Government of Tripura Forest Department



2020

Beat Forest Basic Plan Preparation Manual and Templates







Government of Tripura Forest Department



Abstract

Beat Forest Basic Plan

Beat is the lowest administrative unit of forestry in India. Treatments prescribed under working plans in the form of Felling Series/Planting Series etc. are also more or less aligned with the beat jurisdiction. As per the Minutes of Discussion(MoD), the project for Sustainable Catchment Forest Management (SCATFORM) in Tripura shall be implemented beat wise. Beats have already been prioritized for coverage under the Project on basis of i) Forest degradation ii) vulnerability to erosion iii) Prevalence of forest patta holder's iv) Prevalence of poverty v) Dependency of forest.

Definition

The Beat Forest Basic Plan (BFBP) is a comprehensive document prepared at the Beat level for the forest areas of beat selected for implementation of the project. It is prepared as the first document after beat is selected in order to initiate project activities. It is based upon assessment of socio economic conditions, current status of forest, vulnerability to erosion with regard to the tributaries draining the landscape, protection imperatives, potentialities based upon the scientific analysis of satellite imagery on GIS platform as well as working plan prescription for the area. This is essential requirement mandated as per the minutes of Discussion (MoD) signed between JICA, Govt. of Tripura and MoEF& CC on 13th August, 2018 for the project.

As designed the BFBP shall be for 10 years and shall form the basis for all interventions implemented through local Joint Forest Management Committees (JFMCs) as well as Departmental modes. It can be revised as required during the project period. The microplans of JFMC shall be in conformity with the BFBP. As BFBP is based upon scientific assessments of the field condition as well as the working plan prescriptions for the area, BFBP shall fill up the gap between working plan and micro plan and it makes BFBP a unique document in for forest management in India.

Objectives

The objective of BFBP is to identify the potential area, JFMCs, and potential activities at Beat level under the Project scale.

SCATFORM is implemented by JFMC mode, where there is potential to establish JFMC (Except: Filterstrip, Riverbank Plantation and Model III checkdams) and Departmental mode where enhancement of forest quality is needed and JFMC mode is difficult.

BFBP preparation procedure

For the preparation of BFBP, the following process is to be undertaken among project staff.

- PMU will organize a kick-off workshop to prepare the plans with DFOs, SDFOs, ROs and working plan division.
- 2. PMU prepares GIS map data with PPA (Project Priority Area)
- DFO will organize study team comprising SDFOs, ROs/ LCs/COs and BOs of the selected Beats and hold a workshop at DMU on the procedure of preparation of plan.
- 4. DFO will send the GPS coordinates of potential JFMC to PMU.
- PMU will provide forest status data of the surrounding area of the potential JFMC to DFO.
- 6. SDFO will prepare the plan with ROs and BOs.
- District Forest Project Planning Committee will be held (chaired by DFO, SDFO, RO, LC/CO, BO and representative of PMU and Working Plan Division) and approved the BFBP.
- 8. Approved BFBP will be shared with Panchayat Samity /Block Advisory Council (BAC).

Work Steps:

Work steps	Output	Responsibility
Step 1- Identification of Project Priority Area	РРА Мар	GIS cell, PMU
Step 2- Socio economic assessment of potential target villages	Village data	SDFOs, ROs, BOs with the help of LCs/COs
Step 3- Identification of Potential target villages	Potential target village	SDFOs, ROs ,BOs with the help of LCs/COs
Step 4- Identification of Project activities for Potential target villages	Project activities for Potential target villages	SDFOs, ROs ,BOs with the help of LCs/COs
Step 5-Project Planning	Work plan and budget estimate	SDFOs, ROs ,BOs with the help of LCs/COs

- Step 1: Identification of Project Priority Area in the selected Beat includes Map preparation, Grid ranking and Identification of Project Priority Area (as per the Manual P.N.3-5).
- Step 2: Socio economic assessment for potential target villages (as per the Manual P.N.6-7).
- Step 3: Identification of Potential Target Village includes identification of Potential Target villages adjacent to Project Priority Area and village ranking to identify the target villages (as per the Manual P.N.7-8).
- Step 4: Identification of Project activities (as per the Manual P.N.8-10).
- Step 5: Project Planning (as per the Manual P.N.10-11).

Table of Contents

1. Int	roduction	••
2. BF	BP preparation procedure	
	rk steps	
1.1	Step 1: Identification of Project Priority Area (PPA) (Task of GIS cell, PMU)	
A)	Map preparation	. 2
B)	Grid Ranking	4
C)	Identification of Project Priority Area	
1.2	Step 2: Socio-economic assessment for potential target villages	5
1.3	Step 3: Identification of potential target villages	6
A)	Identification of potential target villages adjacent to Project Priority Area (PPA)	6
B)	Village ranking to identify the target villages	7
1.4	Step 4: Identification of project activities for the target villages	7
1.5	Step 5: Project Planning)
A)	Forest management.	1
B)	Soil & Moisture Conservation9	ĺ.
C)	Livelihood development	
D)	Work plan and budget estimate	
Annexure	BFBP Template	

1. Introduction

Beat is the lowest administrative unit of Forestry in India. Treatments prescribed under Working Plans in the form of Felling Series/ Planting Series, etc. are also more or less aligned with the Beat Jurisdiction. As per the Minutes of Discussion (MoD), the Project for Sustainable Catchment Forest management (SCATFORM) in Tripura shall be implemented by Beat wise. Beats have already been prioritized for coverage under the Project on the basis of (i) forest degradation (ii) vulnerability to erosion, (iii) Prevalence of forest patta holder families, (iv) Prevalence of poverty, and (v) Dependency on forests.

Beat Forest Basic Plan - Definition and Purpose

The Beat Forest Basic Plan (BFBP) is a comprehensive document prepared at the Beat level for the forest areas of beat selected for implementation of the project. It is based upon assessment of socio economic conditions, current status of forest, vulnerability to erosion with regard to the tributaries draining the landscape, protection imperatives, potentialities based upon the scientific analysis of satellite imagery on GIS platform as well as working plan prescription for the area. This is essential requirement mandated as per the minutes of Discussion (MoD) signed between JICA, Govt. of Tripura and MoEF& CC on 13th August, 2018 for the project.

As designed, the BFBP shall be for 10 years and shall form the basis for all interventions implemented through local Joint Forest Management Committees (JFMCs) as well as in Departmental modes, and JFMC micro-plans shall be in conformity with the BFBP. As BFBP is based upon a scientific assessment for the field condition as well as the Working Plan prescriptions for the area, BFBP shall fillup the gap between Working Plan and Micro-plan and that's what perhaps makes BFBP an unique and innovative approach in forest management in the country.

Beat Forest Basic Plan (BFBP) is to be prepared for the selected Beats as per socioeconomic and topographical conditions. The objective of BFBP is to identify the potential area, JFMCs, and potential activities at Beat level under the Project scale. The project activities are identified as per forest land potential, socio economic conditions of the villages, and current conditions of existing JFMCs. BFBP is prepared as the first document after Beat is selected in the order to initiate project activities. The period of BFBP is for ten years and can be revised as required during the project period.

The scope of the BFBP includes: 1) Forest Land Assessment, 2) Socio-economic Assessment (including Agroforestry and Forest Practices, SMC, and JFMC), 3) Village selection by Ranking Assessment, and 4) Making Plans.

SCATFORM is implemented by JFM mode wherever there is a potential to establish JFMC (except for Filter Strip, River bank Plantation and model 3 check dams).

The project may be implemented directly by TFD (Department mode) where enhancement of forest quality is needed and JFM mode is difficult. The distance between target area and JFMC villages are considered to introduce Dept mode. (The distance from any village to the target area is further than 3km or severe degradation requires treatment and the distance between 2km-3km will also be considered to be done by the Dept. mode. SCATFORM will work with TFIPAP (JICA Phase 1) JFMC to support livelihood development and cluster formation.

2. BFBP preparation procedure

For the preparation of BFBP, the following process is to be undertaken among project staff.

- PMU will organize a kick-off workshop to prepare the plan with DFOs, SDFOs, ROs, and Working Plan Division.
- 2. PMU prepares GIS map data with Project Priority Area (PPA).
- DFO will organize study teams comprising SDFOs, ROs/LCs/Cos and BOs of the selected beats and hold a workshop at DMU on the procedure of preparation of the plan.
- DFO will send the GPS coordinate of potential JFMC to PMU.
- PMU will provide forest status data of the surrounding area of the potential JFMC to DFO.
- 6. SDFO will prepare the plan with ROs and BOs.
- District Forest Project Planning Committee will be held (chaired by DFO, SDFO, RO, LC/CO, BO, and representatives of PMU and Working Plan Division) and approve the BFBP.
- 8. Approved BFBP will be shared with Panchayat samity/ Block Advisory Council (BAC). Impotent Note:- Most of the present working Plans in Tripura is up to 2021-22. So, BFBP should not be in contravention of working Plan. DFPPC shall ensure that BFBP is in accordance with working Plan and it will be suitably adjusted when next Working Plan will be prepared. Else, even Working Plan officer will suitably adjust the BFBP in Working Plan if required.

3. Work steps

For the preparation of BFBP, the following five steps will be undertaken (Table 1).

Table 1: Overall procedures of Beat Forest Basic Plan Preparation

Work steps	Output	Responsibility
Step 1: Identification of Project Priority Area (PPA)	PPA	GIS cell, PMU
Step 2: Socio-economic assessment for potential target villages	Village data	SDFO RO, BO with help of LC and CO
Step 3: Identification of potential target villages	Potential target villages	SDFO RO, BO with help of LC and CO
Step 4: Identification of project activities for potential target villages	Project Activities planned for Potential target villages	SDFO RO, BO with help of LC and CO
Step 5: Project Planning	Work plan and budget estimate	SDFO RO, BO with help of LC and CO

1.1 Step 1: Identification of Project Priority Area (PPA) (Task of GIS cell, PMU)

Objectives: Identify project priority area (PPA) in the selected beat

A) Map preparation

PMU will prepare the following maps for the beat boundary.

- 1. Forest cover (canopy density) map: 1:25,000 with forest type to show scrub, open, moderately dense forest, and very dense forest based on satellite images.
- 2. Topography map: 1:25,000 with elevation 20m interval
- 3. Slope map: 1:25,000 with slope level, Less than 5%, 5-10%, 10-15%, 15%-20% and >20% based on DEM data.
- 4. Micro watershed map (micro watershed less than 1,000ha with river and tributary) (1:25,000 scale)
- 5. Vegetation map (1:25,000 scale)
- 6. Working plan map (1:25,000 scale)
- 7. Mouja and CS plot map (1:25,000 scale)
- 8. Forest degradation status grid map(Figure 1): 1:25,000 with 10ha grid by ranking of 1-5 based on the percentage of degraded forests (scrub and open forest).

Degradation score table

Canopy density of the grid	Score given
Below 10%	5
10% or more but less than 20%	4
20% or more but less than 30%	3
30% or more but less than 40%	2
40% or more but less than 60%	3517 KL-1 5 1

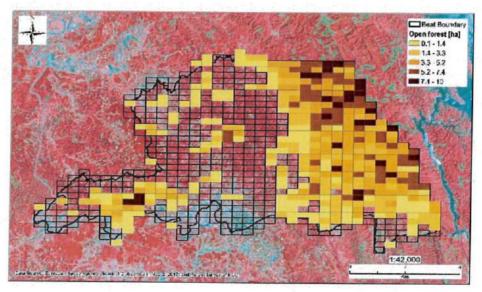


Figure 1: Distribution of Degraded Forest (Open and scrub forests)

(Darker is more degraded forest)

9. Slope status grid map(Figure2): 1:25,000 with 10ha grid by ranking of 1-5 based on the ruling slope.

Slope score table

Ruling Slope in the grid	Score given
20% or more	5
15-20%	4
10% or more but less than 15%	3
10% or more but less than 10%	3
Less than 5%	1

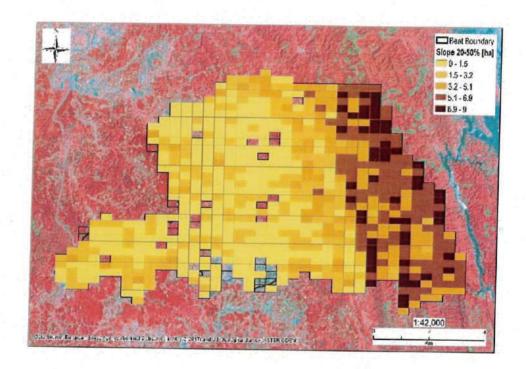


Figure 2: Distribution of Slope (Darker is steeper)

B) Grid Ranking

When 10 ha grids with degradation and slope scores are ready and calculate combined scores for the 10ha grids by the sum of the degradation score and slope scores. It makes the 10 ha grids to be ranked between 1-10 scores.

Combined score by the sum of degradation score and slope score (an example)

Grid Number	Degradation score	Slope Score	Combined Score
A1	5	4	9
A2			
A3			
B1			
B2			

C. Identification of Project Priority Area

Identification of Project Priority Area (PPA): Classify the 10 ha grids by combined scores. Identify the area with cluster of high combined score. The identified area is Project Priority Area (PPA) for the Beat (PPA grid map: Figure 3). PPA has a feature of larger area with degraded forests on slope in the beat.

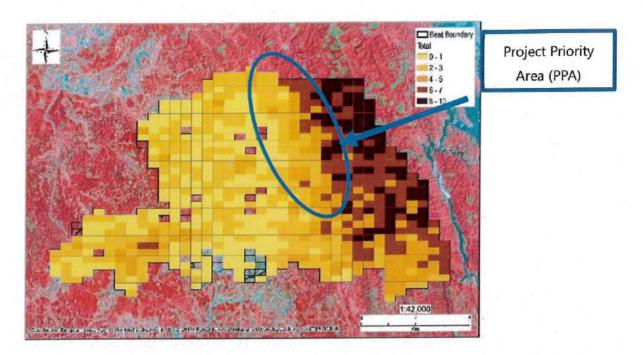


Figure 3: Distribution of Project Priority Area (PPA)

1.2 Step 2: Socio-economic assessment for potential target villages

Objective: Collect socio-economic and forest related data for potential target villages.

In order to identify potential target villages, socio-economic data needs to be collected by village wise in the selected beat.

- Team headed by Beat Officer collects GP/VC Data on demography, economic activities, geo-spatial information, Working Plan data/ summary of prescription for the Beat, Agro-ecology, vegetation and plantation as well as existing JFMC & activities. Details given at Format 1, 2,5,6,7.
- ② BO with the help of LC/CO interviewed JFMC leaders/ village heads in the Beat and collected the data some more data for triangulation. Details given at Format 3, 4, 8, 9.

Baseline data collection

Beat officers (with a help of LC, CO) will collect beat data from Gram Panchayat, Tribal Welfare Department, etc.

General socio-economic information of the villages in the beat

- ✓ Demography by village (male/female, caste wise, BPL, ROFR, etc.)
- ✓ Economic activities: (occupation and number of person engaged, number of HHs main income from casual labour, monthly income less than 5k)
- Mouja, number and area of CS plot in Mouja, number and area of ROFR lands in the CS plot

- Agro-ecology, vegetation and plantations (rainfall, irrigation, jhum cultivation area)

 Beat officers (with a help of GIS cell PMU) will collect forest related data from TFD.
- Geo-spatial information (Beat location, beat area, forest area and type, river and tributary, etc.)
- ✓ Forest compartment and Working plan prescription for each working plan circle
- Existing JFMC and activities: (Type (FDA and TFIPAP), micro plans for each JFMC, villages, number of members, area, species planted. Plantation, SMC scheme undertaken in the past)

JFMC/Village survey

Beat officers (with a help of LC, CO) will have interviews with JFMC leaders (or village heads) in the area covering large Project Priority Area (PPA).

Collected data include:

- General information of the village
- Economic activities (number of HHs main income from casual labour, monthly income less than Rs 5,000/-)
- Agricultural activities
- Dependency of villagers on forest (income from NTFP)
- RoFR land distribution (number of RoFR land holders and area of RoFR lands by CS plot)
- JFMC (Basic data) (member, area, plantations (type AR, ANR, year, area, and performance), SMC (model, status), SHGs (activities, members, performance)
- For new JFMC where village cannot be clearly identified, groups of hamlets can be considered as a village.
- Willingness to participate in SCATFORM

1.3 Step 3: Identification of potential target villages

A) Identification of potential target villages adjacent to Project Priority Area (PPA)

Objective: Identify the Potential target villages by analyzing PPA covering area in the vicinity of villages.

Potential target villages (or a group of hamlets) are identified based on the area covering PPA. The villages (or a group of hamlets) with maximum populations located adjacent to larger cluster of PPA (with larger degraded forests on slope) will be selected as candidates by analysing the area of PPA within the 3km circle from the centre of villages (Figure 4).

Name Total Value Village A 68,509 Village B 67,634 Village B 67,634 Village B 7,634 Village B 7,634

12. Comparisons of values between villages

Remark: Village A has higher value than village B; therefore village A will be selected.

Figure 4: Project Priority Area (PPA) with potential target village (3km circle from the centre of the village)

B) Village ranking to identify the target villages

Objective: assess villages as per RoFR, poverty level, forest degradation and slope status.

For the potential target villages, calculate RoFR indicator (% of number of RoFR land holders), and poverty (% of number of HHs main income from casual labor in total population) and obtain the data of the percentage of degraded forest and slope from GIS cell of PMU.

Ranks the village based on the following five indicators (Table 2). Exclude the village if villagers are not willing to participate in SCATFORM.

- 1. Forest degradation (% of open and scrub forests in the forest lands)
- 2. Risk of soil erosion (% of area under slope level 15-20% and >20%)
- 3. RoFR indicator (% of number of RoFR land holders in the total village population)
- 4. Poverty (% of number of HHs main income from casual labour in total village population)
- Willingness to participate in SCATFORM

Select the highest ranked villages from NAP or New (No JFMC were existent). TFIPAP JFMC will not be selected for major project activities (forest management/Soil moisture conservation/livelihood development), but they can join SCATFORM for capacity development and cluster formation.

Table 2: Result of JFMC Ranking Assessment, BFBP Belbari Beat

JFMC/ village name	JFMC Type	%RoFR/ Total HHs	% major income from casual labor /Total pop.	% of degraded forest in 3km radius	% of slope in 3km radius	Total score	Willingness to participate in SCATFORM	Rank
Gangia Twisa	NAP	72	80	59	18	22 9	Y	1
East Belbari	NAP	50	75	54	16	19 5	Y	2
Dhupatila Twisa	TFIPA P	55	65	48	19	18 7	Y	3
Gayacharan Para (New Proposed JFMC)	None	41	83	38	20	18 2	Y	4

JFMC Type: TFIPAP, NAP or None (which will be formed as new JFMC)

1.4 Step 4: Identification of project activities for the target villages

Objectives: Assess the status of forest lands to identify project activities in the potential target villages

For each potential target village (JFMC), the status of forest will be assessed in the area of 3km circle from the center of village. PPA 10 ha grid as well as other degraded forest area within the 3km circle will be assessed by field survey to identify the area and type of project activities (forest management and soil moisture conservation activities) (Figure 5). The status of forest can also be checked by Google Earth.

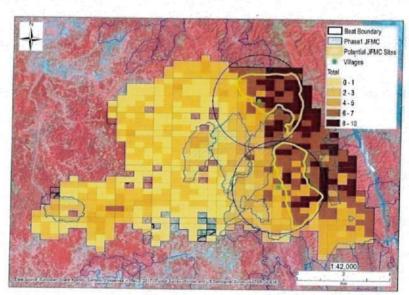


Figure 6: Target villages with potential plantation activity area with 10 ha grid

For each PPA grid, status of slope and forest status can be seen by typing the map (Figure 6). Project activities will be identified by the current forest status (Table 3).

Table 3: Forest status and potential project activities

Current forest status	Project activities	Map used
Scrub forest (tree canopy cover<10%)	Assisted Regeneration (AR)	Forest cover canopy density map
Open forest (tree canopy cover 10- 40%)	Assisted Natural Regeneration (ANR)	Forest cover canopy density map
Degraded teak plantation(majority of trees are teak but original stems are not maintained (only coppice growth)	Teak plantation management	Forest cover canopy density map Vegetation map Working plan
Livestock dense area	Silvipastoral plantation	
Denuded/degraded steep slope area along rivers	Riverbank plantation Filter strip	River map, slope map, vegetation map

Figure 6: PPA Grid data

FID	116
ld	0
Area	10
Label	55701
Distance	312.872967
Sum_of_max	120
Sum_of_min	89
DIFF	31
Slope_Per	9.908175
SCORE_Elev	2
Label_1	55701
MODERATE_D	0
NON_FOREST	0
OPEN_FORES	0
VERY_DENSE	13.155727
MDF_Per_55	0
VDF_Per_85	11.182368
OF_Per_25_	0
SUMtotal	11.182368
Percentage	111.823682
SCORE_ISFR	5 .
Total_Scor	7

In BFBP, potential location of check dams and soil conservation measures in PPA are identified based on GIS analysis and field survey. The location of SMC facilities shall be in JFMC area. The actual location will be decided by JFMC for their purposes. The following criteria will be used (Table 4)

Table 4: Soil and Moisture Conservation schemes and selection criteria

Application	oplication Criteria	
Location of check dams	Size of Micro catchment, slope, and topography Storage Vegetation and human use of bank Willingness of community Potential of economic activities (fishery, irrigation, etc.)	Micro watershed map, slope map
Contour trench and other plantation around the check dam	Slope and size of watershed in upper side of check dam	Micro watershed map, slope map

1.5 Step 5: Project Planning

Interventions proposed under BFBP shall be on the basic of an in-depth analysis of (a) Socio-economic needs of the local community, (b) Site potential and (c) Working Plan prescription. Potential target villages and project activities are identified. However, they may be too large for SCATFORM. We need to adjust the scale of project activities according to the budget. Project scale (size, number, etc.) of each component are provided by the following way.

A) Forest management

Size of target area for each plantation scheme in the selected beat will be calculated by the average of project target area for each scheme (Table 5).

Table 5: Average size of plantation activities per beat

Plantation scheme	Project target area (ha)	Average size per JFMC(ha)	Project period	
Afforestation (AR)	5,000	12	<u></u>	
Assisted Natural	21,000	50	5 years	
Regeneration (ANR)		00	5 years	
Teak plantation	15,000	35	2 ***	
management	ad the Europe		3 years	
Silvipastoral	1,000	2.4	1 mare	
plantation		TATE OF BUILDING A DATE.	4 years	
Filter stripe/riverbank	100 km	740m per beat	1 ****	
plantation		Deat	4 years	

B) Soil & Moisture Conservation

Number of soil and moisture conservation measures for each JFMC is summarized in Table 6.

Table 6: Number of soil and moisture conservation measures for each JFMC

Item	Purpose	Quantity/JFMC
Check dam	Water conservation, domestic water use, fishery and irrigation	Model 1: 2 dams Model 3: 0.2 dams
Brushwood check dam	Erosion protection in gullies	
Contour trench	Erosion protection on hillsides	3 dams on average 2 ha per Model 1 and
Mulching and plantation around the SMC structures		brushwood check dam 2 ha per check dam and brushwood check dam

C) Livelihood development

Livelihood development scheme will be decided several conditions. The following things are considered.

 The performance of ongoing livelihood development activities by TFIPAP SHGs are assessed by the JFMC leader interviews and ideas of potential LD activities are identified. Grouping of TFIPAP SHGs engaged in NTFP processing (e.g. Broom grass) will be elaborated to form clusters.

- Revolving fund will be provided to SHGs in new JFMCs (100,000 INR per SHG).
- Livelihood development activities in TFIPAP SHGs will be supported by follow-up trainings.
- CCFC or Mini CCFC established in TFIPAP will be reviewed. GPS coordinate will be taken and SHGs exist within 10km radius from CCFC or Mini CCFC will be identified to form cluster in the future.

D) Work plan and budget estimate

Work plan and estimated budget will be described in the tables (Form 10-7).

Annexure BFBP Template

Government of Tripura Tripura Forest Department

Beat Forest Basic Plan (for the period: Year 1 to Year 2) for

	Beat
Range:	
Forest sub-division:	
District:	



Project for Sustainable Catchment Forest Management in Tripura (Tripura JICA Project)

Contents

	Contents	Page
Summa	ку	
Introduc	ction	14
Part I	Current Status	15
	Socio-economic Profile of the Beat area:	15
	General information	
L. P.A.	Socio-economic information	
	Village information	
	Forest Land in the Beat area:	16
	Geo special and physical information	
	Working Plan information	
	Forest and Agriculture practices	
	Soil and Moisture conservation practices	
	Existing JFMC/CCFC information	
Part II	Results of analysis	21
	Project Priority Area (PPA)	
	Socio-economic analysis	
	JFMC assessment	
	JFMC ranking assessment	
Part III	The Plan	22
	Project target	
	Forest Management	
	Soil & Moisture Conservation	
	Livelihood development	
	Other activities (Convergence)	
	Work plan and budget	
Annexur		26
	Maps	
	Photographs	

Introduction

Beat Forest Basic Plan (BFBP) is to be prepared for the selected beats as per socioeconomic and topographical conditions. The objective of BFBP is to identify the potential area, JFMCs, and potential activities at Beat level under the Project scale. The project activities are identified as per forest land potential, socio economic conditions of the villages, and current conditions of existing JFMCs. BFBP is prepared as the first document after beat is selected in order to initiate project activities. The period of BFBP is for ten years and can be revised as required during the project period.

The Scope of the BFBP includes: 1) Identification of Project Priority Area (PPA), 2) Socio-economic Assessment for potential target villages, 3) Identification of potential target villages, 4) Identification of project activities in the target villages, and 5) Project Planning.

Part-I: Current Status

A. Socio-economic Profile of the Beat

Format 1: General information

Format 1-1: General information

Sl.No.	Item	Contents
1	Name of the District	
2	Subdivision	
3	Block (RD)	
4	Range	
5	Beat	
6	Panchayat	
7	No. of villages	
8	ADC area	Yes or No
9	Regroup villages (No.)	

Format 1-2: Existing JFMCs

1	Existing JFMCs formed by TFIPAP	Members	Area (ha)
	1		
	2		
	3		
2	Existing JFMCs formed by other scheme		
7	1		
	2		
	3		

Format 2: Demography

Category/social class	SC	ST	General	ОВС	Total
Total household					
Total population					
ROFR Holders					
Shifting cultivators		erg Bull in 1942	Design of 1-1	Tari e II	
Total male		11.75		E 215 A 5	
Total female					

Format 3: Socio-economic information

Socio-economic information					
SN	Subject				
1	Name of ST group	1	2	3	4
2	Main livelihood measures	1	2	3	
3	Other livelihood measures	1	2	3	
4	Main income sources	1	2	3	
5	Minor income sources	1	2	3	
6	Average income	Per month per household			
7	Main market and distance	Name		Distance (km)	

Format 4: Village information

SN	Name of village	Village 1	Village 2	Village 3	Village 4
1	Total Population				Bar Bill
2	Male				
3	Female				
4	Caste wise population HH. No.			4.5 5. 3	THE PARTY OF THE
	SC				F 2.0 F A S
	ST total				Friday (gr
	Ethnic Group 1				
	Ethnic Group 2				
18	Ethnic Group 3	4.35.00			W. F. S. E. H.
	Ethnic Group 4				
	General				
	OBC				
5	HH No. ROFR holders				
6	HH No. engaging in shifting cultivation				
7	Main livelihood measures 1	of the series	Siding Person		1 30 Page 1
A TO	2		32171717	8 / 10 - 10 - 1	
	3				
8	Other livelihood measures				
9	Main income sources				
	2		The property of		
Y.A.	3		+ 67 (e - X - X - X		4
10	Minor income sources			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
11	Average income Per month per household				
12	Main market and distance Name Distance (km)				
13	Number of live stock				
	Cattle		Market State	Maria Para	11-6-17-16
4	Buffalo		13 4, 1.21		
	Goats		4	5,500	
- 1	Pig				

B. Forest Land in the Beat area:

Format 5: Geo-spatial & Physical information about the Beat

Format 5-1: General information

SN	Item	Contents
1	Beat Office Location	
	Latitude	
	Longitude	
2	Area of beat (ha)	
	Forest Area (ha)	

4 Legal Forest Category	
Reserve Forests (ha)	the many last of the second contract the second
Protected Forests (ha)	
Unclassified Government Forests (ha)	
4 Forest areas by canopy cover	
Scrub forest (ha)	
Open Forest (ha)	
Moderately Dense Forest (ha)	
Very Dense Forest (ha)	

Format 5-2: Vegetation type and area

5	Forest area by Vegetation	Features	Area (ha)
1	Mixed deciduous forest		
2	Bamboo forest		
3	Mixed bamboo forest		
4	Teak plantation		
5	Land under agro-forestry		
6	Area under shifting cultivation (ha)		
7	Fallow land (ha)	27	
8	Rubber plantation (ha)		

Format 5-3: Slope

6	Slope level	Area (ha)	%
	0-5%		
	5-10%		
	10-15%		
275	15-20%		
	>20%		

Format 5-4: River and micro watersheds

7	Main River (if any) Name			
8	Length of the river km (within that beat)			TTT : W 11-1-114-
9	Tributary	Name	Length (km)	Water Availability
Č,				4 1 1 1 1 1
T	2			
	3			
10	Micro watershed (Less than 1000ha) (no)	Name	Area (ha)	Locations
	1			
	2		323273	
	3	T A Line		

Format 6: Working Plan information

Working Circle	Brief prescription	Compartments in the beat	Compartments in the PPA
		4 21 88 8 8 8 8 8	

C. Forest and Agriculture practices

Format 7: Forest and Agriculture practices in the village near forest lands

Format 7-1: Agriculture crops

			Ag	riculture				
Main crop	Location of cultivation ROFR or not	Variety	Seed sowing /kani	Production /kani	Home consumption (quintal)	Rate per quintal	Total amount	Inpu
Kharif crop								
							4 40	
Rabi Crop		Marie 1						

Format 7-2 Livestock position

Livestock	Number	Fodder/feed sources	Products/market
Cattle			The second secon
Buffalo			
Goats			
Pig	-		

Format 7-3 Agroforestry position

Ag	ro forestry models	For the second		70.74
1	Cultivated species under agro-forestry			
_	Production of agro forestry (tons)		G-11-11-11	
3	Sales from agro-forestry (INR/year/crops)	-		
1	Number of households practicing Agro forestry			

Format 7-4 NTFP Position

Species (with parts)	Approximate quantity (Quintal) on Monthly/quarterly/ half-yearly/annually	Season of harvest	Rate (INR)

Format 7-5 Plantation Position

Plantation model	Year	Location	Area (ha)	Fund sources
AR				
AR bamboo				
ANR				
ANR Teak				
ANR bamboo	The state of			
Filter strip (km or ha)				
River bank (km or ha)				
Silvi-pastoral (ha)				
Rubber				
Others if any				

Format 7-6 Nursery position

Name	GPS coordinate	Facility	Production capacity (seedlings per year)

D. Soil and Moisture conservation practices

Format 8: Soil and Moisture conservation practices

l Soil character	
2 Slope	
3 Annual rainfall	
4 Seasonal rainfall by month	
Erosion cases	
Landslide area (ha)and slope%	
Landslide prone area (ha)	
Surface of water body (ha)	

8.1	Existing SMC structure if any	Dimension	Construction Cost	Maintenance cost (if any)	Present condition	Cause of damage (if any)	Protective measures (if any)
	Check dam M1/ M2/M3					(11 11)	(ii dity)
	RCC check dam						
- 3	Gully plugging						
1	Contour trench		33128 22				
	Staggered trench				-		
	Other (if any)	4					

E. Existing JFMC/CCFC information

Format 9-1 List of activities undertaken in Existing IFMCs

Name of JFMC	Type TFIPAP or Non TFIPAP	Year Establishment	Area	Member

Format 9-2 Records and status of plantations, SMC works and livelihood development Name of JFMC $\,$

Plantation	Year Establishment	Area	Status	Support/action required
AR mix				
AR bamboo				
ANR bamboo				
ANR Teak				
SMC	Year Establishment	Number	Status	Support/action required
Model1	13, 14 - 13 A 1			# 1. T = 1
Model 2	E SERVICE SERVICE			
Livelihood agro forestry	Year Establishment	Member	Status (crop, production, sales, etc.)	Support/action required (cluster potential)
Model 1-9				
T: 1:1. 1				
Livelihood SHG	Year Establishment	Member	Status	Support/action required
Broom grass				
Piggery				
Fishery				

Note: Repeat other JFMCs with the same format.

Format 9-3 CCFC and MINI CCFC

Name	Product	Year Establishment	Product	GPS Cordinate	Status

Part-II: Results of analysis

A. Project Priority Area (PPA) and location of village

Figure 1: Open forest with Potential candidate village (3km circle from the centre of the village)

Figure 2: candidate villages with potential JFMC project area with 10 ha grid

B. Micro watershed assessment of PPA

Potential locations of check dams with micro watershed are listed.

C. River assessment

Assessment of vegetation along the river, river curve and other important structure along with the potential site of river bank plantation and filter stripe are described here.

D. JFMC Assessment

Format 10: JFMC Ranking Assessment

JFMC Type*	%ROFR/ Total HHs	% major income from casual labour /Total pop.	% of degraded forest in 3km radius	% of slope in 3km radius	Total score	Willingness to participate in SCATFORM	Rank

JFMC	C Type: T	FIPAP, NA	P or new				
The	highest	ranking	JFMC/	Villages	were	selected:	

A. Project target (Format 10-1)

Mode	Target beneficiary	Priority area	Name of villages	Activity**** AR, ANR TPM, SPP, FS, RBP, LD
JFM	New JFMC	**		KDF, HD
JFM	Existing JFMC*			
Department	None	***		

^{*}TFIPAP JFMCs cannot be selected for SCATFORM implementation (AR, ANR, TPS, SPP, FS, RBP, agro forestry, SHG formation, etc.). TFIPAP JFMC can be included in Training, and cluster development.

B. RoFR Status

CS plot No	Size(ha)	No of ROFR holders	Average size ROFR lands

C. Forest Management (Format 10-2)

Mode JFM/ Dept	Туре	Name of villages/ location (Grid ID)	Area (ha)
JFM	AR		
JFM	ANR		
JFM	TPM		
JFM	SPP		
Dept	FS		
Dept	RBP		

D. Soil & Moisture Conservation (Format 10-3)

Mode JFM/ Dept	Туре	No.	Grid ID	Spec (water retention capacity, catchment areas, etc.)
•	Check dam (Earthen)			etc.)
	Check dam (RCC)		0 4	
	Brushwood check dam			
	Contour trenches			

^{**}Priority locations where new JFMCs can be formed for SCATFORM

^{***}PPAs where JFMCs cannot be formed due to remoteness and/ or inaccessibility and where works have to be taken up in the Departmental Mode.

^{****}AR: Artificial regeneration ANR: Aided Natural Regeneration, TPM: Teak plantation management, SPP: Silvipastoral plantation, FS: Filter Stripe, RBP River Bank Plantation, LD: Livelihood development

Gully Plugging	
Riverside Plantation	
Others	

Remark: Under normal condition, Check dam (RCC) is installed by Department mode and others by JFM mode.

E. Livelihood development (Format 10-4)

JFMC Name	Туре	Potential Livelihood activities
	SCATFORM	
	SCATFORM	
	TFIPAP	
	TFIPAP	
	Others	

Remark: Under normal condition, limited investment, only capacity development activities can be conducted for Phase 1 JFMCs.

F. Cluster development (Format 10-5)

Mini CCFC/CCFC	Product	Potential JFMC/SHG to be included
	derical district	

G. Other activities (Convergence) (Format 10-6)

Dept. Scheme name	Potential activities
MGNREGA	
Irrigation dept.	region of the region and the region of the first product of the first sea. The 1980 of the 1980 of the 1980 of the sea of the 1980 of the
Agriculture dept.	
Rural dev. Dept.	

H. Annual Work Plan &Budget (Format 10-7)

Activity	2020	2021	2022	2023	2024	2025	2026	2027	2028
Mirco planning									
Forest management									
Artificial regeneration (ha)		3				1 19		7.75	
Aided Natural Regeneration(ha)	1 1	50.00				1, 7		3 7 1 1	
Teak plantation management (ha)	- 168		- 5.0		511		19 ₁ 1 - 1		9,00
Silvipastoral platation(ha)				7		7 279		7.70	
Filter stripe (km)				9 45	ST. BE	3 43 1			
River bank plantation (km)	47.44		2.3	- 35	200		74 19		
Soil moisture conservation	The cold							+ 4 1	
Model 1 (No)	10.00					E. Sun			
Model 2(No)		-30.		A 716			77.		
Model 3 (No)						5.38			
Livelihood development									
Agroforestry (ha)									
IGA by SHG, revolving fund (No)									
Budget (INR)	2020	2021	2022	2023	2024	2025	2026	2027	2028
Mirco planning	1					2 - 1	- 1- 1	2 - 1	
Forest management		Value III	7		7 7 7				1 104
Artificial regeneration	1123				1911		15		79.7
Aided Natural Regeneration						4- 5		17.5	
Teak plantation management		4-5-	77 F Sui (1		11111		1 - 1 - 1		
Silvipastoral platation	- 1		150				27.1	-11	77.5
Filter stripe				44.00	200			7.4	
River bank plantation			-	7.7		-			
Soil moisture conservation				Sec. 17	17.	914		708,7	110
Model 1	311515	7.0	7-5-6				and the same		
Model 2					13 10 11				a Van
Model 3		77.3		1971					1
ivelihood development						7.1			
Agroforestry		0 1-1	4.1	4 1 1	4. 14.		4.5		3.35
IGA by SHG, revolving fund				E. 3.	- 1	1.1.			
otal	1-1-1-1			51.4 F 1	1 7 E				3

Part-IV: Maps

I.	Forest Cover Map (canopy density) of Beat (1:25,000 scale)
II.	Topography map with 20m elevation interval of Beat (1:25,000 scale)
III.	Slope Status Grid Map of Beat (1:25,000 scale)
IV.	Forest Degradation Status Grid Map of Beat (1:25,000 scale)
V.	Micro watershed map (with Rivers and tributaries) of Beat (1:25,000 scale)
VI.	Vegetation map of Beat (1:25,000 scale)
VII.	Working plan map of Beat (1:25,000 scale)
VIII.	Mouja and CS plot map of Beat (1:25,000 scale)
IX.	Project Priority Area Grid Map of Beat (1:25,000 scale)
X.	Project Priority Area Grid and location of selected villages of Beat
	(1:25.000 scale)

Design and Published

by
Project Management Unit, SCATFORM Project
Gandhigram, Hatipara, Tripura
Website: jica.tripura.gov.in