

## **Appendix 2.** Questionnaire and guide for in-depth interviews and participatory mapping exercise.

### **Information according to ethical consideration, given to the respondents prior to the interview.**

1. The respondent was informed about the project, the purpose and expected outcomes.
2. The respondent may ask any question prior to, during or after the interview, and be answered to their satisfaction.
3. The respondent has been given the contact details to the interviewer and may contact them with regards to any queries.
4. The respondent may withdraw from the participation any time.
5. The information gathered during the interview will be handled with strict confidentiality. Names, contact details or exact locations of the respondent's homes or land will not be revealed, shared or published.
6. The respondent's confidentiality is guaranteed as their input will not be attributed to them in person but reported as a population member opinion, or anonymously if direct citation.

### **1. Background information about the correspondent**

**1.1** Gender. male female **1.2** Age. 20-30 30-40 40-50 50-60 60-70 70-80 80-90 **1.3** Occupation. **1.4** Means of transport. How do you move around on Your land? (rank if more than one option) walk bicycle horse car tractor motorbike kumbi taxi other. How do you move around in the wider landscape? (rank if more than one) walk bicycle horse car tractor motorbike kumbi taxi other. **1.5** For whom do you produce food? Who buys/receives/eats the food you produce? (rank if more than one option) In a normal year: Me and my family my neighbors and nearby community the wider society. In a dry year: Me and my family my neighbors and nearby community the wider society. In a wet year: Me and my family My neighbors and nearby community The wider society.

### **2. Personal values attached to Your land and the landscape in which you move around**

**2.1** Farmer identity. Origin: Born: Raised: Lived here since: **2.2** How many generations back have this farm belonged to your family? Describe. **2.3** Would you like your children/grand children to take over after you? **2.4** What does it mean to you to be a farmer? **2.5** Do you find pride and joy of production? Do you farm for money or for pride and joy of production? Would you carry on if profits decreased? Describe. **2.6** Do you feel you have a responsibility towards your family, your community and/or the society to produce food, and to keep your farm/ landscape neat and tidy, and to manage in a way to minimize the negative outcomes of farming? Describe.

**2.7** Farm inheritance. How much of what you know have you learnt from the one who managed this farm before you? And further back? Where did you gain your farming knowledge? Describe. **2.8** Do you enjoy being a farmer? **2.9** Would you have chosen a different job or lifestyle if you were to go back in time?

**2.10** Aesthetic values. Where in Your land do you appreciate exceptional beauty? Describe. **2.11** In the landscape in which you move around? Describe.

**2.12** Recreation Where in Your land are sites for recreation, used by you, your family or others. Walking, running, cycling, canoeing, camping, dog walking, fishing, hunting, etc.? Describe. **2.13** In the landscape in which you move around? Describe.

**2.14** Spiritual/Religious values. Where in Your land are sites of spiritual or religious value? Sites that are associated with connections with gods, spirits or ancestors? Sacred places, graves etc. Describe. **2.15** In the landscape in which you move around? Describe.

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**2.16** Social relations. Where in Your land are sites serving as meeting points, either personal or institutional? Places for rituals and ceremonies? Describe. **2.17** In the landscape in which you move around? Describe.

Box 1. Cultural heritage. The legacy of biophysical features, physical artifacts, and intangible attributes of a group or society that are inherited from past generations, maintained in the present, and bestowed for the benefit of future generations. Cultural landscapes are significant constituents of cultural heritage. Examples: Certain type of forest, bush, grassland, cultivated lands (classical pastoral landscapes, wine, tea, coffee, and fruit plantations, terraced landscapes etc.), certain plants, trees, animal species, solitary trees, hedgerows, alleys, tree lines, drainage ditches, traditional buildings, places for ceremonies, places to collect/harvest flora/fauna and other natural resources for culturally significant purposes (traditional attire, decorations etc).

**2.18** Cultural heritage value, see Box 1. Where in Your land are sites significant for your culture? Describe. **2.19** In the landscape in which you move around? Describe. **2.20** Where in Your land are sites significant for your local history? Describe. **2.21** In the landscape in which you move around? Describe.

### 3 Agricultural activities

**3.1** Where is your house? (Mark at map) **3.2** Other buildings? (Mark at map)

**3.3** Crops. Where are your fields? Indicate crop types. (Mark at map) **3.4** Which traditional /indigenous crops to you use? **3.5** Do you use seeds from your own harvest? **3.6** How do you water your crops? **3.7** Crop yields: Dry year, normal year, wet year

**3.8** Vegetable gardens (mark at map). Do you have a vegetable garden? What vegetables do you grow? **3.9** Do you usually produce enough vegetables to sell?

**3.10** Livestock. What livestock do you have, and how many of each? **3.11** Where do they graze or feed? (Mark at map) **3.12** Do you produce the feed for your livestock? **3.13** Where do the animals stay at night? **3.14** Do your livestock numbers vary in dry, normal or wet years?

### 4. Natural land

**4.1** Mark all places/patches with natural land (land not paved, cultivated or used for grazing etc) Examples: tree lines, ditches, grass margins, stretches of forest or bush, forest corridors, grassland, wetland, rivers.

**4.2** Non-cultivated provisioning services. Where in Your land do you collect **wild foods** (flora/fauna)? Describe. **4.3** In the landscape in which you move around? Describe.

**4.4** How dependent are you of the collection of wild foods? Wild foods constitute % of what we eat, or: very small part small part half large part very large part.

**4.5** Does the dependence of wild foods change in dry years?

**4.6** Where in Your land do you collect **building materials**? Describe. **4.7** In the landscape in which you move around? Describe. **4.8** How dependent are you of the collection of building materials? Natural building materials constitute % of what we build with, or: very small part small part half large part very large part. **4.9** Does the dependence of natural building materials change in dry years?

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**4.10** Where in Your land do you collect **fire wood**? Describe. **4.11** In the landscape in which you move around? Describe. **4.12** How dependent are you of the collection of fire wood? Collected fire wood constitutes % of what we use for cooking/heating etc., or: very small part small part half large part very large part. **4.13** Does the dependence of collected fire wood change in dry years?

**4.14** Where in Your land do you collect **traditional medicines**? Describe. **4.15** In the landscape in which you move around? Describe. **4.16** How dependent are you of the collection of traditional medicines? Traditional medicines (which your family collects) constitute % of what we use for remedies of illnesses, or: very small part small part half large part very large part. **4.17** Does the dependence of traditional medicines (which your family collects) in dry years?