ASSAM PROJECT ON FOREST & BIODIVERSITY CONSERVATION

AGENCE FRANÇAISE DE DÉVELOPPEMENT

Singlo Joint Forest Management Committee

Abhoypur Reserve Forest

Sivasagar Division, Sivasagar

MICRO-PLAN

(2016-17 to 2025-26)

Prepared by Singlo JFMC

Assisted by

Assam Forest Department

&

COMPELO

(IIE, RGVN and CML)

RGVN Reaching the Unreached

July 2016

Approved

Divisional Forest Officer,
Sivasagar Division, Sivasagar

List of Acronyms

Acronym	Full Form
ACF	Assistant Conservator of Forests
AfD	Agence France de Développement
APFBC	Assam Project on Forest & Biodiversity Conservation
APL	Above Poverty Line
BPL	Below Poverty Line
CCF	Chief Conservator of Forests
CF	Conservator of Forests
CML	Centre for Microfinance and Livelihood
COMPELO	Consulting Service for Micro Planning Enhancing Livelihood Opportunities
DCF	Deputy Conservator of Forests
DFO	Divisional Forest Officer
EDC	Eco-Development Committee
EPA	Entry Point Activity
FCA	Forest (conservation) Act, 1981
FD	Forest Department
FRA	Forest Rights' Act
FV	Forest Village

FYP	Five Year Plan
GHG	Green House Gases
GoI	Government of India
GP	GaonPanchayat
Ha	Hectare
IEC	Information Education & Communication
IIE	Indian Institute of Entrepreneurship
JFMC	Joint Forest Management Committee
MDR	Major District Roads
MGNREGS	Mahatma Gandhi National Rural Employment Guarantee Scheme
MoEFCC	Ministry of Environment, Forests & Climate Change
NTFP	Non Timber Forest Produce
OBC	Other Backward Classes
ODR	Other District Roads
PCCF	Principal Chief Conservator of Forests
PHC	Primary Health Center
PMU	Project Monitoring Unit
PRA	Participatory Rural Appraisal
REDD+	Reducing Emission from Deforestation and Forest Degradation Plus
RGVN	RashtriyaGraminVikasNidhi
RO	Range Officer
Sc	Scheduled Caste

SDG	Sustainable Development Goals
SLF	Sustainable Livelihood Framework
Spp	Species
ST	Scheduled Tribe
SWOT	Strength Weakness Opportunity & Threat
TV	Taungya Village
TV	Television
WLS	Wildlife Sanctuary
WPA	Wildlife (Protection) Act, 1972
WPC	Working Plan Circle

Glossary of Vernacular Name of Trees, Shrubs, Herbs, Other Plants

1. Trees

S.No.	Vernacular Name	Scientific Name
1.	Ajhar	*Lagerstroemia speciosa*
2.	Am	*Mangifera indica*
3.	Amari	*(Amoora wallichii) Aglaia hiernii*
4.	Amol	*(Myristica Kingii) Horsfieldia kingii*
5.	Amora	*Spondius pinnata*
6.	Amsia	*Drimycarpus racemosus*
7.	Badam	*Mansonia dipikae*
8.	Baji Ou	*Dillenia scabrella*
9.	Bandardima	*Dysoxylum binectariferum & Chisoketon paniculatus*
10.	Barhamthuri	*(Talauma hodgsonii) Magnolia hodgsonii*
11.	Barun	*Craeteva nurvala*
12.	Bhatghila	*Oroxylum indicum*
13.	Bhe	*Salix tetrasperma*
14.	Bhelkor	*Trewia nudiflora*
15.	Bhelu	*Tetrameles nudiflora*
16.	Bhomlati	*Symplocos spicata*
17.	Bhomora, Bahera	*Terminalia belerica*
18.	Bogijam	*Eugenia jambos*
19.	Bogipoma	*Chikrassia tabularis (Syn:-C.velutina)*
20.	Brajanali	*(Zanthoxylum budrunga) Zanthoxylum rhetsa*
21.	Bola	*Morus laevigata*
22.	Bon-am	*Mangifera sylvatica*
23.	Bon-bagari	*Zizyphus rugosas*

24.	Bon-hualu	*(Cryptocarya andersonii) Alseodaphne andersonii*
25.	Bon-jolokia	*Cryptocarya amygdalina*
26.	Bon-pitha	*Donella roxburghii (Syn:-Chrysophyllum roxburghii)*
27.	Bor-pat	*Ailanthus grandis*
28.	Bor-thekera	*Garcinia pedunculata*
29.	Bual	*Cordia dichotoma*
30.	Chalmugra	*Hydnocarpus kurzii*
31.	Dalchini	*Cinnamomum zeylanicum*
32.	Dewacham	*Artocarpus lakoocha*
33.	Dhuna, Dhup	*Canarium bengalense & C. resiniferum*
34.	Dimoru	*Ficus hispida*
35.	Galranga	*Elaeocarpus rugosus*
36.	Gendhelipoma	*(Dysoxylum hamiltonii) Dysoxylum alliarium*
37.	Gohora	*Premna bengalensis*
38.	Gaharisopa	*Magnolia griffithii & M. pealiana*
39.	Gomari	*Gmelina arborea*
40.	Gonsorai	*Cinnamomum glaucescens (Syn:-C. cecicodaphne)*
41.	Garumora	*Crypteronia paniculata & Glochidion oblatum*
42.	Ghogra, Makarisal, Naga-bhe	*Schima wallichii*
43.	Haludsopa	*Adina obligocephala*
44.	Haludsaki	*Endosperum chinense*
45.	Hatipoila	*Pterospermum acerifolium*
46.	Hengunia	*Meliosma pinnata*
47.	Hingori	*Castanopsis indica*
48.	Hilikha	*Terminalia chebula & T. Citrina*
49.	Holock	*Terminalia myriocarpa*
50.	Holong	*(Dipterocarpus macrocarpus) Dipterocarpus retusus*

51.	Jalpai	*Elaeocarpus floribundus*
52.	Jamuk	*Syzygium cumini (Syn:-Eugenia jambolana)*
53.	Jawa, Jhawa	*Holigarna longifolia*
54.	Jaglo, Morolia	*Macaranga denticulata*
55.	Jia	*Lannea grandis*
56.	Jinari, Kathbhaluka	*Podocarpus neriifolia*
57.	Joba-hingari	*Sloanea assamica (Syn:-Echinocarpus assamica)*
58.	Jutuli	*Altingia excelsa*
59.	Kadam, Raghu	*Anthocephalus indicus*
60.	Karipan, Kharipati Dimoru	*Ficus nervosa*
61.	Kathal	*Artocarpus integrifolius*
62.	Kathalsopa	*Michelia manii*
63.	Khokan	*Duabanga grandiflora (Syn:- D.Sonneratioides)*
64.	Khorikadewa	*Artocarpus gomezianus*
65.	Khorika sopa	*(Talauma phellocarpa) Magnolia baillonii*
66.	Koliori	*Mitrephora tomentosa*
67.	Borkoliori	*Polyalthia simiarum*
68.	Koroi	*Albizzia procera*
69.	Kuhir	*Bridelia retusa*
70.	Kurial, Kanchan	*Bauhinia purpurea*
71.	Leluk	*Beilschmiedia brandisii*
72.	Lamtem	*Gynocardia odorata*
73.	Leteku	*(Baccaurea sapida) Baccaurea ramiflora*
74.	Lewa	*Engelhardtia spicata*
75.	Maskoita	*Callicarpa arborea & C. macrophylla*
76.	Madar	*Erythrina stricta*
77.	Maiphak	*Evodia meliaefolia*

78.	Mekai	*Shorea assamica*
79.	Medelua, Mouhita	*Dalbergia assamica*
80.	Mekahi	*Phoebe cooperiana*
81.	Moj	*(Albizzia lucida) Albizia lucidior*
82.	Morhal	*Vatica lanceaefolia*
83.	Morolia	*(Mallotus albus) Mallotus ferrugineus*
84.	Motanahar	*Pterospermum lanceaefolium*
85.	Naga Dalchini, Patihunda	*(Cinnamomum obtusifolium) Cinnamomum bejolghota*
86.	Naga udal, Hirikh	*Sterculia guttata*
87.	Nahor	*Mesua ferrea*
88.	Odal	*Sterculia villosa*
89.	Outenga	*Dillenia indica*
90.	Oxi	*Dillenia pentagyna*
91.	Pahari	*(Sterculia alata) Pterygota alata*
92.	Panikadam, Bhurkhundi	*Hymenodictyon excelsum*
93.	Pan sopa	*Michelia Montana*
94.	Paroli	*Stereospermum chelonoides*
95.	Phakdima, Phulgamari	*Trema orientalis*
96.	Phulkata	*Styrax serrulatum*
97.	Phulsopa	*Manglietia insignis*
98.	Pichola	*Kydia calycina*
99.	Poma	*Toona ciliata (Syb:- Cedrela toona)*
100.	Ramanbih	*(Aesculus punduana) Aesculus assamica*
101.	Rudraksha	*(Elaeocarpus granitrus) Elaeocarpus sphaericus*
102.	Sam	*(Artocarpus chaplasa) Artocarpus chama*
103.	Satiana	*Alstonia scholaris*
104.	Seleng	*Sepium baccatum*

105.	Simul	*Salmalia malabarica*
106.	Sirish	*Albizia lebbek*
107.	Sissoo	*Dalbergia sissoo*
108.	Sopa	*(Michelia manipurensis) Michelia doltsopa*
109.	Tepor	*Garcinia xanthochymus*
110.	Thekera	*Garcinia sp*
111.	Tezpat	*Cinnamomum tamala*
112.	Thutmala	*Garuga pinnata*
113.	Titasopa	*Michelia champaca*
114.	Udal	*Sterculia villosa*
115.	Uriam	*Bischofia Javanica*

2. Shrubs, Herbs Etc.

S.No.	Vernacular Name	Scientific Name
1.	Bahaka	*(Adhatoda vasica) Justicia adhatoda*
2.	Betibah	*Bambusa mastersii*
3.	Bhang	*Cannabis sativa*
4.	Bhekuri	*Solanum indicum*
5.	Bogitara	*(Alpinia allughas) Alpinia nigra*
6.	Bajal bah	*Pseudostachyum polymorphun*
7.	Bon-madhuriam	*Pyrenaria barringtoniaefolia*
8.	Bon-pasala	*Sarauja roxburghil*
9.	Bor-manmami	*Centella asiatica (Syn:- Hydrocotyle asiatica)*
10.	Daridiga, Bon-medelua	*Cassia tora*
11.	Dhoptita	*Clerodendron infortunatum*
12.	Dighloti	*Litsaea salicifolia*
13.	Ekra, bata	*Sclerostachya fusca (Syn:- Saccharum fuscam)*

14.	Eragoch	*Ricinus communis*
15.	Gereguatomol, Ramtamol	*Pinanga gracilis*
16.	Haru manmani	*Hydrocotyle rotundifolia*
17.	Hauka bet	*Zalacca secunda*
18.	Heloch	*Antidesma ghaesembilla*
19.	Jarmoni bon	*Eupatorium odoratum*
20.	Jati bah	*Bambusa tulda*
21.	Jati bet, Rangi bet	*Calamus tenuis*
22.	Jengu, Japipat	*Licuala peltata*
23.	Lejai bet	*Calamus floribundus*
24.	Kakobah	*Dendrocalamus hamiltonii*
25.	Kasidoria, Kachidria	*Myrsine capitellata*
26.	Kathandaphul	*Coffea bengalnsis & Tabernaemontana divaricata*
27.	Kawpat	*(Phrynium parviflorum) Phrynium placentarium*
28.	Kush	*Saccharum spontaneum*
29.	Makhioti	*Moghania strobilifera (Syn:-Flemingia strobilifera)*
30.	Meghela	*(Narenga porphyrocoma) Saccharum narenga*
31.	Nal	*Phragmites karka & Arundo donax*
32.	Patidoi	*Schumannianthus dichotomus*
33.	Phukuta	*Melastoma malabathricum*
34.	Sorat	*Laportea crenulata*
35.	Titaphul	*Phlogacanthus thyrsiflorius*
36.	Tokopat	*Livistonia jenkinsiana*
37.	Wakthoi, Makal bak	*Bambusa pallidia*

3. Climbers

S.No.	Vernacular Name	Botanical Name
1.	Chonga lata	*Thunbergia coccinea*
2.	Datbijla, Datbijli	*Dalbergia stipulacea*
3.	Dhindau-bagori lota	*(Tapiria hirsute) Pegia nitida*
4.	Ghilla, Barghilla/ Ghila-lewa	*Entada phaseoloides (Syn:- E.scandens)*
5.	Gowalia lata	*Vitis latifolia (Syn:- Ampelocissus latifolia)*
6.	Kukua loti	*Thunbergia grandiflora*
7.	Mikania, Manikilata	*Mikania micrantha*
8.	Nak-kati-lewa	*Bauhinia vahlii*

SINGLO JOINT FOREST MANAGEMENT COMMITTEE

SIVASAGAR FOREST DIVISION, EASTERN ASSAM CIRCLE

Micro-Plan

(2016-17 to 2026-27)

Table of Contents

Section No	Heading	Page No
	PART-I	
1	Introduction	6
2	General Description of the Area	7
3	Village Socio-Economic Profile& JFMC Profile	10
4	Livelihood Asset Profiles and Vulnerability Context	21
5	Existing Plans and Programs	23
	PART-II	
6	Microplan Objectives, SWOT and GAP analysis	33
7	Village Development Plan	38
8	Livelihood Development Plan	39
9	Forest Development Plan	43
10	Implementation Strategies, Timelines and Budget	57
	PART-III	
	Tables, Maps and Appendices	

Divisional Forest Officer,
Sivasagar Division, Sivasagar

SINGLO JOINT FOREST MANAGEMENT COMMITTEE
SIVASAGAR FOREST DIVISION, EASTERN ASSAM CIRCLE

Micro-Plan
(2016-17 to 2026-27)

PART-I

1. Introduction

1.1About 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 Biodivddddsersity Conservation Society (APFBC Society) has the mandate for planning, implementation, monitoring, coordination and management of all the activities under the above mentioned project.

1.2 Micro-Planning & Livelihood Development

In order to promote livelihood activities through market potential based value addition; the present project intends to take up activities like entrepreneurship promotion, product processing value addition and marketing under this project. This has become necessary on account of the pressures on existing forest resources due to the growth of population. There is a need to explore value addition to the existing forest and biodiversity products and services, based on the market potential. In addition, non-forest based livelihoods need to be explored and the capacities of the community members need to be built-up through skills development initiatives.

A consortium comprising of Indian Institute of Entrepreneurship (IIE) Guwahati, *RashtriyaGraminVikasNidhi* (RGVN) and Centre for Microfinance and Livelihood (CML) has been formed to implement (*inter*-alia) the micro-planning and livelihood development under the above project. The above consortium has been titled as 'Consulting Service for Micro Planning 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.

1.3 Micro-plan for Singlo JFMC

This document gives the Micro-Plan for the Singlo JFMC, which is located in the Sivasagar district of Assam. The JFMC falls under the jurisdiction of the Sivasagar Forest Division. The profile of the community is given in the next section.

2. General Description of the Area

2.1 General Description:

The Reserved Forest of Sivasagar Forest division, situated within 26°.50′ and 27°.10′ North latitude and 94°.50′ and 95°.30′ east latitude. The Division is within the civil jurisdiction of Sivasagar and Choraideu District. The Reserved Forest are located in the Sivsagar Forest Division, namely Abhoyapur, Dilli, Deroi, sapekhati, Sola, Panidihing and Geleki Reserved Forest. The total area covered by all this above Reserved is 24,086.292 ha. Among the Reserved Forest, as stated above, the Abhoyapur, Dilli and Geleki Forest lie on the foot hills of the Naga and Arunachal Hills tract. The terrain is flat on the northern ends and gradually rising southwards.

The average terrain of Sivasagar Division is flat. It is gradually hilly towards the south of the Division. The panidihing Reserved Forest which is located near the Brahmaputra River is low lying but does not remain swampy due to occurrence of "Kurkani Soil"

Several rivers from south to north finding their ways in to the river Brahmaputra drain the tract of the division. The important rivers of the division are Desang, Dikhow, Dihing, Dilli and Jhanji. All these rivers are perennial and subjected to flood during rainy seasons. None of the small streams that flow into these rivers get dry, expect in their upper reaches.

Distribution and area: The total area of Reserved Forests under Sivasagar Division is about 24,086.292 ha. The following is the tabular statement showing the area of the Reserve Forests under different territorial ranges of the Division.

Name of the Range	**Name of the RF's**	**Area as per notification (in ha.)**	**Area as per Working plan survey(in ha)**	**Remarks**
1.Barhat	Dilli	3030.373	2976.80	
	Sapekhati	744.611	698.72	
	Total=	**3774.984**	**3675.52**	
2.Sonari	Sola	683.173	606.81	
	Abhoyapur	6732.660	6314.70	
	Deroi	4831.960	4832.13	
	Total=	**12247.793**	**11753.64**	
3.Sivasagar	Panidihing	2139.00	-	
	Geleki	5924.515	-	
	Total=	**8063.515**	-	
	Total area of the Divn.	**24086.292**	-	

2.2 Location

The Reserved Forest of Sivasagar Forest division, situated within 26°.50´ and 27°.10´ North latitude and 94°.50´ and 95°.30´ east latitude. The Division is within the civil jurisdiction of Sivasagar and Charaideu District. The Reserved Forest are located in the Sivsagar Forest Division, namely Abhoyapur, Dilli, Deroi, Sapekhati, Sola, Panidihing and Geleki Reserved Forest.The location map is given in **Appendix I** and **Appendix II** gives the approach map of the JFMC

2.3Soil

Most of the tract is of alluvial formation with a great depth of alluvium put down in comparatively recent geological times over what was originally a floor of gneiss. The Naga Hills form part of the Patkai range which rose due to earth movements and have been covered subsequently with deposited strata. It was this period, which has given rise to coal measures in Assam. There are some coal measures in Dilli Reserved Forests.

The soil laid down by the streams from North is comparatively younger than the soil brouth down by the smaller rivers from the south .The former is usually of sandy texture, poor and with subsoil that is sandier. The soil deposited from Naga Hills on the south is usually rich loam. The soil generally free from lime is acidic in reaction. Whereas the soil lay down by the river Brahmaputra is almost natural in character. Towards the south the texture of the soil is finer and the acidity and humus content of the soil increases appreciably.

2.4 Water Supply

There are numerous perennial water streams in all reserves of the Division at fairly frequent intervals. The general water table is not low and wells are easily sunk.

2.5 Climate

The division falls in high humidity zone. The monsoon season starts from May to September During this period the general climate becomes muggy. The hottest month of the year is June and July, when the temperature goes up to 34.32° C and Minimum temperature comes down to 8.61° C in the month of January. The pre-monsoon showers are preceded by storm often of a violent. The winter months are comparatively cool and dry. The nights are cold and heavy mist is common during this period. Frost is uncommon.

2.6 Ecosystem& Bio-Diversity

The local forests have been broadly classified as Evergreen forests. The main tree species are Seleng, Lali, Simoha, Mehekoni and Poma. The forests can yield a range of NTFP like spices, leafy vegetables, ferns, medicinal plants, bamboo, cane, thatch, fodder, broom stick etc.

Additional details in this regard are given at the 'Forest Development Plan'.

2.7 Right and Concessions

Right and concessions allowed to local population have been specified under Gazette Notification creating Reserved Forests, are recorded in the register of reserves. The majority of these consist of right of way through the reserves over existing roads and paths. Additional right and concession were granted by the Govt. to the people in respect of Dilli RF in 1924 as detailed below.

The following concession, revocable at the will of the Govt. are granted (1924)-

(a) Permission for the plain Nagas of Deopani,Nagagaon village to *Jhum* inside the reserve over an area limited to 150 acre on condition that they cut boundary lines to demarcate the *Jhuming*area and keep the Ladaigarh clear to the south of their village when required to do so .

(b) Rusa (KuianMutan) village is allowed unconditionally to collect bamboos and creepers in the reserve and to hunt (except with pit and share) and to fish within the line.

(c) Deopani, Nagagaon, Bahatiagaon, Tirakiagaon, Lepheragaon and Halogaon villages have been allowed to collect bamboos and fuel for home consumption free of royalty from the reserve on condition that they clear the Ladaigarh boundary every year.

2.8 Commitments

Commitment to extraction of coal and petroleum to the concerning authorities exists in parts in some of the reserves of the divisions-as shown below:

Deroi Reserved Forests	-Oil India.
Sola Reserved Forests	-Oil & Natural Gas Commission.
Geleki Reserved Forest	-Oil & Natural Gas Commission.

3. Village Socio-Economic Profile and JFMC Profile

3.1 Key Information

The Singlo JFMC is under Sonari Range. It is a Forest village and is located in Sivasagar Division. The registration is under process This forest village is located in the Abhoypur R.F.

Table-A: Key Information of the JFMC

Name of the JFMC	New Singlo
Name of Revenue Village	Singlo
Name of the Gram Panchayat / VCDC	Pachim Abhaypur
Revenue Circle	Sonari
District	Charaideo (Sivasagar)
Forest Division	Sivasagar
Forest Range	Nophuk, Sonari
Forest Beat	Singlo Beat Office
Year Formed	2015
Registration No.	JFMC-1/SIV/EAC/2016 (Applied for new registration)
Description of Boundary of JFMC	As below North: Suffry River South:Abhoypur R.F West: Suffry River East: 7 No. Singlo Village
JFMC Bank Account No.	2038050000596
Name of Bank	U.B.I (Sonari Branch)

Source: JFMC Records & Discussions during PRA Exercise in June 2016

3.2 Brief Details of the Executive Committee

The brief details of Executive Committee & General Body of the JFMC are contained in the table, which is given below.(**Appendix IV**- Signed list, **APPENDIX V-** Group photo of the JFMC members)

Table-B: Brief Details of Executive Committee

Name	**Age**	**Fathers Name**	**Address**	**Educational qualification**	**Designation**
Sri Monikanta Sonowal	33	Sri Mukheswar Sonowal	Vil; SinglooPathar, PO- Matharupur, Dist- Sivasagar Pin- 785689	9th Pass	President
Bijoy Borgohain	38	Lt. Amit Borgohain	Vil; Balighat PO- Simoluguri, Dist- Sivasagar Pin- 785686	B.A Pass	Secretary
Sri Topan Sonowal	40	Sri Ghana Sonowal	Vil; SinglooPathar, PO- Matharupur, Dist- Sivasagar Pin- 785689	9th Pass	Treasurer
Hira Sonowal	38	Lukeswar Hatimurra	Vil; SinglooPathar, PO- Matharupur, Dist- Sivasagar Pin- 785689	9th Pass	Member
Tarun Sonowal	37	Bhulanath Sonowal	Vil; SinglooPathar, PO- Matharupur, Dist- Sivasagar Pin- 785689	9th Pass	Member
Mamu Sonowal	33	NareswarSonowal	Vil; SinglooPathar, PO- Matharupur, Dist- Sivasagar Pin- 785689	HSLC Pass	Member
Lokhidhor Sonowal	33	Lt. Hada Sonowal	Vil; SinglooPathar, PO- Matharupur, Dist- Sivasagar Pin- 785689	6th Pass	Member
Pinku Sonowal	48	Kula Sonowal	Vil; SinglooPathar, PO- Matharupur, Dist- Sivasagar	4th Pass	Member

			Pin- 785689		
Narayan Sonowal	38	Lt. Tilewar Sonowal	Vil; SinglooPathar, PO- Matharupur, Dist- Sivasagar Pin- 785689	8th Pass	Member
Jatin Sonowal	38	Lt. Harakanta Sonowal	Vil; SinglooPathar, PO- Matharupur, Dist- Sivasagar Pin- 785689	H.S Pass	Member
Bokul Sonowal	37	Lt. Lanu Sonowal	Vil; SinglooPathar, PO- Matharupur, Dist- Sivasagar Pin- 785689	HSLC Pass	Member
Padmeswar Sonowal	49	Lt. Hileswar Sonowal	Vil; SinglooPathar, PO- Matharupur, Dist- Sivasagar Pin- 785689	9th Pass	Member
Kunjalota Sonowal	31	Munin Sonowal	Vil; SinglooPathar, PO- Matharupur, Dist- Sivasagar Pin- 785689	HSLC Pass	Member
Tulon Sonowal	32	Kukhol Sonowal	Vil; SinglooPathar, PO- Matharupur, Dist- Sivasagar Pin- 785689	Illiterate	Member

Source: JFMC Records

3.3 Households & Population Composition

The village has 210 households, of which 183 households are BPL (Below Poverty Line) households

Table-C: Demographic Profile

Demography				
Category	No of Households	Male	Female	Total
Gen	0	0	0	0
OBC	117	300	237	537
ST	92	257	235	492
SC	1	1	5	6
Min	0	0	0	0
Other	0	0	0	0
Total	210	558	477	1035

The total population is 1035, of which 558 are male and the rest are female members. The population includes 6 SC, 492 ST and 537 OBC persons.

From this, it is inferred that:

(1) The average number of persons in a household is 5.

(2) The sex ratio is 85 females per 100 males in the village.

Table-D: Age Group Distribution

Age and Sex Distribution					
Age Class	**< 5 years**	**5-18 years**	**18-45 years**	**45-60 years**	**>60 years**
Male	24	95	180	140	56
Female	29	104	143	140	124
Total	53	199	323	280	180

3.4 Education & Skills Development

The education profile of the JFMC is given in Table E below.

Table-E : Education Profile

Education Profile								
Age class	**KG/ Nurs.**	**Up to IV**	**V-VII**	**VIII-IX**	**X-XII**	**Graduate**	**Masters**	**Illiterate**
<25 years	30	261	160	120	54	0	0	40
>25 years	80	0	0	0	90	0	0	190
Total	120	261	160	120	144	0	0	230

Over 77.78% of the population is reported to be literate. Most of the community members have received school level education. On the other hand, relatively fewer 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)Weaving

(b)Cane and Bamboo craft

(c)Metal Craft

(d)Carpentry

Government has been active in promoting formal skills development programmes in the country as well as in the state. However, no such programme has been carried out in the habitation or in nearby areas.

3.5 Land Use Pattern

The population is largely dependent on Agriculture and Livestock.

From the land-use pattern of the village, it is seen that the land-use in the village is as follows:

Crop Land: 40 %

Tree Cover: 10 %

Habitation: 15%

Water Bodies: 10 % (incl. water logged areas)

Barren Land: 10 %

Other: 15%.

3.6 Land Holding Pattern

From the type of households as per land-holding, it is seen that:

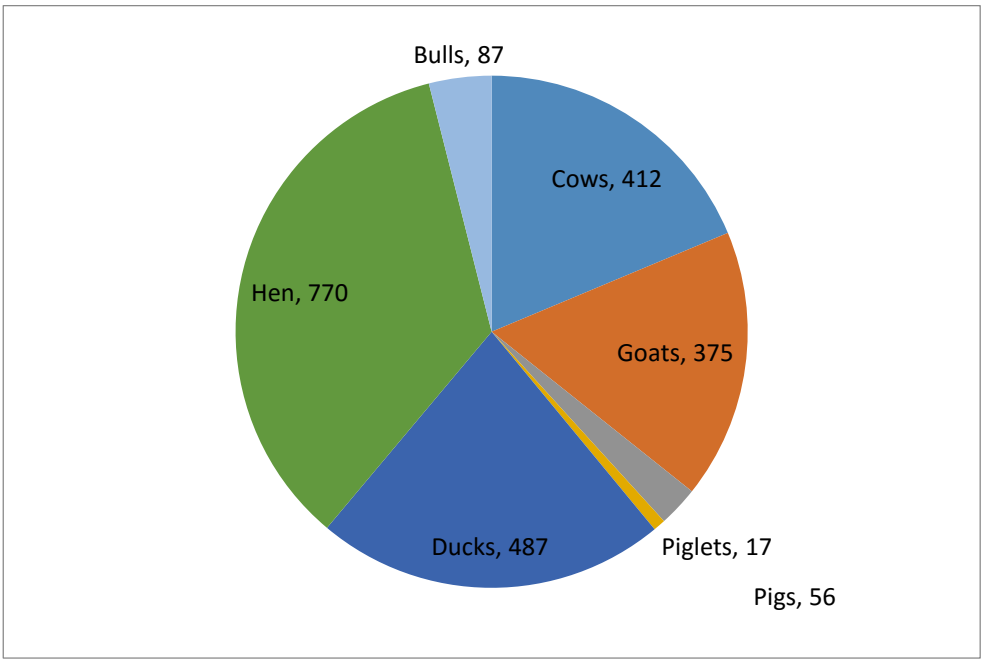
- 2 % of the households are landless;
- 63 % of the households are marginal farmers (less than 2 Ha); and
- 35 % of the households are small farmers (2-10 Ha).

3.7 Livestock

The total number of livestock in the village is 2204. The main types of livestock possessed by the households include:

Table-: Livestock Details

Livestock Profile		
Sl.No	**Species**	**Quantity**
1	**Cows**	412
2	**Goats**	375
3	**Pigs**	56
4	**Piglets**	17
5	**Ducks**	487
6	**Hen**	770
7	**Bulls**	87



3.8 Village Infrastructure & Communication Facilities

In any community; the availability of basic infrastructure enables the development of sustainable livelihood options. The present condition of infrastructure in the village is not satisfactory. This gives the present status of the village infrastructure.

Table-F: Physical Infrastructure

S.No	Point Infrastructure	Location inside village or Outside	Number (If applicable)	Approximate Distance from Village, if outside (m/Km)	Condition and status of present use
1	Bus stand	Mathurapur	1	4 km	Good
2	Primary Health Centre	Singlopathar	1	200 m	Not good
3	Primary School	Do	1	0 km	Not good
4	Middle School	Do	1	200 m	Not good
5	High School	Mathurapur	1	4 km	Good
6	HS School	Do	1	4 km	Good
7	College	Sonari	1	13 km	Good
8	Post Office	Mathurapur	1	4 km	Good
9	Bank	Mathurapur	1	4 km	Good
10	Telephone	Inside			
11	Anganwadi Centre	Singlopathar			Not good
12	Gram Panchayat Office	P. Abhaypur	1	8 km	Good
13	Revenue Circle Office	Sonari	1	13 km	Good
14	Police Outpost/ Thana	Abhaypur	1	8 km	Good
15	Forest Beat Office	S. pathar	1	0 km	Good
16	Forest Range Office	Nophuk	1	11 km	Good

17	Railway Station	Outside	1	10 km	Good
18	Drinking Water Sources	S. pathar	1	0 km	Not good
19	Community Hall	Inside	1		Good
20	House with Electricity	Inside			Good
21	Street Lighting	Nil			
22	No. of Tractors	Singloo pathar	1	0 km	Good
23	No. of Power Tillers	Singloo Pathar	4	0 km	Good
24	Temple/ Church/ Mosque/ Namghar	Singlo Pathar	02		Good
25	District Head Quarter	Sivasagar	1	45 km	Good
26	No. of Vehicles (Cars/ Trucks)	Inside	Car- 3 Bike- 69 Mini truck- 4		Good
27	Nearest Market	Mathurapur	1	4 km	Good

From the above table, the following have been noted with regard to village infrastructure:

Physical Infrastructure: The habitation is deprived of basic physical infrastructure like paved roads, electricity, water supply, mobile network etc.

Education & Health Facilities: There are minimal educational and health facilities. Public transport is not available, and the community members have to use bicycles to move around.

Govt. Offices: The government offices (such as Police station, Gram Panchayat office, Revenue office, Forest Beat office etc.) are located at a considerable distance, which gets amplified 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 SBI located at Mathurapur and post office is located at a considerable distance from the habitation.

3.9 Agriculture/Crops

The above shows that the following are the main crops grown in the village.

Kharif Crops: Paddy

Rabi Crops: Mustard, Brinjal and Cauliflower

Others: Betel nut and Coconut

The maximum numbers of households are involved in growing crops like Paddy and Vegetables.

The production and yield of these crops is given as follows:

(a) Paddy: Production 696 quintal. Yield 12q/ha

(b) Vegetables: Production 1500 Quintal. Yield 165q/ha

3.10 Fodder Availability

The village depends on the nearby forest. The main sources of the fodder in the village are as follows:

(a) Forest

(b) Homestead garden

(c) Local village area

3.11 Markets

The main markets used by the community are as follows:

(a) Grocery : Mathurapur at 4 km away (if in other village)

(b) Weekly Market: Mathurapur at 4 km away

(c) Major Market: Sonari at 12 km away

3.12 Water Resources

The main water resources with the water availability is as follows:

(a) Hand Pump (Water Availability: Perennial)

(b) Supply Water (Water Availability: Seasonal)

3.13 Energy Consumption

The major sources of energy in the village have been listed below.

(a) Fuel Wood Households Depending: 69 Nos. Source: Forest

(b) Kerosene Households Depending: 69 Nos. Source: Local Distributors

(c) Bio-Gas Households Depending: 03 Nos. Source: Household

3.14 Socio-economic status

Social Set-up: The village is inhabited by Ahom & Sonowal, Kachari community. The society is not marked by deep social divisions. The observed position of women is satisfactory.

Economic Condition: The economic position is not satisfactory. The main livelihoods are Agriculture and small Tea Garden. Most households earn Rs. 3000 to a minimum of Rs. 36000 per month.

There is about 2% migration of the youth and others for livelihoods. Additional details are available at the next section.

4. Livelihood assets profile and vulnerability contexts

This section deals with the livelihood assets and their current status in the village. The vulnerability context has also been analysed in the section

4.1 Livelihood Assets Analysis

As per the sustainable livelihood framework (SLF) there are five most important livelihood assets i.e. Human capital, financial capital, social capital, natural capital and physical capital that are needed for livelihood enhancement in a village. The status of the five capitals have been analysed and are given below:

Human Capital

Focusing on the human capital of the village, there is a literacy rate of 77.78%.The people belong to the community like Adivasi, Sonowal, Ahom etc. The people have traditional skills of weaving, cane and bamboo work. Some of them also have carpentry skills. The people have a positive attitude and are eager to take up new development programs in the JFMC and skill development programs.

Physical Capital

The gaps in physical capital was assessed from some of the common infrastructural elements such as presence and absence of schools, roads, post office, banks, PHC, Anganwadi centres, play grounds etc., and their nearness to the village and physical conditions. The village appears to have access to primary and middle schools within 1 and 3 km radius respectively. It also has access to Post Office, PHC, Bus Stand etc. within 200 m. There is a bank branch within 4 km of the village. The markets are located at a distance. The gap in terms of poor quality and low maintenance of the infrastructure could be enhanced by up gradation of the existing facilities like schools, PHC and roads.

Natural Capital

The JFMC falls under the Abhoypur R.F which is rich in forest and biodiversity. The soil is fertile and 40% of the land is under agriculture. The soil is such that, it is suitable for tea plantation. 10% of the land area of the JFMC has forest tree species. There are a few water bodies in the JFMC which are used for fishing. There is good bamboo growth and few people use bamboo to make implements and baskets which is an additional

source of livelihood.

Social Capital

The village is rich in social capital. The village has one youth club and five naamghors. It has one Anganwadi centre and one Gaon Burha. The village head man is Biren Sonowal. A well- known teacher in the village is Sri Chandra Kanta Sonowal.

Financial Capital

As far as the financial capital of the village is concerned, there is a SBI branch about 4km from the JFMC located at Mathurapur. Few women have organised themselves into SHGs, however they have no linkage with micro finance institutions. Most of the people in the JFMC have bank accounts.

4.4 Seasonality

The seasonality calendar of the crops grown and the vulnerability due to animal depredation was prepared through participatory approach. Boro paddy is cultivated from Jan – May and Rabi crop is cultivated from August to April. Small scale cultivation of tea is done throughout the year.

Seasonality Calender Of Singloo Pathar JFMC

<table>
<tr><td>Months</td><td>Jan</td><td>Feb</td><td>March</td><td>April</td><td>May</td><td>June</td><td>July</td><td>Aug</td><td>Sept</td><td>Oct</td><td>Nov</td><td>Dec</td></tr>
<tr><td rowspan="3">Crops</td><td colspan="5">Paddy(Boro)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td colspan="4">Rabi crops</td><td></td><td></td><td></td><td colspan="5">Rabi crops</td></tr>
<tr><td colspan="12">Tea</td></tr>
<tr><td>Hazard (Animal Depredation)</td><td colspan="12">Elephant, Leopard</td></tr>
</table>

5. Existing Plans and Programs

This Chapter deals with certain essential linkages with other key planning and execution mechanisms and processes which have direct bearing upon microplanning. The topmost among these is the Working Plans which provide an overall umbrella for sustainable development and forestry and wildlife conservation in forest areas of the State. In wildlife areas, these plans are known as Management Plan, and in Tiger Reserves, as Tiger Conservation Plans. In addition, there are several plan scheme components such as the Tribal Sub Plan (TSP), and Scheduled Caste Component Plan (SCP) which also get implemented in forest villages through the Forest Department. There are several line departments providing health, education, power, irrigation and livelihood services. Often these departments also implement schemes in the forest villages.

After the promulgation of the Assam Joint (Peoples' Participation) Forestry Management Rules, 1998 in Assam, the joint forest management got initiated, and the JFMCs and EDC were constituted in 2002. Prior to this, some working plans had prescriptions for joint forest management or constituted JFM circles. However, the National Working Plan Code, 2014 gave the right impetus to the microplanning and has incorporated detailed guideliones to this effect. This Microplan is based on the 2014 National Working Plan Code.

5.1 Linkage with the Working Plan

The old Sibsagar division was bifurcated in 1968 to Kaziranga Wildlife division (now Eastern Assam Wildlife Division) on 09-07-1968. Thereafter, Golaghat division was separated from it on 04-07-1980, while the HQ of the division continued at Jorhat. Jorhat division was carved out in 1993, and the HQ was shifted to Sibsagar. The reserved forests of the Division are Dilli, Sapekhati, Sola, Abhoyapur, Panidihing (now a Bird sanctuary) and Geleki RF. The Division has a lot of drilling sites. The Sibsagar forests are a part of the Assam tropical evergreen forest type with extensive Hollong Nahor formations and miscellaneous forests. The main species are Hoolng, Mekai, Nahor, along with Sam, Sopa, Gondsoroi, Amari, Hollock, Ajhar and Uriam.

The latest Working Plan for the Division is by B. Brahma for the period 2001-02 to 2010-11. The Plan has prescribed three Working Circles namely Hollong-Mekai Plantation Working Circle, Miscellaneous Plantation Working Circle and Protection Working Circle.

Forest Village Management: The establishment and control of forest villages in RF are governed under the Rules for Establishment and Control of Forest Villages, Chapter-7 of the Assam Forest regulation, 1891. There are 21 forest villages in the division covering an area of 1712.55 Ha. The data from DFO Sibsagar shows that the number of households is more than the sanctioned strength of the forest villages. There are 21 forest villages. Of these, Singloo, in Abhyapur RF, has a sanctioned area of 124 Ha, sanctioned strength is 120 families, and the households at the time of Working Plan compilation were 167 with a population of 520. Similarly Singloo Taungya has a sanctioned area of 113 Ha, sanctioned strength of 110, and 132 families inhabiting with 680 population at the time of compilation of the Working Plan.

Protection Working Circle: The areas allotted in this Working Circle are mainly encroached areas, productive blanks, degraded areas, open areas having heavy grazing and biotic pressure from adjacent villages. All the areas of Deroi and Geleki RF and parts of Sola nd Sapekhati were allotted to this WC. The objective was to clear areas from encroachment. Two tier plantation were prescribed:-Upper tier with misc. plywood species and Lower tier with fuelwood species. Another objective was to involve the local communities in terms of the notification of the Govt. of Assam Dt. 10-11-1998 by Forest Protection and Regeneration Committees. For the upper tier rotation of 60 years was fixed, while for fuelwood species in lower tier 10 years rotation was fixed. The Dfo was required to constitute JFMCs. The firewood species spacing 2.5x2.5 m.

Other Prescriptions: Some of the miscellaneous prescriptions pertain to forest village management. The boundaries of the forest villages should be well demarcated on the ground to prevent encroachment.

5.2 Forest Department Initiatives in the past

5.2.1 National bamboo Mission (Sivsagar Forest Development Agency)

From 2006-2007 (2007-2008)

1. Details of Financial Aspects

Sl. No.	Letter No. & date	Amount released	Remarks
1.	REWP/NBM/FDA/Siv/06-07 dt.6-6-07	Rs.28,23,000.00	170Ha. + one nursery
2.	REWP/NBM/FDA/Siv/06-07 dt. 26-12-07 (utilized 2007-08, 2008-09, 2009-10)	Rs.17,10,000.00	Maintenance for 170 ha. for 2007-08, 2008-09, 2009-10 +one Demon. Plot.
3.	REWP/NBM/FDA/Siv/07-08 dt. 29-3-08	Rs.1,00,00.00	One workshop
4.	REWP/NBM/FDA/Siv/07-08 dt.22-2-08	Rs.10,00,000.00	For 80 ha= Rs.9,28,000.00 Rs. 12,000.00 Overhead= Rs. 60,000.00
5.	REWP/NBM/FDA/Siv/08-09 dt. 4-7-08	Rs.5,84,000.00	<u>80 ha related</u> 2nd maintenance: Rs. 3,67,000.00 Overhead : Rs. 20,800.00 3rd maintenance : Rs. 1,96,000.00
6.	REWP/NBM/FDA/Siv/08-09 dt. 4-7-08	Rs.12,50,000.00	New 100 ha : Rs.11,60,000.00 Part maintenance :Rs. 15,000.00 Overhead : Rs.75,000.00
7.	REWP/NBM/FDA/Siv/07-08 dt. 20-6-08	Rs.1,36,000.00	i. Training 50 farmers = Rs. 76,000.00 ii. Demonstration Plot = Rs. 60,000.00 (6nos.)
8.	REWP/NBM/FDA/Siv/08-09 dt. 10-12-08	Rs.9,96,000.00	i. Restocking: 100 ha :8 lakh ii. Training : 0.76 lakh iii. Workshop: 1.00 lakh iv. Demons. Plot : 2 nos. : 0.20 lakh
9.	REWP/NBM/FDA/Siv/08-09 dt. 29-5-09	Rs.4,16,000.00	Maintenance of 80 ha.
10.	NBM/FDA/Sivasagar/09-10 dt. 9-3-10	Rs.5,00,000.00	Maintenance of 100 ha.
11.	NBM/FDA/Sivasagar/08-09 dt. 22-9-09	Rs.7,50,000.00	Maintenance of 100 ha.
12.	BDA.1/NBM/FDA/Sivasagar/10-11 dt. 1-10-10	Rs.3,12,500.00	50 ha related Advance work (50% of total sanctioned amount release)
13.	NBM/FDA/Sivasagar/10-11 dt. 17-1-2011	Rs.12,88,500.00	1. Released 50% of the balance work against 50 ha. 2. Improvement of 100 ha. restocking 3. 50 nos. of farmers training 4. One district level workshop

Rs.1,18,66,000.00

2. Abstract of Achievement

i. Plantation:
- a) Artificial bamboo plantation: **350 ha.**
- b) Restocking : **100 ha.**
- c) Bamboo Plantation : **50 ha.**
- d) Restocking : **100 ha.**

600 ha.

ii. Demonstration Plot: 1+6+2= 9 nos.
iii. Training programme = 2+2= 4 nos.
iv. Workshop = 2+2=4 nos.
v. Nursery (0.25 ha.) = 1 no.

5.2.2 JFMC wise activities on N.B.M. during 2012-13 under Sivasagar FDA

Sl. No	Activities	Rate (per Ha)	Noganodi		Janeki Pathar		Dangori Kumar		Halua		Lakily		Admini -ative c	Contin -cy
			Area (in Ha)	Amount (in Rs.)	Area (in Ha)	Amount (In Rs.)	Area (in Ha)	Amount (In Rs.)	Area (in Ha)	Amount (In Rs.)	Area (in Ha)	Amount (In Rs.)		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1st Year														
1.	Survey, demarcation of land, pit digging	1026.0	20	20,520.00	20	20,520.00	10	10,260.00	40	41,040.00	10	10,260.00		
2.	Fencing of sensitive Places	3000.0		60,000.00		60,000.00		30,000.00		1,20,000.00		30,000.00		
3.	Procurement of 400 seedlings @ Rs. 7/-	2800.0		56,000.00		56,000.00		28,000.00		1,12,000.00		28,000.00		
4.	Plantation creation	1710.0		34,200.00		34,200.00		17,100.00		68,400.00		17,100.00		
5.	3 weeding @ 8mandays	2736.0		54,720.00		54,720.00		27,360.00		1,09,400.00		27,360.00		
6.	Fireline cutting etc.	570.0		11,400.00		11,400.00		5,700.00		22,800.00		5,700.00		
7.	Administrative charge 5%													
8.	Contingency Rs 33/- per Ha												62,500.	3,300.00
			20	2,36,840.	20	2,36,840.	10	1,18,420	40	4,73,680	10	1,18,420.0(	62,500.	3,300.0

Total= Rs. 12, 50,000.00

5.2.3 DETAILS OF FIRST 170 HA. PLANTATION

I. Approved total Project Cost: Rs. 45,23,000.00

1. 1st Release: Rs. 28,23,000.00 (REWP/NBM/FDA/ Siv/06-07 dt. 6-6-2007)
2. 2nd Release: Rs. 17,10,000.00 (REWP/NBM/FDA/ Siv/06-07 dt. 26-12-2007)

*including 1 Demonstration Plot @ Rs. 10,000.00

II. 45,23,000.00

Activity	Physical	Amount (Rs. in lakhs)	2007-08	2008-09	2009-10	2010-11
Bamboo Plantation	170 ha.	42.50	25.50	8.50	5.10	3.40
Nursery	0.25 ha.	2.73	2.73	-	-	-
		45.23	28.73	8.50	5.10	3.40

III. 28,23,000.00

i. Released during 2006-07; but revalidated in 2007-08
ii. Fund distribution (2007-08)

Sl no.	JFMC	Area	Amount	Remarks
1.	Garupaban	100 ha.	Rs.14,24,000.00	-
2.	Noganodi	20 ha.	Rs. 2,84,800.00	-
3.	Janeki Pathar	20 ha.	Rs. 2,84,800.00	-
4.	Singlo	20 ha.	Rs. 2,84,800.00	-
5.	Singlo Taungiya	10 ha.	Rs. 1,42,400.00	-
		170 ha.	Rs. 24,20,800.00	
6.	Beat Officer, Somdar (Nursery)	0.25 ha.	Rs. 2,73,000.00	-
7.	**Overhead**	-	Rs. 1,29,200.00	DFO, Social Forestry (CEO)

Rs. 28,23,000.00

IV. Rs. 17,10,000.00

For 2008-09	Rs. 8,50,000.00
For 2009-10	Rs. 5,10,000.00
For 2010-11	Rs. 3,40,000.00
	Rs. 17,00,000.00
For Demonstration Plot	Rs. 10,000.00
	Rs.17,10,000.00

5.2.4 DETAILS OF HA. RESTOCKING (2008-09)

Ref: REWP/NBM/FDA/Siv/08-09 dtd. 10-12-08

Improvement of Degraded Bamboo

Sl. No	JFMC	Area in Ha	Amount Disbursed
1.	Halua	10	Rs. 80,000.00
2.	Dangorikumar	10	Rs. 80,000.00
3.	Luckily	10	Rs. 80,000.00
4.	Lefera	10	Rs. 80,000.00
5.	Garupaban	10	Rs.240,000.00
6.	Singloo	10	Rs.160,000.00
7.	Noganodi	10	Rs. 80,000.00
100 ha			**Rs. 8, 00,000.00**

Total Rs. 9, 96,000.00 provided which include 80 ha plantation.
Training (0.76 lakh) / Workshop (1.0 lakh) /Demonstration Plot (0.10 lakh)

5.2.5 DETAILS OF 50 HA. PLANTATION (2010-11)

Ref: BDA.1/NBM/FDA/Sivasagar/10-11 dt. 1-10-10

Sl. No.	JFMC	Advance Work		Creation	
		Area	Amount	Area	Amount
1.	Halua	25 ha	Rs.1,56,250.00	25 ha	Rs.1,56,250.00
2.	Lakily	25 ha	Rs.1,56,250.00	25 ha	Rs.1,56,250.00
		50 ha	**Rs.3,12,500.00**	**50 ha**	**Rs.3,12,500.00**

5.2.6 Details of 100 Ha. Restocking (2010-11)

Ref: NBM/FDA/Sivasagar/10-11 dt. 17-1-2011

Restocking of Bamboo Plantation			
Sl.No	JFMC	Area in HA	Amount Disbursed
1.	Garupaban	60	Rs 4,80,000.00
2.	Lakily	20	Rs 1,60,000.00
3.	Halua	20	Rs 1,60,000.00
Total		**100 ha**	**Rs. 8,00,000.00**

I. Demonstration Plots: 9 Nos. = RS. 90, 000.00

2006-07 (Somdar)	:1 no.	i. Garupaban JFMC
(REWP/NBM/FDA/Siv/06-07 dtd. 26-12-2007)		
2008-09	:6 nos.	i. Garupaban JFMC
(REWP/NBM/FDA/Siv/07-08 dtd. 20-06-2008)		ii. Dangori Kumar JFMC
		iii. Sapekhati JFMC
		iv. Janekipathar JFMC
		v. Noganodi JFMC
		vi. Singlo JFMC
2008-09		
(REWP/NBM/FDA/Siv/08-09 dtd. 10-12-2008)	:2 nos.	i. Halua JFMC
		ii. Luckily JFMC

5.2.7 NURSERY: 0.25 HA: RS. 2, 73,000.00

Somdar Nursery: 2007-08 (REWP/NBM/FDA/Siv/06-07 dtd. 6-6-2007)

5.2.8 Consolidated Reports on Activities/ Works executed under NAP – in Sivasagar Forest Development Agency since inception

Sl. No.	Year of Reference	Amount provided & utilized	Details of works executed	Remarks
1	2005-06	Rs. 1700000.00	AN = Advance Works: 150 Ha ANR = Advance Works: 100 Ha	
2	2006-07	Rs. 1500000.00	AR = Creation : 150 Ha Advance Works : 150 Ha ANR = Creation :100 Ha	
3	2007-08	a. Rs. 600000.00 (Additional Advance work Project) b. Work executed, but no fund	AR = Advance Works : 50 Ha RPH & S= Advance Works:50 Ha AR= Creation : 150 Ha	

			1st Maintenance: 150 Ha ANR = 1st Maintenance : 100 Ha	
4	2008-09	Rs. 3300000.00	AR= Advance Works : 25 Ha Creation: 50 Ha 1st Maintenance: 150 Ha (50% fund received) 2nd Maintenance: 150 Ha(-do-) ANR= Advance Work: 200 Ha 2nd Maintenance: 100 Ha (50% fund received) RPH & S= Creation: 50 Ha An amount of Rs. 17,98,750.00 was spent towards M&E, overhead, SMC, EPA & awareness of 2008-09and committed liabilities on the works, overhead, M&E etc. executed during2007-08.	
		Rs.7100000.00		

N.B. An amount of Rs.8, 70,500.00 is for committed liabilities for 2008-09 for incurring expenditure and 2nd maintenance of 100 Ha, ANR, 1st maintenance of 150 Ha. AR, 2nd maintenance of 150 Ha. AR and other related work viz. SMC, EPA, Awareness, Microplanning, Fencing, M&E Overhead, which to be cleared during 2009-10.

5.2.9 Details of activity under National Bamboo Mission in Singlo JFMC

Details of activity under National Bamboo Mission in Singlo JFMC		
Year	**Physical**	**Financial(In Lakh)**
2007-08	20 ha (creation)	2.848
2008-09	Maintenance	0.948
2009-10	Maintenance	0.57
2010-11	Maintenance	0.358
2007-08	20 ha (creation)	2.32
2008-09	Maintenance	0.948
2009-10	Maintenance	0.768
2010-11	Maintenance	0.49
2011-12	Maintenance	0.198
2008-09	Restocking – 20 ha	1.60
2008-09	Demonstration – 10 ha	0.10

5.2.11Monthly Physical Progress Report under Village Energy Security Programme (VESP) upto June 2016

Total Project Cost : Rs 22,33,900.00 (Excluding overhead Rs. 4,00,000.00)

Govt. of India Share : Rs. 20,10,510.00 : State/Beneficiary Share : Rs. 2,23,390.00

Sl no	Physical Progress				
	Sanctioned Item	Quantity	Achievement		
			Till 2008-09	During the quarter	Cumulative
1	Biomass Gasifier			Nil	
	(a) System	2 nos.			
	(b) Shade & Foundation	1 no.	1 no.		1 no.
2	Biogas Plants	4 nos.	4 nos.	Nil	4 nos.
3	Improved Chullahs	82 nos.	82 nos.	Nil	82 nos.
4	Plantation			Nil	
	(a) Fuelwood	5 Hect.	5 Hect.		5 Hect.
	(b) Jatropha / Oil bearing	3 Hect.	3 Hect.		3 Hect.
5	Transmission line	2.5 km	1 km	Nil	1 km.

6	Household Wiring	82 nos.	25 nos.	Nil	25 nos.
7	Oil Expellers	1 no.		Nil	
8	Street light	8 nos.		Nil	
9	Gasifire Room Lights	5 nos.		Nil	
10	Training, Visit etc			Nil	

5.2.12 Monthly Financial Progress Report under Village Energy Security Programme (VESP) upto June 2016

Total Project Cost: Rs. 22, 33,900.00 (Excluding Overhead: Rs. 4, 00,000.00)

Govt. Of India Share: Rs. 20, 10,510.00

Govt. Of Assam Share: Rs. 2, 23,390.00

S. No.	Financial Report				
	Sanctioned item	**Sanction amount**	**Expenditure till 2008-09**	**Expenditure during the quarter**	**Cumulative**
1.	**Biomass Gasifier:**			Nil	
	(a) System= 2 nos	1484000.00			
	(b) Shade & Foundation= 1 no	100000.00	89782.00		89782.00
2.	Biogas Plants= 4 nos	64000.00	64000.00		64000.00
3.	Improved Chullahs= 82 nos	16400.00	16400.00		16400.00
4.	**Plantation:**			Nil	
	(a) Fuelwood: 5 ha	150000.00	104000.00		104000.00
	(b) Jatropha: 3 ha	90000.00	90000.00		90000.00
5.	Transmission line: 2.5 km	150000.00	150000.00		150000.00
6.	Service line (House Hold wiring) = 82 nos	82000.00	25000.00		25000.00
7.	Oil Expellers= 1 no.	50000.00			

8.	Street light = 8 nos	20000.00			
9.	Gasifier Room Light : 5 nos	2500.00			
10.	Miscellaneous (Training)	50000.00			
Total		**2258900.00**	**539182.00**		**539182.00**
11.	Overhead	400000.00	175000.00		175000.00
Grand Total		**2658900.00**	**714182.00**	Nil	**714182.00**

5.3 Schemes of other Departments

5.3.1 SCA TO TSP during 2008-09 under Sivasagar FDA

Sl. No.	Name of JFMC Village	Road			School			Water Channel			Water Tank			Solar Power Plant			-			Total
		Physical	Financial	Fund Released	Physical	Financial	Fund Released	Physical	Financial	Fund Released	Physical	Financial	Fund Released	Physical	Financial	Fund Released	Physical	Financial	Fund Released	
1	Singlo	2.00	7.52	5.264	1	2.75	1.925	2	2.00	1.4	1	2.00	1.4	-	-	-	-	-	-	9.989

Remarks: Only 70% (Approx.) fund has been released.

SINGLO JOINT FOREST MANAGEMENT COMMITTEE

SIVASAGAR FOREST DIVISION, EASTERN ASSAM CIRCLE

Micro-Plan

(2016-17 to 2026-27)

PART-II

6. Microplan Objectives, SWOT and GAP Analysis

6.1 Microplan Objectives

A village level Micro-Plan is a village development plan and forest development plan, which is need, based and site specific, commensurate to available resources. As the unit of the plan is small, it is called a micro plan. The Microplan tries to meet the twin objectives of:

i. Enhancing livelihoods
ii. Biodiversity conservation and maintaining the ecological balance

In India, micro-plans have become an integral part of the joint forest management approach adopted by the Government of India. In this context, a micro-plan is a simple document prepared with the active participation of the community members. The community (village) is the unit for such micro-planning. The document aims to link local forest based resources to local needs and programme objectives of the Forest Department. As per the JFM Guidelines of 2000, the Forest Officers and JFMC should prepare a micro plan after having detailed PRA exercise in the village. The micro-plans of the JFMCs are to be incorporated into the working plans of the Forest Department.

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 the following Participatory Rural Appraisal (PRA) process undertaken by the community and personnel of RashtriyaGraminVikas Nidhi (RGVN) in May 2016. The various steps followed are enumerated briefly below:-

a) Community meetings organized at the outset in May 2016 to discuss the objective of the project and obtaining their cooperation to gather the required information about the community and its contexts;
b) Collection of the baseline data on the community and its contexts as per the available formats;
c) Validation of collected information through community discussions held thereafter; and
d) Preparing the outline of the Action Plan as per the community participation and feedback.
e) The micro-plan has been compiled by RGVN based on the project guidelines. The document has been discussed and finalized for adoption in July 2016.

6.2 Need Assessment and GAP Analysis

Based on the resource assessment, capacity assessment, livelihoods assets mapping and vulnerability assessment through focused group discussions, PRA exercises, village level and household level survey, the need assessment, gap analysis and SWOT analysis was carried out. The action plan, livelihood, village development strategies and forestry development plan were conceptualized for the JFMC primarily based on this analysis.

Training Need Assessment:

a. **Capacity building** of communities through regular awareness programmes on important development issues like Forests and Biodiversity, Sustainable development, climate change issues, Gender issues, Financial inclusion, importance of WATSAN, soil and water conservation. Flood management should be carried out. A mechanism for the same is proposed in the action plan for village development.

b. **Skill Development:** Conducting regular review of livelihood skills and providing specialized training on use of equipment and tools and processes and procedures for livelihood enhancement to be conducted on a regular basis as proposed in the action plan for livelihood development.

GAP Analysis

- Poor communication network
- Lack of proper Infrastructure
- Poor financial literacy
- Water sanitation issues
- Drinking water issues
- No protection from forest fire
- No proper scientific measures for protection from elephant depredation

6.3 SWOT Analysis

The SWOT analysis was carried out through participatory approach by involving both male and female members of the community.

Strengths

i. Traditional skill
ii. Fertile land suitable for tea cultivation along other agricultural crops

Weaknesses

i. Poor transport and communication facility
ii. Lack of drinking water facilities
iii. Alcoholism

Opportunities

i. Nursery (Tea, fruits and Timber)
ii. Apiculture
iii. Bamboo Craft
iv. Livestock rearing

Threats

i. Forest fire
ii. Animal depredation (Elephant)
iii. Habit of alcoholism

6.4 PRA Exercise

Appendix VI(A) to VI(D) gives the **PRA** maps

Team from RGVN Guwahati carried out PRA exercise in Singlo village as follows:

Date: **28.5.2016 Location: SINGLO**

Numbers Present:40

In Presence of: JFMC office bearers, Village Headman, community members, Forest Department personnel, etc.

Awareness and orientation programme was conducted at village level before taking up the participatory mapping and transect walk. The main themes covered during awareness and orientation included the following:

(a) Participatory Planning
(b) Participatory tools & Methods
(c) Importance of Microplanning and role of JFMC

(d) Environmental issues
(e) Climate change and Climate variation
(f) Ecological balance and Ecosystem management (traditional and scientific)
(g) Sustainable livelihood Framework
(h) Livelihood Assets Pentagon and importance of social capital
(i) Cluster formation & SHG , Financial inclusion
(j) Marketing and Value addition
(k) Development agenda and its relationship with environment and ecological balance
(l) Gender Issues and gender equality

Observations: The communities actively participated during the discussions and PRA exercise. The following important points have emerged:

- People expressed that the JFMC have not been very active in the past due to lack of funds and projects
- There have been very few awareness and orientation programs in the JFMC in the past.
- They appreciated the importance of micro planning and were very supportive and cooperated during the micro planning process.
- While some NGOs have been visiting the JFMC they only collected data and information but did not take up any development activity.
- It was for the first time that Under the APBFC the NGO has come and interacted with the community and created awareness and proper orientation not only about the project but also on the development issues including environmental and ecological aspects to growth and development.
- The communities have good local wisdom and traditional knowledge regarding the environment, forestry and other livelihood issues like pest control, livestock management etc.
- They shared their concern over the climate variation and its ill effects on agriculture and health in the village. They are keen to learn more on the scientific facts about climate change issues.
- A sense of importance was observed among the people as they understood the important role they had towards reducing causes leading to climate variation by protecting the nearby forests and a sense of ownership seems to be gripping them boosting their self-esteem.

Community Need Assessment: Based on the PRA exercise, Focus group discussions, consultations with village community, JFMC members, forest staff and other stakeholders the Village Development plan and Livelihood development Plan was prepared for the JFMC. Through the participatory approach the community Need Assessment was carried out. The people's needs can be categorized as follows:

1. **Structural Needs**
2. **Non Structural needs**

These needs can be classified further into long term needs and short term needs. The details of the community needs are given in the village development plan.

The structural needs of the people have direct and indirect linkage with livelihood improvement. These include improvement of infrastructure like roads, school buildings, Health care infrastructure, drinking water supply system, water tanks, ring wells etc. Construction of toilets, community halls and training sheds, market sheds.

The non structural needs of the people include provision for skill training, provision of veterinary services, health care services, mobile doctors team, requirement of teachers for schools in the villages, capacity building through training and awareness on financial inclusion, SHG and cluster formation, provision for raw materials, village maintenance & development fund/ community fund for JFMC, Value addition of traditional products and marketing linkages. Exposure visits to best practice sites relating to joint forest management, community participatory project cites, artisans' villages and participation in melas, trade fairs etc.

7. Village Development Plan

For village development, the community proposes to take up a number of Entry Point Activities. The EPA includes infrastructure development and skill development and both are directly linked with each other.

The measures planned by the community members for their overall development are:

i. The present status of the transportation facility in the village is very poor. So, construction of concrete roads throughout the village is necessary.

ii. The village is connected by a bamboo bridge in the Borbil Suburi which is not suitable for heavy vehicles to pass through. So, a cemented bridge is needed.

iii. The community members and the crop lands are vulnerable to diseases. So, proper awareness of crop and health insurance will be very beneficial.

iv. The soil condition of the village is very suitable for nursery of tea and other fruits and vegetables. So, proper training and guidance will be very much beneficial for the villagers to boost their income source.

7.1 Ranking of EPA

Rank	Village EPA as ranked	Details
1	Construction of Road	Need a concrete road from Kachari path to Tangia path (8 km) GPS- N : $26^0$57'30.174" E: 94^0 56' 25.986"
2	Opening of High School	Opening of High School at Tangia Chuburi(Right Side of Nabin Munda house)
3	Opening of NatyaMandir	Opening of Natya Mandir attached to Milan Jyoti Yuva Sangha Size : 100x85 sq ft.
4	Providing a Tent House	Providing a Tent House for the community Location – In front of Bitupan Sonowal's house
5	Providing Sanitation facilities	Providing Toilet facility to the household
6	Providing Hand Pump	Providing hand pumps to the households
7	Setting up of Veterinary Service Center	Opening of veterinary service near Sani Mandir located Borbill Chuburi of Singlo

Divisional Forest Officer,
Sivasagar Division, Sivasagar

8. Livelihood Development Plan

8.1 Ranking of Livelihood and Skill Development

- Agriculture & Horticulture
- Small Tea Cultivation
- Livestock
- Skills Development
- Apiculture
- NTFP

8.2 Livelihood Opportunities

Livelihood were identified as follows:

- Agriculture and Horticulture
- Small Tea Cultivation
- Livestock
- Skills Development
- Apiculture
- NTFP

8.3 Agriculture & Horticulture

The main constraints are:

(a) Low production due to Pest and Disease attack

(b) Loss of Banana tree due to Elephant depredation

(c) Low production in Water logged area

(d) Lack of knowledge about scientific method of crop cultivation

The opportunities are:

(a) Large scale cultivation of black pepper

(b) Provision of organic farming

(c) Provision of setting up of Tea and other Fruits and Medicinal plants nursery

(d) Provision of Apiculture

8.4 Livestock

The main constraints are:

(a) No veterinary services

(b) Lack of Knowledge about scientific livestock rearing methods

(c) Lack of grazing area

The opportunities are:

(a) Goatery farm

(b) Piggery farm

(c) Duckery and Poultry

The suggested programme is: Skill Development Training in concerned subject

8.5 NTFP

The main constraints are:

(a) Lack of value addition/processing/ packaging unit

(b) Lack of marketing linkage

(c) Lack of proper knowledge about value addition

The opportunities are:

(a) Value added products

(b) Boosting income generation

(c) Medicinal plants can be used for preparation of different medicines

8.6 Specialized Skills

The main constraints are:

(a) Financial problem

(b) Lack of access to modern tools and implements

(c) Lack of product diversification

The opportunities are:

(a)Weaving

(b)Cane and Bamboo Craft

(c) Provision of different agro-based enterprises like apiculture and nursery

8.7 Credit Facility

The main constraints with the reasons are:

(a) Poor awareness about Microfinance Institutions

(b) Higher rate of interest charged by private money lenders

(c) Lack of knowledge about different schemes launched by the government for providing loans

The opportunities are:

(a) Micro finance Institutions

(b) Motivation to form SHG

(c) Provision of coverage under different government schemes

The suggested programme is:

8.8 Strategic Interventions

Summarizing the suggested programmes above as strategic interventions for the Livelihood Development Plan:

1. Goatery
2. Piggery
3. Poultry and Duckery
4. Raising tea and different fruits and medicinal plants nursery
5. Weaving
6. Cane and bamboo crafts
7. Carpentry

8.9 Income Generating Activities

The main income generating activities as planned at the village are:

1. Weaving
2. Cane and Bamboo Craft
3. Goatery
4. Carpentry
5. Poultry
6. Apiculture
7. Raising tea and different fruits and medicinal plants nursery

8.11 Exposure Trips

The following exposure trips are planned:

1.Good practices /projects of JFMC in North Eastern Region

2.Participation in melas and fairs like SARAS mela and other melas organized by TRIFED

3.Trips to nearby countries on training on bamboo treatment and handicraft/furniture making.

8.12 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) Prime Minister UjjwalaYojana
(g) NRLM
(h) NRHM
(i) Bamboo Mission
(j) 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.

9. Forest Development Plan of Singlo 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 Singlo 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.

The micro-plan takes into consideration the following categories of the JFM Forests of the Singlo 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.

9.1 Forests & Their Conditions

The conditions of the forests of the Singlo JFMC have been summarized below.

Table-1: Conditions of the Forests of Singlo 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	1500 Ha	0.5 K.M	Good	
RF / PF Name:Abhoypur R.F Beat:Singlo Compartment: 4		1	Good Area: 200 Ha Degraded Area: 1350 Ha	
(B) Other Planted Area				
Location: Abhaypur Type of Forest: Evergreen VF / Other Bamboo & Trees				
TOTAL			Good Area: 200 Ha Degraded Area:1350 Ha	

Source: Discussions with Forest Department personnel & Community members

It is seen that the Singlo JFMC has 1500 Ha under its forests, of which 450 Ha (30 %) is 'Good' (Crown density >8%) and the rest is 'Degraded'.

9.1.1 Forest Soil Type

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

Table-2: Forest Soil Type inSinglo JFMC

Parameter	**Status in Assigned Forests**	**Status in Other Planted Areas**
Fertility Level	Fertile	
Soil Erosion Status	No	
Presence of:		
(a) Silt	Yes (Partly)	
(b) Mud-flat	Yes (Partly)	
(c) Newly accreted land	No	
(d) Sand dune	No	

Source: Discussions with Forest Department personnel & Community members

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

(a)Alluvial Soil

(b)Fertile Soil

(c)Red Soil

9.1.2 Existing Composition of Flora

In the forests of the Singlo JFMC, the existing composition of the flora has been given as follows. It may be noted that the local forests are classified as Evergreen Forests.

Table-3: Existing Composition of Flora in the SingloJFMC

Parameter	Local Name(s)	Botanical Name(s)
Major Forest Species	Hingori	*Castanopsis indica*
	Himolu	*Bombax ceiba*
	Merekoni	
	Lali	*Amora walihai*
Shrubs	TikoniBarua	*Byttneria grandiflora*
Medicinal Plants	Neem,	*Azadirachta indica*
	Bhatgila	*Oroxylum indicum*
	Tej Mori	*Xanthozylum nitidum*
	Bhedailota	*Hedyotis scandens*
Others, if any	Dhekia	*Blechnum orientale*

Source: Discussions with Forest Department personnel & Community members

9.1.3 Forest Village Management in the Past

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

a) Number of households involved - 210
b) Number of people involved – 1035
c) Summary of the measures – Protection of reserve forests.
d) Any formal mechanism: Forest patrolling by the JFMC members with forest staff.

9.1.4 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 Singlo JFMC

Name of Forest Produce	Average Household Requirement		How met at Present	Source
	Frequency of Requirement	Approx. Qty		
Firewood	Daily	10-15 kg	Forest	Forest
Timber for House	Occasionally	20 CFT PA	No provision by forest	Forest
Small timber for Implements	Occasionally	20 CFT PA	Provided	Forest
Pole / Bamboo	Ocassionally	15 kg	Provided	Forest
Fodder from Forest	Daily	5kg	Provided	Forest
NTFP				
Other				

Source: Discussions with Forest Department personnel & Community members

There are 210 households in the Singlo JFMC. From the above table and this number of households, it is inferred that the total annual requirements of the Singlovillage for forest produce for own use is as follows:

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

Name of Forest Produce	Community Requirement (Kg per annum) (*)	Remarks
Firewood	766500 kg	Firewood required per annum
Timber for House	4200 CFT	Timber required per annum
Small Timber for Implements	4200 CFT	_
Pole / Bamboo	100 nos	_
Fodder from Forest	383250 kg	_
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 210 Households

9.1.5 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 Singlo JFMC is given in the following table.

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

Name of Forest Produce	Collection for Marketing			Location of Collection
	Season / Months	No of Households Collecting	Average Qty. Collected (Kg)	
Firewood	Collection and marketing of any product from the JFMC is prohibited.			
Timber for House				
Small timber for Implements				
Bamboo				
Pole				
Fodder from Forest				
NTFP	Collection and marketing of any product from the JFMC is prohibited.			
Other				

Source: 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 [Singlo JFMC]

Name of Forest Produce	Surplus Marketed (Kg)	How marketed	Average Income per HH from sale of Forest Produce
Firewood	Collection and marketing of any product from the JFMC is prohibited.		
Timber for House			
Small timber for Implements			
Bamboo			
Pole			
Fodder from Forest			
NTFP			
Other			

Source: Discussions with Forest Department personnel & Community members

9.1.6 Total Requirements of Forest Produce - Domestic Use & Marketing

The total requirements of forest produce by the community members of the Singlo 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 Singlo 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	766500 kg		766500 kg
Timber for House	4200 CFT		4200 CFT
Small timber for Implements	4200 CFT		4200 CFT
Bamboo	766500 pc		766500 pc
Pole	383250 kg		383250 kg
Fodder from Forest	_		_
NTFP	_		_
Other			

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

9.2 Forest Protection Issues

9.2.1 Protection Problems

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

Table-7: Protection Problems of the Singlo 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	Yes	No
Accidental Fires	Yes	No
Encroachment of Forest Lands	No	No
Others	_	_

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 animals

9.2.2 Reasons for Degradation of the Forest

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

(a) Grazing

(b) Illicit Felling

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

9.3 Components of the Forest Development Plan

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

9.3.1 Protection Plan

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

Table-8: Protection Plan of theSinglo JFMC

Protection Work	**Location in Forest Area**	**Quantification of the Measures** [Length, Area, Size etc.]	**Timing**	**Priority** [High / Medium / Low]
Patrolling (Regular)	In plantation area	1500 Ha	Morning-Evening	High
Border Observation Post (Felling)	In plantation area	1 Bigha	1-2 year tentative	High

Source: Discussions with Forest Department personnel & Community members

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

(a) Border Observation Post (Felling)

(b) Patrolling (Regular)

9.3.2 Types of Operations Proposed

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

Table-9: Types of Operations Proposed in the Singlo 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	10 Yr	1300 Ha
Protection to Cut Stumps of Trees	No			
Watershed Treatment	Yes	Yes	5 yr	300 ha
Water Reservoirs	Yes	Yes	1-2 yr	20ha
Grass &Silvi-pasture	Yes	Yes	3 yr	20 Ha
Bamboo Plantation	Yes	Yes	1-2 yr	30 Ha
Seed Sowing	NA			
Root & Shoot Cutting & Plantation	No			
Physical Fencing	Yes	Yes	5 Yrs	1500 Ha
Social Fencing	Yes	Yes	4 Yrs	1500 Ha
Other Activities(Goatery)	Yes	Yes	2-3 Yrs	50 Ha

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 Singlo JFMC:

(a)Restoration of Degraded Forests

(b)Grass &Silvi-pasture

(c)Bamboo Plantation

(d)Physical Fencing

(e) Social Fencing

(f) Goatery

9.3.3 Forest Improvement Plan - Advance Works & Creation

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

Table-10: Forest Improvement Planned in theSinglo JFMC

Treatment	Area in Ha under Plantation Module	Priority for Block Plantation	Species	Spacing (metre x metre)
Assisted Natural Regeneration (with plantation in gap)	300	Compartment 4	Seleng, GhoraNeem, Jamu, Bhomora, Lali, Phul gomari, Khingori	5X5
Block Plantation				
Sowing of Neem, Amla, Mahua, Bahera (Medicinal Plants)	15	Compartment 4		2X2
Enrichment Plantation				
Direct Plantation				
Other (Firewood Plantation)	20	Compartment 4	Sobabul, Ghora Neems, Bhomora, Velkor	2X2
TOTAL AREA (in Ha)				

Source: Discussions with Forest Department personnel & Community members

9.4 Forest Improvement - Annual Targets

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

Table-10 (A): Annual Targets of Forest Improvement inSinglo JFMC (Year-1 to Year-5)

Treatment	2016	2017	2018	2019	2020
Assisted Natural Regeneration	Started from 2015	5 ha	5 ha	5 ha	5 ha

Treatment	2016	2017	2018	2019	2020
(with plantation in gap)					
Firewood Plantation	Started from 2015	5 ha	5 ha	5 ha	5 ha

Source: Discussions with Forest Department personnel & Community members

Table-10 (B): Annual Targets of Forest Improvement in Singlo JFMC (Year-6 to Year-10)

Treatment	2021	2022	2023	2024	2025
Assisted Natural Regeneration (with plantation in gap)	4 ha	4 ha	4 ha	4 ha	4 ha

Source: Discussions with Forest Department personnel & Community members

9.4.1 Nursery Development Plan

The Nursery Development Plan for theSingloJFMC depends on the following types of Nurseries:

(a) JFMC Nurseries (incl. Departmental Nursery)

(b) Other Nurseries - SHG & Private.

The details are given below

JFMC Nurseries

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

Table-11 (A): JFMC Nurseries of theSinglo JFMC

Location of Nursery	Species	Year of Development	Number of Seedlings	Remarks
Singlo	Velkor, Jamuk, Seleng, Chubabul, Neem	2015	32,000	Permanent nursery is required to complete the plan.

Source: Discussions with Forest Department personnel & Community members

Other Nurseries

The following table gives the details of other nurseries near the Singlo JFMC.

Table-11 (B): Other Nurseries near theSinglo JFMC

Name of Nursery	Species	Year of Development	Number of Seedlings	Remarks
There are no other nurseries near the Singlo JFMC				

Source: Discussions with Forest Department personnel & Community members

9.4.2 Maintenance Plan - 10 Years

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

(A) Timber Species _____

Table-12 (A): Maintenance Plan of Firewood Plantation in theSinglo JFMC

Year(s)	Treatment

Source: Discussions with Forest Department personnel & Community members

(B) Bamboo

Table-12 (B): Maintenance Plan of Bamboo Plantation in the Singlo JFMC

Year(s)	Treatment

Source: Discussions with Forest Department personnel & Community members

(C) Fuel wood Plantation (Ghuraneem, Velkor, Chelleng, Chubabul, Jamuk)

Table-12 (C): Maintenance Plan of Fuel Wood Plantation in theSinglo JFMC

Year(s)	Treatment
2015-2020	Vacancy filling & protection

Source: Discussions with Forest Department personnel & Community members

(D) NTFP / Medicinal Plantation

Table-12 (D): Maintenance Plan of NTFP / Medicinal Plantation in the Singlo JFMC

Year(s)	Treatment

Source: Discussions with Forest Department personnel & Community members

9.4.3 Miscellaneous Operations Plan

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

Table-13): Miscellaneous Operations in the Singlo JFMC

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

Source: Discussions with Forest Department personnel & Community members

9.4.4 Marketing Operations

For produce from the Singlo JFMC, the planned marketing operations are:

(a)

(b)

9.5 Expected Benefits

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

9.5.1 Expected Benefits Related to Wood & Grass

The above has been tabulated below for the Singlo 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 Singlo JFMC

Item	Month	Year (Indicative)	Quantity
Firewood			
Timber for House			
Small timber for Implements			
Bamboo			
Pole			
Fodder from Forest Trees & Grass			
NTFP			
Wages			
Other _____			

Source: Discussions with Forest Department personnel & Community members

9.5.2 Sharing Mechanisms

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

Table-15: Sharing Mechanism for Singlo JFMC

Method	**Items**
To be shared equally	Timber products to be shared between JFMC and Department
To be freely collected by the members	
Other Methods	

Source: Discussions with Forest Department personnel & Community members

10. Implementation Strategies, Timelines and Budget

10.1.1 Roles and Responsibility Matrix

For the three sub plans namely Livelihood Development Plan, Village Development Plan and Forest Development Plan, a matrix of roles and responsibilities has been developed. The matrices have been shown below for each of the sub plans separately.

Livelihood Development Plan

Stakeholders	Planning	Manpower	Training	Funding	Production & Value Addition	Marketing	M&E
JFMC	✓	✓			✓	✓	✓
NGO	✓	✓	✓		✓	✓	
Skilling Agencies	✓	✓	✓		✓		
Forest Deptt	✓	✓		✓		✓	✓
Line Deptt.	✓	✓		✓			✓

Village Development Plan

Stakeholders	JFMC	Forest Department	Line Departments	NGO	Training Institutions	Govt of India/Corp
Solar Power	✓	✓	✓	✓		✓
Solar/Hybrid Street Lights	✓	✓	✓	✓		✓
Sprinkler Irrigation	✓	✓	✓	✓	✓	✓
LPG	✓	✓		✓	✓	✓
Power Pumps	✓	✓	✓	✓		✓
Training Center	✓	✓		✓	✓	✓
Community Hall cum JFMC Office	✓	✓	✓			
Bridge	✓	✓				
Roads	✓	✓	✓			
WATSAN	✓	✓	✓	✓		✓
School	✓	✓				
Health Infra	✓	✓	✓	✓	✓	✓
Organic farming/ vermicomposting	✓	✓	✓	✓	✓	✓

Forest Development Plan

Stakeholders	JFMC	Forest Department	Line Departments	NGO	Training Institutions	District Admin
Forest Protection	✓	✓		✓		✓
Wildlife Protection	✓	✓	✓	✓	✓	
Habitat Improvement	✓	✓	✓	✓	✓	
Nursery Development	✓	✓		✓	✓	
Wetland Conservation	✓	✓		✓		✓
Man-Animal Conflict	✓	✓		✓		
Grazing Control	✓	✓	✓	✓		
Eco-Tourism	✓	✓	✓			

10.2 **Finance and Budget**

The budget for the micro-plan has been prepared based on annual requirement of the three sub plans namely the Livelihood Plan, Village Development Plan and Forest Development Plan. The consolidated table is given below.

Sl No.	Plan	Amount (Rupees)	Remarks
1.	Livelihood Development Plan		
2.	Village Development Plan		
3.	Forest Development Plan		
	TOTAL		

Livelihood Development Plan

Sl No.	Item of Work	Amount (Rupees)	Remarks
1.	Skill Development & Training		
2.	Dairy Farming		
3.	Poultry/ Fishery/ Duckery		
4.	Computers		
5.	Trades and Callings		
6.	Handicrafts		
7	Kits and Equipment		
8	Value Addition & Certification		
9	Packaging and Marketing		
10	Exposure Visits		
11	SHG/ JLG/ Cluster Formation & Credit		
12	Tourist Guides		
13	Eco-tourism & Home Stays		
14	Ice cream factory		
15	Supari Industry Development		
16	Packaged Drinking Water		
	TOTAL		

Annual Village Development Plan:

Sl No.	Item of Work	Amount	Remarks
1.	Solar Power		
2.	Solar/Hybrid Street Lights		
3.	Sprinkler Irrigation		
4.	LPG		
5.	Power Pumps		
6	Training Center		
7	Community Hall cum JFMC Office		
8	Roads		
9	WATSAN		
10	School		
11	Health Infra		
12	Organic farming/ vermi-compost		
	TOTAL		

Annual Forest Development Plan

Sl No.	Item of Work	Amount	Remarks
1.	0.25 Ha Nursery		
2.	50-100 Ha Fuelwood Plantation Creation		
3.	Desiltation of water bodies	5,00,000.00	
4.	Anti-Depredation Squad	5000.00	
5.	Crop Insurance	100,000.00	
6.	Life Insurance	200,000.00	
7.	Cattle Insurance	50,000.00	
	TOTAL		

10.3 Action Plans and Strategies:

Each of the **three** plans namely the Village Development Plan, Forest Development Plan and Livelihood Development Plan would require short term and long term action plans strategies in order to realize the prescriptions of the Microplan. Short term strategies should focus on activities to be taken up from 0-5 years, and long term plan should focus on activities to be taken up in 5-10 years of this Plan.

Livelihood Development Action Plan:

The livelihood action plan may be divided into three parts namely, skilling, production & marketing and value addition. The most immediate want of the population is skilling. The skilling requirements needs to be viewed at basic level and advanced level. Once the trades and skill requirements have been frozen, the basic skills should be imparted within a period of 1 year for all willing members of the village both men and women in a phased manner. During this period, some of the trainees could also start production. The most marketable outputs need to be channelized to the available markets in order to create the brand effect and assess the marketability of the production in terms of quality and value.

Village Development Action Plan:

The village development action plan may be divided into the short term plan and the long term. In the short term plan activities like Solar lighting, Providing LPG connections, construction of Community hall and training centre and water sanitation needs would be addressed. In the long term plan for the village the activities like

construction of schools, health care facilities would be taken up. Providing improved tools and equipment for enhancing agriculture production along with water sprinklers, power pumps would be provided.

Forest Development Action Plan: The forest development action plan comprises of the short term action plan and the long term plan. The short term plan includes formation and strengthening of forest protection squads, Nursery development, desiltation of water bodies, and formation of anti-depredation squads, Tongi construction and firewood plantations. In the long term action plan activities like Plantation, Crop improvement and habitat improvement would be taken up.

10.4 Institution Building, Networking and Partnership

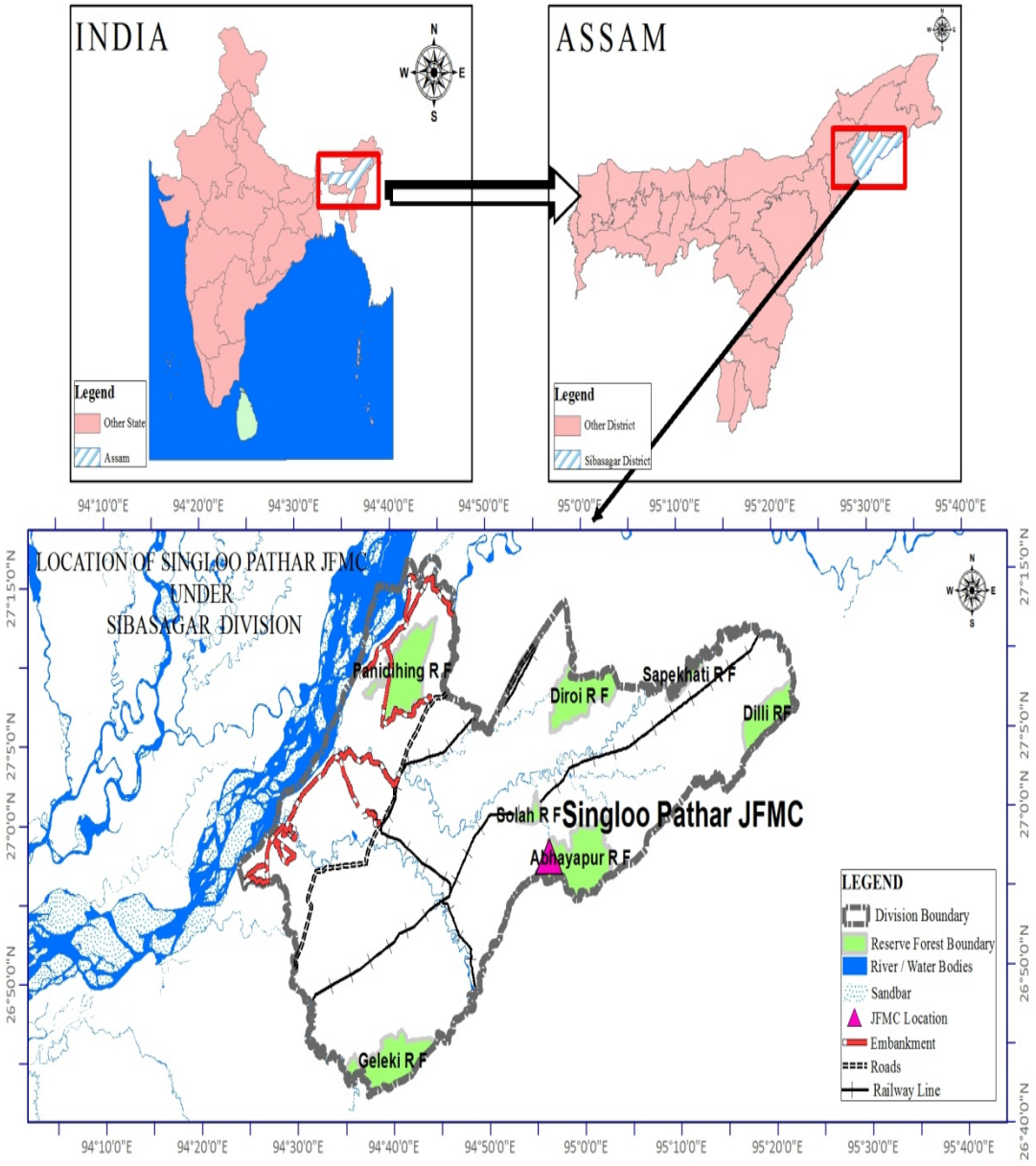
JFMC: The JFMC to be upgraded both in terms of its infrastructure assets and in terms of acting as a resource centre for village and forestry development. The proposed JFMC office along with the community hall in the entry point activity to be provided with modern equipment like computer/ TV and support equipment like generator etc. Building capacity of JFMC members through training programs on use of computers, maintaining and updating records/ accounts keeping and village level/ forestry data on a regular basis. The JFMC office to be upgraded as a resource center, an activity and training hub. Improving their networking skills and creating awareness regarding development schemes of other departments and modalities for partnership.

List of APPENDIX

Appendix No	Title
I (A)	Location Map of JFMC in India
I(B)	Location Map of Singlo JFMC
II	Approach to the JFMC
III (A)	JFMC Registration certificate
III (B)	MoU / Resolution Certificate
IV	Executive Members of Singlo JFMC
V	Executive members group Photo of Singlo JFMC
VI (A)	List of members present during PRA (Signed list)
VI (B)	List of members present during FGD (Signed list)
VII (A)	PRA-Community map of Singlo JFMC
VII (B)	PRA-Resource map of Singlo JFMC
VII(C)	PRA-Hazard map of Singlo JFMC
VII(D)	Venn Diagram
VIII	Entry point activities of Singlo JFMC
IX(A)	Training list of Singlo JFMC(Proposed)
IX(B)	Training list of Tailoring(Ongoing)
IX(C)	Training list of Bee Keeping (Ongoing)
X	Photographs
XI	GPS Coordinates
XII	SDP Report

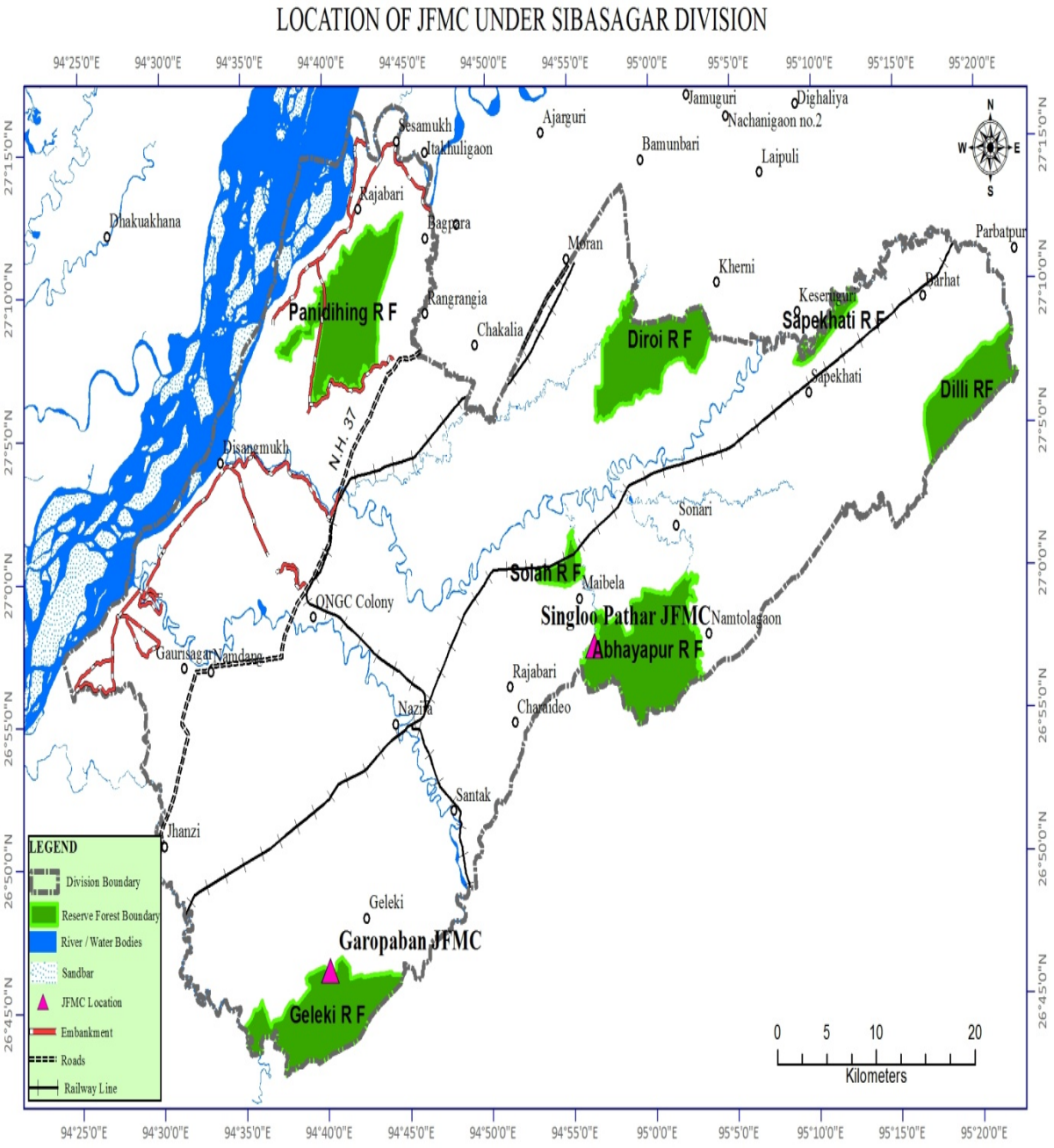
APPENDIX – I (A)

Location Map of JFMC in India



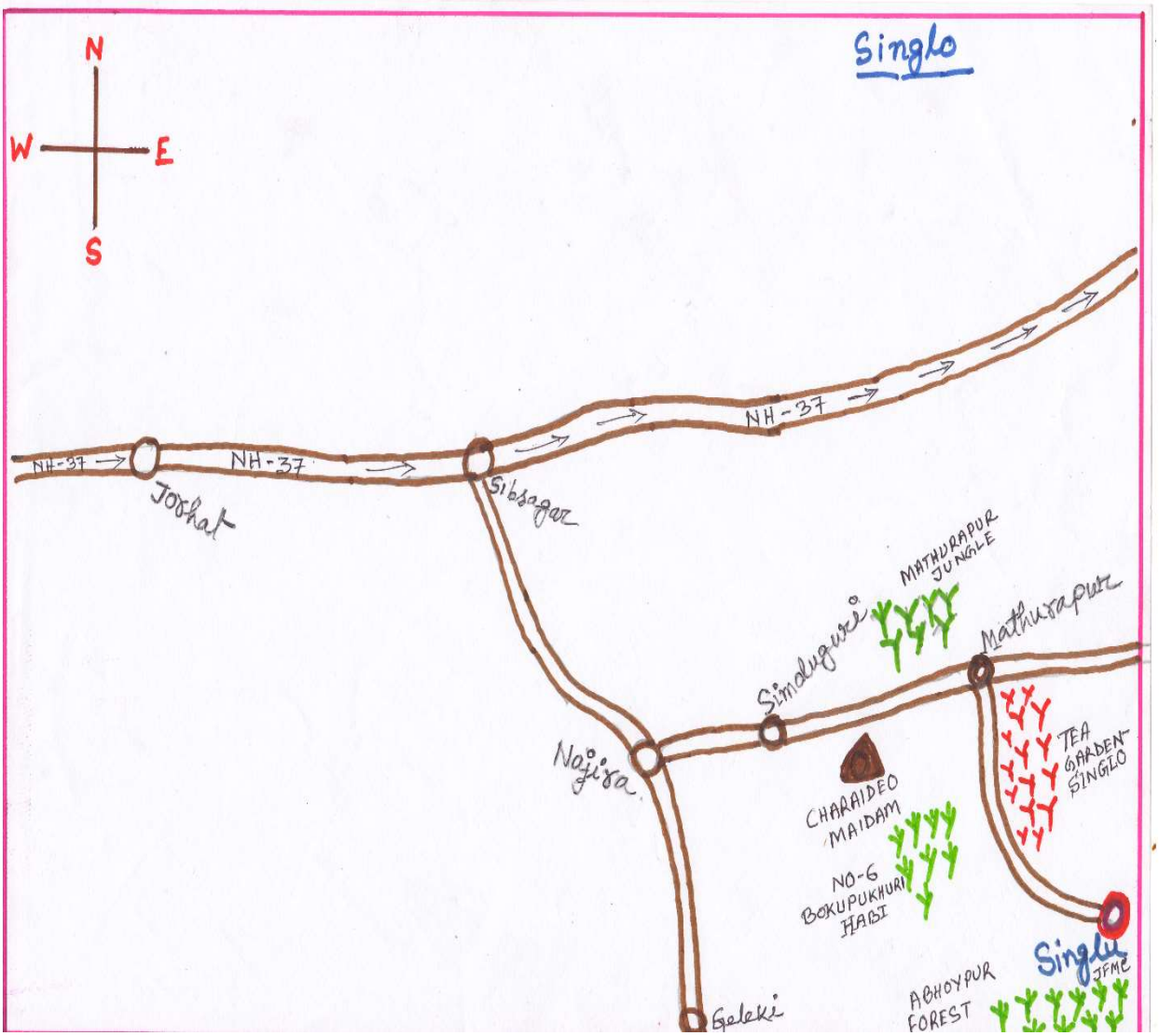
APPENDIX–I (B)

Location Map of Singlo JFMC



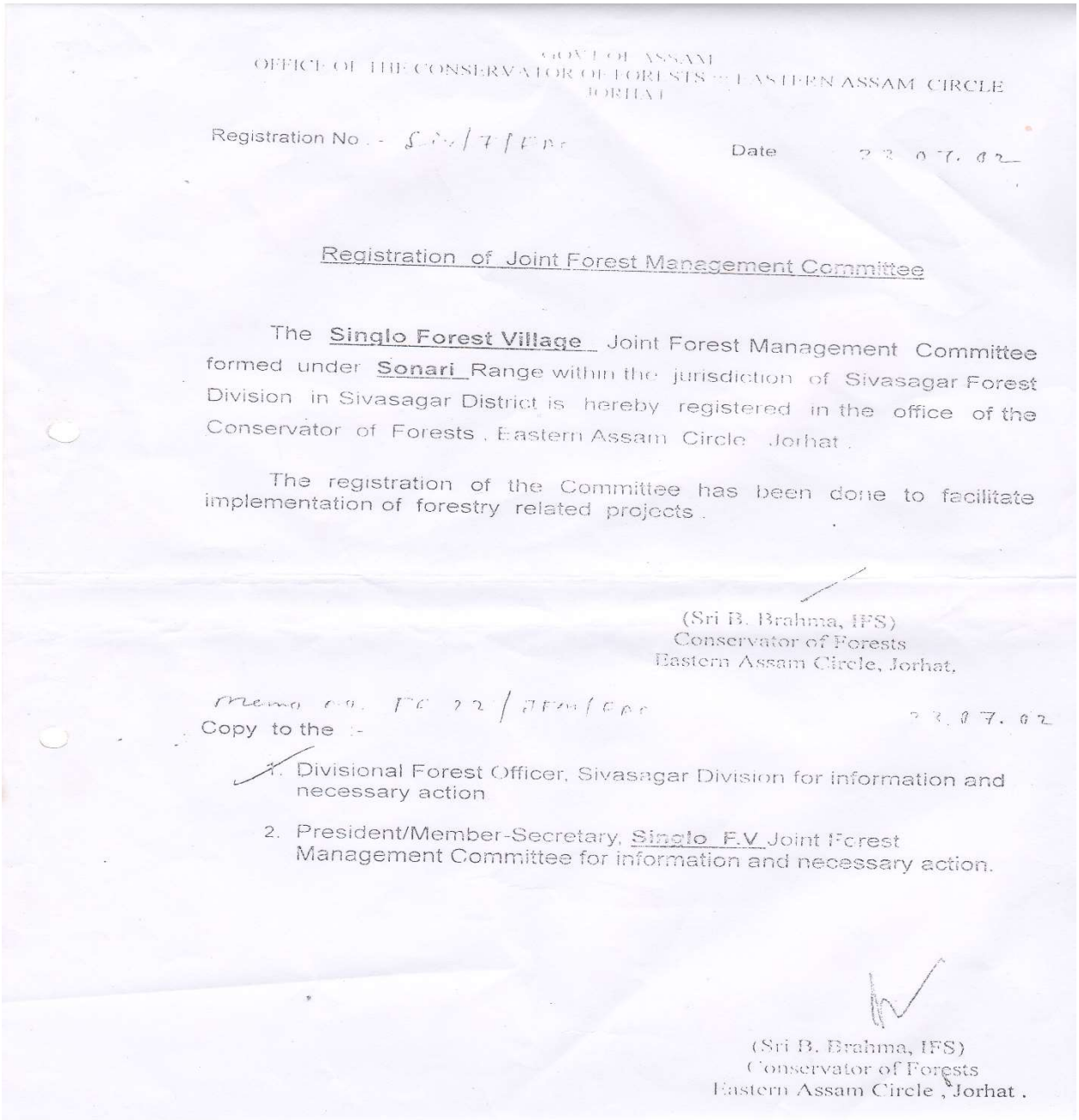
APPENDIX II

Approach to the JFMC



APPENDIX III (A)

JFMC registration certificate



GOVT OF ASSAM
OFFICE OF THE CONSERVATOR OF FORESTS :: EASTERN ASSAM CIRCLE
JORHAT

Registration No. - [illegible] Date 23.07.02

Registration of Joint Forest Management Committee

The Singlo Forest Village Joint Forest Management Committee formed under Sonari Range within the jurisdiction of Sivasagar Forest Division in Sivasagar District is hereby registered in the office of the Conservator of Forests, Eastern Assam Circle Jorhat.

The registration of the Committee has been done to facilitate implementation of forestry related projects.

(Sri B. Brahma, IFS)
Conservator of Forests
Eastern Assam Circle, Jorhat.

Memo no. FC 22/JFM/[illegible] 23.07.02

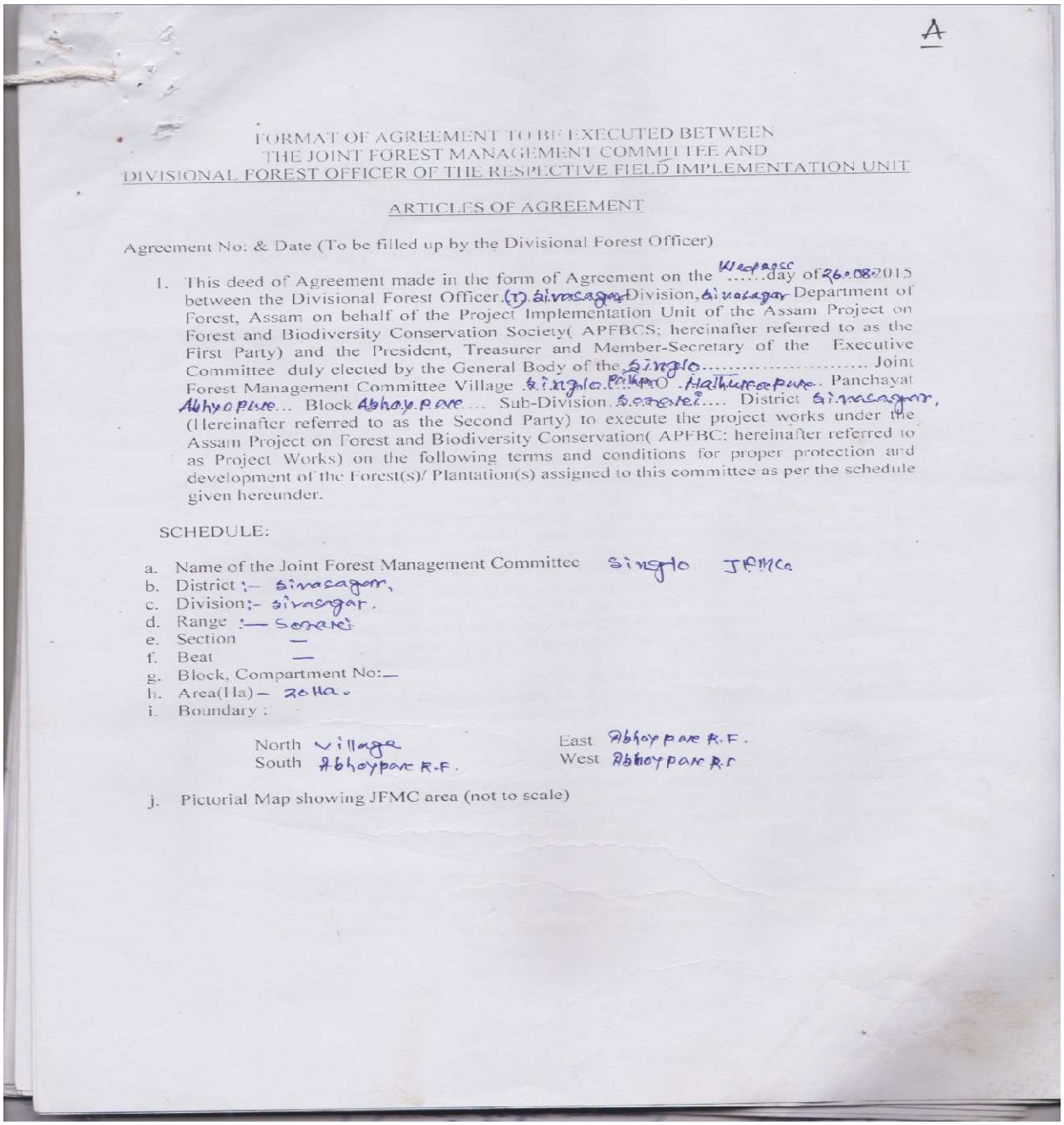
Copy to the :-

1. Divisional Forest Officer, Sivasagar Division for information and necessary action
2. President/Member-Secretary, Singlo F.V Joint Forest Management Committee for information and necessary action.

(Sri B. Brahma, IFS)
Conservator of Forests
Eastern Assam Circle, Jorhat.

APPENDIX–III (B)

MoU / Resolution Certificate



A

FORMAT OF AGREEMENT TO BE EXECUTED BETWEEN
THE JOINT FOREST MANAGEMENT COMMITTEE AND
DIVISIONAL FOREST OFFICER OF THE RESPECTIVE FIELD IMPLEMENTATION UNIT

ARTICLES OF AGREEMENT

Agreement No: & Date (To be filled up by the Divisional Forest Officer)

1. This deed of Agreement made in the form of Agreement on the Wednesday of 26.08.2015 between the Divisional Forest Officer (T) Sivasagar Division, Sivasagar Department of Forest, Assam on behalf of the Project Implementation Unit of the Assam Project on Forest and Biodiversity Conservation Society(APFBCS; hereinafter referred to as the First Party) and the President, Treasurer and Member-Secretary of the Executive Committee duly elected by the General Body of the Singlo..... Joint Forest Management Committee Village Singlo Pathpo Mathurapur Panchayat Abhyopur... Block Abhoypur... Sub-Division Sonari.... District Sivasagar, (Hereinafter referred to as the Second Party) to execute the project works under the Assam Project on Forest and Biodiversity Conservation(APFBC: hereinafter referred to as Project Works) on the following terms and conditions for proper protection and development of the Forest(s)/ Plantation(s) assigned to this committee as per the schedule given hereunder.

SCHEDULE:

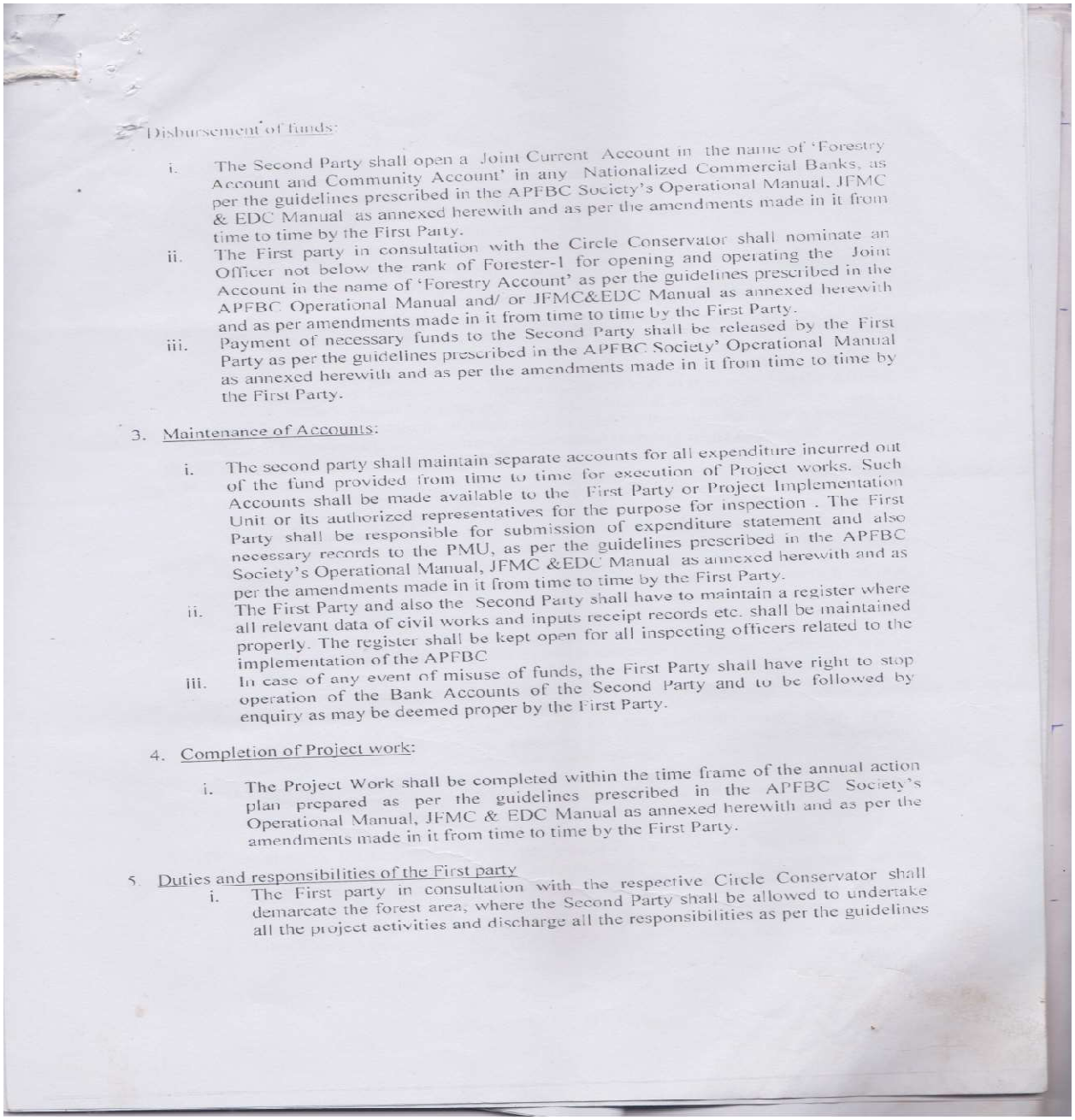
a. Name of the Joint Forest Management Committee Singlo JFMC
b. District :- Sivasagar,
c. Division:- Sivasagar.
d. Range :- Sonari
e. Section —
f. Beat —
g. Block, Compartment No:—
h. Area(Ha) – 20Ha.
i. Boundary :

North Village
South Abhoypur R.F.
East Abhoypur R.F.
West Abhoypur R.F

j. Pictorial Map showing JFMC area (not to scale)

Contd……

MoU / Resolution Certificate



Disbursement of funds:

i. The Second Party shall open a Joint Current Account in the name of 'Forestry Account and Community Account' in any Nationalized Commercial Banks, as per the guidelines prescribed in the APFBC Society's Operational Manual, JFMC & EDC Manual as annexed herewith and as per the amendments made in it from time to time by the First Party.

ii. The First party in consultation with the Circle Conservator shall nominate an Officer not below the rank of Forester-I for opening and operating the Joint Account in the name of 'Forestry Account' as per the guidelines prescribed in the APFBC Operational Manual and/ or JFMC&EDC Manual as annexed herewith and as per amendments made in it from time to time by the First Party.

iii. Payment of necessary funds to the Second Party shall be released by the First Party as per the guidelines prescribed in the APFBC Society' Operational Manual as annexed herewith and as per the amendments made in it from time to time by the First Party.

3. Maintenance of Accounts:

i. The second party shall maintain separate accounts for all expenditure incurred out of the fund provided from time to time for execution of Project works. Such Accounts shall be made available to the First Party or Project Implementation Unit or its authorized representatives for the purpose for inspection . The First Party shall be responsible for submission of expenditure statement and also necessary records to the PMU, as per the guidelines prescribed in the APFBC Society's Operational Manual, JFMC &EDC Manual as annexed herewith and as per the amendments made in it from time to time by the First Party.

ii. The First Party and also the Second Party shall have to maintain a register where all relevant data of civil works and inputs receipt records etc. shall be maintained properly. The register shall be kept open for all inspecting officers related to the implementation of the APFBC

iii. In case of any event of misuse of funds, the First Party shall have right to stop operation of the Bank Accounts of the Second Party and to be followed by enquiry as may be deemed proper by the First Party.

4. Completion of Project work:

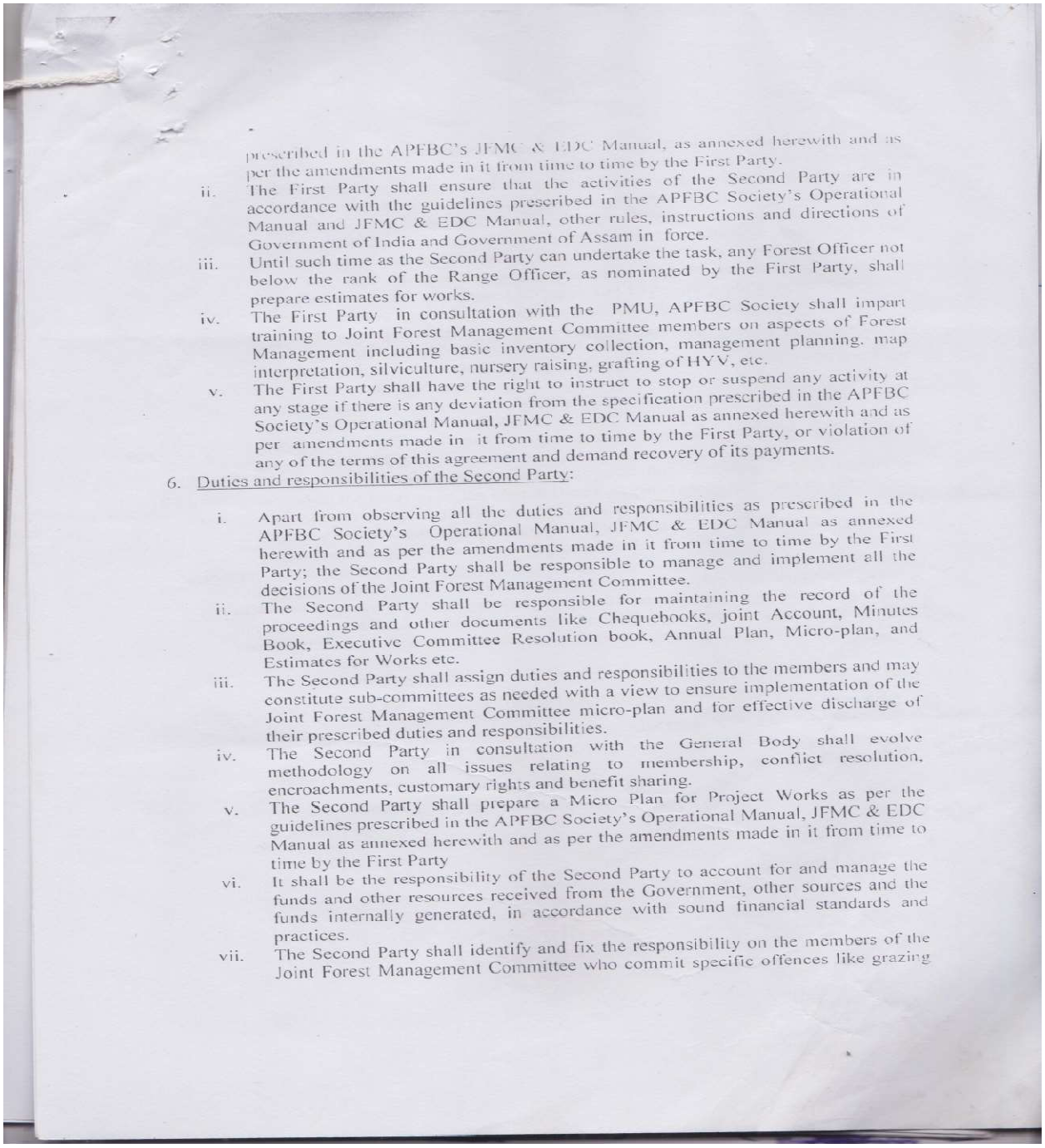
i. The Project Work shall be completed within the time frame of the annual action plan prepared as per the guidelines prescribed in the APFBC Society's Operational Manual, JFMC & EDC Manual as annexed herewith and as per the amendments made in it from time to time by the First Party.

5. Duties and responsibilities of the First party

i. The First party in consultation with the respective Circle Conservator shall demarcate the forest area, where the Second Party shall be allowed to undertake all the project activities and discharge all the responsibilities as per the guidelines

Contd……

MoU / Resolution Certificate



prescribed in the APFBC's JFMC & EDC Manual, as annexed herewith and as per the amendments made in it from time to time by the First Party.

ii. The First Party shall ensure that the activities of the Second Party are in accordance with the guidelines prescribed in the APFBC Society's Operational Manual and JFMC & EDC Manual, other rules, instructions and directions of Government of India and Government of Assam in force.

iii. Until such time as the Second Party can undertake the task, any Forest Officer not below the rank of the Range Officer, as nominated by the First Party, shall prepare estimates for works.

iv. The First Party in consultation with the PMU, APFBC Society shall impart training to Joint Forest Management Committee members on aspects of Forest Management including basic inventory collection, management planning, map interpretation, silviculture, nursery raising, grafting of HYV, etc.

v. The First Party shall have the right to instruct to stop or suspend any activity at any stage if there is any deviation from the specification prescribed in the APFBC Society's Operational Manual, JFMC & EDC Manual as annexed herewith and as per amendments made in it from time to time by the First Party, or violation of any of the terms of this agreement and demand recovery of its payments.

6. Duties and responsibilities of the Second Party:

i. Apart from observing all the duties and responsibilities as prescribed in the APFBC Society's Operational Manual, JFMC & EDC Manual as annexed herewith and as per the amendments made in it from time to time by the First Party; the Second Party shall be responsible to manage and implement all the decisions of the Joint Forest Management Committee.

ii. The Second Party shall be responsible for maintaining the record of the proceedings and other documents like Chequebooks, joint Account, Minutes Book, Executive Committee Resolution book, Annual Plan, Micro-plan, and Estimates for Works etc.

iii. The Second Party shall assign duties and responsibilities to the members and may constitute sub-committees as needed with a view to ensure implementation of the Joint Forest Management Committee micro-plan and for effective discharge of their prescribed duties and responsibilities.

iv. The Second Party in consultation with the General Body shall evolve methodology on all issues relating to membership, conflict resolution, encroachments, customary rights and benefit sharing.

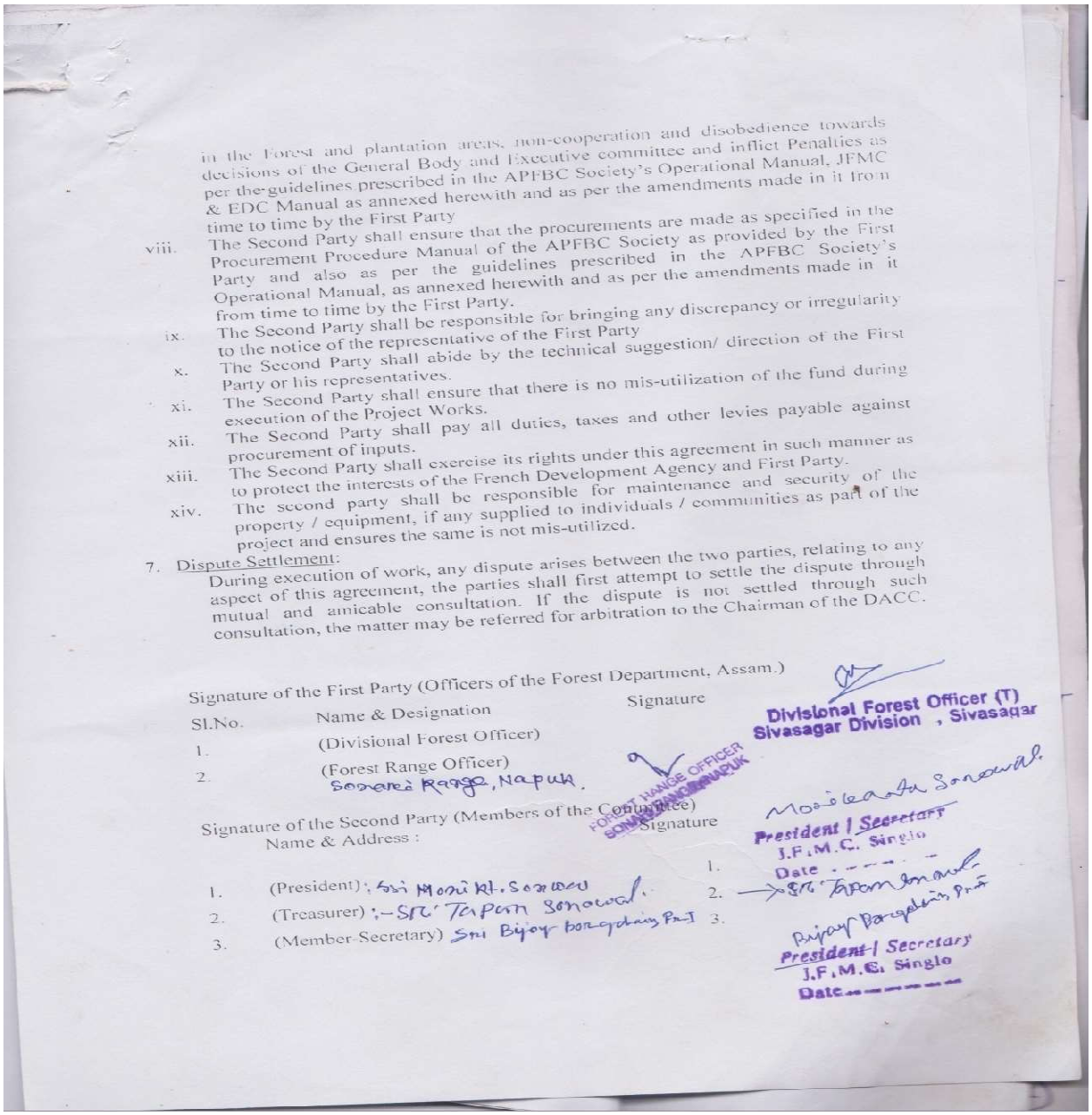
v. The Second Party shall prepare a Micro Plan for Project Works as per the guidelines prescribed in the APFBC Society's Operational Manual, JFMC & EDC Manual as annexed herewith and as per the amendments made in it from time to time by the First Party

vi. It shall be the responsibility of the Second Party to account for and manage the funds and other resources received from the Government, other sources and the funds internally generated, in accordance with sound financial standards and practices.

vii. The Second Party shall identify and fix the responsibility on the members of the Joint Forest Management Committee who commit specific offences like grazing

Contd…….

MoU / Resolution Certificate



in the Forest and plantation areas, non-cooperation and disobedience towards decisions of the General Body and Executive committee and inflict Penalties as per the guidelines prescribed in the APFBC Society's Operational Manual, JFMC & EDC Manual as annexed herewith and as per the amendments made in it from time to time by the First Party

viii. The Second Party shall ensure that the procurements are made as specified in the Procurement Procedure Manual of the APFBC Society as provided by the First Party and also as per the guidelines prescribed in the APFBC Society's Operational Manual, as annexed herewith and as per the amendments made in it from time to time by the First Party.

ix. The Second Party shall be responsible for bringing any discrepancy or irregularity to the notice of the representative of the First Party

x. The Second Party shall abide by the technical suggestion/ direction of the First Party or his representatives.

xi. The Second Party shall ensure that there is no mis-utilization of the fund during execution of the Project Works.

xii. The Second Party shall pay all duties, taxes and other levies payable against procurement of inputs.

xiii. The Second Party shall exercise its rights under this agreement in such manner as to protect the interests of the French Development Agency and First Party.

xiv. The second party shall be responsible for maintenance and security of the property / equipment, if any supplied to individuals / communities as part of the project and ensures the same is not mis-utilized.

7. Dispute Settlement:

During execution of work, any dispute arises between the two parties, relating to any aspect of this agreement, the parties shall first attempt to settle the dispute through mutual and amicable consultation. If the dispute is not settled through such consultation, the matter may be referred for arbitration to the Chairman of the DACC.

Signature of the First Party (Officers of the Forest Department, Assam.)

Sl.No.	Name & Designation	Signature
1.	(Divisional Forest Officer)	Divisional Forest Officer (T) Sivasagar Division , Sivasagar
2.	(Forest Range Officer) Sonari Range, Napuk.	FOREST RANGE OFFICER SONARI RANGE NAPUK

Signature of the Second Party (Members of the Committee)

Name & Address :

1.	(President) :- Sri Moni Kh. Sonowal.	1. Moniram Sonowal. President / Secretary J.F.M.C. Singlo
2.	(Treasurer) :- Sri Tapan Sonowal.	2. Date ..... Sri Tapan Sonowal
3.	(Member-Secretary) Sri Bijoy Bargohain, Pat	3. Bijoy Bargohain, Pat President / Secretary J.F.M.C. Singlo Date .....

APPENDIX–IV

Executive Members of Singlo FJMC

Name	Father Name	Qulification	Age
President - Monikanta Sonowal	Sri mukheswar Sonowal	Nine Pass	33
Secatory - Bijoy Gohain	Lt. Amit Gohain	B A pass	38
Tapon Sonowal	Sri Ghana Sonowal	Nine Pass	40
Hira Sonowal	Lukeswar Hatimuria	Nine Pass	38
Tarun Sonowal	Bhulanath Sonowal	Nine Pass	37
Mamu Sonowal	Nareshwar Sonowal	HSLC Pass	35
Lokhydhor Sonowal	Lt Hada Sonowal	Six Pass	55
Pinku Sonowal	Kula Sonowal	4th class Pass	48
Narayan Sonowal	Lt Tileshwar Sonowal	Eight Pass	38
jatin Sonowal	Lt Harakanta Sonowal	H S Pass	38
Bokul Sonowal	Lt Tanu Sonowal	HSLC PAss	37
Padmeswar Sonowal	Lt Hiteswar Sonowal	Nine Pass	49
Kunjalota Sonowal	Munin Sonowal	HSLC PAss	31
Tulon Sonowal	Kukhol Sonowal	None	32

APPENDIX–V

Executive members group Photo of Singlo JFMC

Name of members from left to right:

I[st] row

1.Monikanta Sonowal (President), 2. Bijoy Gohain (Secretary), 3. Tapon Sonowal, 4. Hira Sonowal, 5. Tarun Sonowal, 6. Mamu Sonowal

IInd row

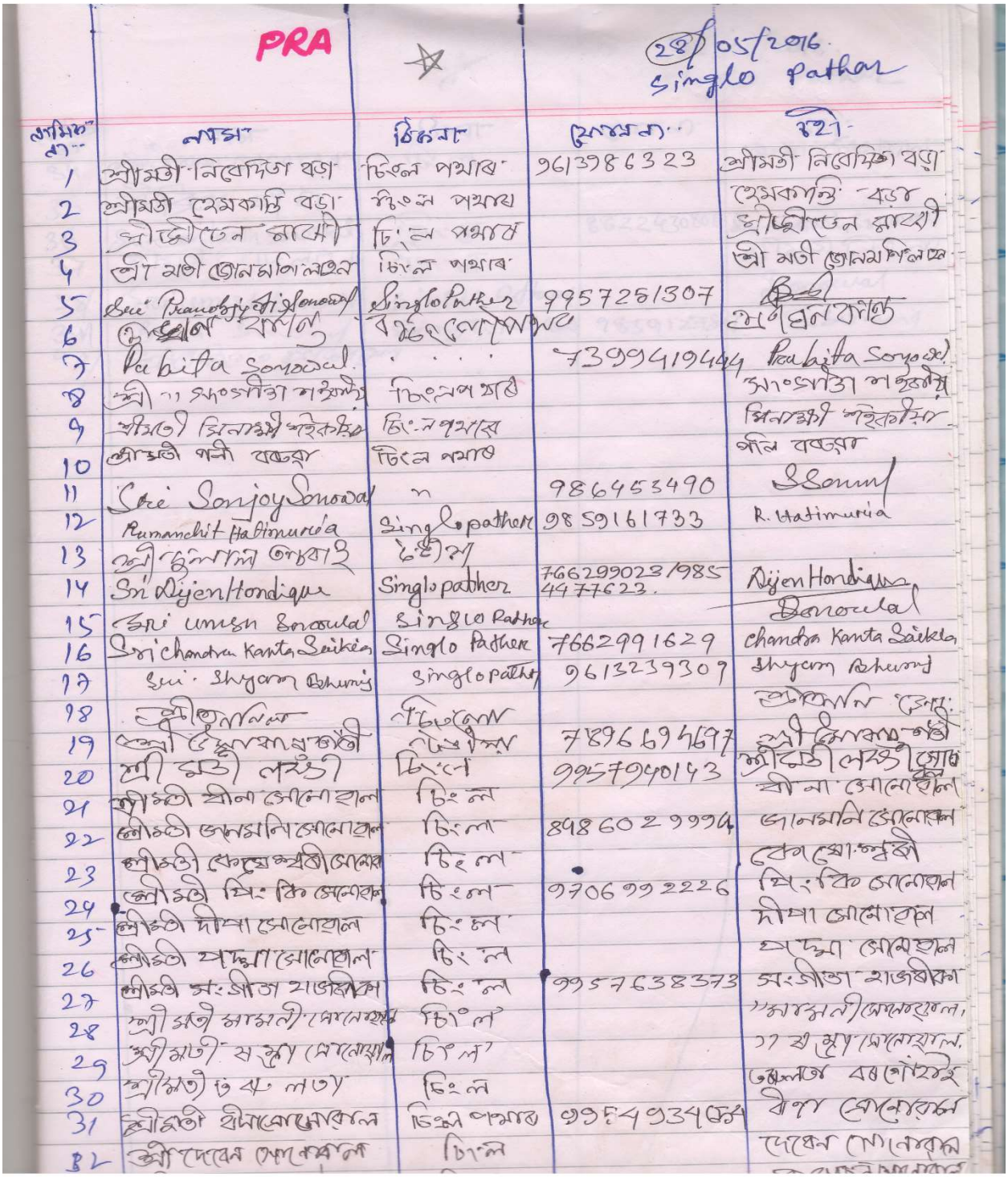
1. Lokhydhar Sonowal, 2. Pinku Sonowal, 3. Narayan Sonowal, 4. Jatin Sonowal, 5. Bokul Sonowal, 6. Padmeswar Sonowal

IIIrd row

1. Kunjalota Sonowal, 2. Tulon Sonowal

APPENDIX–VI (A)

List of members present during PRA



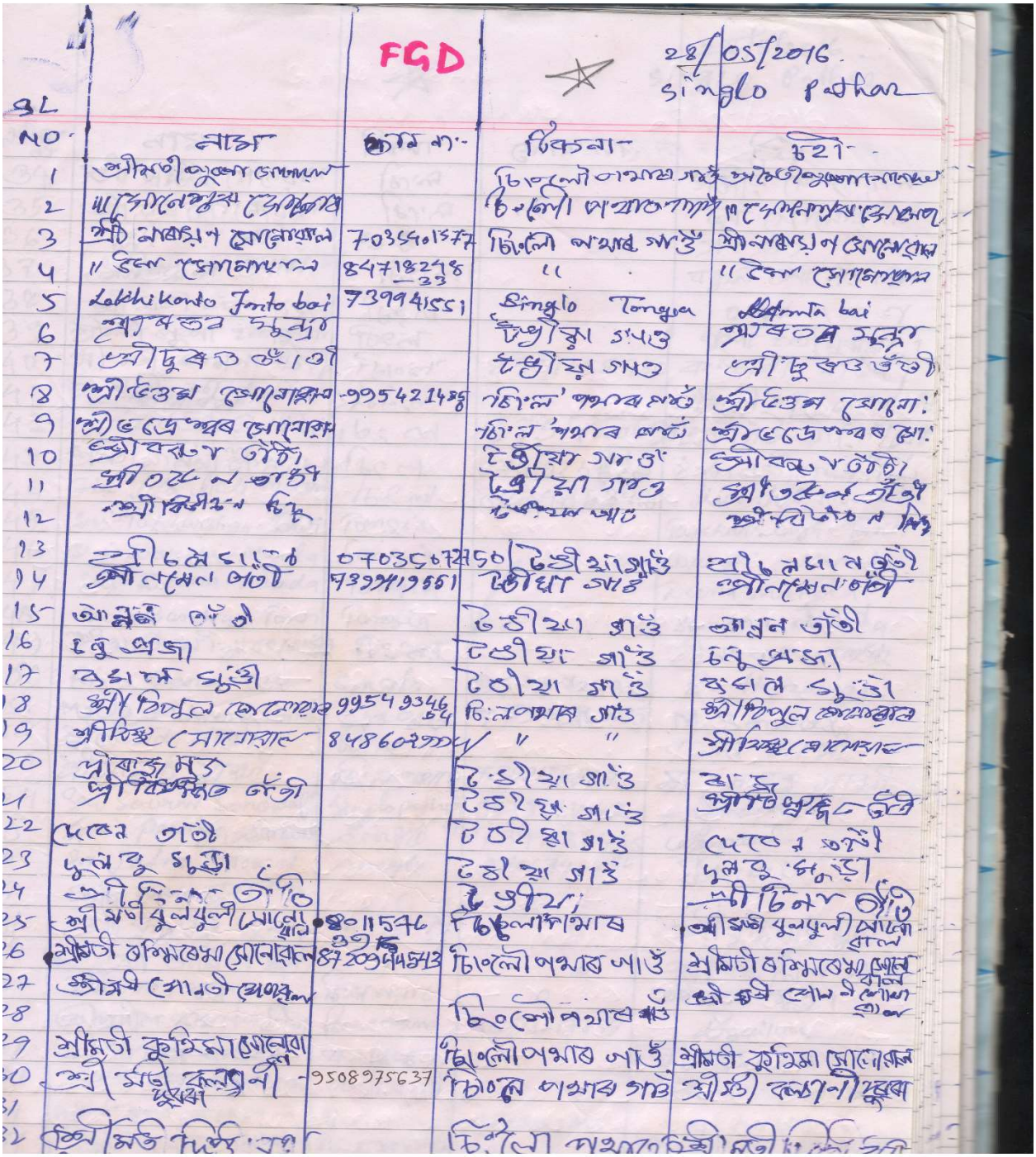
★

28/05/2016.
Singlo Pathar

ক্রমিক নং	নাম	ঠিকনা	ফোন নং	চহী
34	শ্রীমতী রুমা সোনোৱাল	চিংলা		রুমা সোনোৱাল
35	[illegible]			
36	Sri-Santush Sonowal	চিংলা	8822430806	Sri-Santush Sonowal
37	শ্রীমতী নিরুপমা	চিংলা		শ্রীমতী নিরুপমা
38	Sri Umesh Sonowal	Singlo Pathar		Sonowal
39	Siva Sonowal	Singlo Pathar	9859127[illegible]	S. Sonowal
40	[illegible]			

APPENDIX–VI (B)

List of members present during FGD

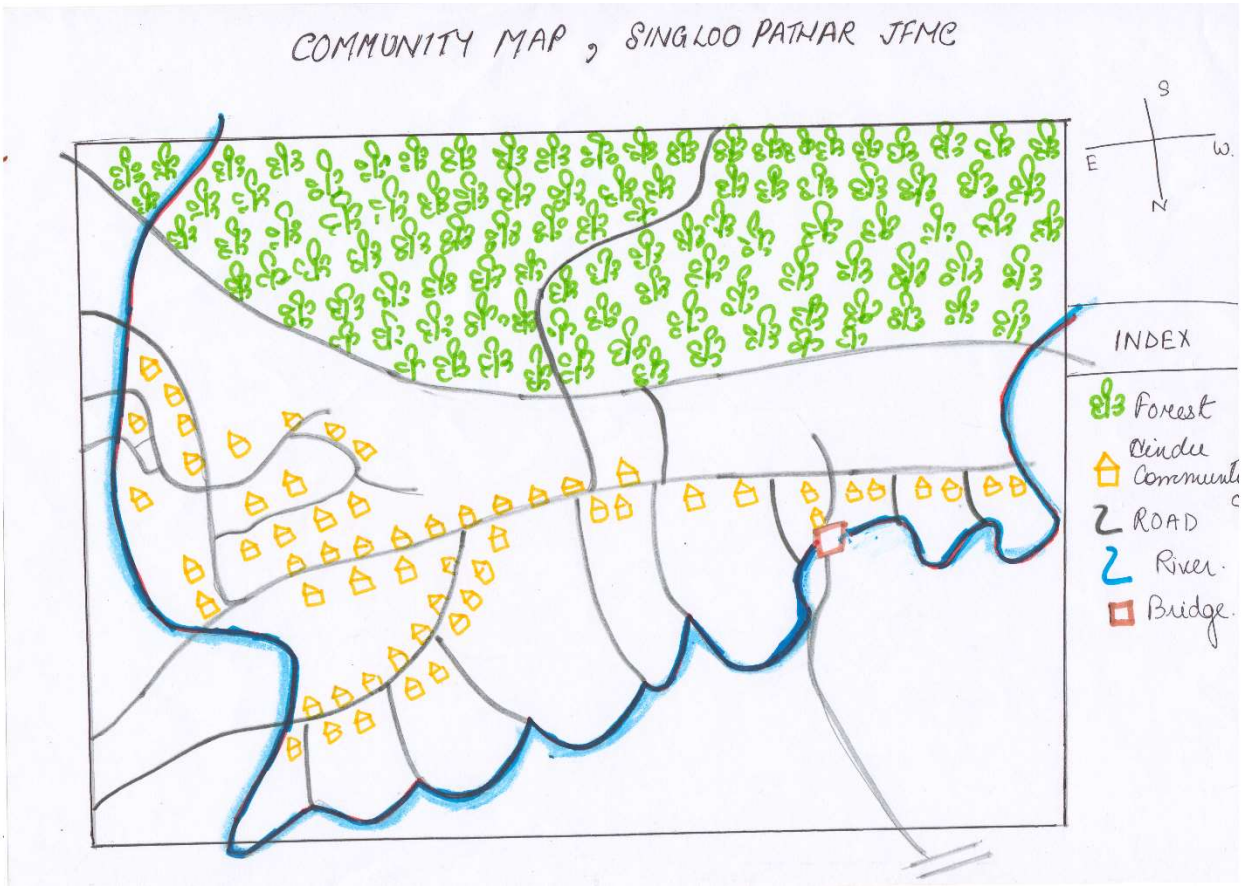


28/5/2016.
Singlo Pathar

ক্রমিক নং	নাম	ঠিকানা	ফোন নং	টীকা
34	শ্রী সঞ্জীব গোলেকাল	ডিংলা		সঞ্জীব গোলেকাল
35	শ্রী দুর্ধ গোলেকাল	ডিংলা		দুর্ধ গোলেকাল
36	স্কুলী সাং সম্ব	[illegible]		সাং সাম্ব
37	শ্রীবিমল আঙ্গোয়াল	ডিংলোং		বিমল আংগোয়াল
38	শ্রীমতী নান্দা নন্দ হেমব্রম	ডিংলা		নন্দা নন্দ হেমব্রম
39	শ্রীমতী পুষ্পা হাঁসদামুরীয়া	ডিংলা		পুষ্পা হাঁসদামুরীয়া
40	শ্রী মতী কল্পনা বাড়ৈরী	ডিংলা	8751058780	কল্পনা বাড়ৈরী
41	শ্রীমতী শান্তনা মুর্মুবাস্কে	ডিংলা		শান্তনা মুর্মুবাস্কে
42	শ্রীমতী মোনালিসা হাঁসদা	ডিংলা	9854206	মোনালিসা হাঁসদা
43	শ্রীমতী মার্টিনা টুডু হাঁসদা	ডিংলা	8751925823	মার্টিনা টুডু হাঁসদা
44	Sri lila Hatimoveria	ডিংলা	8474853488	lila Hatimoveria
45	Sri-Takhursingh-Tanti	Tangia		Takhursingh-Tanti
46	Sri-Darshi-Munda	Tangia		Darshi-Munda
47	Sri-Deena-Munda	Tangia		Deena Munda
48	Sri-Sankar-Tanti	Tangia		Sankar Tanti
49	শ্রীমতী মীনা বর হেমব্রম	ডিংলা		মীনা বর হেমব্রম
50	Rina Hansdak	Singlo	9508727323	R. Hansdak
51	Mrs Monoj Sonowal	Singlo	T8967216255	M Sonowal
52	শ্রীমতোষ মাঝী	ডিংলা		মতোষ মাঝী
53	শ্রীমহেন্দ্র মাঝী	ডিংলা পাথার	7399189399	শ্রী মহেন্দ্র মাঝী
54	Sri Sourov Sonowal	Singlopathar	9678651062	Sonowal
5	Shri Pranjal Sonowal	Singlo	7399184755	Sonowal
6	Sri Jatin Sonowal	Singlo	9706749850	Sonowal
7	শ্রীকৃষ্ণা হেমব্রম			
8	শ্রী কৃষ্ণাই মুর্মু	ডিংলা	0	শ্রীকৃষ্ণাই মুর্মু
9	শ্রী শিবিলা মুর্মু	ডিংলা	0	শ্রী শিবিলা মুর্মু
10	শ্রীজেত মুর্মু	ডিংলা পাথার	0	শ্রীজেত মুর্মু
	শ্রীসুশীল মুরমুকাস্কে	ডিংলাপাথার	9859218455	Susilmu
61	শ্রীমতী রেখা বাস্কে	ডিংলা		শ্রীরঞ্জন বাস্কে
	শ্রীমতী [illegible]	ডিংলা পাথার		[illegible]
11	শ্রীমতী সুমন্ত্র হেমব্রম	ডিংলা পাথার	8812816745	সুমন্ত্র হেমব্রম
7	শ্রীমতী [illegible]	ডিংলা পাথার		[illegible]

APPENDIX- VII (A)

PRA-Community map of Singlo JFMC

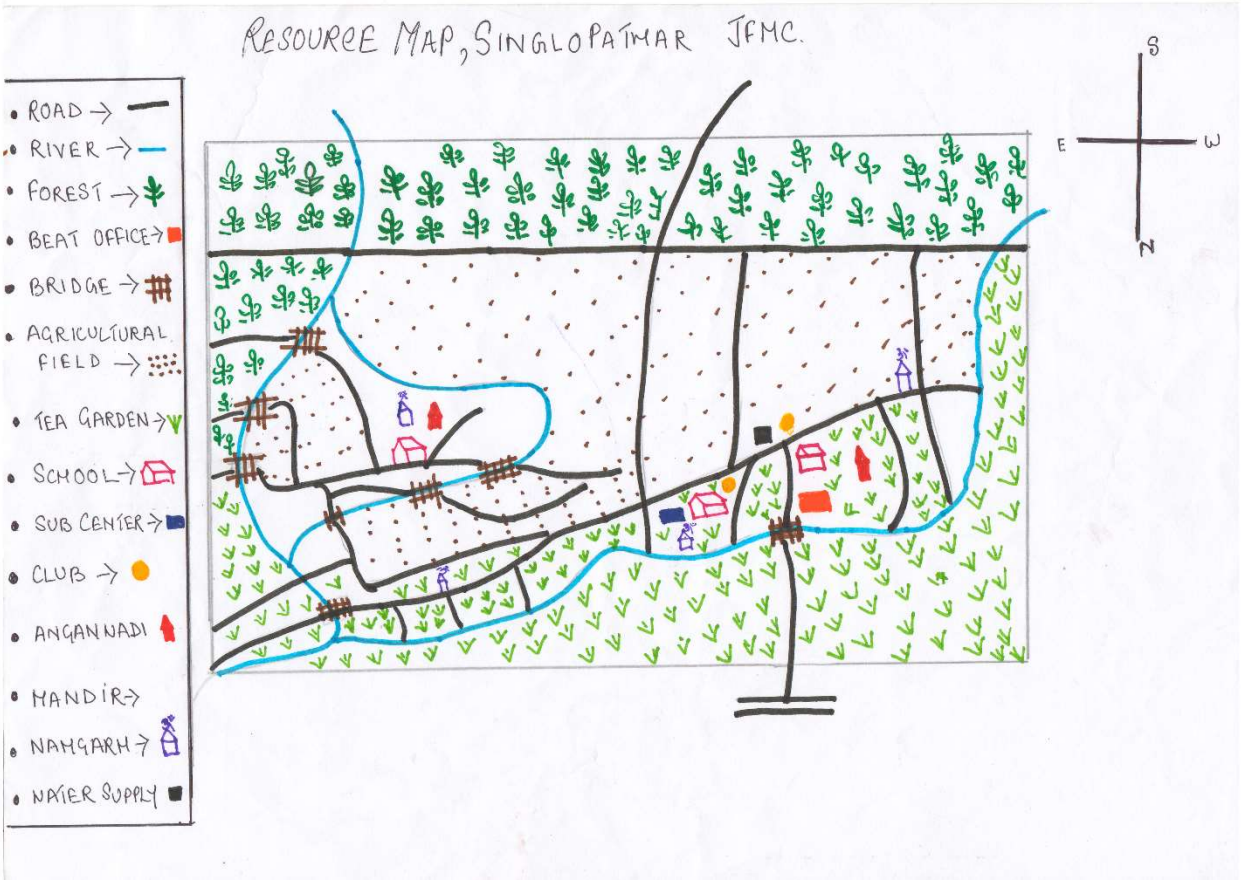


Name of the facilitator

1. Dipukan Kalita, C/O Bharat Kalita (RGVN)
2. Moni Kanta Sonowal, C/OShri Mukheswar Sonwal (President JFMC)
3. Jatin Sonowal, C/O Harikanta Somnwal (Member)
4. Padmashri Sonowal, C/O Hiteshwar Sonwal (Member)

APPENDIX–VII (B)

PRA-Resource map of Singlo JFMC

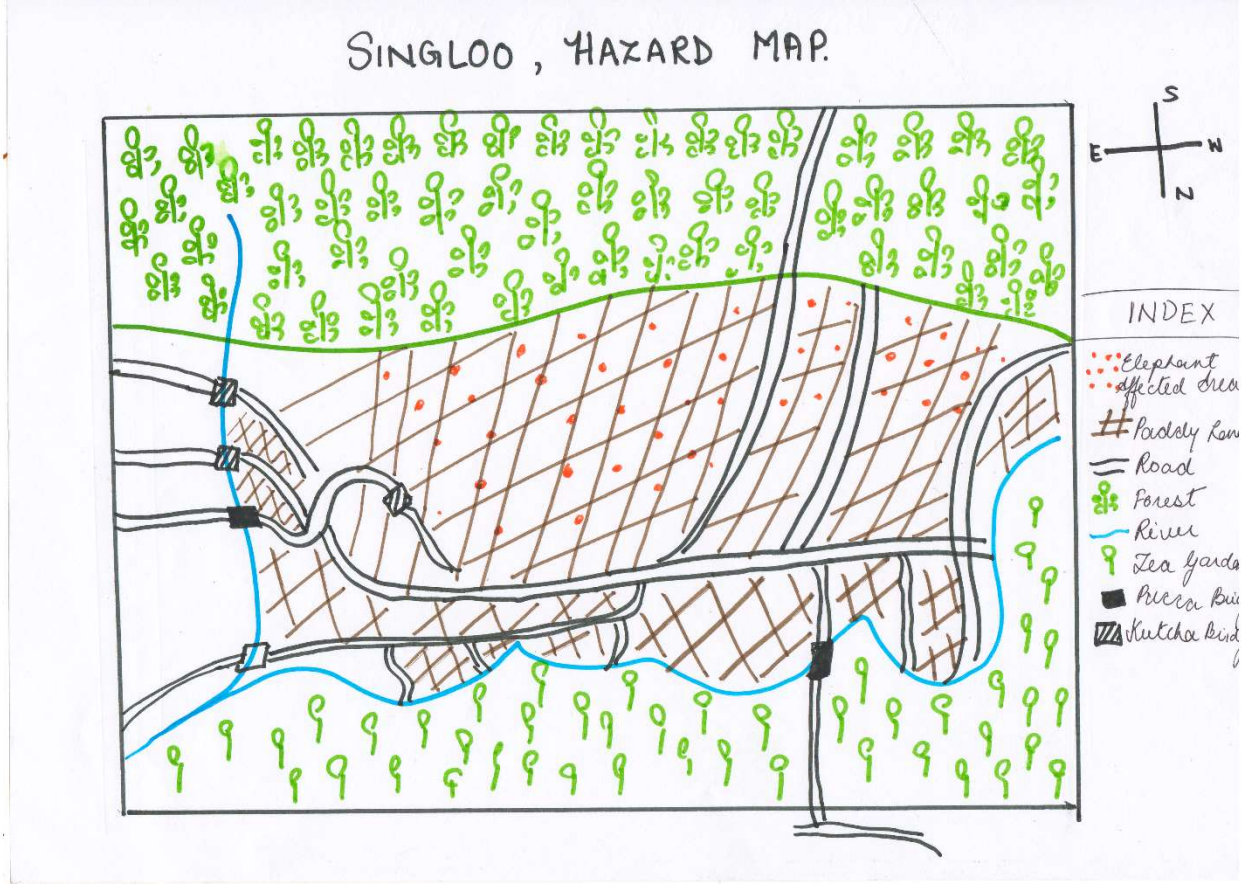


Name of the facilitator

1. Dipukan Kalita, C/O Bharat Kalita (RGVN)
2. Moni Kanta Sonowal, C/OShri Mukheswar Sonwal (President JFMC)
3. Jatin Sonowal, C/O Harikanta Somnwal (Member)
4. Padmashri Sonowal, C/O Hiteshwar Sonwal (Member)

APPENDIX– VII(C)

PRA-Hazard map of Singlo JFMC

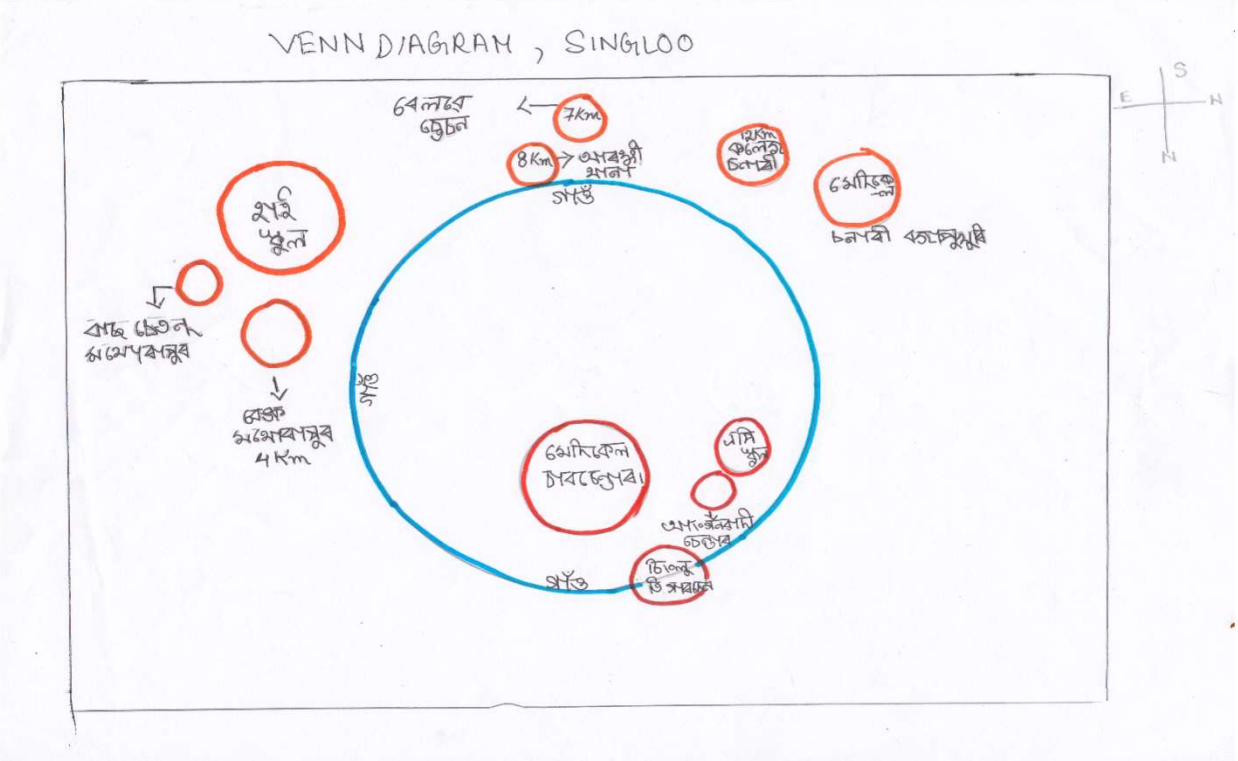


Name of the facilitator

1. Dipukan Kalita, C/O Bharat Kalita (RGVN)
2. Moni Kanta Sonowal, C/OShri Mukheswar Sonwal (President JFMC)
3. Jatin Sonowal, C/O Harikanta Somnwal (Member)
4. Padmashri Sonowal, C/O Hiteshwar Sonwal (Member)

APPENDIX VII (D)

Venn Diagram



Name of the facilitator

1. Dipukan Kalita, C/O Bharat Kalita (RGVN)
2. Moni Kanta Sonowal, C/OShri Mukheswar Sonwal (President JFMC)
3. Jatin Sonowal, C/O Harikanta Somnwal (Member)
4. Padmashri Sonowal, C/O Hiteshwar Sonwal (Member)

APPENDIX–VIII

Entry point activities of Singlo JFMC

Rank	Village EPA as ranked	Details
1	Construction of Road	Need a pakka road from Kachari path to Tangia path (8 km) GPS- N : $26^0$57'30.174" E: 94^0 56' 25.986"
2	Opening of High School	Opening of High School at TangiaChuburi(Right Side of Nabin Munda house)
3	Opening of NatyaMandir	Opening of NatyaMandir attached to Milan JyotiYuvaSangha Size : 100x85 sq ft.
4	Providing a Tent House	Providing a Tent House for the community Location – In front of BitupanSonowal's house
5	Providing Sanitation facilities	Providing Toilet facility to the household
6	Providing Hand Pump	Providing hand pumps to the households
7	Setting up of VeterinaryService Center	Opening of veterinary service near SaniMandir located Borbill Chuburi of Singlo

Divisional Forest Officer,
Sivasagar Division, Sivasagar

APPENDIX–IX (A)

Training list of Singlo JFMC (Proposed)

SINGLO PATHAR JFMC FINAL LIST FOR TARINING

SL NO	NAME	AGE	DEPARTMENT /TRADE/SKILL	QUALIFICATION
1	RUBI SONOWAL (F) H/B. TANKE SONOWAL	24	WEAVING	HS PASSED
2	ARCHANA SONOWAL(f) H/B JATIN SONOWAL	30	TAILORING	IX PASSED
3	KAMALA BORMAN SONOWAL (F) H/B . JITUL SONOWAL	25	TAILORING	HS PASSED
4	KUNJALATA SON OWAL (F) H/B . MONIKANTA SONOWAL	25	TAILORING	HSLC PASSED
5	SONTUSH SONOWAL (M) C/O. SRI PRAFULLA SONOWAL	26	COMPUTER	HS PASSED
6	BONDIP SONOWAL (M) C/O – BITUPON SONOWALK	26	COMPUTER	HS PASSED
7	SANGITA SONOWAL (F) H/B . KANTA SONOWAL	25	TAILORING	IX PASSED
8	MAMONI SONOWAL (F) H/B. BHADRA SONOWAL	26	TAILORING	IX PASSED
9	JAYANTA SONOWAL (M) C/O . SRI TEPURAM SONOWAL	32	POULD	IX PASSED
10	PARMANANDA SONOWAL (M) C/O. SARBA SONOWAL	35	POULD	HSLC PASSED
11	GITIMONI SONOWAL (F) H/B. JAYANTA SONWAL	27	COMPUTER	HS PASSED
12	PRAFULLA SONOWAL (M) C/O . SRI BIDIYADHAR SONOWAL	30	PIGGARY	IX PASSED
13	CHANDRA PROBHA SONOWAL (F) C/O . SRI LUHIRAM SONOWAL	21	COMPUTER	HS PASSED
14	KALPANA BAURI (F) H/B. BABU BAURI	31	TAILORING	IX PASSED
15	GULAPI SONOWAL (F) H/B UMA SONOWAL	34	TAILORING	IX PASSED
16	ANIMA SONOWAL (F) C/O. LT. GRISH SONOWAL	35	WEAVING	IX PASSED
17	RAJIB SONOWAL (M) C/O SRI NILESWAR SONOWAL	35	WEAVING	HS PASSED
18	JYOTI SONOWAL (F) H/B. TIRTHA SONOWAL	38	WEAVING	IX PASSED
19	SONTUSH SONOWAL (M) C/O. PADMESWAR SONOWAL	24	COMPUTER	HS PASSED
20	NARAYAN SONOWAL (M) C/O. LT. TILESWAR SONOWAL	38	PIGGARY	IX PASSED

Moziranba Sonowal
President / Secretary
J.F.M.C. Singlo
Date 6.6.2016

APPENDIX–IX (B)

Training list of Tailoring (Ongoing)

SL NO	NAME OF THE TRAINEE	TRADE
1	SANGITA SONOWAL	TAILORING
2	MAMONI SONOWAL	TAILORING
3	RUBI SONOWAL	TAILORING
4	PUPSA SONOWAL	TAILORING
5	JYOTI SONOWAL	TAILORING
6	TULTUL SONOWAL	TAILORING
7	DEBAJANI SONOWAL	TAILORING
8	NAMITA SONOWAL	TAILORING
9	BORNALI SONOWAL	TAILORING
10	KUNJALATA SONOWAL	TAILORING
11	BHARATI SONOWAL	TAILORING
12	ANIMA SONOWAL	TAILORING
13	BINA SONOWAL	TAILORING
14	CHANDRAPROVA SONOWAL	TAILORING
15	ARCHANA SONOWAL	TAILORING
16	TULIKA SONOWAL	TAILORING
17	TULIKA SONOWAL	TAILORING
18	TUTUKON SONOWAL	TAILORING
19	JUNMONI LAHON	TAILORING
20	RANU SAIKIA	TAILORING
21	SANGITA SONOWAL	TAILORING
22	BINA SONOWAL	TAILORING
23	LAKHI SONOWAL	TAILORING
24	JANMONI SONOWAL	TAILORING
25	JAYA SONOWAL	TAILORING
26	SANGITA SAIKIA	TAILORING

27	SWAPNALI SONOWAL	TAILORING
28	DIMPY SONOWAL	TAILORING
29	AKONI SAIKIA	TAILORING
30	JURI SAIKIA	TAILORING
31	JYOTIKA SONOWAL	TAILORING
32	JANMONI SONOWAL	TAILORING
33	MOMITA MANJHI	TAILORING
34	LINA SONOWAL	TAILORING
35	BHANU SONOWAL	TAILORING
36	SWARNA SONOWAL	TAILORING
37	KALPANA BAURI	TAILORING
38	KRISHNAMONI LAHON	TAILORING
39	DIPA SONOWAL	TAILORING
40	RUMA SONOWAL	TAILORING
41	MINAKHI SONOWAL	TAILORING
42	SWAPNALI SAIKIA	TAILORING
43	NILAKHI SAIKIA	TAILORING
44	RINA HANDIQUE	TAILORING
45	PALLABI BORA	TAILORING
46	MINA BORGOHAIN	TAILORING
47	BANDANA SONOWAL	TAILORING
48	KAMALA SONOWAL	TAILORING
49	DIPA SONOWAL	TAILORING
50	RANU SONOWAL	TAILORING
51	GULAPI SONOWAL	TAILORING
52	MOUNUROMA SONOWAL	TAILORING
53	PADMA SONOWAL	TAILORING
54	ANAMIKA SONOWAL	TAILORING
55	POLI BARUAH	TAILORING
56	PUSPA HATIMURIA	TAILORING

57	TUTUMONI SAIKIA	TAILORING
58	HEMOPROVA SAIKIA	TAILORING
59	DIPALI SAIKIA	TAILORING
60	RINA DOWARAH	TAILORING
61	DEBALOTA SONOWAL	TAILORING
62	SWARNALI SAIKIA	TAILORING

APPENDIX - IX (C)

Training list of Bee keeping (Ongoing)

Sl. No	NAME OF THE TRAINEE	TRADE OF TRAINING
1	NIRMAL SONOWAL	BEE KEEPING
2	TULAN SONOWAL	BEE KEEPING
3	SOURAV SONOWAL	BEE KEEPING
4	DIGANTA LAHON	BEE KEEPING
5	DURLAV SONOWAL	BEE KEEPING
6	PRADIP SAIKIA	BEE KEEPING
7	BHADRA SONOWAL	BEE KEEPING
8	SANJIB SONOWAL	BEE KEEPING
9	PABITRA SONOWAL	BEE KEEPING
10	LILAKANTA SONOWAL	BEE KEEPING
11	BHUGESWAR SONOWAL	BEE KEEPING
12	JAYANTA SONOWAL	BEE KEEPING
13	BABLU SONOWAL	BEE KEEPING
14	DIJEN SONOWAL	BEE KEEPING
15	CHANDRAKANTA SONOWAL	BEE KEEPING
16	TULEN SONOWAL	BEE KEEPING
17	DEBOLATA SONOWAL	BEE KEEPING
18	UMESH SONOWAL	BEE KEEPING
19	PRODIP SAIKIA (1)	BEE KEEPING
20	PRADIP SAIKIA (2)	BEE KEEPING
21	BIPUL SONOWAL	BEE KEEPING
22	MONOJKALPANA BAURI	BEE KEEPING
23	KULESWAR SONOWAL	BEE KEEPING
24	MONIKANTA SONOWAL	BEE KEEPING
25	NABAKANTA SONOWAL	BEE KEEPING
26	TIRTHA SONOWAL	BEE KEEPING
27	ROMEN SONOWAL	BEE KEEPING
28	TULON SONOWAL	BEE KEEPING
29	PADMA SONOWAL	BEE KEEPING

30	NARAYAN SONOWAL	BEE KEEPING
31	BHADESWAR SONOWAL	BEE KEEPING
32	KANTA SONOWAL	BEE KEEPING
33	BRAJEN SONOWAL	BEE KEEPING
34	SIBA SONOWAL	BEE KEEPING
35	BABATU SONOWAL	BEE KEEPING
36	LOKNATH SONOWAL	BEE KEEPING
37	TIRTHA SONOWAL	BEE KEEPING
38	LUCHON SONOWAL	BEE KEEPING
39	NARAYAN SONOWAL	BEE KEEPING
40	SUNESWAR SONOWAL	BEE KEEPING
41	TAPAN SONOWAL	BEE KEEPING
42	KANDURA BORGOHAIN	BEE KEEPING

Divisional Forest Officer,
Sivasagar Division, Sivasagar

APPENDIX–X
Photographs

FGD

PRA

Bettle Nut Plantation

Weaver

Piggery

Awareness Programme

APPENDIX–XI

GPS Coordinates

1. N : $26^0$57'30.174"
2. E: 94^0 56' 25.986"

APPENDIX–XIII

SDP Report

Skill Development Programme at Singlo

A Skill Development Training Programme has been taken up under the **Assam Project on Forests and Biodiversity Conservation (APFBCP),** with financial support from the **French Development Agency (Agence France de Development).** RGVN, a COMPELO partner (Consulting Service for Micro planning Livelihood Opportunities) has conducted skill development programmes in Singlo Pathar.

Name of the Trade	Start Date	End Date	No. of Equipments/ Cost	No. of Trainees	Name of the Master Trainer/ Affiliation
Tailoring	11-08-2016	30-09-2016	5 (Singer Sewing Machines) Rs 29,000/-	62	Sirajuddin Ahmed
Beekeeping	11-08-2016	19-08-2016	42 (Bee Hives, Honey Extractor, Bee Vail, Swarm Catcher given) Rs 90,000/-	42	C.K Udyog Mr. Lila Charan Duttan

Skill Development Program on tailoring and beekeeping was inaugurated at Singlo J.F.M.C on 11th of August, 2016. The programme was inaugurated by Mr.Shantanu Baruah, ACF. Among those present in the meeting included Bijoy Borgohain, Beat Officer, Moni Kanta Sonowal, President, Singlo Pothar JFMC and RGVN officials.

Raw materials provided: 75metres of cotton cloth, 8 measuring tapes, 100 spools of thread, 60 metre cotton cloth, 8 scissors, 6 embroidery frames, bobbins and bobbin cases, 8 design sheets, tables , chairs, tools etc.

PEOPLE'S VOICES-

Bharati Sonowal, a trainee of tailoring expressed her heartfelt thanks to the RGVN team for taking up such skill training programmes which have given them a new and better prospect of earning their livelihood.

Mr. Prodip Saikia, a trainee of beekeeping expressed his happiness saying, through these skills he would be able to harvest honey and bee wax and use them for commercial purpose.

PHOTO GALLERY:

Fig: Trainees at Singlo

Tailoring Training List of SINGLO JFMC

Sl no	Name of the trainee	Trade
1	Sangita sonowal	Tailoring
2	Mamoni sonowal	Tailoring
3	Rubi sonowal	Tailoring
4	Pupsa sonowal	Tailoring
5	Jyoti sonowal	Tailoring
6	Tultul sonowal	Tailoring
7	Debajani sonowal	Tailoring
8	Namita sonowal	Tailoring
9	Bornali sonowal	Tailoring
10	Kunjalata sonowal	Tailoring
11	Bharati sonowal	Tailoring
12	Anima sonowal	Tailoring
13	Bina sonowal	Tailoring
14	Chandraprova sonowal	Tailoring
15	Archana sonowal	Tailoring
16	Tulika sonowal	Tailoring
17	Tulika sonowal	Tailoring
18	Tutukon sonowal	Tailoring
19	Junmoni lahon	Tailoring
20	Ranu saikia	Tailoring
21	Sangita sonowal	Tailoring
22	Bina sonowal	Tailoring
23	Lakhi sonowal	Tailoring
24	Janmoni sonowal	Tailoring
25	Jaya sonowal	Tailoring

26	Sangita saikia	Tailoring
27	Swapnali sonowal	Tailoring
28	Dimpy sonowal	Tailoring
29	Akoni saikia	Tailoring
30	Juri saikia	Tailoring
31	Jyotika sonowal	Tailoring
32	Janmoni sonowal	Tailoring
33	Momita manjhi	Tailoring
34	Lina sonowal	Tailoring
35	Bhanu sonowal	Tailoring
36	Swarna sonowal	Tailoring
37	Kalpana bauri	Tailoring
38	Krishnamoni lahon	Tailoring
39	Dipa sonowal	Tailoring
40	Ruma sonowal	Tailoring
41	Minakhi sonowal	Tailoring
42	Swapnali saikia	Tailoring
43	Nilakhi saikia	Tailoring
44	Rina handique	Tailoring
45	Pallabi bora	Tailoring
46	Mina borgohain	Tailoring
47	Bandana sonowal	Tailoring
48	Kamala sonowal	Tailoring
49	Dipa sonowal	Tailoring
50	Ranu sonowal	Tailoring
51	Gulapi sonowal	Tailoring
52	Mounuroma sonowal	Tailoring
53	Padma sonowal	Tailoring
54	Anamika sonowal	Tailoring
55	Poli baruah	Tailoring

56	Puspa hatimuria	Tailoring
57	Tutumoni saikia	Tailoring
58	Hemoprova saikia	Tailoring
59	Dipali saikia	Tailoring
60	Rina dowarah	Tailoring
61	Debalota sonowal	Tailoring
62	Swarnali saikia	Tailoring

Training list of Beekeeping at Singlo

Sl. No	NAME OF THE TRAINEE	TRADE OF TRAINING
1	NIRMAL SONOWAL	BEE KEEPING
2	TULAN SONOWAL	BEE KEEPING
3	SOURAV SONOWAL	BEE KEEPING
4	DIGANTA LAHON	BEE KEEPING
5	DURLAV SONOWAL	BEE KEEPING
6	PRADIP SAIKIA	BEE KEEPING
7	BHADRA SONOWAL	BEE KEEPING
8	SANJIB SONOWAL	BEE KEEPING
9	PABITRA SONOWAL	BEE KEEPING
10	LILAKANTA SONOWAL	BEE KEEPING
11	BHUGESWAR SONOWAL	BEE KEEPING
12	JAYANTA SONOWAL	BEE KEEPING
13	BABLU SONOWAL	BEE KEEPING
14	DIJEN SONOWAL	BEE KEEPING
15	CHANDRAKANTA SONOWAL	BEE KEEPING
16	TULEN SONOWAL	BEE KEEPING
17	DEBOLATA SONOWAL	BEE KEEPING
18	UMESH SONOWAL	BEE KEEPING
19	PRODIP SAIKIA (1)	BEE KEEPING
20	PRADIP SAIKIA (2)	BEE KEEPING
21	BIPUL SONOWAL	BEE KEEPING
22	MONOJKALPANA BAURI	BEE KEEPING
23	KULESWAR SONOWAL	BEE KEEPING
24	MONIKANTA SONOWAL	BEE KEEPING
25	NABAKANTA SONOWAL	BEE KEEPING
26	TIRTHA SONOWAL	BEE KEEPING
27	ROMEN SONOWAL	BEE KEEPING
28	TULON SONOWAL	BEE KEEPING

29	PADMA SONOWAL	BEE KEEPING
30	NARAYAN SONOWAL	BEE KEEPING
31	BHADESWAR SONOWAL	BEE KEEPING
32	KANTA SONOWAL	BEE KEEPING
33	BRAJEN SONOWAL	BEE KEEPING
34	SIBA SONOWAL	BEE KEEPING
35	BABATU SONOWAL	BEE KEEPING
36	LOKNATH SONOWAL	BEE KEEPING
37	TIRTHA SONOWAL	BEE KEEPING
38	LUCHON SONOWAL	BEE KEEPING
39	NARAYAN SONOWAL	BEE KEEPING
40	SUNESWAR SONOWAL	BEE KEEPING
41	TAPAN SONOWAL	BEE KEEPING
42	KANDURA BORGOHAIN	BEE KEEPING

Sivasagar Division (Singlo JFMC)		
Sl.No	**Amendments Suggested**	**Corrections Done**
1	Village Energy Security Programme (VESP)	Chapter 5
2	National Bamboo Mission	Chapter 5
3	Finances and Budget	Chapter 10

Divisional Forest Officer,
Sivasagar Division, Sivasagar