

Annex 1

Site Assessment – Lightwell

Date: _____

Assessor: _____

Checked by: _____

Village name: _____

Sub-district: _____

Leader name: _____

1. Base data

You may answer more than one option

1.1 Number of population: _____

1.2 Number of families: _____

1.3 Number of poor families: _____

1.4 Number of children < 5 yrs: _____

1.5 Water consumption (liters/person/day)

- Drinking _____
- Cooking _____
- Washing _____
- Bathing _____
- Other: _____

1.6 Where do families fetch drinking water from?

- a. Deep borehole (> 20 meters)
- b. Spring
- c. Raintank
- d. Shallow well
- e. River
- f. Other: _____

1.7 What are families' opinions concerning the quality of drinking water?

- a. Clear
- b. Turbid
- c. Colour and Odour
- d. Potential pathogen contamination
- e. Industrial contamination
- f. Agricultural contamination
- g. Other: _____

1.8 What treatment do you do to get safe water?

- a. No treatment
- b. Boiling using _____
- c. Filtration using _____
- d. Disinfecting using _____
- e. Other: _____

1.9 How long do you spend to fetch water per day?

- a. Less than 30 minutes
- b. 30 minutes to 1 hour
- c. 1 to 2 hours
- d. Other: _____

1.10 How much do you spend to buy water?

- a. Less than 10\$ per month
- b. 10 -50\$ per month
- c. Other: _____

2. Proposed water sources and location for LW

Please discuss these questions with community, leaders and local government.

2.1 What are available water source

- a. Deep borehole (> 20 meters)
- b. Spring
- c. Raintank
- d. Shallow well
- e. River
- f. Other: _____

2.2 Which one is used for lightwell?

- a. First option: _____
- b. Second option: _____

Comments on the feasibility of water source options (distance, quantity, quality, etc).

2.3 Proposed location of lightwell

- a. First option: _____
- b. Second option: _____

Comments on the feasibility of LW's location (distance, land owner, etc).

3. Lighting

3.1 What is the current lighting source for families?

- a. Government electricity
- b. Generators
- c. Other: _____

3.2 How is the mobile phone coverage in the village

- a. Good
- b. Bad
- c. No coverage

3.3 Community request/preference

- Number of households to be let: _____
- Number of additional community light: _____
- Number of charging station needed: _____
- Connection type of charging stations: _____

Please provide layout of the houses in the community and plan of the house.

Additional information:

4. Software components

4.1 Access to the market

What is the nearest town that hardware shops are available? _____

How long is the driving time to that town? _____

4.2 Access to technical assistance

What is the nearest town that electrician/mechanics are available? _____

How long is the driving time to that town? _____

What is the nearest vocational school (SMK)? _____

4.3 Economic condition

Income range: _____

How much are they able to pay for water? _____

Willingness to pay? _____

Housing condition (from observation): _____

4.4 Is there existing committee in the community? a. Yes b. No

If yes, describe the members and function _____

4.5 Is there any fund collection in the community? a. Yes b. No

If yes, what is the fund for? _____

How the financial management? _____

4.6 Is there any hygiene awareness in the community? a. Yes b. Yes in the past c. No

If a yes and presently active, How often is the awareness? _____

In what subject is the awareness? _____

4.7 If there is any evidence of data from the nearby clinic concerning water borne diseases, please describe:

4.8 What are the risks which may damage LW that can be prevented?

a. Landslide

b. Cyclone

c. Flood

d. Other: _____

Please fill up the following questions based on measurement or observation of the first and second option of water sources.

5. Technical data of proposed water sources for lightwell

		Option 1	Option 2
5.1	Water source (WS) name		
	Location of LW		
5.2	Rainy season period		
5.3	Distance of WS from LW	_____ meters	_____ meters
5.4	Ground elevation of WS from LW	Lower than LW, ____ meters Higher than LW, _____ meters	Lower than LW, ____ meters Higher than LW, _____ meters
5.5	The water level from the ground	Rainy season: _____ meters Dry season: _____ meters	Rainy season: _____ meters Dry season: _____ meters
5.6	Estimate the yield (flowrate) of WS	Rainy season: _____ Dry season: _____	Rainy season: _____ Dry season: _____
5.7	Water quality in dry season	a. Clear b. Turbid c. Colour and Odour d. Potential pathogen contamination e. Industrial contamination f. Agricultural contamination g. Other: _____	a. Clear b. Turbid c. Colour and Odour d. Potential pathogen contamination e. Industrial contamination f. Agricultural contamination g. Other: _____
5.8	Describe change of quality during rainy season		
5.9	Other activities using WS?	a. Cooking b. Bathing c. Dish washing d. Cloth washing e. Gardening f. Other: _____	a. Cooking b. Bathing c. Dish washing d. Cloth washing e. Gardening f. Other: _____
5.10	<i>For rainwater tanks</i> Volume of water tank: Height of water tank:	_____ m3 _____ meters	_____ m3 _____ meters
5.11	<i>For shallow well or deep well</i> 1. Well depth from ground 2. Soil formation of well base	_____ meters _____	_____ meters _____
	3. Well lining	a. No lining b. Concrete lining c. Stone/brick masonry d. PVC pipe e. Other: _____	a. No lining b. Concrete lining c. Stone/brick masonry d. PVC pipe e. Other: _____
	4. Well cover	a. No cover b. Improperly covered c. Well covered with _____	d. No cover e. Improperly covered f. Well covered with _____

	<p>5. Means of fetching water</p> <p>If pump is used, pls describe type, characteristics of pump</p>	<p>a. Pump b. Bucket c. Other: _____</p>	<p>a. Pump b. Bucket c. Other: _____</p>
5.12	<p><u>For spring,</u> Is the spring protected?</p>	<p>a. Not protected b. Improperly protected c. Well protected with _____</p>	<p>a. Not protected b. Improperly protected c. Well protected with _____</p>
5.13	<p><u>For stream/river</u> Describe the stream conditions</p> <ul style="list-style-type: none"> - Bank - Base <p>Is there stream intake structure?</p>	<p>Yes/No If yes, describe the structure:</p>	<p>Yes/No If yes, describe the structure:</p>
5.14	<p>Any additional information</p>		

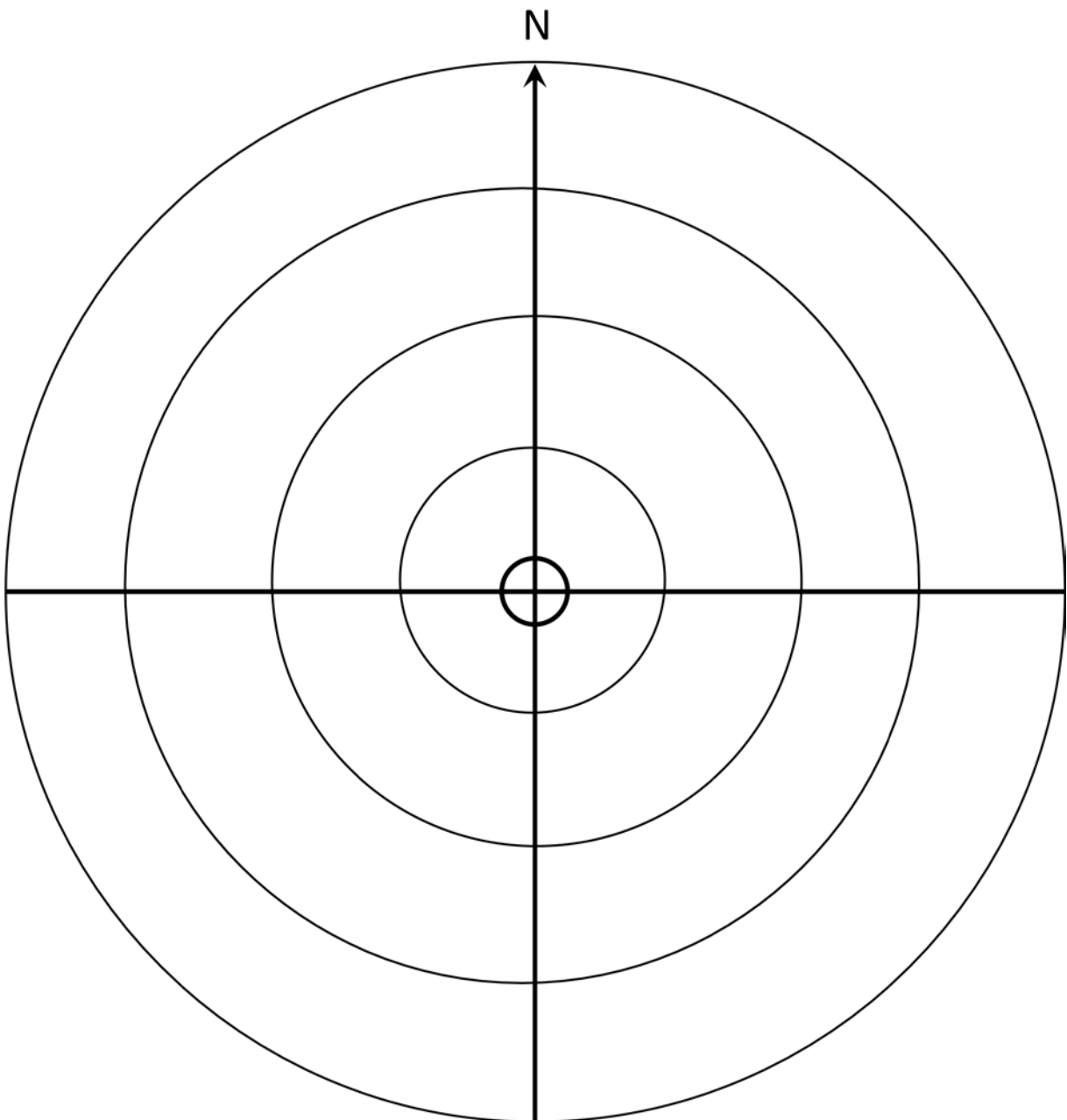
Solar Panel Orientation

This exercise is carried out to determine the angle of solar panel to be able to receive the maximum exposure of solar light energy.

Instructions:

1. Put this paper flat on the ground facing north
2. Place a 10 cm stick on the centre identified on this paper, make sure that the stick is 90° in both axis.
3. Draw the shadow of the stick on this paper.

Site ID : _____ Date : _____
Site name : _____ Local time: : _____
GPS Location : Longitude _____ Latitude _____
Description : _____



Layout of the village, water source, etc.