**Survey for productive activities with access to electricity**

1. **General information**

Date: …../..… /….…

Location:

Number of user:

Interviewed information:

Name: ...

Age: ….

Role: ….

Sex: …

Education: ...

* 1. Which is the economic activity?

1. Store
2. Hairdressing
3. Hospage house
4. Lodging house
5. Garage
6. Handcrafts
7. ………………
   1. How many persons works in the building?

1. How many rooms there are in the building?

A4. How often do you pay your electricity bill?

A5. How much do you pay the bill on average every time? …...Bs

A6. Which is the monthly average electricity consumption of your activity place? ........kWh.  
  
A7. Do you have any comments about the electricity supply?

A8. Do you have a meter installed in your activity? Do you check it?

**B. History & Forecast**

B1. How the affluence change after the electrification? Do you think will increase or decrease? Why?

B2. Are the energetic consumptions change among the years?

B3. Did you buy new equipment after the electrification?

B4. Have you in program in nearly future to buy new equipment? Why? Which?

B5. Does the size of the building has change after the electrification? (New rooms)

B6. Does the service change after the electrification?

B7. Is the number of persons works in the building increase or decrease after the electrification? Numbers?

B8. Does the money spent in electricity has change trough the years?

**C. Electricity use and supply**

C1. Is your building connected to a stand-alone power system (GenSet or solar)? □ Yes □ No

C2. Which is the size of the power system?

C3. Which are the devices using electricity in the building?

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| appliance  i | Nominal Power  Pij [ W ] | Number  Nij | Average daily use  “ hij” [ h ] | Functioning window  Wf,ij  (seasonality) | Minimum time  Dij [min] | Seasonality  (examples) | When did you buy it? |
| in. lights (lamp, bulb) |  |  |  |  |  |  |  |
| out. lights (lamp, bulb) |  |  |  |  |  |  |  |
| radio |  |  |  |  |  |  |  |
| phone/battery charger |  |  |  |  |  |  |  |
| laptop |  |  |  |  |  |  |  |
| printer |  |  |  |  |  |  |  |
| fax-phone |  |  |  |  |  |  |  |
| fridge |  |  |  |  |  |  |  |
| freezer |  |  |  |  |  |  |  |
| Mixer |  |  |  |  |  |  |  |
| hot plate |  |  |  |  |  |  |  |
| kettle |  |  |  |  |  |  |  |
| washing machine |  |  |  |  |  |  |  |
| vacuum cleaner |  |  |  |  |  |  |  |
| fan |  |  |  |  |  |  |  |
| air conditioner |  |  |  |  |  |  |  |
| electric heater |  |  |  |  |  |  |  |
| water pump |  |  |  |  |  |  |  |
| TV-dvd |  |  |  |  |  |  |  |
| Water pump |  |  |  |  |  |  |  |
| electric iron |  |  |  |  |  |  |  |
| Sewing machine |  |  |  |  |  |  |  |
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C4. Which are the devices using electricity in the building before the electrification?

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| appliance  i | Nominal Power  Pij [ W ] | Number  Nij | Average daily use  “ hij” [ h ] | Functioning window  Wf,ij  (seasonality) | Minimum time  Dij [min] | Seasonality  (examples) |
| in. lights (lamp, bulb) |  |  |  |  |  |  |
| out. lights (lamp, bulb) |  |  |  |  |  |  |
| radio |  |  |  |  |  |  |
| phone/battery charger |  |  |  |  |  |  |
| laptop |  |  |  |  |  |  |
| printer |  |  |  |  |  |  |
| fax-phone |  |  |  |  |  |  |
| fridge |  |  |  |  |  |  |
| freezer |  |  |  |  |  |  |
| Mixer |  |  |  |  |  |  |
| hot plate |  |  |  |  |  |  |
| kettle |  |  |  |  |  |  |
| washing machine |  |  |  |  |  |  |
| vacuum cleaner |  |  |  |  |  |  |
| fan |  |  |  |  |  |  |
| air conditioner |  |  |  |  |  |  |
| electric heater |  |  |  |  |  |  |
| water pump |  |  |  |  |  |  |
| TV-dvd |  |  |  |  |  |  |
| Water pump |  |  |  |  |  |  |
| electric iron |  |  |  |  |  |  |
| Sewing machine |  |  |  |  |  |  |
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C5. Can you put in a priority and utility order the electric appliances? (appliances of the table before)

How much you’re willing to pay for these appliances?

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TABLE 3

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Used** | **Purpose** | **Supply** | **Price** | **Quantity** | **Frequency** | **Transport** | **Time** |
| **Biomass** |  |  |  |  |  |  |  |  |
| **Diesel** |  |  |  |  |  |  |  |  |
| **Gasoline** |  |  |  |  |  |  |  |  |
| **GLP** |  |  |  |  |  |  |  |  |
| **Kerosene** |  |  |  |  |  |  |  |  |
| **Charcoal** |  |  |  |  |  |  |  |  |

**Others:**

**Purpose:** Cooking (C), Space Heating (SH), Water Heating (WH), Electricity (E), Others (O);

**Transport:** Hand (H), Motorbike (M), Car (C), Truck (T), Others (O);

**D. Candles use and supply**

D1. Do you use candles?   □ Yes □ No

D2. How many candles do you buy? How much do the candles cost?

D3. Where do you buy it? How much time do you need for purchasing it?