Appendix A-1
Schedule for Baseline (Total households) Survey

1 Background information of the respondent

1. District: 
   2VDC: 

3. Village: 
   3. Household No: 

4. Respondent’s name: 
   5. Age: 
   6. Sex: 

7. Caste/ethnicity: 
   8. Religion: 

9. Type of family: a) Joint 
   b) Nuclear 
   c) Others 

10. Family size (numbers of family members): 

11. Socio-demographic characteristics: (Please tell me about age, sex, marital, 
educational, occupational and health status of each family member)

<table>
<thead>
<tr>
<th>S. N</th>
<th>Name</th>
<th>Relation with HH head</th>
<th>Age</th>
<th>Sex</th>
<th>Marital status</th>
<th>Literacy / Educatio n status</th>
<th>Occupational status</th>
<th>Remarks</th>
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12. Landholding size? a) .................Ropani/Bigha/Kattha  b) Landless 

13. Types of the arable lands: Khet....... and Bari....... 

14. What kinds of crops do you grow in your Khet/Bari according to season? 
   a) Winter.............  b) Summer.............  C) Rainy season ............. 

15. How many months are cereal grains sufficient to feed your family members? 
   ............ months 

16. Please tell me monthly income of your family? Monthly income: Rs...... 

17. What are source of incomes? ................................................ 

18. Did you or any in your family suffer from malaria fever for the last three months? 
   19. If yes, what did you go for treatment? .........................
Appendix-2
Fever Survey Form

Date of Home Visit:

1. District:
2. VDC:
3. Village:
4. Household head’s Name:
5. Respondent’s Name:
6. Has anyone in your household had fever within a month? (a) Yes 2 (No)
7. If yes, please give me following information in detail.

<table>
<thead>
<tr>
<th>Who had fever?</th>
<th>Age</th>
<th>Sex</th>
<th>Slide No.</th>
<th>Is still there fever?</th>
<th>Date &amp; days of fever</th>
<th>Types of fever</th>
<th>Treatment at home</th>
<th>Treatment at SHP/drug retailers or Hospital or TH</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
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451
Appendix A-3
Interview Schedule for household survey

(This schedule was translated in Nepali using local terms/concepts. A household head or a responsible adult person at time of home visit were interviewed this schedule)

I Background information of the respondent

101. Village Development Committee: ......................
102. Ward No: ........ Village: ......................
103. Household No.: 104. Household head name: ......................
105. Respondent’s name: ................................
108. Caste/ethnicity: ................................
109. Religion: ................................
110 Type of family: a) Joint b) Nuclear c) Others ......................

II Demographic and socioeconomic condition

201 Family size (numbers of family members):
202 Socio-demographic characteristics: (please tell me about age, sex, marital, educational, occupational and health status of each family member)

<table>
<thead>
<tr>
<th>S. N</th>
<th>Name</th>
<th>Relation with HH head</th>
<th>Age</th>
<th>Sex</th>
<th>Marital status</th>
<th>Literacy / Education status</th>
<th>Occupational status</th>
<th>Remarks</th>
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</tbody>
</table>

203. How long have you been living in this village? ......................
204. From where and when did you settle in this village? (For migrated households).
   a) From ................................ b) When ........................................
205. Has any one of your family gone to foreign country? a) Yes b) No
207. If yes, please tell me who has gone?
   a) ....................... where ....................... For how long? .................
   b) ....................... where ....................... For how long? .................
208. Landholding size? a) ............... Ropani/Bigha/Kattha  b) Landless
209. Types of the arable lands: Khet........ and Bari........
210. What kinds of crops do you grow in your Khet/Bari according to season?
   a) Winter.......... b) Summer...........C) Rainy season.........................
211. How many months are cereal grains sufficient to feed your family members?
   ............ months
212. Please tell me monthly income of your family? Monthly income: Rs..............
213. What are source of incomes? ..................................................
214. Could you tell me your other properties such radio, TV, bicycles, motorcycles, tractors, bullock carts, biogas plant etc?..............................
215. Could you tell me numbers and kinds of cattle that you have?
   a) ......................... b) ......................... c) .........................

III Physical environment and sanitary conditions
301. Types of house: .................................................................
302. Please tell me the number of rooms of your house? And kitchen room?
 .................................................................
303. Condition of windows/ventilation? ........................................
304. Where do you keep cattle? Please tell me about cattle shed / space?
   a) .........................  b) Distance from House .................
305. Do you have a latrine? a) Yes b) No
306. If yes, please tell me the type?
   a) Cemented water- seal  b) Pit and stone wall  c) other............
307. Please tell me the sources of drinking water and links with fever?
   a) Source: ....................... 
   b) Effect of sources of water? ........................................
   c) Any relation to fever? ....................... 
   d) What and how? .......................
308. What is the sanitary condition of surrounding of the house?

309. What are the sources of water for the irrigation of crops land / paddy field?
   a) Traditional canal  b) Concrete canal
   c) Rain fed  d) other

310. Could you tell me type and distance of forest belonging to this village?
   a) Type: ...................
   b) Distance: ......................

311. How often do your family members visit the forest for collecting fodder, grass, firewood and any other purpose?

IV Knowledge / perceptions of febrile illness and malaria

401. Please tell me the illnesses that are common in this village according to the seasons?

402. Which are the most common illnesses according to seasons?
   a) Summer .................
   b) Monsoon .................
   c) Winter .................

403. Which season is associated with grater susceptibility to illness?

404. Which places are associated with greater susceptibility to illness?

405. What are the main causes of illness?

405.1 Can illness be a result of evil spirits (bhut, lagu/Lagani)? What kinds of evil spirits?

405.2 Can illness be caused by witchcrafts? Or Deuta, Kuldeuta (god/goddess)?

405.3 Can illness be a result of bad Karma?

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405.4 Can illness be the result of *grahadasha* (bad position of planets)?

405.5 Can *kira/kitanu* (insects/germs) cause the illness?

405.6 Can cold-hot/changing climate cause the illness?

405.7 Can imbalanced diet / lack of food cause the illness?

405.8 Can *kamjori* (body weakness) cause the illness?

405.9 Can *phoharmaila* (lack of sanitation/hygiene) cause the illness

406. Any of the above mentioned illnesses/diseases can be transmit from one person to another? If yes, what are they?

407 How do diseases spread from one person to another?

408. Would you tell me the name of different kinds of fevers?

409. Could you categorize all fevers into different groups according to your local terms and perceived causes?
   a) ........................................ b) ........................................
   c) ........................................ d) ........................................

410. Which fevers are most common between these categories in which season?
   a) Illness ................................... season ........
   b) Illness ................................... season......
   c) Illness ................................... season ......

411. Can a fever be transmissible among the people? a) Yes  b) No
   If yes, which ones and how do they spread?
412. Has any one of your family members had fever?  (If no, move to Q. No. 407)

<table>
<thead>
<tr>
<th>On the day</th>
<th>Last 1-3 months</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A) Who had?</strong></td>
<td><strong>A) Who had?</strong></td>
</tr>
<tr>
<td>1) Age: ....  Sex: ....</td>
<td>1) Age: ....  Sex: ....</td>
</tr>
<tr>
<td>2) Age: ....  Sex: ....</td>
<td>2) Age: ....  Sex: ....</td>
</tr>
<tr>
<td><strong>B) Tell me types of fever? Name?</strong></td>
<td><strong>B) Tell me types of fever? Name?</strong></td>
</tr>
<tr>
<td>1) .....................</td>
<td>1) .....................</td>
</tr>
<tr>
<td>2) .....................</td>
<td>2) .....................</td>
</tr>
<tr>
<td><strong>C) Why the name?</strong></td>
<td><strong>C) Why the name?</strong></td>
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<tr>
<td>1) .....................</td>
<td>1) .....................</td>
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<td>2) .....................</td>
<td>2) .....................</td>
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<tr>
<td><strong>D) How did you know?</strong></td>
<td><strong>D) How did you know?</strong></td>
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<td>1) .....................</td>
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<td>2) .....................</td>
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<td><strong>E) How many days?</strong></td>
<td><strong>E) How many days?</strong></td>
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<td>1) .....................</td>
<td>1) .....................</td>
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<td>2) .....................</td>
<td>2) .....................</td>
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<tr>
<td><strong>F) Tell me the symptoms</strong></td>
<td><strong>F) Tell me the symptoms</strong></td>
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<td>1) .............................</td>
<td>1) .............................</td>
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<td>2) ...........................</td>
<td>2) ...........................</td>
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<td><strong>G) Mild or sever?</strong></td>
<td><strong>G) Mild or sever?</strong></td>
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<td>1) .....................</td>
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<td>2) .....................</td>
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<td><strong>H) Possible cause of fever?</strong></td>
<td><strong>H) Possible cause of fever?</strong></td>
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<tr>
<td>1) .....................</td>
<td>1) .....................</td>
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<td>2) .....................</td>
<td>2) .....................</td>
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<tr>
<td><strong>I) Treatment?</strong></td>
<td><strong>I) Treatment?</strong></td>
</tr>
<tr>
<td>a) Where did you go at first</td>
<td>a) Where did you go at first</td>
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<tr>
<td>1 ............................</td>
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<td>2 ............................</td>
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<tr>
<td>b) If not cured, did you seek medical help from other persons?</td>
<td>b) If not cured, did you seek medical help from other persons?</td>
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<td>1 ............................</td>
<td>1 ............................</td>
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<td>2 ............................</td>
<td>2 ............................</td>
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<tr>
<td>c) After how many days did you seek first and second medical help?</td>
<td>c) After how many days did you seek first and second medical help?</td>
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<td>1 ............................</td>
<td>1 ............................</td>
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<td>Question</td>
<td>Option 1</td>
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<tr>
<td>d) If you visited heal post/clinic/medical shop, finger prick blood was taken/examined?</td>
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<tr>
<td>e) If the blood was taken, why did you give?</td>
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<tr>
<td>f) Name of prescribe drugs?</td>
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<tr>
<td>g) Did you feed medicine as instructed by health care providers</td>
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<tr>
<td>J. Cost of treatment for each fever</td>
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<tr>
<td>K) Was illness cured?</td>
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<tr>
<td>L) Did fever recur?</td>
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<tr>
<td>M) If recurred? Tell me about</td>
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<tr>
<td>N) How many days could the patient be unable to carry his or her routine works?</td>
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</table>

413. Had any one of your family members got malaria in past (within 10 years)?
   If yes, who and when had? .................................................................

414. Have you ever had malaria? a)Yes   b) No
415. If yes please tell me about:
   a) When........, Symptoms.........................................................
   c) Treatment.................................................................................

416. How do you know if you or your family members had auol/malaria?
a) By the symptoms
e) Other

417. Could you tell me symptoms associated with malaria/aulo?
   a) ................................................
   b) ................................................
   c) .............................................
   d) .............................................
   e) .............................................
   f) .............................................

418. What would be the cause of aulo fever?
   ................................................

419. How can malaria acquired? Tell me different conditions?
   a) .............................................
   b) .............................................
   c) .............................................
   d) .............................................
   e) .............................................
   f) .............................................

420. Is malaria a communicable disease? a) Yes b) No

421. If yes, how does it spread among people?

422. How did you know that mosquitoes cause and cause to spread aulo?

423. What do you think malaria is severe or mild illness?
   a) Mild b) severe c) fetal

424. What is the chance of malaria causing death?
   a) not possible b) possible c) highly possible

425. What kind of treatment (herbal / modern drugs) is best for the treatment of malaria?

426. What are the chances that people in your village will contract malaria?
   a) not possible b) possible c) highly possible

427. What are the chances that you and your family will contract malaria?
   a) not possible b) Possible c) Highly possible

428. If possible or highly possible, why ..........................................

429. If not possible, why ............................................... 

430. To what extent does malaria reduce the work ability of a person affected during one episode of malaria?
   ................................................
V knowledge / perception of malaria prevention / control

501. Do mosquitoes have any role in malaria/aulo?
   a) In cause of malaria/aulo ............ a) In spread of malaria/aulo ............

502. What types of mosquitoes cause or transmit the diseases?

503. What do you think about malaria, whether it is preventable?

504. If yes, how can it be prevented?

505. How can be protected against mosquito bites?

505. If he or she says bed net, can use of bed net protect you from malaria?

506. Do you have any idea about methods for mosquito control?
   a) .................................... b) ....................................... ..
   c) ..................................

VI Practices related to the prevention of malaria

601. Are you currently using something for the prevention of malaria?
   a) Yes       b) No

602. If yes, please tell me what are you using?
   a) .................. b)............................... ..

603. What things do you often use to protect against mosquito bite?
   a) .................. b) .................... c) ....................

604. Are you or your family members using bed net currently?
   a) Yes       b) No

605. If yes, when did your family start to use the net? .........................

606. Who gave you at first? a) Bought Myself       b) Other persons .............
   d) Institute ..................

607. Why did you accept it? ....................

608. Was there any hesitation on the part of your family to use it?

609. Which seasons and months do you use the net regularly?
   a) Yes, hot and rainy season (March/April............Aug/Sept/Oct....)
b) Yes, only two/three months (.......................... Months)
c) Other ..........................................................

610. Who often use the bed net in the family?
a) All family member    b) Only children    c) Only household head
d) Married couple      e) other......................

611. Do you have any problem/constraints using bed net?
........................................................................................................
........................................................................................................

612. Are there any traditional / local practices to drive mosquitoes off?
    a) Yes    b) No

613. If yes, tell me what they are? ......................................................

614. How often do you use these? ......................................................

VII Perception / attitude toward malaria control activities

701. Could you tell me malaria control activities in this area?
.................................................................................................

702. Has your house ever been sprayed with insecticide? a) Yes    b) No
    If yes, when ........... and by whom........................................

703. Was the whole house sprayed? ..............................................

704. What did spraying men tell you before spraying?
    a) Nothing    b) It could kill bedbugs, fleas and mosquito
c) Protect from malaria/aulo
    b) Other..............................

705. Why do you accept the spraying activities?
.................................................................................................

706. Did you see any effect of the insecticide spraying?
.................................................................................................

707. How do you think about spraying programme?
    a) ........................................
    b) ........................................

708. How often do health workers visit your home?
    a) Not at all ................................b) once year during spraying programme
    b) During immunization activities d) other......................
709. If yes, what did they do at your home?

..............................................................

710. Have you visited the health facility when you or your family member had general fever or malaria fever?  a) Yes    b) No (If no, go to question No. 718)

711. If yes, when ............ why ..................................................

712. Did health staff ask you in detail about illness / fever?

..............................................................

713. What did you feel whether they examined illness properly and instruct you taking drugs?
   a) Examination..............................
   b) Instruction .............................

714. Did they give you advice about some ways for protection against malaria?

..............................................................

715. What did you feel about behaviour of the staffs?

..............................................................

716. In your experience, how was/is the health service of sub-Health Post?

..............................................................

717. Are you satisfied with the health post services? ..........................

718. If no, could you tell me the barrier to have access to the health post services?

..............................................................

719. If not visited health post, where do or did you go for the treatment of fevers or malaria?  ..........................................................

720. When and why  ..........................................................

721. Why did you go there instead of going to health post?

..............................................................

722. Did treatment providers ask you in detail about illness / fever?

..............................................................

723. What did you feel whether they examined illness properly and instruct you taking drugs?
   a) Examination..............................
   b) Instruction .............................

724. What did you feel about the behaviour of treatment providers?

..............................................................
725. Are you satisfied with the services of private practitioners/drug retailers?

726. Did they advise you about some ways for protection against malaria?

726 In your family who decides where to go for medical help?

727 What factors do you consider before going somewhere for the treatment?
   a) ..............................................
   b) ..............................................
   c) ..............................................
   d) ..............................................
   e) ..............................................
   f) ..............................................
APENDIX-4
Question-Guide for In-Depth Interview

1. General Information
   Name and address of informants
   Family Size, Castes/class background
   Occupation of Household Members
   Own cultivated land

2. Illness Perceptions/Ideas about Illness
   • What are the illnesses that are most common in this village?
   • Who usually suffers?
   • What are the main causes of illness and diseases?
   • What do you mean by fever?
   • Please tell me causes of fever?
   • Could you categorized fevers into different groups by perceived causes?
   • Please tell me name of above mentioned illnesses that you see most frequently?

3. Knowledge and Perceptions of malaria fever
   • Recognition of malaria fever (Further probing using local terms)
   • Recognition of sign and symptoms (how does illness start, how does it develop?)
   • Past experience of malaria (have you ever had malaria? What happened to you or your family member while suffering from malaria fever?)
   • Knowledge of causation and treatment of malaria (season, mosquitoes, type of mosquitoes, parasites and other factors)
   • Treatment of malaria fever (home treatment, role of traditional healers and modern medicine)
   • Prevention of malaria (are there any traditional methods, purano chalan used against mosquitoes and malaria, use of bednets, sanitation, filling up pits ........)
   • Knowledge about sources of mosquito breeding and reduction of mosquito population
4. Health seeking behaviour

- Have you or any one in your family had malaria fever within one year?
- If yes, please tell me what did you do for treatment
- Home remedy (cooling down body, use of particular food items or avoiding food, use of tablets, use of leftover medicine)
- Where do you get the medicine? Do you have medicine at the moment?
- Use of traditional healers (guruwa, bharra, dhami, Jhankri). In what condition, do you consult traditional healers?
- Treatment at health facilities (SHP, Hospital, drug retailers/private practitioners)
- Parallel and sequential use of different sources of treatment (SHP, Drug retailers, hospital and traditional healers)
- Perceptions of government health facilities (availability of drugs, diagnostic facility and staff, accessibility and perceived quality of services)
- Perceptions of private health facilities (drug retailers/private practitioners)

5. Protection and preventive behaviour against malaria and mosquitoes

- How do you protect malaria?
- How do you protect against mosquito bites
- What do you drive mosquitoes off? Use of local herbs/grass?
- Do you use bednets? Do you have bednets at the moment?
- Who often do you use bednets? When do you bednets? Certain months or seasons? Why?
- What are the barriers to using bednets?
- Insecticide spraying proramme (last cycle of spraying, perceptions about government insecticide spraying programme)
Appendix- 5
Guidelines for Focus Group Discussion

Place:
Date:
Number of participants:
Moderator:
Observers/assistants:
Oral consent:

1. Starting the discussion
   - Introduce each other
   - Summarize the purpose of the study
   - Describe the focus group discussion process
   - Review the statement of informed consent and obtain inform consent
   - Encourage confidentiality

2. Conducting the discussion
   - How often do villagers suffer from fever / malaria?
   - Types of fever?
   - Which fevers are most common in this village?
   - Could you categorize the fevers into different groups? Perceived cause and nature of fevers?
   - Local terms used in each category of fever?

3. Perceptions of malaria fever
   - Please explain: how does a malaria episode start and how does it develop?
   - Explain main sign and symptoms of malaria?
   - What would be the cause of malaria? Season, climate, mosquitoes and other factors?
   - How does malaria spread in the community?
   - What are the chances that people in your village will contract malaria? Why and how? Please explain.
   - How do you know if you or your family members had malaria?
   - What do you think malaria is mild or severe illness?
   - Does it cause death?
4. Treatment of Malaria

- What is the first step you take to treat the patient?
- When a person suffers of malaria, what do villagers do for treatment at home?
- Do the villagers consult traditional healers during episodes of malaria fever?
- Does traditional healer provide herbal medicines for malaria fever?
- When did you decide to attend the SHP facility?
- When did you visit drug retailers?
- In what stage of illness do you go to the hospital?
- Are there any constraints to seek treatment from SHP facility during malaria episodes?

5. Prevention of Malaria

- What do you think about malaria whether it is preventable/controllable?
- How can it be prevented/controlled? Please explain preventive methods/measure against malaria and mosquitoes.
- What things do you often use to protect against mosquito bites?
- Are there any traditional/local practices to drive mosquitoes off?
- Do you use bed net regularly? Who do not use bednets?
- Please tell me any problems/constraints using bed nets?
- Is there any malaria control activity going in the village?
- What do you feel about malaria control programme/insecticide spraying activity?
- How often do health or malaria workers visit your home?
- What did they do at your home? Did they give you advice/information about protection and prompt treatment against malaria?
- Have you or villagers benefited from malaria control activities?

6. End of Discussion

- Summarising discussion
- Thank participants
- Collect tape recorder, tapes and check it
- Refreshment
APPENDIX-6
Some Photographs of the Study Sites

Paddy field in Kasaroul Banjaria Village of Jhalari

Villagers are planting paddy in the month of Ashadh (End of June)
Settlement in the Terraced land (Pouwa Gahate village of the hill district)

Judiguan of the Mahadevsthan VDC
Rana Tharu’s Homestead in Kasaroul Village

Dangaur Tharu’s House in Bajnaria of Jhalari
A poor farmer (in-migrant) homestead in Kalapani Village in the forest fringe area

Poor Brahmin’s homestead in the hill village where buffaloes are kept on the ground floor
Majority of the poor households sleep under such torn and poor quality bednets

A Dalit woman of the hill showing her an old and torn net
Poor Dalit's household in the hill village. Family shares ground floor with cattle.

Well off Brahmin's cemented house in Mahadevsthan VDC.
Bharra/traditional healers doing jharphuk/ritual healing using his mantra

An old Brahmin traditional healer/jannemanchhe blowing mantra over a patient
A bombo, Tamang traditional healer blowing mantra over affected part of a patient

Tamang Shamans attired in traditional dress and celebrating their special festival
A Guruwa is worshiping ancestral gods in the occasion of Dashain festival.

Dangaura Tharu Girls in Traditional Dress and ready for shakiya dance.