# YANG MAO COMMUNE PEOPLE'S COMMITTEE TUL VILLAGE

## 5 YEAR COMMUNITY FOREST MANAGEMENT PLAN 2008 - 2012 TUL VILLAGE



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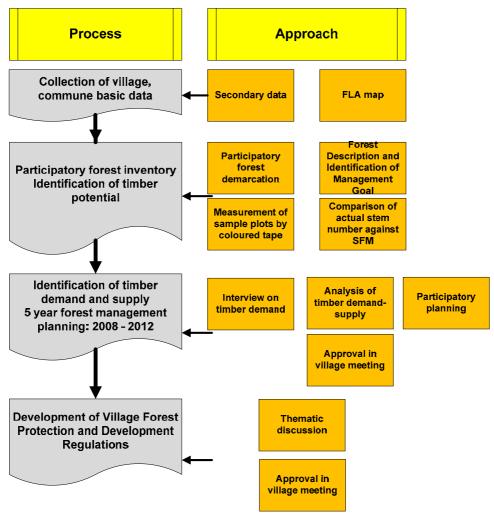
#### 1. Introduction

As continuation of the efforts to identify a practical benefit sharing mechanism in community forest management, Dak Lak PPC has issued a Decision numbered 2010/UBND-NL on 29/5/2008 allowing another pilot on the benefit sharing mechanism at request of DARD in the Official Letter No. 325/SNNNT dated 10/4/2008. Following this decision, on 24/6/2008 Krông Bông PC organized a meeting with relevant sections of the district, province and RDDL representatives to agree on the implementing steps in Tul village, Yang Mao commune.

In this context, trainings on CFM planning and Village Forest Protection & Development Regulations (VFPDR) were organized for Tul village community between 06<sup>th</sup> and 14<sup>th</sup> of July, 2008.

A 5-year community forest management plan was developed for a time period from 2008 – 2012.

The process involved the participatory approach where villagers had chances to participate directly in forest inventory, resource assessment and management planning, stem number measurement with application of coloured tape and sustainable forest model in order to identify the timber potential of forests. The process and approach of CFM planning and VFPDR development is described in the following diagram. (See the work plan in the annexes)



During the planning process, apart from the participation of villagers, it also involved the support of RDDL, DARD and consultant team (PhD. Bảo Huy, PhD. Võ Hùng, Mr. Hoàng

Trọng Khánh) and trainees of the CFM training who came from FDD, Krong Bong district Economic Section, Environment Section, District Forest Protection unit, Yang Mao CPC and Tul Village Forest management Board. (See list of participants in annexes)

#### 2. General situation of Tul village

Tul village is situated in Yang Mao commune of Krông Bông district, Dak lak province. The residential area of the village is close to the commune center. Yang Mao commune is 37 km from the district center to the south-east. The natural area of the commune is 40,172 ha, comprising 11 villages with 8 EM villages.

Tul village has 70 households; 61 households of M'nong ethnics, and 9 Kinh households. There are total 462 persons in the village: 389 male; 173 female. Workforce is 227 persons.

The local villagers practice mainly wet rice cultivation with two crops in a year and other short–rotation crops in addition. The paddy fields



1st village meeting on CFM

are distributed streams nearby the village and some are found on old upland fields. The people have difficult economic situation, highly relying on forests. The knowledge level is low.

The household wealth ranking results in 48 poor households, accounting for 69%. This implies the very poor conditions of local people. Most of poor households have limited farming land. Therefore, forest land allocation and CFM planning would be a good basis to involve the poor households with restricted farming land to forest production and income generation from forestry.

In the village 56 households have electricity, mainly used for living not yet for production.

The irrigation system in the village is concreted.

Drinking water is also a problem for many households, especially in dry season.

#### 3. Objectives of 5 year forest management plan

The forest management plan of Tul village is developed with the objectives defined as follows:

- Support the community to sustainably manage 964 ha of natural forest and forest land
- Protect watershed area
- Provide sustainable supply of forest products and step-wise improvement of livelihood of local villagers.

#### 4. Assessment of forest resource and timber potential in 5 years

#### 4.1 Blocking, naming, local status, management goal, measurement

14 forest blocks in the compartment 1204 are allocated to the community. The blocks are demarcated, labeled with local names, identified their management goals, measured by the villagers themselves. Total area of 14 blocks is 964 ha. These blocks are located in the area earmarked as production forests.

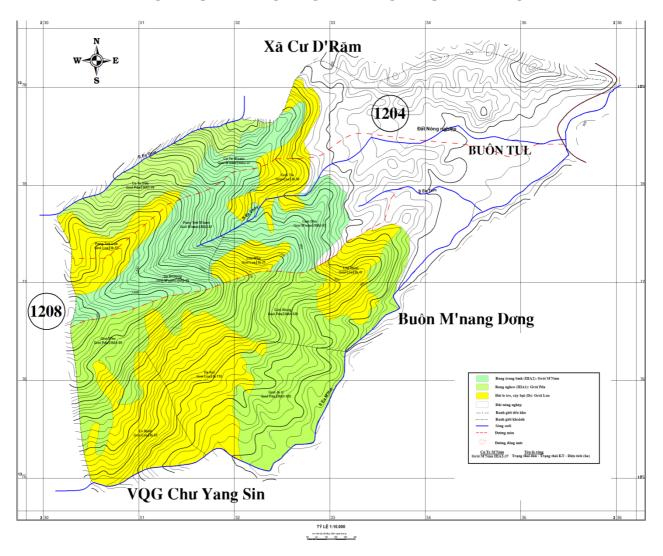
## Area and status of Tul village forests

	Forest st	atus				
No.	Technical	Local	Number of blocks	Area (ha)		
1	Medium - IIIA2	Grôi M'Nâm	4	218		
2	Poor - IIIA1	Grôi Pda	4	378		
3	Brush, bamboo - Ib	Grôi Lơa	6	368		
	Total		14	964		

## Characteristics and management goals of Tul village forests

No	Compart	Local name of	Stat	us	Area	Management	Forest
	ment	block	Technical	Local	(ha)	goal	planning
1		Cư Tê M'nâm	IIIA2	Grôi M'Nâm	37	Big timber and NTFP	
2		Păng Teh M'Nâm	IIIA2	Grôi M'Nâm	67	Big timber and NTFP	
3		Dă M'Diêng	IIIA2	Grôi M'Nâm	49	Big timber and NTFP	
4	1240	Lâm Dhă	IIIA2	Grôi M'Nâm	65	Big timber and NTFP	Production
5		Cư Tê Pda	IIIA1	Grôi Pda	76	Big timber and NTFP	forest
6		Păng Teh Lơa	lb	Grôi Lơa	53	Big timber and NTFP	
7		Grôi Tlă	lb	Grôi Lơa	50	Small and medium-sized timber	
8		Lơa N'Hô	lb	Grôi Lơa	21	Small and medium-sized timber	
9		Grôi N'Hô	IIIA1	Grôi Pda	69	Big timber and NTFP	
10		Grôi Klông	IIIA1	Grôi Pda	128	Big timber and NTFP	
11		Lơa Ktum	lb	Grôi Lơa	47	Small and medium-sized timber	
12		Lỡ Reuh	lb	Grôi Lơa	87	Small and medium-sized timber	
13		Dă Kơi	lb	Grôi Lơa	110	Small and medium-sized timber	
14		Grôi Jơ U	IIIA1	Grôi Pda	105	Watershed protection	
		Total			964		

#### **COMMUNITY FOREST MAP OF TUL VILLAGE**



#### 4.2 Block description

14 blocks are described, with 4 blocks in IIIA2 status (Grôi M'Nâm) including: Cư Tê M'Nâm,



Farmers participate in block description and discussion on management goals

Păng Teh M'Nâm, Dă M'Diêng, Lâm Dhă; 4 blocks in IIIA<sub>1</sub> status (Grôi Pđa): Cư Tê Pđa, Grôi N'Hô, Grôi Klông and Grôi Jơ ũ; 6 blocks in Ic status, with bamboo (Grôi Lơa): Grôi Tlă, Păng Teh Lơa, Lơa N'Hô, Lơa Ktum, Dă Kơi and block of Lỗ Ruch. In parallel with description, problems, opportunities and solutions are also identified for each block. The outcome is presented in the annexes.

#### 4.3 Assessment of timber potential of blocks

Of the total 14 blocks, through discussion, 4 blocks with timber potential in the next 5 years are identified, they are Cu tê M'Nâm, Păng Teh M'Nâm, Dă M'Diêng and Lâm Dha, therefore forest inventory is conducted in these 4 blocks. The participatory inventory method is applied; stem numbers are measured in sample plots with  $500m^2$  each. Farmers are instructed how to measure trees with coloured diameter classes on the basis of sustainable forest model (SFM). This is a basis for identification of tree number in each diameter class per ha and per block to be harvested in the next 5 years.



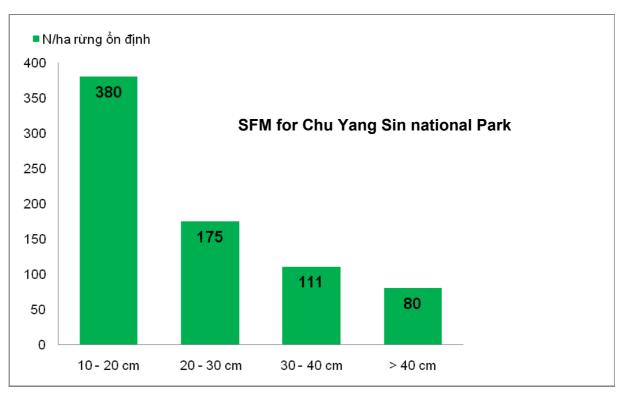
#### Coloured diameter classes

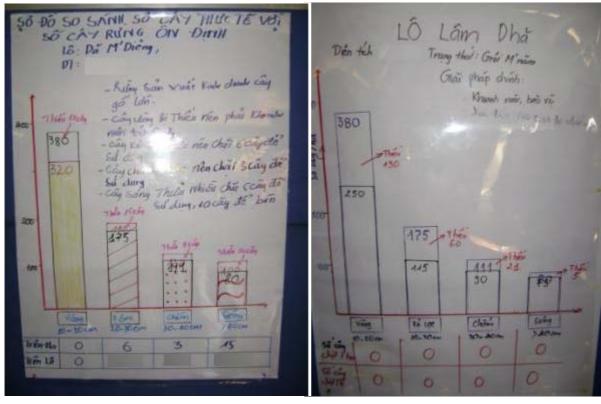
Yellow	Stripes	Dots	Wave
10 - 20cm	21 - 30cm	31 - 40cm	> 40cm

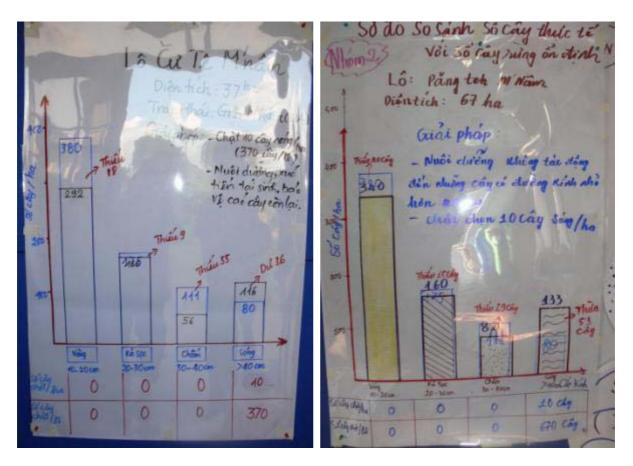
#### Stem number distribution in diameter classes of 4 blocks

		Stem number in dia. classes/ha			Stem number in dia. classes/block							
No	Block name	Area (ha)	m num ber/ ha	wolleY	Stripes	Dots	Wave	Stem numbe r/block	Yellow	Stripes	Dots	Wave
1	Cư Tê M'Nâm	37	630	292	166	56	116	23,310	10,804	6,142	2,072	4,292
2	Păng Teh M'Nâm	67	715	340	160	82	133	47,905	22,780	10,720	5,494	8,911
3	Dă M'Diêng	49	730	320	190	120	100	35,770	15,680	9,310	5,880	4,900
4	Lâm Phă	65	530	250	115	90	75	34,450	16,250	7,475	5,850	4,875

Actual stem number/ha in each diameter class of one block is compared against the SFM to identify the potential supply of timber in 5 years. Sustainable Forest Model is a basis to assure to sustainability of forest stand during the management process, therefore the actual stem number distribution is compared against the SFM to identify the number of harvestable trees in each diameter class while the sustainability is still guaranteed. If the actual stem number/ha of a block is higher than that of the SFM then the surplus can be harvested; otherwise it should be tended and cared more without any harvesting. In addition, the deficiency in some diameter classes can be compensated by the reduction of trees to be harvested in other classes with surplus.







Comparison of actual stem number distribution in each block against SFM

Based on this comparison and the identified stem number/ha and stem number/block, under the technical support of the consultants, villagers discussed the specific silvicultural measures to be applied in each block. Of the 4 assessed forest blocks, 3 have potential to supply timber in the next 5 years, i.e. Cu Tê M'Nâm, Păng Teh M'Nâm and Dă M'Diêng, the remaining block named as Lâm Dha has insufficient stem number in diameter classes as compared with SFM.

#### Potential stem number of 3 blocks in 5 years and proposed measures for each block

Block	Area (ha)	Measure	Dia. colour	Measured trees /ha	Harvestable trees/ha	Harvestable trees/block
		- Selective cutting of 10 trees	Yellow	292	0	0
Nân		in wave class/ha, retaining trees as source for	Stripes	166	0	0
Š	37	propagation	Dots	56	0	0
Cư Tê M'Nâm		<ul> <li>Promotion of natural regeneration, protection of standing trees.</li> </ul>	Wave	116	10	370
_		- Selective cutting of 10 trees	Yellow	300	0	0
l Tel	67	in wave class/ha, retaining trees as source for	Stripes	160	0	0
Păng Teh M'Nâm		propagation	Dots	82	0	0
		- Forest protection	Wave	133	10	670
		- Selective cutting in 3 classes	Yellow	320	0	0
Dăng MDiêng		of stripes, dots and wave	Stripes	190	6	294
MD	49	- Forest protection	Dots	120	3	147
			Wave	100	15	735
			Yellow			0
Total	450		Stripes			294
1	153		Dots			147
			Wave			1775

### 5. Timber demand of Tul village in 5 year and demand-supply balance



Farmers involve in assessment of timber needs

The assessment of community demand showed that villagers were in need of timber for making house, kitchen, warehouse, cowshed, grave, coffin, etc.

Key villagers together with technical experts discussed and identified timber need of the village for own consumption in 5 years.

Timber demand of Tul village in 5 years 2008 – 2012

Product	Coloured dia. class	Unit requirements	Annual village requirements	Total for 5 years	Remark
Living house	Dots	4	12	60	3/year
	Wave	5	15	75	
Kitchen	Yellow	10	30	150	3/year
	Stripes	4	12	60	
	Dots	2	6	30	
Field shed	Yellow	8	80	400	10/year
Cowshed	Yellow	19	76	380	4/year
Pig-sty	Yellow	6	30	150	5/year
Grave	Yellow	4		4	For whole
	Stripes	1		1	village
Coffin	Wave	1		3	3 in 5 years
Bench	Wave	1		1	1 in 5 years
	Yellow			1084	
Total	Stripes			61	
	Dots			90	
	Wave			79	

#### Note:

Timber for housing: Pinus kesiya, Lithocarpus, Michelia balansae Coffin: Michelia balansae

Specific requirements for 1 house:

Specification	Quantity		Coloured dia.c	class
		Colour	Quantity	Length (m)
Main column 5m	8	Dots	4	6 – 13
Transverse beam	12	Wave	1	10 – 12
Vertical beam 8m	8	Wave	0.5	10 – 12
Rafter 4,5m	8	Wave	0.5	10 – 12
Floor girder & wall girder 2,5m	48	Wave	0.5	10 – 12
Plank for floor 5m	100	Wave	1	10 – 12
Plank for wall 2,5m	250	Wave	1	10 – 12
Purlin 2,5m	42	Wave	0.5	10 – 12
Doors and others	Salvage	Wave		
Total		Dots	4	
Total		Wave	5	

The following timber demand-supply balance of Tul village is based on the identified harvestable stem number of 3 out of 4 inventoried blocks, including: Cu Tê M'Nâm, Păng Teh M'Nâm, Dă M'Diêng and the assessment of village timber demand in 5 year.

Demand-supply balance of Tul village in 5 years: 2008 – 2012

	Harves	stable trees per diar	meter class in 5 ye	ears	
Block	Yellow (10-20 cm)	Stripes (20-30 cm)	Dots (30-40 cm)	Wave (>40 cm)	
Cư Tê M'Nâm	0	0	0	370	
Păng Teh M'nâm	0	0	0	670	
Dă M'Diêng	0	294	147	735	
Total potential supply of 3 blocks in 5 years	0	294	147	1775	
Total demand of village in 5 years	1084	61	90	79	
Demand-supply balance	minus 1.084	surplus 233	surplus 57	surplus 1696	
Own consumption harvesting in 5 years	0	294 (61 + 233 (in lieu of 466 yellow trees))	(90 + 57 (in lieu of 228 yellow trees))	99 (79 + 20 (in lieu of 390 yellow trees))	
Commercial harvesting in 5 years	0	0	0	1676	
Average own consumption harvest in 1 year	0	59	30	20	
Average commercial harvest in 1 year	0	0	0	335	

#### Note:

- 1 stripe tree in lieu of 2 yellow trees
- 1 dot in lieu of 4 yellows
- 1 wave in lieu of 20 yellows

The demand-supply balance shows that there is insufficient number of yellow trees in all blocks, while harvestable trees are available in other 3 classes of stripes, dots, wave, and most of the blocks have surplus trees in wave class which implies a quite mature forest stand. The supply potential of these 3 blocks meets the requirements of own consumption and even for commercial use of the community in 5 years. However, during the management, the community should use more trees in stripes, dots, wave classes in lieu of yellow trees as there is deficiency in this class. The commercial harvesting should take out the wave trees that the forests can supply after fulfilling the requirements of own consumption, in order to avoid a too mature forest stand and promote the development of regenerated trees and under-storey trees which are still insufficient.

#### 6. 5 year forest management plan of Tul village 2008 – 2012

The 5-year forest management plan of the community is developed on the basis of the previous discussions on:

- Management goals of blocks, including analysis of problems, opportunities, measures for each block.
- Comparison Diagram of stem number distribution against SFM.
- Assessment of timber demand of community and demand-supply balance

The plan is developed following the principles of:

- i) Forest protection
- ii) Forest development: new planting and forest enrichment
- iii) Forest utilization: Own consumption and commercial harvesting.

The forest protection plan focuses on the implementation organization of 14 blocks and development of the village forest protection and development regulations

The forest development plan includes the activities of forest planting on some bare land areas with acacia species and forest enrichment with indigenous species of pinus kesiya, Hopea odorata in poor forests, after harvesting. In average, 10 - 15 ha forest planting and

1.500 trees forest enrichment are conducted annually.

In the harvesting plan, selective cutting will be applied in 3 blocks in 5 years (2008 – 2012). The number of trees to be cut per diameter class is identified to meet the own consumption requirements of the community in 5 years 2008 - 2012, if there is any surplus then, the community is allowed to harvest for commercial use in order to build up the village fund and share the benefits from forests among involved households.

Harvesting for own consumption in 5 years is conducted in 3 blocks of Cu Tê M'Nâm, Păng Teh M'Nâm and Dă M'Diêng; annually 59



Village meeting to approve 5 year management plan

stripes trees (20-30cm), 30 dots (30-40cm) and 20 wave trees (> 40cm) are cut. Every year, the community holds a meeting to select 3 households for building new house, the selected households should make an application for timber harvesting which shall be approved by VFMB and CPC. The households should organize the harvesting themselves under the supervision VFMB and on-site forest protection officers.

In the next 5 years, the commercial harvesting is carried out in 3 blocks of Cu Tê M'Nâm, Păng Teh M'Nâm and Dă M'Diêng, cutting trees in Wave class (>40cm), total trees to be harvested in 5 years is 1675. The harvesting plan for commercial use is conducted in two times:

- 1<sup>st</sup> time in 2008 with 940 trees per wave diameter class in 2 blocks of Cu Tê M'Nâm, Păng Teh M'Nâm
- 2<sup>nd</sup> time in 2011 with 735 trees per wave diameter class in Dă M'Diêng block

The commercial harvesting will be a general activity of the whole village with technical support of RDDL project and Krông Bông district working group. The revenue from timber selling will be shared following the mechanism as defined in the village forest protection and development regulations.

**Table 1: FOREST PROTECTION PLAN OF TUL VILLAGE** 

Na	A a 4 in side .	Description			Т	ime frai	me		Financ	e
No.	Activity	Description	block/location	2008	2009	2010	2011	2012	Budget (VND)	Source
1	- Setting up forest protection groups - Forest patrolling	<ul> <li>Establish 05 groups; 10 member each including 1 head and 1 vice head</li> <li>Conduct forest patrol bimonthly as assigned by the head or vice head of VFMB</li> <li>10 persons in 1 patrol, split in 2 teams to 2 directions</li> </ul>	On total 14 blocks	x	x	х	х	х	<ul> <li>300.000/patrol</li> <li>Timesheet as basis for compensation of protection labour (compensation should be the same or higher the cost of a local man- day)</li> </ul>	Village forest development fund
2	Forest fire prevention sign Board (No fire)	<ul><li>2 flat iron boards: 30cm x 40 cm</li><li>Put in high, visible place</li></ul>	At the entrance road to blocks of Grôi Tlă; Lơa Ktum	х					100.000 x 2 = 200.000đ	Supported by RDDL Or village forest development fund
3	Sign Board of Tul village forest Village forest map	- Concreted 84cm x 120cm; 2 poles 1,5m high: 2 boards (1 sign board and 1 map)	At the crossroad near the way to waterfall		х				5.000.000 x 2 = 10.000.000đ	Supported by RDDL Or village forest development fund
4	VFPDR board	<ul> <li>1 flat iron board at the entrance of village, with 02 poles 3 m high; size: 1,5m x 2m</li> <li>1 Mica board of same specification placed in the community house</li> </ul>		x					2.000.000đ	Supported by RDDL Or village forest development fund
5	Dissemination	<ul> <li>Via loud speaker: in cooperation with CPC and FPU</li> <li>Village meeting: incorporated in village meetings</li> </ul>		x	x	х	x	x	100.000đ/month	Village forest development fund

Note: when the Village forest development fund is available, the community will buy some equipment for forest patrol: hammock, rain coat, shoes; ...

Table 2: FOREST DEVELOPMENT PLAN OF TUL VILLAGE

		Sub-		Area (		Plar	nning y	ears			Finance	
No.	Compartment	Compartment	Block	ha)	2008	2009	2010	2011	2012	Description	Budget	Source
1) Pla	1) Plating Acacia forest											
	1204		Grôi Tlă	25		10		15		Plant acacia, at intensity of	Use village	
			Lơa Ktum	25			10		15	1666 trees / ha.	development fund to buy seedlings, fertilizers or	
	Total	50	0	10	10	15	15	Assigning tasks to households	integrated with other national programs			
2) Fo	rest enrichment	with Pinus kesiy	a and Hopea Odorat	ta	•						Households	contribute
	1204		Cư Tê M'Nâm	37		555 trees				Replant 2 species of indigenous trees: Pinus	labour to clear vegetation, dig holes,	
			Păng Teh M'Nâm	67		1005 trees				kesiya and Hopea Odorata in open gaps after selective		
	Total area/tree number of enrichment					1560 trees				cutting, 15 trees/ha Organize the work in groups.		

Table 3: HARVESTING PLAN FOR OWN CONSUMPTION OF TUL VILLAGE IN 2008 - 2012

				Block area	Dia.	Tree to		Trees t	o be cut p	er year		Fina	nce
Activity	Description	Compartment	Block (ha)	(ha)	Colour	be cut in 5 years	2008	2009	2010	2011	2012	Budget	Source
Selectiv	Households to be selected by the community for		Cư Tê M'Nâm	37	Wave	20	20					,	
e cutting	harvesting timber for housing. 3 households per year	1204	Păng Teh M'Nâm	67	Wave	80	0	20	20	20	20	Households the harvest	
	,		Dă M'Diêng	49	Stripes	295	59	59	59	59	59		
	Households make application, VMFM and CPC approve.				Dots	150	30	30	30	30	30		
	Households organize the harvesting in the year under supervision of VFMB and Commune FP officer												
		Stripes	295	59	59	59	59	59					
	Total	Dots	150	30	30	30	30	30					
					Wave	100	20	20	20	20	20		

Table 4: HARVESTING PLAN FOR COMMERCIAL USE OF TUL VILLAGE IN 2008 - 2012

A - 41- 14	D. a saideaffic	0	Disale	Block area	Dia.	Tree to		Trees t	o be cut p	oer year		Fina	nce
Activity	Description	Compartment	Block	(ha)	Colour	be cut in 5 years	2008	2009	2010	2011	2012	Budget	Source
Selective	VFMB organizes tree selection and marking		Cư Tê M'Nâm	37	wave	350	350						
cutting s	according to silvicultural guidelines, marking trees	1204	Păng Teh M'Nâm	67	Wave	590	590					Community with technic of RDDL	
	with paint.  Making harvesting plan and application for harvest permit.		Dă M'Diêng	49	Wave	735				735			
	Contract for timber cutting and skidding Community monitor and clean forest.											Cost for ham skidding co from the s value	ontract is
	Community makes timber list and FPU hammers.												
	VFMB organize timber auction with support of CPC.												
	Benefit sharing												
	Tota		Wave	1675	940			735					

#### 7. Implementing organization and benefit sharing in community

7.1 Assignment of forest protection activities

<b>N</b> 1 -	A - 45-34-	Respon	sibility
No.	Activity	Household	VFMB
1	Forest protection	Combine forest patrol with work on upland fields.	- organize propaganda on forest protection, fire prevention.
		- Actively involve in forest protection with VFMB.	<ul> <li>Mobilize villagers to participate in regular forest patrol.</li> </ul>
		Not to let fire spread to forest when burning upland fields.	- Timekeeping of participation in forest protection.
		- Notice any stranger entering forests.	- Notice any stranger entering forests.
2	Forest development	<ul> <li>Protection of planted forests.</li> <li>Households contribute their labour in forest planting and enrichment</li> <li>Households are responsible for taking care the planted and enriched forests</li> </ul>	<ul> <li>mobilize households in forest planting and enrichment.</li> <li>liaise with CPC to find out the source of seedlings.</li> <li>Keep records of number of planted trees of HHs.</li> </ul>
3	Forest utilization	<ul> <li>HHs involve in tree selection.</li> <li>make application for timber harvesting</li> <li>organize the harvesting themselves if for their own consumption.</li> <li>Participate in tree selection and forest cleaning</li> </ul>	<ul> <li>send person to tree selection</li> <li>verify the application for harvesting before submission to CPC.</li> <li>Coordinate, monitor &amp; evaluate the utilization of forest.</li> </ul>
4	Benefit sharing	<ul> <li>take part in all village meetings.</li> <li>harvest timber for own consumption with right amount and species.</li> <li>Follow the benefit sharing stated in VFPDR.</li> </ul>	<ul> <li>Cooperate with CPC to organize timber auction.</li> <li>Supervise commercial and own consumption harvest.</li> <li>Manage village forest development fund</li> <li>Verify demand for own consumption timber in village.</li> <li>share benefits according to VFPDR.</li> </ul>

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#### 7.2 Benefit sharing

#### i) Benefit sharing in harvesting for own consumption:

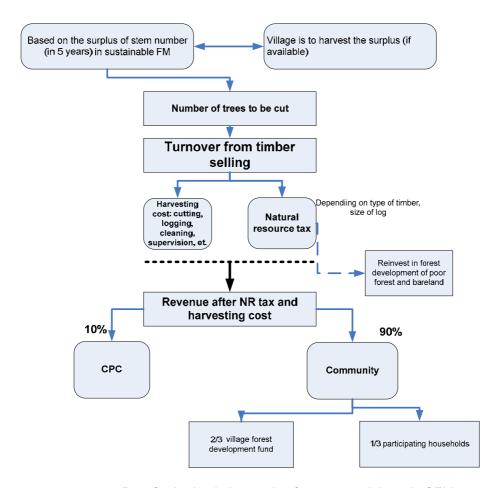
Own consumption harvesting households are selected by the community annually. They should cut the right amount of timber, in the right diameter class, at the right location as per the approved plan.

#### ii) Benefit sharing in harvesting for commercial use:

The commercial timber is harvested by the community as per the approved plan, granted harvesting permit; the benefits are shared in community as follows:

The revenue from timber selling, after deducting the harvesting cost (cutting, logging, forest cleaning, supervision, transportation) and natural resource tax, is shared:

- 10% remitted to CPC for forest management and protection
- 90% is for the community, shared as:
  - 2/3 for village forest development fund
  - 1/3 left for involved households in the village



Benefit sharing in harvesting for commercial use in CFM

#### 7.3 Management of village forest development fund

Implemented according to the VFPDRs, detailing:

The village forest development fund is built up from the commercial harvesting of timber and other forest production activities of the community.

- i) Utilization of village forest management fund: used for general activities in forest management and protection, including:
- Compensation for members of VFMB, head and vice head of forest protection groups and participating households in forest management activities, such as: harvesting, forest cleaning, supervision, forest patrol, management. In which pay for VFMB and group' head or vice-head is 1.3 and 1.1 times respectively of that for households.
- Formulation of signboards on forest protection, management

- Purchase of clothes, materials for forest patrolling.
- Purchase of forest tree seedlings for afforestation and forest enrichment.
- Purchase of equipment for forest production
- Other activities relating to forest protection and management
- Awarding.

#### ii) Management of village forest management fund:

- A bank account is opened in name of Tul Village Forest Management Board with VFMB head as account holder. Two signatures are required, VFMB head and village cashier.
- Cash withdrawal should be approved in the village meeting, with a transparent expenditure plan and having agreement of CPC.
- VFMB head is responsible for the fund expenditures, with a cashier.
- All expenditures should be recorded carefully, enclosed with receipts.
- Village meeting is organized biannually for financial disclosure with participation of CPC representative.

#### 8. Conclusion, recommendation

#### Conclusion

The 5 year forest management plan of Tul village is developed on the basis of assessment of forest resource and community demand. The outcome of this assessment shows that timber potential is sufficient to meet the requirements for own consumption and even for commercial purpose as an opportunity for income generation of households and development of the village fund. The forests are managed sustainably with a 5 year plan, involving all villagers in forest protection, development and utilization of forest products.

With the supports from local authorities, relevant organizations, the community is capable to carry out forest protection and development in the next 5 years as per the developed plan.

#### Recommendations

The follow-up steps are required to support the community in plan implementation and subsequent benefit sharing:

- DPC to approve the VFPDRs and 5 year forest management plan, commercial timber harvesting plan in 5 years and 2008.
- CPC to approve the forest management plan 2008
- The community to carry out the VFPDRs and the plans

Representative of district Working Group Representative of VFMB of Tul village

#### 9. Annexes

Annex 1: Block summary form

Village name	Tul	Block name (Local, technical)	Cư Tê M'nâm	Sub- compartment		Compartment	1204	Area(ha)	37
Status (Local, technical)	IIIA <sub>2</sub> (Grôi M'Nâm)	3 main species	manglieta, Schima superba, Lithocarpus, sp	Canopy coverage of sample plots	medium	Management goals	housing	big timbe I cial use	r for and

Distinction	Species	Timber potential		Yellow 0 – 19,9		Stripes 20 – 29,9					Wave >40cm		
			Total in all plots	Total per ha and block	Total in all plots	Total per ha and block	Total in all plots	Total per ha and block	Total in all plots	Total per ha and block			
Timber species(*)	manglieta, Schima superba, sp	©	146	292/10.804	83	116/6.142	28	56/2.072	58	116/4.292			
Non-timber species		⊗											
Total per ha and block				292/10.804		116/6.142		56/2.072		116/4.292			

Date: 15/07/2008 Recored by: Group 1.

## Annex 1(Cont.): Block summary form

Village name	Tul	Block name (Local, technical)	Păng Teh M'nâm	Sub- compartment		Compartment	1204	Area (ha)	67
Status (Local, technical)	IIIA <sub>2</sub> (Grôi M'Nâm)	3 main species	manglieta, Schima superba, Lithocarpus, sp	Canopy coverage of sample plots	medium	Management goals			nber and

Distinction	Species	Timber potential	Yellow 10 – 19,9		Stripes 20 – 29,9		Dots 30 – 40			Wave >40cm		
			Total in all plots	Total per ha and block	Total in all plots	Total per ha and block	Total in all plots	Total per ha and block	Total in all plots	Total per ha and block		
Timber species(*)	manglieta, Schima superba, sp	©	157	340/22.780	74	160/10.720	37	82/5.494	60	113/8.911		
Non-timber species		8	0	0	0	0	0	0	0	0		
Total per ha and block				340/22.780		160/10.720		82/5.494		113/8.911		

Date: 15/07/2008 Recorded by: Group 2

## Annex 1(Cont.): Block summary form

Village name	Tul	Block name (Local, technical)	Dă M'Diêng	Sub-compartment	6	Compartment	1204	Area (ha)	49
Status (Local, technical)	IIIA <sub>2</sub> (Grôi M'Nâm)	3 main species	manglieta, Schima superba, sp	Canopy coverage of sample plots	medium	Management goals	Havest housing commer		er for and

Distinction	Species	Timber potential		Yellow 0 – 19,9	Stripes 20 – 29,9		Dots 30 – 40	Wave >40cm
		•	Total in all plots	Total per ha and block	Total in all plots	Total per	Total in Total per all plots ha an block	r Total in all Total per
Timber species(*)	manglieta, Schima superba, sp	☺	32	320/17.600	19	190/10.450	12 120/6.60	10 100/5.500
Non-timber species		⊗						
Total per ha and block				320/15.680		190/9.310	120/5.88	100/4.900

Date: 15/07/2008 Recorded by: Group 3

## Annex 1(Cont.): Block summary form

Village name	Tul	Block name (Local, technical)	Lâm Dhă	Sub-compartment	6	Compartment	1204	Area (ha)	65
Status (Local, technical)	IIIA <sub>2</sub> (Grôi M'Nâm	3 main species	manglieta, Schima superba, sp	Canopy coverage of sample plots	medium	Management goals	Havest k	oig timber	,

Distinction	Species			ellow – 19,9		ripes - 29,9		Dots Wave 30 – 40 >40cn		
			Total in all plots	Total per ha and block	Total in all plots	Total per ha and block	Total in all plots	Total per ha and block	Total in all plots	Total per ha and block
Timber species(*)	manglieta, Schima superba, sp	☺	50	250/26.500	23	115/12.190	18	90/9.540	15	75/7950
Non-timber species		⊜	0	0	0	0	0	0	0	0
Total per ha and block				250/16.250		115/7.475		90/5.850		75/4.875

Date: 15/07/2008 Recorded by: group 4

### Annex 2: Block description

## 2.1: Description of blocks: Cư Tê M'Nâm, Păng Teh M'Nâm, Dă M'Diêng, Lâm DHă. Status: Illa2/Grôi M'Nâm. Area: 218 ha

Date		14/7/2008	3	Co	ompartment	1204		
Provii	nce	Đăk Lăk		Sı	ub-compartment			
Distri	ct	Krông Bô	ng	ВІ	ock			
Comr	mune	Yang Mad	)	Ar	rea/status			
Villag	е	Tul	Re		ecorder	Trịnh Ngọc Trọng		
Main	use	Culture, religion	history,	Less	critical protection	Timber production forest		
		\M/hat is th	o walking time	from t	the village to reach	the forest block?		
Acces	ss		What is the walking time Less than 1 hour ( < 5km)			More than 2 hours (> 10km)		
						х		
	Forest typ	е	Characteristi	cs				
	Unexploited, low-impacted forest,		restored < 5 years		Restored 5-1 years	0 Primeval		
						x		
ıcteristics	Already harvested timber forest		Only trees <	15cm	Trees 15cm minimum harvestable diameter	n- Trees ≥ minimum harvestable diameter		
hara						х		
Forest tyype and characteristics	Timber m forest	nixed bamboo	d bamboo: sor Timber: Only < 15cm		Bamboo: Medium Timber: Trees 15 minimum harvestable diameter	' '		
For								
	Bamboo f		- small.		- medium.	- big		
	Density		- sparse		- medium	- dense		
Speci	Species Big timber spe		cies		Smaller timber	species		
	manglieta,				Canarium			
		Schima superb	a		Garcinia			
Cano	-	sparse			dense			
20701	-90				X			

Gaps in forest	None	Some		many					
stand		x							
	Is it easy to walk in fore	est block?							
Slope	easy (gentle)	difficult (ste	ep)						
	x								
	Can you get any fore years?	yes x	No						
Products	List 3 main forest products that can be expected from the forest block.								
	Timber:								
	NTFP: rattan,								
	When did fire last occur	in the forest block	?						
Fire hazard	In the last 5 yrs	Not in the last 5 yrs		ne last 10 vrs	Never x				

Grazing	What is the grazing pressure in the block? (check signs like cattle manure; trampled areas; very short grass; browsed shrubs and herbs etc.)				
5 : 5 <u> </u>	High	Medium	Low	None x	

## Management Goal Table

Block Name	Cư Tê M'Nâm, Păng Teh M'Nâm, Dă M'Diêng, Lâm DHă
Management goal	- Forest protection, harvesting big timber and NTFPs
Disadvantages & Difficulties	- far away from village, steep slopes, difficult for protection, harvesting, transportation.
Advantages &	- many valuable timber trees.
Opportunities	- high degree of regeneration.
	- clear boundaries (Ea Găm treams and trails)
Solutions	- Selective cutting of timber
	- Forest protection and development regulation required
	- No forest clearing and burning for cultivation
	- Forest fire prevention in dry season

## 2.2: Description of blocks: Cư Teh Pda, Grôi N'Hô, Grôi Klông, Grôi Jơ U. Status: Illa1/Grôi Pda. Area: 378 ha

						1	
Date		14/7/2008	14/7/2008		mpartment	1204	
Provir	nce	Đăk Lăk	Đăk Lăk		ıb-compartment		
Distric	ct	Krông Bô	Krông Bông		ock		
Comn	nune	Yang Mad	)	Ar	ea/status		
Villag	е	Tul		Re	ecorder	Nguyễn Đình Thông	
Main	use	Culture, religion	history,	Less	critical ction forest	Timber production forest	
				•		х	
		What is th	e walking time	e from t	he village to reac	h the forest block?	
Acces	s	Less than 5km)	1 hour ( <	1-2 ho	urs (5 - 10km)	More than 2 hours (> 10km)	
						х	
	Forest ty	ре	Characteristi	cs			
		orest restored ting cultivation,	restored < 5	years	Restored 5- years	-10 Restored >10 years	
Already harvested timber forest  Timber mixed bamboo forest		Only trees < 15cm		Trees 150 minimum harvestable diameter	Trees ≥ minimum harvestable diameter		
hara						x	
o pt		mixed bamboo	Bamboo: some Bamb		Bamboo: Mediu	ım Bamboo: plenty	
forest and forest		Timber: Only < 15cm	trees	Timber: Trees minimum harvestable diameter	15- Timber: Trees ≥ minimum harvestable diameter		
Forest							
	Bamboo	forest:	- small.	II medium.		- big	
	- diamet	er.					
Density		- sparse	- medium		- dense		
		х					
Species Big timber species manglieta Dianella ensifo		cies		Smaller timber	Smaller timber species		
		manglieta			Parinari annamensis		
		Dianella ensifo	lia		Syzygium		
		Artocarpus					
	anopy	sparse		dense			
coverage							

Gaps in forest	None	Some	Some		Many	
stand		x				
	Is it easy to walk in forest block					
Ola va a	easy (gentle)	normal (modera	ate)	difficult (ste	ep)	
Slope					Х	
	Can you get any fo	rest products in th	e next 5	Yes	No	
	years?			х		
Products	List 3 main forest products that can be expected from the forest block.					
	manglieta, Schima superba					
	NTFPs: Rattan, bamboo,					
	When did fire last occur in the forest block?					
Fire hazard	In the last 5 yrs	Not in the last 5 Not in th		e last 10	Never	
	X	yrs	У	rs		

Grazing	What is the grazing pressure in the block? (check signs like cattle manure; trampled areas; very short grass; browsed shrubs and herbs etc.)				
	High	Medium	Low	None x	

## Management Goal Table

Block Name	Cư Teh Pda, Grôi N'Hô, Grôi Klông, Grôi Jơ U		
Management	- Forest protection.		
goal	- Protection of Ea Găm watershed area		
Disadvantages &	- far away from residential area		
Difficulties	- steep, rocky thus difficult for protection and harvesting.		
Advantages 8	- Almost no forest encroachment, clearing		
Opportunities	- Surrounded by Ea Găm river		
Solutions	- Fire prevention in dry season		
	- Clearing way for forest patrolling.		

## 2.3: Description of blocks: Păng Teh Iơa, Grôi Tlă, Lơa N'Hô, Lơa Ktum, Lơa Reuh, Dă Kơi. Status: Ib/Grôi Lơa. Area: 368 ha

Date		14/7/2008	3	Co	ompartment	1204
Provir	nce	Đăk Lăk	Đăk Lăk		ub-compartment	
Distric	ct	Krông Bô	Blo Blo		ock	
Comn	nune	Yang Mad	)	Ar	ea/status	
Villag	е	Tul		Re	ecorder	Phan Văn Quỳnh
		history,	Less	critical ction forest	Timber production forest	
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	II dan a 40	· • 4	h ::!!	X
Acces	s				ne village to reac	h the forest block?  More than 2 hours (> 10km)
						X
	Forest typ	oe	Characteristi	cs		
		orest restored ing cultivation,	restored < 5	years	Restored 5- years	Restored >10 years
Already harvested timber forest				Trees 150 minimum harvestable diameter	rm- Trees ≥ minimum harvestable diameter	
hara						
Already harvested timber forest  Timber mixed bamboo forest		Bamboo: some Timber: Only trees < 15cm Timber: Trees minimum harvestable diameter		' '		
ore						X
Т	Bamboo f		- small.	- medium.		- big
		÷I.				
	Density		- sparse - medi		- medium	- dense
		Dia timbar ana	l nine		Smaller timbe	X x anadiaa
Species  Big timber species  Artocarpus  Cratoxylum  Irvingia malayan  Canarium				Smaller timbe	er species	
Ca	anopy	sparse			dense	
	verage		Х			

Gaps in forest	None	Some		Many	
stand				Х	
	Is it easy to walk in forest block				
01	easy (gentle)	normal (modera	ate)	difficult (ste	ep)
Slope				Х	
	Can you get any forest products in the next 5			Yes	No
	years?			х	
Products	List 3 main forest products that can be expected from the forest block.				
	Timber: Lithocarpus, Schima superba				
	NTFPs: Thysanolaena, bamboo,				
	When did fire last occu	r in the forest block	n the forest block?		
Fire hazard	In the last 5 yrs	Not in the last 5		e last 10	Never
	X	yrs	У	rs	

Grazing	What is the grazing pressure in the block? (check signs like cattle manure; trampled areas; very short grass; browsed shrubs and herbs etc.)				
	High	Medium	Low	None x	

## Management Goal Table

Block Name	Păng Teh lơa, Grôi Tlă, Lơa N'Hô, Lơa Ktum, Lơa Reuh, Dă Kơi		
Management	- Afforestation, protection		
goal	- Harvesting NFTPs for own consumption.		
Disadvantages &	- Bamboo forest therefore in risk of fire annually.		
Difficulties	- Steep terrain		
Advantages &	- Close to village, easy for harvesting bamboo, herbs		
Opportunities	- Clear, visible boundaries, (trails, Ea Chay stream)		
Solutions	- No burning the field.		
	- Fire prevention in dry season		
	- No grazing.		
	- Forest protection and development regulation required.		