



Community-based Fire Management (CBFiM) Training – an approach towards participatory planning

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Auswärtiges Amt

Foreign Office,
Federal Republic of Germany
Office for Humanitarian Assistance



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Community-based Fire Management (CBFiM) Training – An approach towards participatory planning

1. Introduction

This training course is a basic part of the **3-Level Wildland Fire Management Project for Nepal**, supported by the German Foreign Office (GFO) implemented by the Global Fire Monitoring Center (GFMC). Please refer the outline of the project in detail in *Annex I*.

Box 1: An overview of the training course

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Course Coordinators: | Mr. Sundar P. Sharma Mr. P. Daniel Kraus |
| Resource Persons: | Mr. Sundar P. Sharma Mr. P. Daniel Kraus Mr. Krishna P. Acharya Mr. Kiran Timilsena Mr. Ananta Bhandari Mr. Rishi Ram Tripathi Mr. Yadhav Dhital Mr. Puspa Raj Bartaula |
| Venue: | Office of the CFUG, Chaukitole, Hetauda, Makawanpur, Nepal |
| Duration: | 9 – 15 October 2007 |
| Course Language: | Nepalese / English (simultaneous translation) |
| Target Group: | Sundar Community Forest User groups |

The training course is aimed at villagers and other members of a Community Forest User's Group (CFUG) and will allow to let people develop their own fire management plan and fire risk map. It deals with tools for community based fire management planning that are intended for use in a process which is as participatory as possible. It has been developed so that it can be applied to any village environment in Nepal.

The community based fire management planning includes:

- identifying participants, planning area and expectations of participants
 - identifying zones, changes, contrasts, conditions and physical features in the village environment (transect walk)
- presenting and analysing information on land use, forests, water and other resources and risk zones (participatory mapping)

As such, the course has designed to increase management capability of wildland fire at local community level. The course was also developed together with trainees as per their needs. The main reasons for participatory curriculum development are:

- much time and money is devoted to fire management training - but courses do not always produce the outcomes desired
- as a result many training organizations need to rethink the way they plan, design, deliver and evaluate their courses

2. Objectives:

The main aim of the training course was to demonstrate the community-based fire management (CBFiM) in the context of the developing country by developing management capability of local people.

Objectives of the training:

- To create awareness on forest fire prevention and control
- To contribute in preparing a community based fire management plan
- To practice use of the fire fighting techniques and tools
- To develop Sundar CF as a pilot CFUG demonstrating forest fire management practices

The training course, *inter alia*, took into account of safety and ergonomic aspects in fire management, including uses of appropriate fire fighting tools, prescribed fire for ecological purposes and fuel management, gender-balanced representation.

3. Course Development

The training course is developed in such a way that the participants can learn in a participatory way. There is less lectures and more practices in the field, group works and discussions. Modifications in the contents has made as per the participants' requirements and the level of learning during the training course. So, the course contents may need to be tailored according to the local situation in future training programme.

Major topics covered in the training course are as follows:

1. Participants' experiences on past fires in their area
2. Fire situation assessment
3. Participatory resource mapping
4. Action planning
5. Fire prevention and suppression
6. Fire behaviour and prescribed burning
7. Fire safety and welfare
8. Fire leadership during the fire
9. Fire risk assessment and warning system development
10. Community Based Fire Management (CBFiM) Plan Preparation
11. Proper use of fire fighting tools and equipments

4. Programme Implementation

Predetermined training programme has been discussed with the participants and tailored with their past experiences and knowledge level.

The beauty of the training programme was the participatory way of needs and situations assessment together with local people prior to the training. Pre-feasibility assessment was made together with the course coordinators, trainers and local key informants. It was further assessed during the presentation of the participant's reports and transect walk. Moreover, the

training programme was designed in such a way that local community can identify their needs and interests and prepare their fire management plan accordingly with very low influence from external experts.

Box 2: Opening of the training, hand-over of the training materials and closing of the programme and Certification

The training programme was formally opened by the Chief Guest (Mr. K. R. Shrestha, Deputy Director General of the Department Forests, Government of Nepal). Lists of the trainees and the programme of the opening ceremony are given in *Annex IV(a) and IV(b)* respectively.

The Equipments and hand-tools were handed over by the Honorary Guest (Mr. Norbert Meyer, Counsellor, Deputy Chief of Mission, Embassy of the Federal Republic of Germany, Kathmandu) in the occasion of the equipments hand over ceremony. Lists of the equipments and tools and the programme of the hand-over ceremony are given in *Annex V(a) and V(b)* respectively.

The certificate to the successful participation of the trainees were awarded by the Chief Guest (Mr. R.R. Tripathi, District Forest Officer, Makawanpur) in the closing ceremony. The programme of the closing ceremony is given in *Annex XIII*.

General characteristics of the tools applied in this training course include the following:

- it aims to include the perspectives of all interest groups, including rural women and men (gender balance)
- it recognizes indigenous technical knowledge on fire management (and that this knowledge is gender based)
- it functions through communication among those bound together by common fire problems. This communication becomes a tool for identifying solutions



Field visit to show villagers the effects of fire breaks

The role of the instructors was to:

- identify people who know about their village and are willing to share their knowledge
- reach agreement with the villagers on method, time, place, materials, etc.
- probe, check and encourage discussion and debate
- be patient, not controlling
- observe and document the information

Instructors should not:

- overlook the silent participants
- take on the role of a teacher
- interrupt an explanation



Demonstration of 'Leaf burning technique' to determine the fire risk index.

Please refer the the training programme stipulated in *Annex III*.

The basic moods of the training were:

- lectures on basic fire management
- exercises on the use of controlled fire and fire fighting handtools
- field visit to show villagers the effects of fire breaks
- reflections from the past
- group works and presentation

5. The outcomes:

The major outcomes are given in the following points:

- Five-years action plan

Looking at the current fire management capabilities and future scope for the resource generation, five years action plan was prepared by three groups. Findings were presented and discussed in the plenary session and finally come up with a common action plan for five years. The Five-years Action Plan (5YAP) is given in *Annex XII*.

- Capacity development

Twenty-four (50% women) Trainees (see the list in *Annex IV.a*) were trained and aware of the impacts of the forest fire and show willingness to disseminate the knowledge and skills gained from the training to the local community and to other users groups as well.

- Participatory resource map (PRM)

Through the PRM, outsiders gain insights into how rural women and men perceive their resources and select their priorities for managing fires.

Villagers can present and analyse information on land use, watersheds and forests and other resources related to fire management through participatory mapping process and transect walk. The 'PRM' and an example of the 'transect walk drawing' (TWD) is ginen in *Annex VI and Annex VII* respectively.

- Fire risk reduction map (FREM)

It includes:

- Removal of hazards from high risk areas.
- Initiate fuel breaking belts through removing fuels.



Action plan was being prepared through interactive process



Trained volunteer firefighter leader group



Participatory resource map (PRM) prepared by the local people

- Construct and maintain networks of fire lines inside the CF. The FREM is given in *Annex VIII*.

- Communication and networking group

An effective communication network has been developed by the CFUG. The fire communication system is presented in *Annex IX*. The fire fighting leaders has the key role in information dissemination to the general user group and the fighting the fire. The list of Fire fighting leaders group is given in *Annex X*.

- Monitoring and evaluation sub-committee

A monitoring and evaluation sub committee (see *Annex XI*) has been formed under the executive committee of the UG. The sub committee monitors and evaluates the actions taken to prevent and to control the fire and recommends for improvement in the future.

A seven member's fire monitoring and evaluation sub committee is formed for the fire management monitoring process. Women representation in the committee is larger than male that shows a high level of commitments from the women.

- Awareness raising

It has created awareness among general public and among policy makers regarding wildland fire and its impacts. The programme was well covered by the radio programme (19 FM radio stations broadcasted the news about the programme.

Listen the programme:

http://www.fire.uni-freiburg.de/media/2007/10/news_20080203_np.htm

Read the news:

http://www.fire.uni-freiburg.de/GlobalNetworks/South_Asia/Media_1.html



News cutting highlighted the need for training for fire disaster mitigation

6. Conclusions

The training curriculum can be useful in similar situation but need to be tailored with local situation.

It is recommended that the follow-up of the outcomes of the training is necessary.

Group works and presentation, discussion and practical should be a major part of the participatory teaching and learning processes.



Outline of a Community-based Fire Management (CBFiM) Training in Nepal

1. Introduction

In Nepal, fire is used by the rural population as a traditional tool for clearing and managing agricultural and pasture lands. It is also used to facilitate the gathering of Non-Timber Forest Products (NTFPs) and in hunting and herding. An analysis revealed that 58% of the total causes of forest fires were deliberate followed by negligence (22%) and accidental (20%). Most of these fires become uncontrolled fires, with a long and intense dry season. Many of these fires have the potential to cause major damages.

Forest fires destroy timber and non-timber forest products. Fires also reduce the biological diversity of the forests to a great extent. In addition, fires degrade the soil, inducing soil erosion, flood and landslide damage. Forest fires make the entire countryside hazy; thereby reducing aesthetic values for eco-tourism during the dry season. At least one hundred villages are burned annually in Nepal, some of which are definitely destroyed by forest fires where the roofs are made of thatched grass. Consequently, the uncontrolled fires in the country among others are serious degradation of forests, ecological changes, as well as deterioration of social and economical conditions in some land-use systems and natural vegetation types.

Moreover, the country has diverse ecosystems, socio-economic and cultural settings and vegetation types resulting from a wide range of land-use systems and climatic conditions, consequently having diverse fire regimes and vulnerabilities.

In one hand, there is increasing interest in Community-Based Fire Management (CBFiM) and the need for institutional and technological capability development at all levels. Also, there is a high expectation from sustainable vegetation cover which helps to reduce poverty through livelihood support to rural populations.

On the other hand, there is a lack of existing local and national capability in fire management, including research, monitoring, early warning and assessment, and facilitating cooperation in fire management.

‘Kathmandu Declaration – 2007’ of the foundation meeting of Regional South Asia Wildland Fire Network has recommended, *inter alia*, “to stress on strategy formulation, fire management plan development and programme implementation and to give emphasis on improvement of community-based fire management and institutional and technological capabilities at all levels”.

The Regional Session of the ‘4th International Wildland Fire Conference-2007’ has recommended, *inter alia*,:

“To support countries to conduct national fire and fire management assessments, formulate legal frameworks and strategies, build sustainable fire management capabilities and institutions, develop fire management plans and human resources.”

“To give emphasis to improvement of participatory / community-based fire management approaches and institutional and technological capabilities at all levels.”

“To support implementation of building fire management capability at both local and national levels, as well as through bilateral and multilateral cooperation agreements”

“To create an enabling environment from all possible donors including national, international, bi-lateral, multi-lateral and private foundations for financial, technical and other resource support for sustainable fire management.”

Furthermore, the Conference has recommended, *inter alia*, that “the international wildland fire community pursue the development of a global-scale international resource sharing strategy to assist countries with fire management planning activities”.

The forest users do not have proper tools and technical know-how to fight fires. In fact, community forests are not managed properly, nor are forest fires fought in an appropriate manner. Awareness and Training programmes to community forest users’ groups are significantly useful to conserve the community resources.

In government managed forest, some steps taken by the Department of Forests even though at an indicative level are positive steps in this direction. Strengthening of this Department to cover the sustainable forest management at national and local level is indispensable if its efforts are to materialize in a tangible manner.

Community involvement is proved to be successful for sustainable resource management. Community-based fire management could be the key to over-coming the recurring problems of forest fires in Nepal.

Forest fire management is not practiced in Nepal. Although, the community forest users’ groups try to control forest fires in their own forests, despite lack of a plan, a proper training and tools for systematic prevention and control of fires.

So, it is necessary to strengthen local capabilities to address the forest fire problems in the country.

2. Objectives:

The objectives of the training programme are:

- To create awareness on forest fire prevention and control
- To contribute in preparing a community based fire management plan
- To practice use of the fire fighting technique and tools
- To develop Sundar CF as a pilot CFUG demonstrating forest fire management practices

3. Outputs

The outputs of the programmes will be:

- Training Curriculum for forest fire management at community level
- 24 trained forest fire managers (through training course for community forest users' group (CFUG) members)

4. Activities

4.1 Development of Training Curriculum for community people

To develop training curriculum tailored with the needs, expectations and the local situation together with the participants.

4.2 Training course for local community people

The main objective of the training programme is to develop management capability of local people. Among others, the training course will take into account of safety and ergonomic aspects in fire management, including uses of appropriate fire fighting tools, prescribed fire for ecological purposes and fuel management, gender balanced representation.

5. Auspices

The training will be conducted jointly by the Department of Forests (DoF) and the Global Fire Monitoring Center (GFMC). Sponsorship: Foreign Office, Federal Republic of Germany, Office for Humanitarian Assistance.

6. Target group and Date

The Community-based Fire Management (CBFiM) training programme will be organized in a community forest user group of the nearby district of the Kathmandu, Nepal. A representative community forest users' group will be selected for the overall project. In training programme, members of the users group with gender balanced representation will be the criteria for selection of the participants. The programmes will be carried out in October 2007.

Annex II: The training curriculum

(under refinement

Annex III : The training programme

Training Course on Community-based Fire Management (CBFiM) for Community Forest User Groups

Objectives of the Training

To create awareness on forest fire prevention and control

To contribute in preparing a community based fire management plan

To practice use of the fire fighting technique and tools

To develop Sundar CF as a pilot CFUG demonstrating forest fire management practices

Venue: Sundar CFUG, Makawanpur

Date: 9 - 15 October 2007

| Date | Day | Time | Topics (Session) | Method | Organization | Resource Person | Remarks |
|--------|-----------|-------------|-------------------------------------------------------------------------------------------|-----------------------------|--------------|-----------------|---------|
| 9-Oct | Tuesday | 10.00-10.30 | Registration | Participatory | All | | |
| | | 10.30-12.30 | Opening Ceremony | | CFUG/GFMC | | |
| | | 12.30-13.30 | <i>Refreshment</i> | | | | |
| | | 13.30-14.30 | Introductory Briefing on Logistic Support, Course Content Objective and Aim of the Course | Lecture | GFMC | | |
| | | 14.30-15.30 | Participants' Experience on Forest Fire | Group work and presentation | MoFSC | | |
| | | 15.30-15.45 | Break | | | | |
| | | 15.45-17.00 | Participants Experience on Forest Fire (Contd...) | | CFUG | | |
| 10-Oct | Wednesday | 10.00-14.00 | Reconnaissance forest survey (Transect walk) | Field (Sundar CF) | GFMC | | |

| | | | | | | | |
|--------|----------|-------------|-------------------------------------------------------------------------------------|------------------------|------------------|--|--|
| | | 14.00-15.00 | Tea break | | | | |
| | | 15.00-16.00 | Situation assessments , Time line, Resource Mapping (using PRA) | Group work | GFMC | | |
| | | 16.00-16.15 | Break | | | | |
| | | 15.00-17.00 | Situation Assessments, Time Line, Resource Mapping and Fire Risk Zoning (using PRA) | Group work | GFMC | | |
| 11-Oct | Thursday | 10.00-14.00 | Resource Mapping and Fire Risk Zoning Map Preparation Finalization and Presentation | Group work | GFMC | | |
| | | 14.00-15.00 | Break | | | | |
| | | 15.00-17.00 | Fire Leadership during the Fire | Lecture and Discussion | GFMC | | |
| 12-Oct | Friday | 10.00-10.50 | Equipments / tools hand-over and use and Maintenance | | GE/GFMC/CFUG/DFO | | |
| | | 10.50-11.50 | Refreshment | | | | |
| | | 11.50-17.00 | Ratomate / Manahari site visit | Field observation | GFMC/DFO | | |
| 13-Oct | Saturday | 10.00-10.45 | Concept on Forest Fire and Overview on Fire in Makwanpur | Lecture and Discussion | DFO | | |
| | | 10.45-11.45 | Community-based Fire Management (CBFiM) | Lecture and GD | GFMC | | |
| | | 11.45-12.45 | Fire Safety | Lecture and GD | MoFSC | | |
| | | 12.45-13.00 | Break | | | | |
| | | 13.00-14.15 | Fire Behaviour | Lecture and GD | MoFSC | | |
| | | 14.15-15.00 | Tea Break | | | | |
| | | 15.00-17.00 | Fireline Construction | Field Practice | CFUG/GFMC | | |
| 14-Oct | Sunday | 10.00-11.30 | Fire Prevention | Lecture and GD | GFMC | | |

| | | | | | | | |
|--------|--------|-------------|------------------------------------------------------------|--------------------------|----------|--|--|
| | | 11.30-13.00 | Fire Suppression Tactics, Techniques and Tools | Lecture, GD and Practice | GFMC | | |
| | | 13.00-13.30 | Planning for Burning Practice | GD | GFMC | | |
| | | 13.30-14.30 | <i>Tea break</i> | | | | |
| | | 14.30-17.00 | Burning Practices | Field Practice | GFMC | | |
| 15-Oct | Monday | 10.00-12.00 | Reflection of the Field Practice | Participatory | GFMC | | |
| | | 12.00-13.00 | Action plan preparation | Participatory | DFO/GFMC | | |
| | | 13.00-14.00 | Participatory course evaluation and follow-up requirements | Participatory | All | | |
| | | 14.00-15.00 | <i>Tea break</i> | | | | |
| | | 15.00-16.00 | Certificate distribution and closing | | All | | |

Note:

- CFUG = Community Forest Users Group
- DFO = District Forest Office
- GD = Group Discussion
- GE = German Embassy
- GFMC = Global Fire Monitoring Center
- MoFSC = Ministry of Forests and Soil Conservation

Annex IV(a): Lists of the trainees

| S.N. | Name | Adress |
|-------------|--------------------------|---------------------|
| 1 | Ms. Ganga Subedi | Chaukitole, Hetauda |
| 2 | Ms. Padma Acharya | Chaukitole, Hetauda |
| 3 | Ms. Tara Lama | Chaukitole, Hetauda |
| 4 | Ms. Bhawani Regmi | Chaukitole, Hetauda |
| 5 | Ms. Uma Regmi | Chaukitole, Hetauda |
| 6 | Ms. Nirmala Gole | Chaukitole, Hetauda |
| 7 | Ms. Sakuntala Thapa | Chaukitole, Hetauda |
| 8 | Ms. Ranjana Pariyar | Chaukitole, Hetauda |
| 9 | Ms. Sushila Sanjel | Chaukitole, Hetauda |
| 10 | Ms. Tanuja Dhakal | Chaukitole, Hetauda |
| 11 | Ms. Sukmaya Thapa | Chaukitole, Hetauda |
| 12 | Ms. Bijaya Dangol | Chaukitole, Hetauda |
| 13 | Mr. Buddhi Prasad paudel | Chaukitole, Hetauda |
| 14 | Mr. Ananada Dhakal | Chaukitole, Hetauda |
| 15 | Mr. Pravakar Kafle | Chaukitole, Hetauda |
| 16 | Mr. Jhalak Gautam | Chaukitole, Hetauda |
| 17 | Mr. Chha Kumal Dangol | Chaukitole, Hetauda |
| 18 | Mr. Raju Malla | Chaukitole, Hetauda |
| 19 | Mr. Kamal Lama | Chaukitole, Hetauda |
| 20 | Mr. Niroj Lama | Chaukitole, Hetauda |
| 21 | Mr. Santosh Sanjel | Chaukitole, Hetauda |
| 22 | Mr. Subash Bindari | Chaukitole, Hetauda |
| 23 | Mr. Sandip Lopchan | Chaukitole, Hetauda |
| 24 | Mr. Jayaram Pudasaini | Chaukitole, Hetauda |

Annex IV(b): The programme of the opening ceremony

Opening Ceremony

Training Course on Community-based Fire Management (CBFiM) for Community Forest
Users Group
(9-15 October 2007)

| | |
|----------------------------|-------------------------------------------------------------|
| Chair | Chairman, Community Forest Users Group Committee (CFUGC) |
| Chief Guest | Mr. K.R. Shrestha Deputy Director General, Dept. of Forests |
| Special Guest | Chief, Regional Forest Office |
| Special Guest | Mr. P.D. Kraus GFMC Expert, GFMC |
| Guest | Mr. R.R. Tripathi DFO, Makawanpur |
| Guest | Chief BISEP-ST, RSU |
| Guest | Mr. K. Acharya Dept. of Res. and Survey |
| Guest | Chief, DFCC |
| Guest | Chief, DSCO |
| Guest | Chief, DPO |
| Guest | Campus Chief, Institute of Forestry, Hetauda |
| Guest | Lecturer, Forest Protection, IOF, Hetauda |
| Guest | Mr. S.R. Thapa CFCMC, Bhaise |
| Guest | Mr. L. Katuwal CFCMC, Harnamadi |
| Training Participants (24) | |
| Local media persons | |

Master of ceremony: Mr....., CFUG

Schedule

Venue: Chaukitole, Hetauda, Makawanpur (Office of Sundar CFUGC)

Date: 9 October 2007, Tuesday

| | |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10.00 | Training Objectives by SP Sharma |
| 10.10 | Welcome Address by the member CFUGC |
| 10.20 | Formal Announcement of Opening of the training course and address on the importance of training programme in the context of Nepal by the Chief Guest, DoF |
| 10.30 | Address by the DFO (District Forest Fire Situation) |
| 10.40 | GFMC Keynote Address on Community-Based Fire Management by D. Kraus |
| 11:10 | Vote of thanks and closing remarks by the Chair |
| 11:10 | Refreshment |

Annex V(a): Lists of the equipments and tools handed over to the UG



Fire Fighting Tools and Equipments

Name of Users Group: Sundar Community Forest Users Group (SCFUG)
Place: Chaukitole, Hetauda, Nepal
Donation From: German Foreign Office, Humanitarian Assistance
Purpose: Training Course on Community Based Fire Management (CBFiM) for Community Forest Users Group

List:

- | | | |
|-----|--------------------------------------------------------|------------------------------|
| 1. | Swatter | 12 sets (local manufactured) |
| 2. | Shovel | 12 sets (local manufactured) |
| 3. | Rake | 12 sets (local manufactured) |
| 4. | Rake-hoe | 12 sets (local manufactured) |
| 5. | Axe-hoe | 12 sets (local manufactured) |
| 6. | First Aid Kit | 2 sets (local purchased) |
| 7. | Jumpsuit, 9 OZ Indura (Small 11, Medium 6, Large 7) | 25 sets (Imported) |
| 8. | Gloves | 24 sets (local purchased) |
| 9. | Helmet | 24 sets (local purchased) |
| 10. | Boot | 24 sets (local purchased) |
| 11. | Back-pack Pump, Collapsible | 12 sets (Imported) |
| 12. | Drip Torch | 5 sets (Imported) |
| 13. | Water Pump, 3.5 HP | 1 set (local purchased) |
| 14. | Hose Reel with Roller | 1" * 100' (local purchased) |
| 15. | Container, 1000 lit. | 1 set (local purchased) |
| 16. | Kestrol Weather Station | 1 set (Imported) |
| 17. | Case for Kestrol | 1 set (Imported) |

Received By: Mr. Buddhi Prasad Paudel,
Chairman, SCFUG Committee,
Chaukitole, Hetauda, Nepal

Handed over by: Mr. Norbert Meyer,
Deputy Chief of Mission to Nepal, German Embassy
Kathmandu Nepal

Date and Place: 12 October 2007, Hetauda, Nepal

Annex V(b): The programme of the hand-over ceremony

Equipments hand-over Ceremony

Training Course on Community Based Fire Management (CBFiM) for Community Forest Users Group

(9-15 October 2007)

| | |
|----------------------------|---------------------------------------------------------------------|
| Chair | Chairman, Community Forest Users Group Committee (CFUGC) |
| Honorary Guest | Mr. Norbert Meyer, Deputy Chief of Mission to Nepal, German Embassy |
| Special Guest | Chief, Regional Forest Office |
| Special Guest | Chief District Officer, Makawanpur |
| Special Guest | Mr. P.D. Kraus, GFMC Expert, GFMC |
| Guest | Mr. R.R. Tripathi, DFO, Makawanpur |
| Training Participants (24) | |
| Local media persons | |

Master of ceremony: Mr....., CFUG

Schedule

Venue: Chaukitole, Hetauda, Makawanpur (Office of Sundar CFUGC)

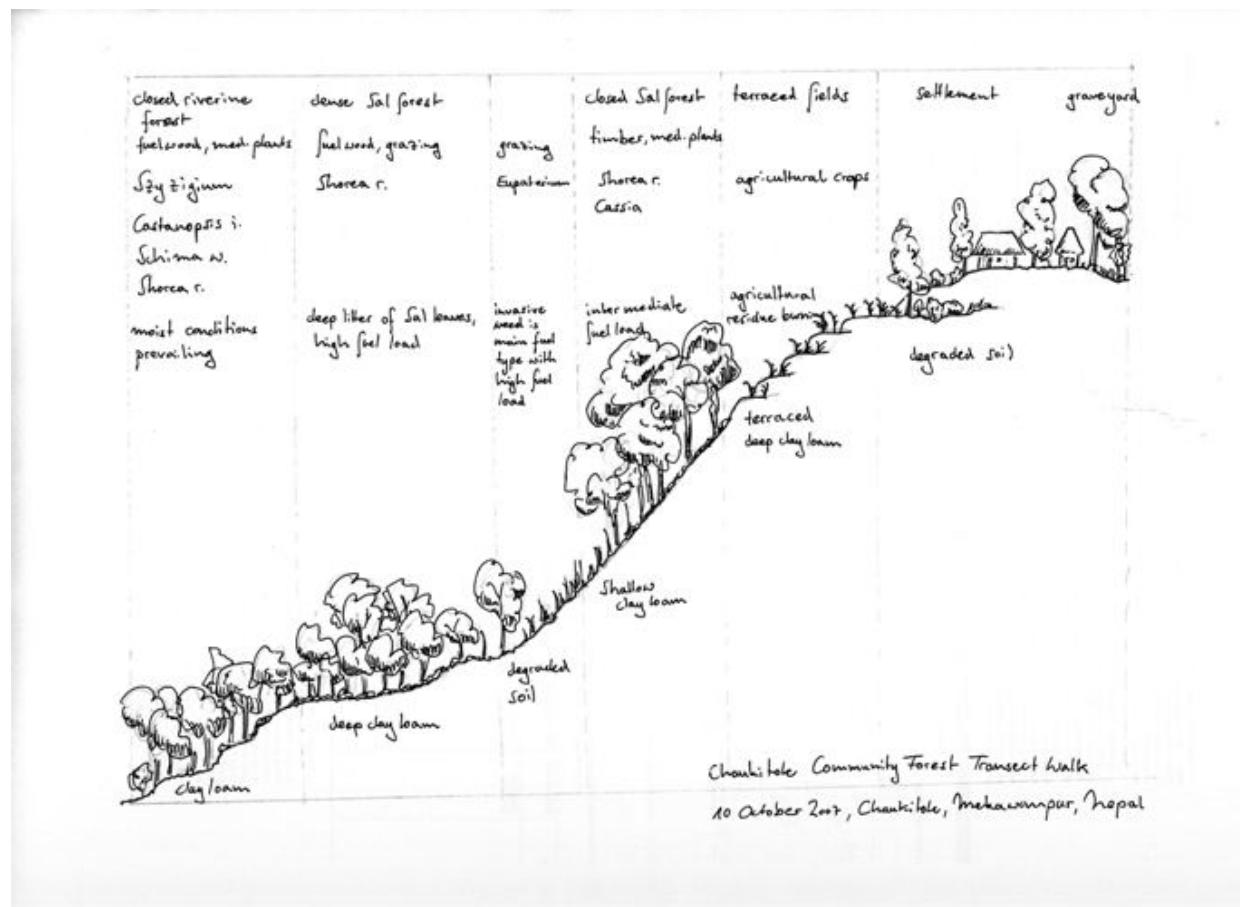
Date: **12 October 2007, Friday**

| | |
|-------|-------------------------------------------------------------------------------------------------------------------------------|
| 10.00 | Training Objectives by SP Sharma |
| 10.10 | Welcome Address by the member CFUGC |
| 10.20 | Key address and hand-over of the training equipments / materials to the Chairman, CFUG, by the Honorary Guest, German Embassy |
| 10:40 | Vote of thanks and closing of the ceremony by the Chair |
| 10:50 | Refreshment |

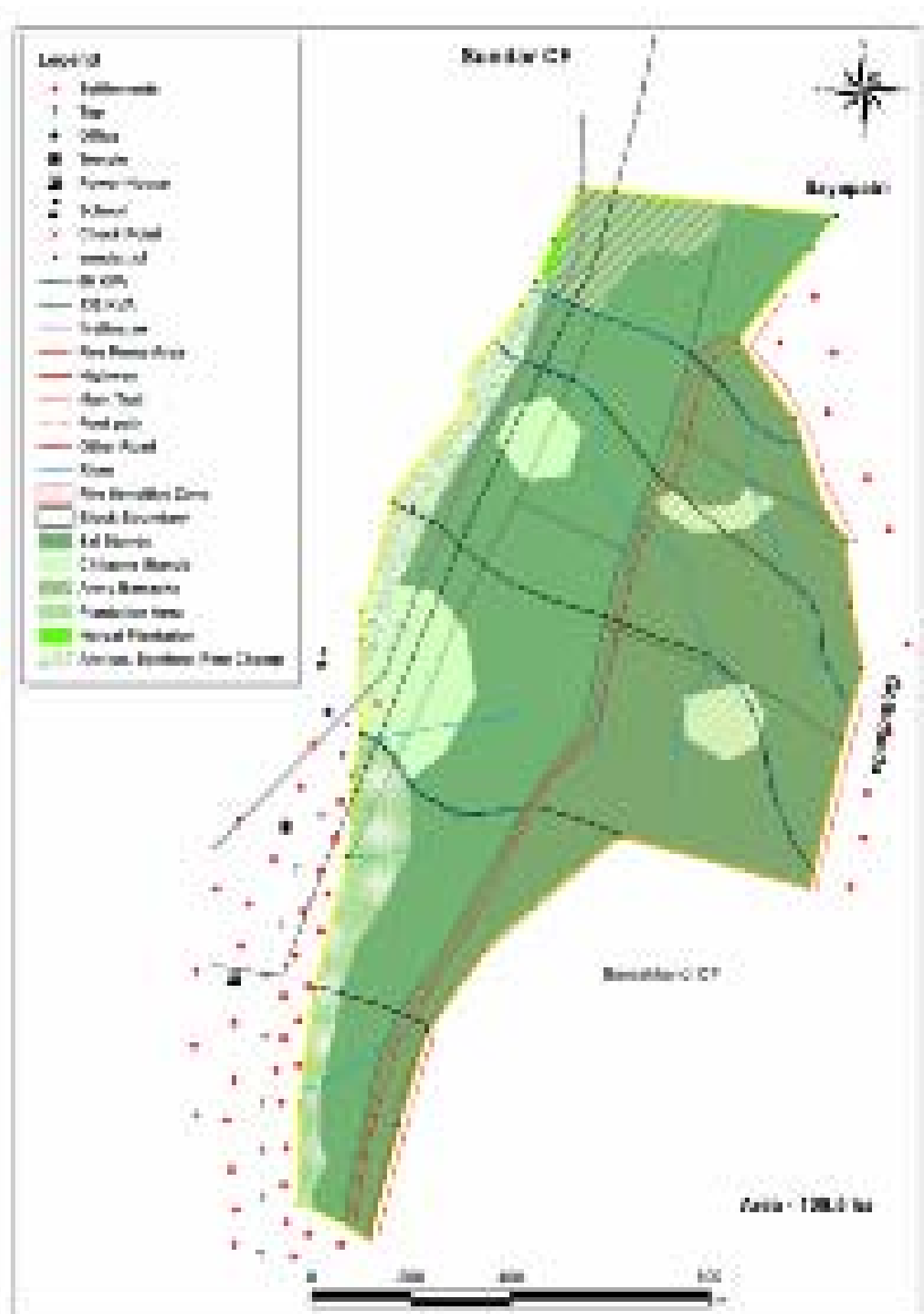
Annex VI: The participatory resource map (PRM) of Sundar Community Forest, Chaukitole, Hetauda, Nepal



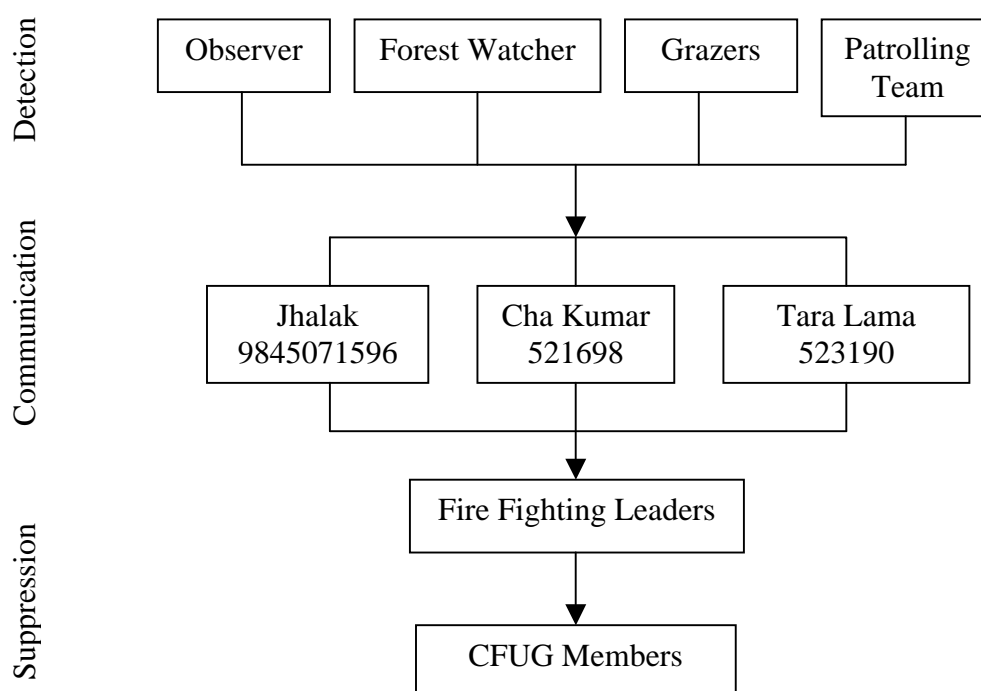
Annex VII: Transect of Sundar Community Forest, Chaukitole, Hetauda, Nepal (by D. Kraus)



Annex VIII: Fire risk reduction map (FREM)



Annex IX: A fire communication system adopted by the CFUG



Annex X: Fire fighting leaders group

(1st ten person ready for fire suppression with the fire fighting equipments)

1. Mrs. Uma Devi Regmi
2. Mr. Jhalak Gautam
3. Mrs. Sakuntala Thapa
4. Mrs. Ganga Subedi
5. Mr. Chha Kumar Dangol
6. Mrs. Padma Devi Acharya
7. Mr. Budhi Prasad Poudel
8. Mr. Sanjev Lopchan
9. Mr. Raju Malla
10. Mrs. Ranjana Pariyar

Annex XI: Fire Monitoring and Evaluation Sub Committee

1. Mr. Buddhi Prasad Poudel
2. Mrs Tara Lama
3. Mr Raju Malla
4. Mrs Nirmala Gole
5. Mrs Sakuntala Thapa
6. Mr Jaya Ram Pudasaeni
7. Mrs Uma Regmi

Annex XII: The five-years action plan (5YAP)

| S.N | Activity | Unit | No | Where | When | | | | | Responsible | Remarks |
|-----|-----------------------------------------------------------|--------|----|----------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|------------------------|-----------------------|
| | | | | | 2007 | 2008 | 2009 | 2010 | 2011 | | |
| 1 | Fire Hazard Clearance | Ha. | 5 | Gadhi-9, Chauki Tole and Saypatri | Nov | Nov | Nov | Nov | Nov | Ms. Ranjana Pariyar | |
| 2 | Controlled Burning | Even t | 2 | Along the Fire Line & hazard areas (near Gothdada & Saypatri settlement) | Dec & Mar | Dec & Mar | Dec & Mar | Dec & Mar | Dec & Mar | Mr. Subash | |
| 3 | Fire Line Construction | Mete r | | Shown in the Map | | Mar/ Apr | Mar/ Apr | | | Mr. Chha Kumar Dangol | |
| 4 | Fire Line Maintenance | | | Existing and newly constructed fire lines | Nov/ Dec | Nov/ Dec | Nov/ Dec | Nov/ Dec | Nov/ Dec | Ms. Padma Devi Acharya | |
| 5 | Fire Watcher | No | 2 | Focus on Fire sensitive area | Apr-July | Apr-July | Apr-July | Apr-July | Apr-July | Mr. Budhi Poudel | |
| 6 | Water Source Protection | No. | 2 | Sundar drinking water and Drinking water corporations water source | | | | | | Ms. Sushila Sanjel | |
| 7 | School Program (Fire Awareness Class for 6, 7 & 8 grades) | No. | 2 | Shree Jyoti and Devi School for 6/7/8 grades | | Jan/ Feb | | | | Ms. Tara Lama | |
| 8 | Develop and Mount Information Board | No. | 7 | Chauki Tole-2, Sayapatri CF area-2, Goath Danda- 1 Banaskhandi-1 Samari Bridge-1 | | Nov | Nov | | | Mr. Badri Joshi | |
| 9.1 | Awareness Workshop on Forest Fire | No. | 2 | Sundar CF and Goathdada area | Nov & Dec | | | | | Mr. Prabhakar kafley | |
| 9.2 | Awareness Workshop on Forest Fire | No. | 2 | Sundar CF and Sayapatri CF | | Nov | | | | Mr. Jhalak Gautam | |
| 10 | Street Drama | No. | 2 | Samari and Chauki Tole area | | Apr | | | | Mr. Bishow Nath Dhakal | |
| 11 | Pamphlet, Poster Production Distribution | | | Makawanpur District | | | Mar | | | Mr. Jhalak Gautam | |
| 12 | Patrolling | | | In and around the CF | Apr-June | Apr-June | Apr-June | Apr-June | Apr-June | Executive committee | Rotation, as per need |

| | | | | | | | | | | | |
|------|------------------------------------------------------------|-----|---|-------------------------------------------------------------|-----------|--|--|--|--|-------------------------------------------|----------------------------------------------|
| 13 | Networking for Forest Fire Control | | | | | | | | | Mr. Buddhi Poudel, Ms. Padma Devi Acharya | |
| 13.1 | FECOFUN | No. | 2 | FECOFUN Office | Oct & Apr | | | | | | Discuss and develop strategy and action plan |
| 13.2 | Range Post (RP) Level Monitoring and Evaluation Networking | No. | 2 | Harnamadhi and Bhaise RP Monitoring & Evaluation Networking | Oct & Apr | | | | | | |
| 13.3 | Neighbor Community Forest | No. | 4 | CFUGs | Oct-Apr | | | | | | |
| 14 | Operation of Fire Fighting Tools | | | Within and Outside CFUG | | | | | | Mr. Ananda Dhakal | as per need |
| 15 | Reporting and Monitoring of Activities | | | All Activities | | | | | | Sub Committee | |

Annex XIII: Programme of the Closing and Certification Ceremony

Closing and Certification Ceremony

Training Course on Community-based Fire Management (CBFiM) for Community Forest
Users Group
(9-15 October 2007)

| | |
|----------------------------|----------------------------------------------------------|
| Chair | Chairman, Community Forest Users Group Committee (CFUGC) |
| Chief Guest | Mr. Rishi Ram Tripathi DFO, Makawanpur |
| Training Coordinator | Sundar Pd. Sharma |
| Guest | Mr. Siva Ram Thapa CFCMC, Bhaise |
| Guest | Mr. Laxman. Katuwal CFCMC, Harnamadi |
| Training Participants (24) | |
| Local media persons | |

Master of ceremony: Mr....., CFUG

Schedule

Venue: Chaukitole, Hetauda, Makawanpur (Office of Sundar CFUGC)

Date: 15 October 2007, Monday

| | |
|-------|-----------------------------------------------------------------|
| 10.00 | Welcome Address by the member CFUGC |
| 10.10 | Address by the Training coordinator |
| 10.20 | Speech from Participant's representative |
| 10.30 | Certificate distribution by the Chief Guest and key note speech |
| 10.50 | Vote of thanks and closing remarks by the Chair |
| 11:00 | Refreshment |
