFMC

Treatment	Area in Ha under Plantation Module	Priority for Block Plantation	Species	Spacing (metre x metre)
Assisted Natural Regeneration (with plantation in gap)	30-35	High	Sal, Bohera, Arjun,	4m x 4m
Block Plantation (Firewood)	25	High	Teak, Gamari, Sissoo, Ghoraneem, Bohra, Bhelkor	2m x 2m
Sowing of Neem, Amla, Mahua, Bahera (Medicinal Plants)	Nil	Nil	NTFPs	2m x 2m
Other	-	-	-	-
TOTAL AREA (in Ha)	60	-	-	-

Source: Proforma-3, Table-3.8 / Discussions with Forest Department personnel & Community members

4.4. Forest Improvement- Annual Targets

The annual targets in the above connection are given below for a ten year period

Table-10 (A):Firewood Plantation- Annual Targets of Forest Improvement in Rangpathar JFMC (Year-1 to Year-5)

Name of Plantation	: Firewood Plantation
Plantation Period	: 2016-17 to 2020-21 (5Years)
Plantation Area	: 50 ha
Spacing	: 2m X 2m -2500 plants per ha
Number Blocks	: 1 block
Species	: Teak, Ajar, Khoroi, Arjun, Ghoraneem, Bamboo (Jaati,
	Kako, Bholoka, Bijili)

Financial Year	Activities
	Identification of suitable site for regeneration-examine possibilities of natural
2016-17	seed fall-determine intensity and nature of biotic interference. Demarcation of
	land. Land development, Soil Working. Block Plantation 2m x2m, 2500
	plants/ha.
2017-18	Maintenance of plantation
2018-19	Maintenance of Plantation
2019-20	Maintenance of Plantation
2020-21	Maintenance of Plantation
2021 22	Felling of trees in the 1 st , 5 th , 9 th , 13 th , etc rows and planting/seed sowing in these
2021-22	felled rows.
2022-23	Felling of trees in the 2 nd , 6 th , 10 th , 14 th , etc rows and planting/seed sowing in
2022-23	these felled rows.
2023-24	Felling of trees in the 3 rd , 7 th , 11 th , 15 th , etc rows and planting/seed sowing in
2023-24	these felled rows
2024-25	Felling of trees in the 4 th , 8 th , 12 th , 16 th , etc rows and planting/seed sowing in
2024-23	these felled rows
2025	Repeat of activities of 20121-22 to 2024-25 continuously
onwards	

Table-10 (B): Block Plantation of Sal Mixed with Associates-Annual Targets of Forest Improvement in Rangpathar JFMC (Year-1 to Year 10)

Name of	: Block Plantation of Sal Mixed with Associates
Plantation	
Plantation Period	: 2016-17 to 2026-27 (10 Years)
Plantation Area	: 25 ha
Spacing	: 4m X 5m -500 plants per ha
No. of Plants to	: 12,500+2500 (Vacancy Filling)
be Raised	
Species	: Sal; Associates- Bohera, Arjun, Sida, Haldu.
Rates	: As Approved by APFBCS (to be increased by 20% every two years)

Fina ncial Year	Activities
1 st Year	Identification of suitable site for regeneration-examine possibilities of natural seed fall-determine intensity and nature of biotic interference- Demarcation of land during the month of December-January, Land development, Soil Working @ Rs 1000/ha
2 nd Year	Block Plantation 4m x 5m, 500 plants/ha-during the season of April-June ; GPS marking of the area

3 rd	Vacancy filling during the season of April-June
Year	Weeding; Cultural operation
4 th Year	Same as above
5 th Year	Same as above
6 th	
Year	Cultural operation
7 th Year	Jhuming and Cultural operation
8 th Year	Same as above
9 th	Same as above
Year	
10^{th}	Same as above
Year	

4.5 Nursery Development Plan

The Nursery Development Plan for Rangpathar JFMC depends on the following types of Nurseries: (a) JFMC Peoples' Nursery (incl. Departmental Nursery)
The details are given below.

JFMC Nurseries

The following table gives the details of the nurseries of the Rangpathar JFMC. This includes the Departmental Nursery involved in JFMC works.

Table-11 (A): JFMC Nurseries of the Rangpathar JFMC

Location of Nursery	Sp. Planted	Year of Development	Number of Seedlings	Remarks
Within the Village	Gomari, Teak, Goraneem, Bhelkhor, Jamun, Arjun, Bohera, Bamboo etc.	2015-16	1,25,000	Provide sapling for vacancy filling to be under taken in the 2016-17. Saplings availed from both departmental and JFMC nursery.
		2016-17	25,000	Provide sapling for vacancy filling to be undertaken in the 2017-18
		2017-18	20,000	Provide sapling for vacancy filling to be undertaken in the 2018-
		2018-19	10,000	Provide sapling for plantation to be under taken in the 2020-21

Location of Nursery	Sp. Planted	Year of Development	Number of Seedlings	Remarks
		2020-21 onwards	32,000	Planting in the felled rows (1/4 th of area) every year

4.6 Maintenance Plan - 10 Years

The maintenance plan for plantations raised in the Rangpathar JFMC is given below. This covers a period of ten years.

(A) Fuel wood Plantation

Table-12 (A): Maintenance Plan of Fuel Wood Plantation in the Rangpathar JFMC

Year(s)	Treatment
2016-17 to 2025-26	As provided in Action Plan for Firewood Plantation

(B) Sal- ANR

Table-12 (B): Maintenance Plan of Sal ANR in the Rangpathar JFMC

Year(s)	Treatment
1st to 10th year	Action Plan for Sal-ANR; Sal with associates

4.7 Miscellaneous Operations Plan

The miscellaneous operations planned in the Rangpathar JFMC are given below.

Table-13): Miscellaneous Operations in the Rangpathar JFMC

Operation	Required	(Yes / No)	Responsibility	Month / Year	Area (Ha)
No such planned	-		-	-	-

Source: Proforma-3, Table-3.13 / Discussions with Forest Department personnel & Community members

5. Expected Benefits

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

5.1. Expected Benefits Related to Wood & Grass

The above has been tabulated below for the Rangpathar 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 Rangpathar JFMC

Item	Month	Year (Indicative)	Quantity
Firewood	Throughout the year	2020-21	2 quintals annually /household

Timber for House	Throughout the year	2025-26	2-3 trunks per household annually
Small timber for Implements	Throughout the year	2025-26	6-7 pieces per household annually
Bamboo	Throughout the year	2017-18 onwards	100 pieces/household
Pole	-	-	-
Fodder from Forest Trees & Grass			
NTFP	June-July	2021-22 onwards	1 MT
Wages	Planation and its maintenance.	2016-17 onwards	-
Firewood final felling	120/ha in Nov- Dec annually	2021 onwards	-

Source: Proforma-3, Table-3.14 / Discussions with Forest Department personnel & Community members

5.2. Sharing Mechanisms

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

Table-15: Sharing Mechanism for Rangpathar JFMC

Method	Items
To be shared equally	NTFP, Sal (as revenue sharing)
To be freely collected by the members	Firewood, NTFP
Other Methods	Processing of NTFPs

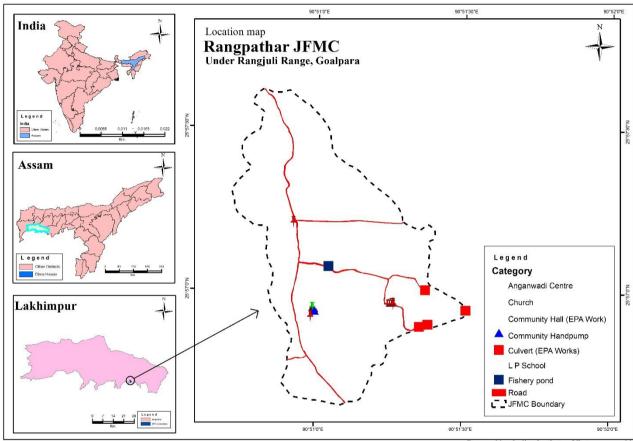
Source: Proforma-3, Table-3.15 / Discussions with Forest Department personnel & Community members.

List of Appendices

Appendix No.	Heading	Page No.
1	Maps Village Map Village Social Map Village Resources Map	24-27
2	Land Use Map of Village (GIS)	28
3	PRA Exercise	29-37
	Social Mapping Wealth Ranking Time Line review Seasonality of Livelihoods Venn Diagram Chapatti Diagram Priority ranking and EPA	
4	Photographs	38-39
5	List of JFMC Members	40
6	Filled Up Tables (Proforma-1 to Proforma-4) Table Nos. 1-37	41-48

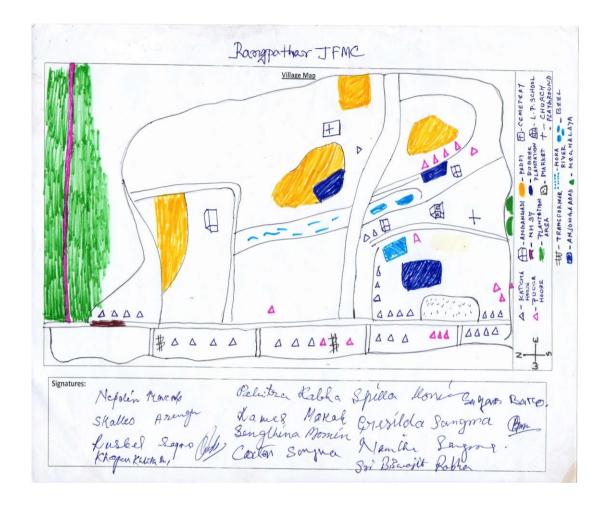
Appendix 1

Location map

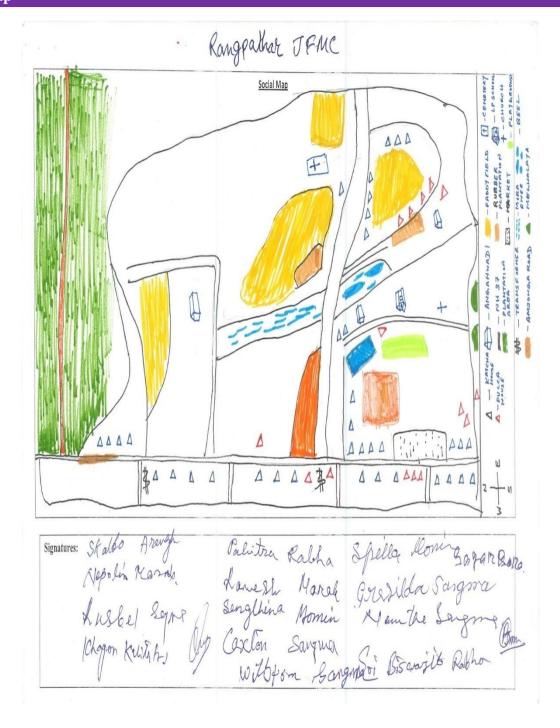


Prepared by: Indian Institute of Enterpreneurship

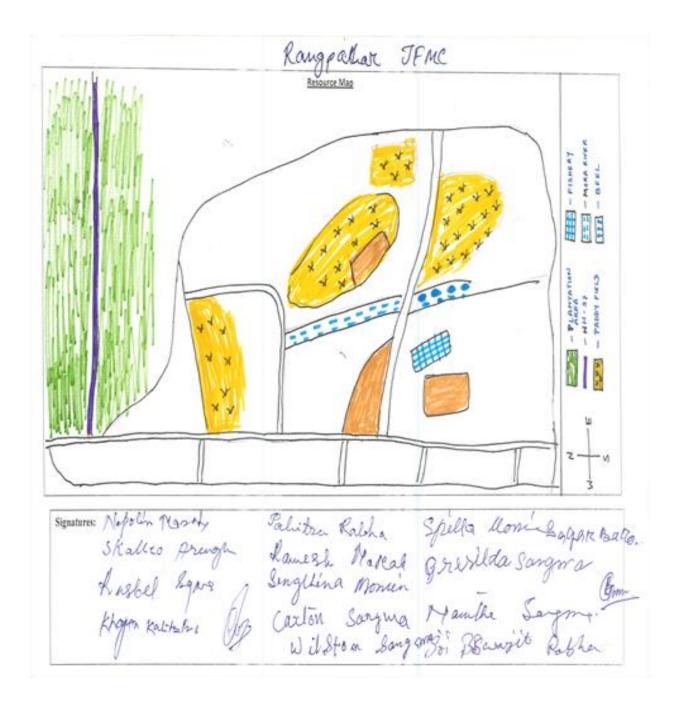
Village Map



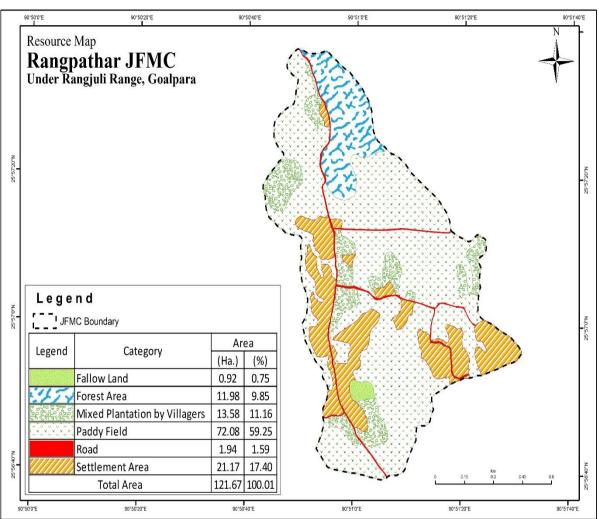
SocialMap



Resource Map



Land Use map of GIS



Source: Google earth Imagery

Prepared by: Indian Institute of Enterpreneurship

Appendix 3

PRA ACTIVITY

Numbers of participants:	40
Time:	11:30 am, 28 th Feb 2017
Venue:	Rangpathar L.P. School

Table – 3.1Brief about the villages under RangpatharGaropara JFMC

Sl.	Name of the Village	No. of	Population		
No.		households	Total	Male	Female
1	Rangpathar	94	542	291	251

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 visualise the socio-economic aspects of the Rangpathar JFMC where the housing patterns of the households, the numbers of schools, social infrastructure, and religious beliefs among households. Awareness camp about the project was carried out beforehand. So it was easy to gather people for the PRA process in the community hall. And due to time constraint we have to skip the transect walk. The villagers were enthusiastic about the mapping process and they actively participated in the process.

At first, the people of villagers were asked to draw the main roads of the village and then asked them to locate their houses and locate the important social places and government offices with help of the PRA team members. Two of them voluntarily came out to draw and they were assisted by other villagers and the team members. All the villagers spotted their households in the map. After the mapping process the team members collected the information about the pattern of their households namely pucca, semi pucca, IAY and thatch house.

Table 3.2: Information about the villages

	Village	Rangpathar	
	Total Population	542	
	Male	291	
Social information	Female	251	
	Total households	94	
	Numbers of semi	15	
	Numbers of pucca	5	
	Numbers of IAY	0	
	Bridges	2(1 RCC, 1 wooden)	
	Stream	0	
	River	1(Sibonga River)	
	PHE	0	
	PHC	0	
Landmarks	Power Transformer	1	
	Community hall	0	
	LP School	1	
	ME School	0	
	High school	0	
	Anganabadi school	3	
	Church	2	

Findings of social map:

- The participants of social mapping have identified all 94 households out of which 15 are pucca houses and others are katcha and semi pucca houses. There is no IAY houses through the entire village. This signifies that the IAY scheme of Government has not achieved considerable coverage of poor people residing in rural area yet.
- JFMC area have one LP school and three Anganwadi school inside the village.
- Out of 94 HH, people belong to ST community.

3.2 Wealth Ranking:

Wealth ranking, or well-being ranking, involves community members identifying and analysing 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/well-being.

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

- a) Land holding
- b) Occupation

As such about 55 per cent people are poor, about 30 per cent are belong to middle class and about 15 per cent are categorised to be rich. Poor people are mainly irregular wage earners, sometimes they lease (adhilua) others land.

% of household in each category

Poor Class Middle Class** Rich Class**

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 Type 1896 Establishment of this village Constructive 1910 Construction of Community pond Constructive 1977 Construction of Baptist Church Constructive 1989 First graduate in the village Achievement 2006 Electricity in the village Social 2014 Flood badly affected the village Destructive 1963 Establishment of the L.P. School Constructive

Table 3.3: Timeline review

Learnings:

During the field survey and our research study, it is observed that the historical data of the JFMC says that there are 4 nos of constructive events in the JFMC in addition with an establishment of a social unit and there is only one destructive occurance of flood during the year 2014 which caused a severe damage to the village area.

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. Also people cultivate Taro, Turmeric, Betelnut. Good amount of Bamboo are seen in the JFMC. The FGD conducted revealed that other major livelihood options available in the JFMC are daily wage labourer, Livestock rearing (Piggery), shop-keeping, weaving, masonry, tailoring, carpentry which are not seasonal in nature and also included in the table.

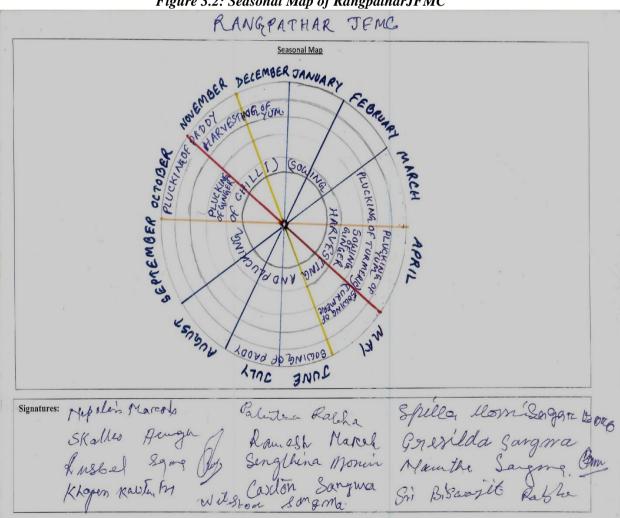


Figure 3.2: Seasonal Map of RangpatharJFMC

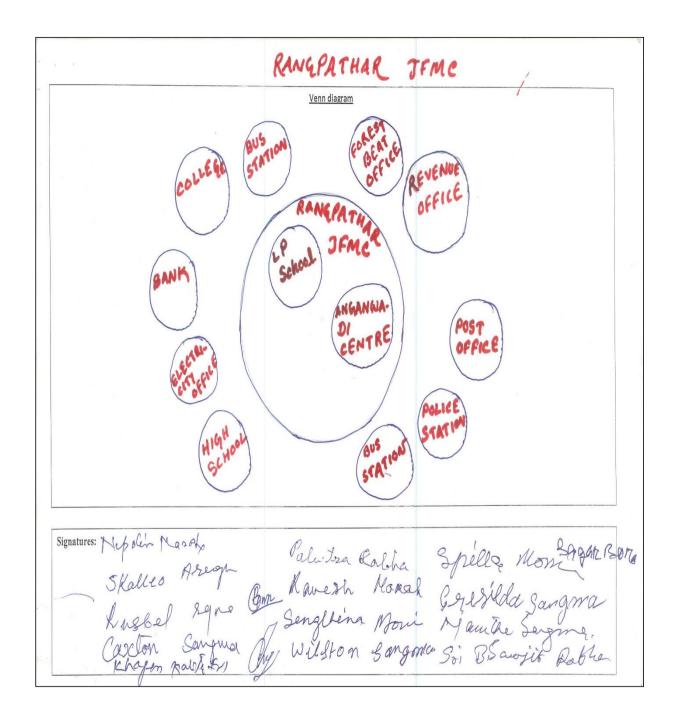
Table 3.4 Seasonal cropping pattern

Table 3.4 Seasonal Cropping patiern							
Agricultural crop	Sowing/Planting	Harvesting	Plucking/Cutting/Collecting				
Sali Rice	June-July	Aug-Oct	Nov-Dec				
Yum	Sep-Oct	Nov-Dec	April				
Turmeric	May-June	July-August	March-April				
Ginger	April	May	October				
Chilly	Throughout the year						
Non Farming sector							
Animal Husbandry Tailoring	Throughout the year						
Masonry							
Electrician							
Buisnessman							
Weaving							
Daily wage earner	Throughout the year						

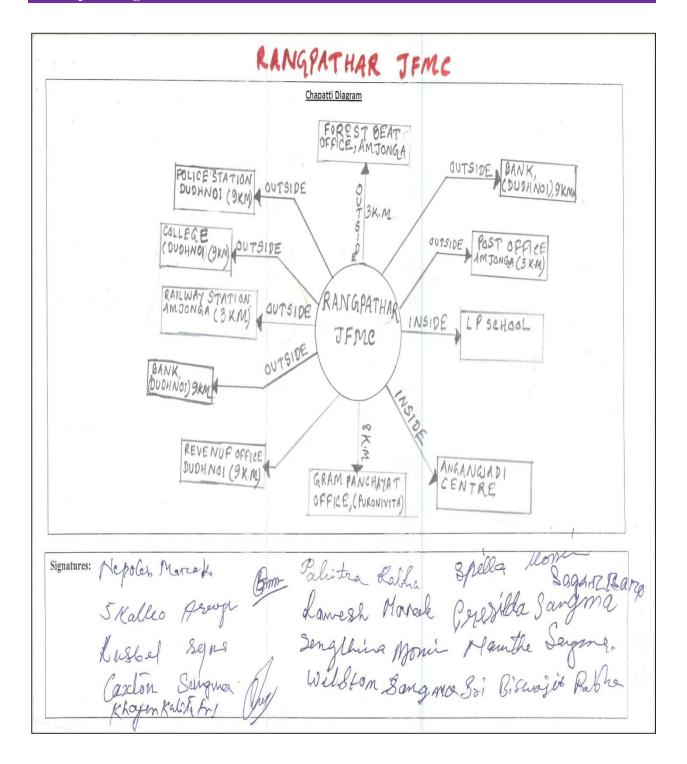
Learnings:

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

3.5 Venn Diagram



3.6 Chapatti Diagram



Priority Ranking- Livelihood and Entry Point Activity(EPA)

1					Priorit	y Ranking of			ar .	JPH C.		
Livelihood Activi	ties	Livestock	weaving	Bamboo	Tailoring	Compensary	Masming	K.			Marks	Rank
		A	В	C	D	B ·	F	G	Н	I		
Livestock Reaning	A	Χ	A	A	A	A	A				5	1
wearing	В		X	B	B	В	В				4	2
are & Bamboo	С			X	C	C	C				3	3
Pailoring	D				X	0	D				2	4
corputny	Е	4				X	E				1	5
Masonry	F			_			X		-	-	0	6
4	G				1				-		-	
	H			-					+-		,	-
ignatures: Nep SKa Nws CDV	olen	Marzo Ar	ok engh		Pa X	litza amesi	Rain M	tha lotal	90 (3	pello	dd g cur	mangma gma.
COO	lon	d * San	yma,	Our	K	engle Logen	na halfil	Mon		Manie	again !	Sarro.

Priority ranking of livelihood by the villagers

		1		iority R					vity	Ra	ngf	atha	or JFMC	
Entry Point Activities		culued	Commis	Linker	Road	Sampet	Elaebucidy	LPG	Health	fram-			Marks	Rank
		A	В	С	D	Е	F	G	Н	1	+	-K		
Control (4nos). Community Hall Brinking water Road.	A	X	A	6	1	A	A	A	A	A			6	314
Community Hall	В		X	0	1	B	В	B	þ	B			5	416
brinking water	С			X	D	6	0	6	C	C			7	2nd.
Road.	D				X	D	Þ	D	D	D			8	1st
Sanitation	Е					X	E	E	E	E.			4	gun
Electricity	F						X	Gr	F	F			2	14
Electricity LPG Connection Bealth center	G							X	Н	1			1	8 1/2
Dealth center	Н								X	T			1.	glur
Transportation.	I									X			3,	6 96
V	1													
	K	-						<u> </u>						

Priority Ranking of Entry point Activity by the villagers

PHOTOGRAPHS



During the PRA mapping



PRA Mapping



Villagers after the PRA activity with Member Secretary

Annexure 5

LIST OF JFMC MEMBERS

List of Executive members.

- 1. Nepolin Marak President
- 2. Khagen Kalita Member Secretary
- 3. Dianson Sangma Treasurer
- 4. Witston Sangma
- 5. Polling Sangma
- 6. Caston Sangma
- 7. Bringkil Marak
- 8. Endalson Marak

Forest Protection Committee Garo Rongpather. Glp. Assam.

- 9. Smt. Gradine Sangma
- 10. Smt. Silit Sangma
- 11. Smt. Liamoni Marak

Prote

Rangapathar Garapara Forest
Protection & Regn. Committee J. F.M.G.

Annexure 6 (Record I) Table 1: Basic data of the village:

Table 1: Basic data of the JFMC

Sl.No	Name of	Date of Establishment	No. of memb ers in executi ve comtt.	Name of President	Name of Secretary	Money in village Dev.Fund.(VDF	Contrib ution per family per person	Social fencin g used Yes/N o	Remarks on special attainme nts	Grading % of Success of JFMC by RFO
1	Rangpathar	2015	11	NepolinMar ak	KhagenKali ta			yes		

Table 2: Village wise population data:

Table -2: Demographic status of the project villages

Sl. No.	Name of village	Households (No.)	Popi	ulation ((No.)	Sex ratio/1000	Avg. HH size
110.	vinage	(140.)	Total	Male	Female	Male	
1	Rangpathar	94	542	291	251	862	5.76

Source: - Field survey report

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

Table3 Village wise farmer category on the basis of land holding

		Types of Farmers according to land holding								
Name of the JFMC	Large Farmer (> 10 hectare)	Small Farmer (2-10 hectare)	Marginal farmer (< 2 hectare)	Landless	Total					
Rangpathar	9	13	61	11	94					

Table 4: Cattle Population:

Table 4: Cattle Population of the JFMC

Village wise numbers of cattle or type of animal										
JFMC	Cows	Buff aloes	Goats	Sheep	Bulls/Oxei ng	Camel s	Pigs	Hens/ Cocks	Duck	Tot al
Rangpathar	276	Nil	66	Nil	Nil	Nil	132	345	52	87 1

Table 5: Village wise Infrastructure:

Table 5 Showing village wise infrastructure

Sl.N o	Infrastructure	Location	Distance from village, if in another location (in kilometres)	Condition and status of present use
1	Main Road	Amjonga	3 km	Katcha Road
2	Electricity	Dudhnoi	9 km	Good
3	Gas connection	Dudhnoi	9 km	Good
4	Transport	Amjonga	3 km	Good
5	Primary health centre	Nil	Nil	
6	School	Inside the village	-	Poor
7	Post Office	Amjonga	3 km	Poor
8	Bank	Dudhnoi	9 km	Good
9	Anganwadi Centre	Inside the village	-	Poor
10	Gram Panchayat Office	Puronivita	8 km	Good
11	Police Station	Dudhnoi	9 km	Good
13	Forest Office(Beat)	Amjonga	3 km	Good
14	Bus Facility	Dudhnoi	9 km	Good
15	Railway Station	Amjonga	3 km	Good
17	JFMC assets community hall	Nil		
18	District Head Quarter	Goalpara		Good

Table 6: Agricultural crops

Table 6 Agriculture Crops

8 1									
	Rai	in fed	Irriga	ntion					
	Name of Crop	Area in ha	Name of Crop	Area in ha					
Kharif	Sali	45	NA						
Rabi	Leafy vegetables	Household use	NA						

Table 7: Crop production profile of RANGPATHAR JFMC:

Table 7 Crop production profile of Rangpathar JFMC

Name of crop	Total	Number of	Average
	production(approx.)in	households growing	production(quintal per/ha)
	quintals		
Paddy	1720	36	30
Vegetables(Ginger)	30	65	3.75

Table 8: Fodder Availability (animal)

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

1 wow > 1 Location of marries from the +mage									
For Purchase	Location	Distance from village if in other village (in km)							
Grocery shop	Amjonga	3 km							
Weekly Market	Amjonga	3 km							
Major Market	Dudhnoi	9 km							

Table 10: Water Resources Facility:

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

Water Source	Number	Water Availability	Uses
Water Harvesting Structure	NA		
Tube Well	NA		
Stream	NA		
River	1 (Sibonga) not in use		
Katcha ring well	35	Not adequate, water has iron.	Drinking

Table 11: Energy consumption:

Table11 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	82	12	Forest, own campus	Major
Kerosene stove	10(for the purpose of lightening)		Market	Secondary
Gobar/Bio gas	NA			
LPG	12	6	Authorised agency	Secondary
Electric Healer	NA			

Additional table: Education Profile

Categories	% of total population
Illiterate	25
Up to ME	51
X pass	7
12 pass	1
Graduate	2
Infant	16

RECORD: II

LIVELIHOOD OPPORTUNITY ANALYSIS

Table 12: Agriculture and Horticulture:

Table 12: showing the agricultural and horticultural status

Constraints	Reason	Opportunities	Programme
Low Production	 Traditional way of cultivation. Only one crop undertaken annually (Sali) Very negligible use of fertilizers and pesticides, insecticides. Lack of irrigation facilities. Lack of agricultural infrastructure, modern tools and equipment's viz, power tillers, tractors etc. Non usages of high yielding seeds. 	 Application of proper and controlled pesticides and insecticides. Introduction of new and advance technology. Well-structured training programme. 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 programme. 	 Tractor operation training Agri-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. 	PackagingTransportation and distribution.
Marketing	 Lack of transporting facilities for carrying products Less contact with the direct market; much dependency upon middle man No knowledge on marketing know-how, dependence on traditional system of selling. 	 Smooth transportation facility will help the farmers to carry their products to the nearby markets. Generate highest 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, as the JFMC is located in Assam West Bengal border and Bhutan border is also not far from it. 	Buyers sellers meet

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 are 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. It will also help to aware the villagers and will encourage them for livestock rearing. 	
Production of milk	 Less availability of fodder No scientific knowledge on cattle rearing to increase the milk production. 	 Training on the milk production can enhance the skill of milk production. Availability of supplements like cattle "Milk Booster, Milk Plus" etc. can increase the production of milk in the area. 	
Milk market	 Less contact with the direct market for milk Unaware of the market demand of different milk made products. 	• A huge demanded market for milk is available as Goalpara head quarter and West Bengal state is too far from the JFMC.	

Table 13: NWFP

Table 14 NWFP

Constraints	Reasons	Opportunities	Programme
Less	Less availability of	Availability of fertile	• Plantation of fruit trees,
collection	NWFP	fallow land	Medicinal Plant etc.
Unsustainable	• NA	Availability of fertile	•
extraction		fallow land	
Low rates	• NA		
Value	No processing units		
addition	Non availability of		
	required resources		
	No technical know-how		

Table 15: Specialised skill

Table 15: Specialised skills: Handloom

Constraints	Reasons	Opportunities	Programme
Raw material availability	 Non-Availability of Raw Materials within reachable location (market 7km away) No Storage 	Common place for setting a raw material storage	Setting up a raw material bank
Product quality	 Shortage of High Quality Materials Use of Traditional machineries 	Developing Quality Products for new market exploration.	 Training on Modern Tools and Equipment. Providing modern technology to the villagers
Marketing potential	 No standardised market No pricing policy No linkage with the institutional buyers No Product Diversification or New Product Development. 	Exploring new markets with diversified products	Providing a bulk buy arrangement of the finished product with institutional buyers.
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. 	Microfinance, Term Loans, Working Capital Arrangement
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.	Skill Upgradation & Training on New Product Development and Product Diversification

Table 16: Credit facility

Table 16 Credit facility

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

The second	51				
DY	SKILL	DEVELOPMENT	PROGRAMME	PARTICIPANTS	LIST

Rang	Pathar

Division	JFMC/EDC	Skill (trade)	Sl. No.	Participant	Guardian/ Father Name	Address	Quali ficati on	Ag e	Gende r	Categ ory	Contact No	Signature
	Pig	1	Stille polin Mayak	Hornin	VIII Rongfashare	Class	hr.	M.	9.7.	.813490 6749.	Nepolio	
rake		falso,	2	Ssi Wilston Sangmu	KORAK,	Po-Bushner, Diss-Galpanh	classic	24°	Μ,	51.	9531287 828 ·	wilston sangar
Galpune		do.	3	StiBakedur Manak,	shi Kamesh Sangmu	(Assom)	chest	Ky,	M	51.	99546 00974	Badus
	f.m.c.	r	4	MARAK MARAK	dencoln Momin,	-do·	A South	N. W.	fr	ST		Norutha Marab
\$015111Q	Jet.		5	Mrs Megethins Momins	pradip Dainary	-do-	Hotel	d'as	F	51	91911244 2478	Mezilhir H
A. (T)	garopana		6	MRs Renila Sayma	At Wetsing Hornin.				f.	57.		Renila Sangma
0,			7	HAS Ismila Marok.	Si feosge Avargs,	=d0 -		55	f	ş٢.	ķ.	Jernila Marak
90,	Kanyparthers		8	Mrs Nasjila Lomin	Enbara Blo M	, -do -	elestin	SS P	f	51.		Nagila
	Ray		9	Mrs. Tarisha Marah	hilson Harak	-do-	1.	198h	1	sh'	4035	Jenish Naroh
			10	Lebitha	deonat	-do-	hist.	625°	F	\$5.	8011H1	beloitha Sound

Proclem per the Member Secretary

Rangapathar Garapara Forest

Protection & Reyn Committee of M. G.

Protection & Reyn Committee of M. G.

Protection & Reyn Committee of M. G.

Signature of Divisional Forest Officer.



SKILL DEVELOPMENT PROGRAMME PARTICIPANTS LIST

Forest Division	JFMC/EDC	Skill (trade)	Sl. No.	Participant	Guardian/ Father Name	Address	Quali ficati on	Ag e	Gende r	Categ	Contact No	Signature
		Pag	11	Resmilla Momén	Hapison Sanzma	olo.	e lass	43 yns'	F	st'	0,577	Resmilla Manin
	,	falm.	12	Režina Sangma	Bringhil Marah.	clo	class	25	f.	ς λ'	Hill.	Rejine Sargne
	34 MC		13	Nutblan Sangma'	Lit Ambar Marak	do.	elass (71)	26 yns:	F.	st.	Hill.	Mutan Govngma
Ross			14	Marthalis Marak	Lt' Minet Marak	olo.	Nill		F.	gt'	Niw	Harthelis Marak
goulouser (T) Division	g Parther Garagemen		15	Monitha Sangma	Binot Sangma	do.	dass (1111)	27 year	F	Sť	Nill	Monita Sangre
rowa G	grant		16	Rasallin Sangma	Dianson Sangma	do	cluss VI	45	F	9.7.	98595 68556	Roballin Sangma.
Space	Karl		17	Probath	Lt. gebon Marah	alo	class	02	М	ST	813596 7631.	Probath
			18	Sengbath Sangma	Probath	do	class	30	M	57	957785 9213	Sengbath Sangma.
			19	Dimeliusa Momin	Rajis	-do-	CLINES X	91	F	ST	76360Z 3038	Domin
			20	Solbali Marak	babul sangma	do	cens	21	F	57		Souloali Manah

Protection & Rezn. Committee J.F.M.C.

Signature of Divisional Forest Officer.



SKILL DEVELOPMENT PROGRAMME PARTICIPANTS LIST

Forest Division	JFMC/EDC	Skill (trade)	Sl. No.	Participant	Guardian/ Father Name	Address	Quali ficati on	Ag e	Gende r	Categ ory	Contact No	Signature
	Pig	21	Si Rusbel Sousigne	Solbenon Sargra	Rongpothe Ps. Amforga		27	M	S.T.	957755	Rushell Sangma	
		fazm'	22	Skallend	Romo mo ni Savgne	- DO -	Block	35	M	S.T.	98560 22ts	S Kalleo Arae
	e		23	Minural Sangme	i Silsang Momin	-20 -	00000	40	F	आं.		Hamital Sanfore
rissos	'Div		24	Are org	Lengue	-20-	Cless P	33	PÑ	\$J.		Jeliss
F 23	2 %		25	Sarmila	Kenodi Merok	-Dr -	closs	32	F	\$7.		Sarmila
soulpoura (T) division	Porten		26	Mires	Rometh	-P4-	lle?	27	Μ	S.ĵ.	88110 65983	Antuh Untuh
Soule	Res		27	Chowlet Murch	Polling Surgoe	DI-	Sill Sill	45	F	55.		Cho mesil
			28	Chronig Momin	Lt. Semso	n 21-	cles:	41	M	ST.	37528	Many
			29	Cho ntery Sargne	Asmir	A0-	Cass Vj	43	M	5.7.		Sarfre
			30	Gradina	Eaxton Soughe	-Ro-	Class	52	THE PARTY OF THE P	87.	98547	lygidina

President

Rangapathar Garapara Forest

Protection & Rezn Committee J F M C

Protection & Rezn Committee J F M C

Protection & Rezn Committee J F M C

Signature of Pivistonal Forest Officer. Goaldara Diversion