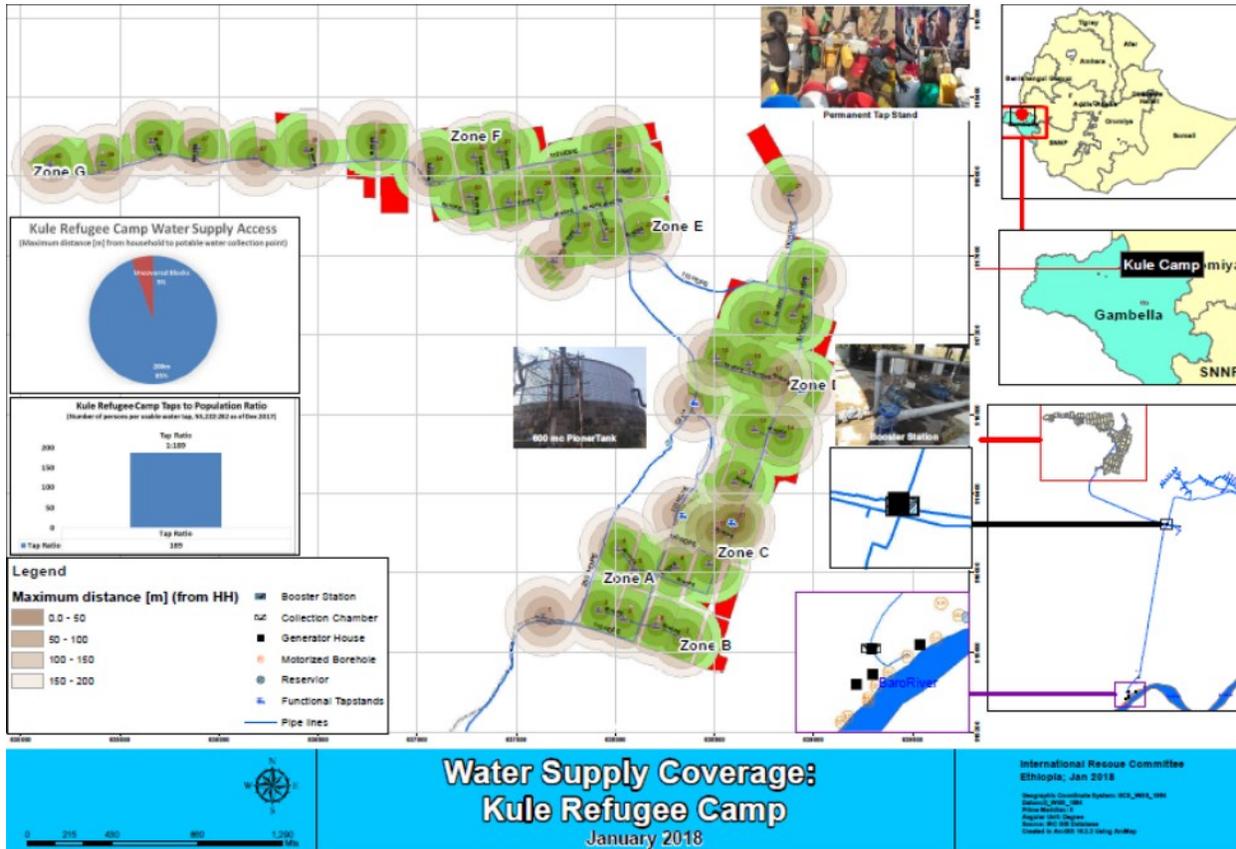


KPC SURVEY Dec, 2017

# KPC Survey Report Gambella Region Kule Refugee Camp



Dec, 2017

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### Acronyms

ARRA	Agency for Refugee and Returnee Affairs
CHW	Community Health workers
CI	Confidence Interval
ECHO	European Commission Humanitarian Organization
EHA	Environmental Health Agent
HH	Household
IRC	International Rescue Committee
KPC	Knowledge Practice and Coverage
UNHCR	United Nations Higher Commission for Refugees
WASH	Water Sanitation and Hygiene

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## **Excutive summary**

The International Rescue Committee (IRC) is a non-Governmental Organization operating in Ethiopia to provide relief services to refugees, victims of drought, disease outbreak and war affected populations

Gambella region is one of the Nine regional state of Ethiopia the region is located in western part of the country and has international boundary with south Sudan, Based on CSA the region total population is approximately 362,806 following south Sudanese conflict the region hosts 365,473 south Sudanese refugees in seven different refugee camps located in Gambella regional state

The surveyed camp is among seven camps of south Sudanese found in Gambella peoples national regional state and hosts 53,342 population according to Dec, 2017 UNHCR update

The Aim of this study is to measure the performance of intervention against the project indicator and there by determine the outcome as a result of project implementation in the community of Kule refugee Camp.

A community based cross sectional quantitative survey was conducted among households of Pugnido II refugee camps from 11-15 December 2017. Data was collected by using UNHCR standard questionnaire. The questionnaire contains specific questions that provide answers to measureable indicators under current grants for core IRC performance indicators.

Regarding the latrine coverage and utilization it shows improvement but still some parts of people use open defecation beside this 40% of under five children practice open defecation.

Knowledge of the community towards critical hand washing times is good but during observation of availability of hand washing facility in HH only 4% of the HH have specific place for hand washing the remaining 96% of the community have no specific place for hand washing and this indicates that poor practice of critical times proper hand washing practice

- The UNHCR, ARRA and The IRC should work hand in hand to solve water supply collection and storage container problems
- The IRC and IPs working on Hygiene promotion and health communication in the camp under study should use methods ranked by the community as best methodology like Home visit and CHC
- As 20 % latrine is observed full decommissioning and replacement should be planned

## **1 Background:**

The International Rescue Committee (IRC) is a non-Governmental Organization operating in Ethiopia to provide relief services to refugees, victims of drought, disease outbreak and war affected populations

Gambella region is one of the nine regional state of Ethiopia the region is located in western part of the country and has international boundary with south Sudan, Based on CSA the region total population is approximately 362,806 following south Sudanese conflict the region hosts 365,473 south Sudanese refugees in seven different refugee camps located in Gambella regional state

Since 2011, IRC Ethiopia country program, Gambella field office started implementing different emergency rapid response and development projects for both host community and refugee in Gambella region. Currently under its refugee program, the IRC is implementing water supply hygiene promotion and sanitation in Pugnido, Pugnido II and Tierkidi refugee camps and water supply in Kule Refugee camp. Moreover operation of water supply Nguenyiel refugee camp water production is also handled by IRC. This project is funded by UNHCR UN-OCHA, ECHO& UNICEF on different duration beginning from Jan 2017 to December 2017. This project focused on water supply expansion, water supply system operation and maintenance including, construction of sanitation facilities and hygiene promotion components that targets refugees in all camps namely Tierkidi, Kule, Pugnido and Pugnido II refugee camps.

The surveyed camp is among seven camps of south Sudanese found in Gambella peoples national regional state and hosts 53,342 population according to Dec 2017 UNHCR infographics.

## **2. Objectives:**

### **2.1. General Objective**

To measure the performance of intervention against the project indicator and there by determine the outcome as a result of project implementation in the community of Kule refugee Camp.

### **2.2. Specific Objectives**

To assess the current knowledge, practice, coverage regarding water supply, hand washing practice, latrine coverage, and household refuse disposal.

## **3. Survey Methods Materials**

### **3.1. Survey Design and Period**

A community based cross sectional quantitative survey was conducted among households of Tierkidi, Pugnido, and Pugnido II and Kule refugee camps from 11-15 December 2017. Data was collected by using UNHCR standardized questionnaire. The questionnaire contains specific questions that provide answers to measureable indicators under current grants for core IRC performance indicators.

### **3.2. Sample Size Determination**

The sampling frame was based on UNHCR population data which is as per Dec. 2017 update. The sample size was calculated assuming 50% prevalence of general WASH indicators with a precision of +/- 5%, 95% confidence limit for a total of 384 households. The sample size i.e. the number of households to be included in the survey to 'represent' the population of interest was calculated using the following epidemiological formula:

$$n = t^2 * \frac{p * q}{d^2}$$

Where n = Maximum sample size

t = 95 % confidence interval.

p =Prevalence of 50%

q = 1-p

d = Absolute precision of 5 %

$$n = 1.96^2 * \frac{0.5 * 0.5}{0.05^2} = 384$$

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### **3.3. Sampling Technique and Data Collection Procedure**

A systematic random sampling method was employed. A household in this survey is defined as a group of people who are sharing the same shelter, cooking area or cooking pot. The data showing the total number of households existing in the camp is obtained from UNHCR and all households in the camp was considered as a sampling frame. A sampling interval was calculated by dividing the number of households in the camp by the sample size.

### **3.4. Respondents**

The basic sampling unit was households and respondents were mainly primary household caregivers. A primary caregiver in this survey is defined as a person who handles the daily chores of the household (preparation of meals, feeding and taking care of children, collection of water, household hygiene etc.). Most of the time, the primary household caregivers were females (mothers/housewives). Where the targeted respondents are absent or if they were unavailable, any knowledgeable person (male age more than 15 years old) present during the interview was interviewed.

### **3.5. Survey Team Training and Data Collection**

Fifteen individuals who can speak Nuer and Agnuwa were hired from Gambella, Itang town and Pungido area with different educational level partake in order to collect the data through ODK (open data kit) applications from Pungido, Pungido II Tierkidi and Kule refugee camps. Smart phones and mobile tablets were used to collect the data. They trained for two days on the survey including the following:

- becoming familiar with the tablets and survey questionnaire;
- obtaining consent from beneficiaries; interviewing techniques;
- data recording;
- household selection through a systematic random sampling method; and
- Learning the duties of data collectors and supervisors.

Participants practiced interviewing techniques and data recording through role plays during the training. The participants organized them in two teams; there were two teams and four supervisors. Each team was led by two supervisor. Refugee leaders and IRC Environmental Health Agents (EHAs) who know the camp and the boundaries of each zone were assigned for each supervisor as a guide to show them the location of the zones and their boundaries.

## 4. Findings

### 4.1 Demography

#### 4.1.1 Respondents

Among 384 participants under this study only 20 of them were male the rest 364 were women's

#### 4.1.2 Family size

Regarding the HH size 59% of them have more than 6 family, 31% of them have 4-6 members and the mean family size of Kule refugee camp in Dec, 2017 was 7 person per HH

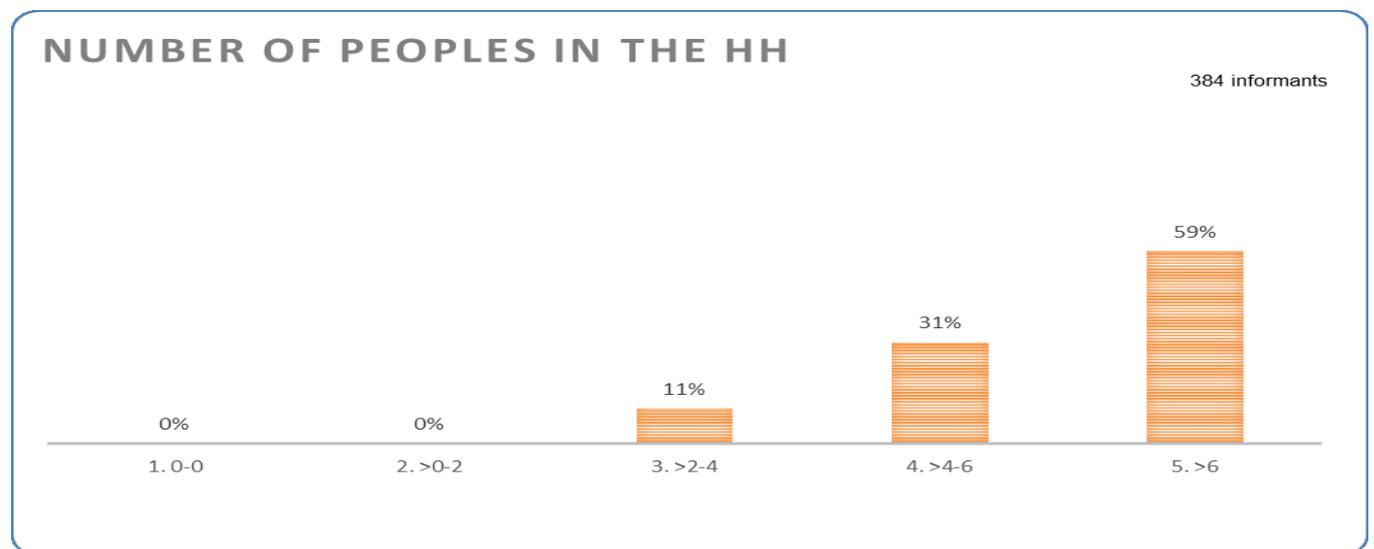


Fig: 1 Family size in Kule refugee camp Dec, 2017

#### 4.1.3 Number of under-five years old children with in HH

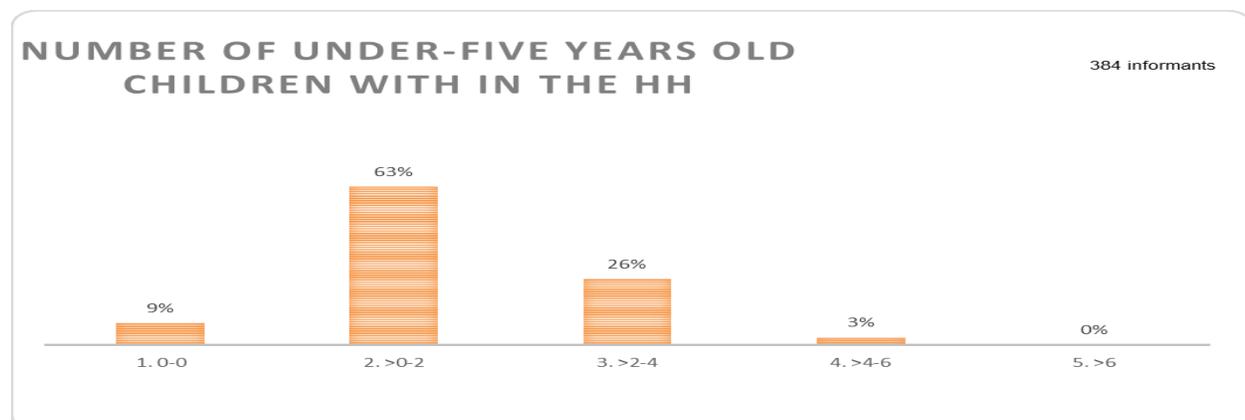


Fig: 2 number of under-five children in Kule refugee camp Dec, 2017

## 4.2 Water supply

The average water supply for domestic consumption per capita per day in Kule refugee camp according to this study is 9.4 L/C/D and the principal sources of water supply for same camp is 100% tap stand

### 4.2.1 Accessibility

Regarding the availability of water supply source closer to the HH 72 % were closed to the House

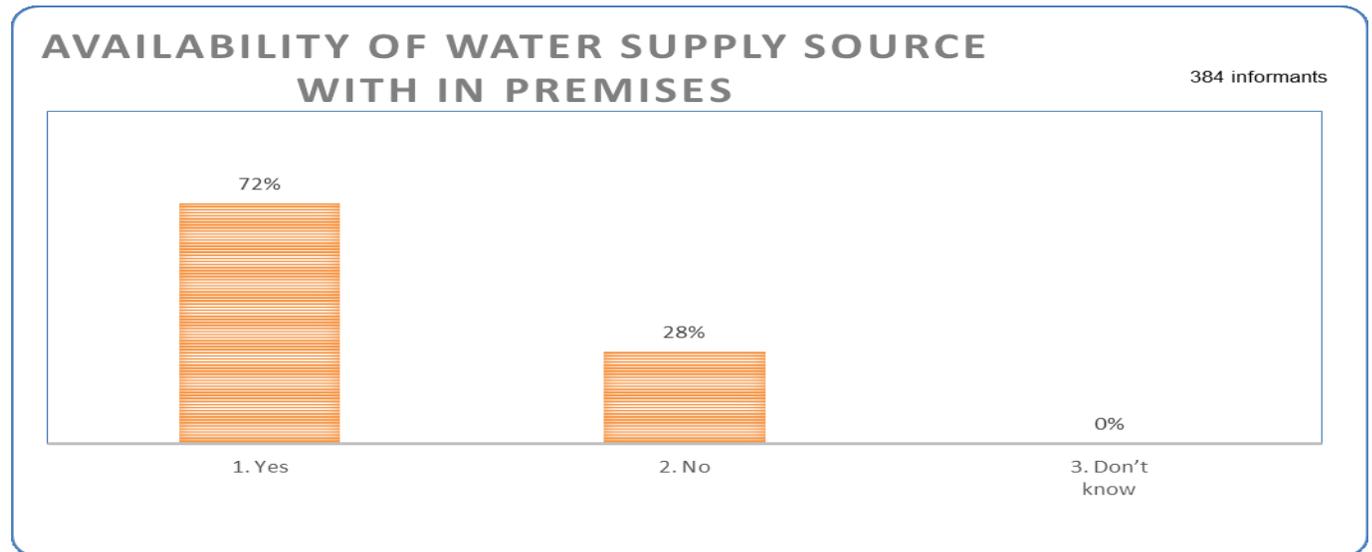


Fig: 3 Water supply source availability with in premises in Kule refugee camp Dec, 2017

### 4.2.2 Distance of water point

Regarding the distance of water point from the resident in minutes 88 % of water points take less than 6 minutes one trip to the water point

**Table: 1 shows one trip distance of water point in minutes in Kule refugee camp**

Time in Minutes	0	0-2	2_4	4_6	>6
Percentage	2%	60%	17%	9%	12%

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**4.2.3 Sufficiency of water supply for domestic use**

Water supply for domestic purpose means the water supply that doesn't include animal use and gardening, 70 % of Kule community doesn't satisfied with amount of water collected for domestic purpose with the main reason mentioned as lack of water supply collection and storage container

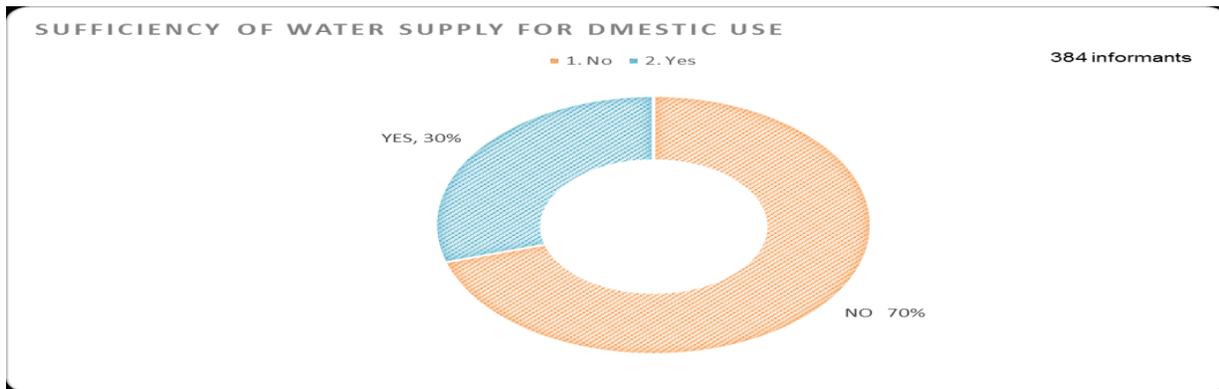


Fig: 4 water supply sufficiency in Kule refugee camp Dec, 2017

**4.2.4 The main reasons for water supply shortage**

The main reasons for water supply shortage in Kule camp is ranked as follows 97% is due to shortage of collection container in addition to container shortage ,31% water shortage at the water point and 23% waiting time at the water point.

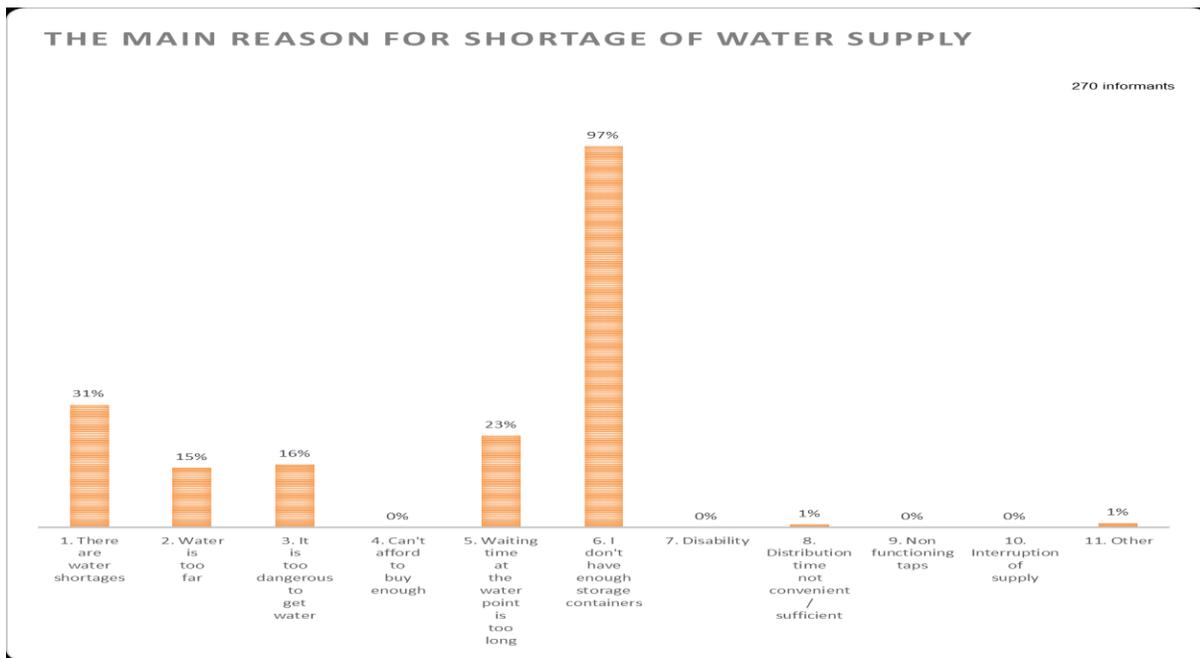


Fig: 5 main reason for water supply shortage

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#### 4.2.5 Safe water collection and management

The role of water supply collection for domestic purpose is 100 the role of women's which is 98% adult women 2% child female.

Regarding observation water removal from the container for drinking 70 % of dripping the cup in to the container 29 % of them poured in to a cup and 1 % have hose/ faucet.

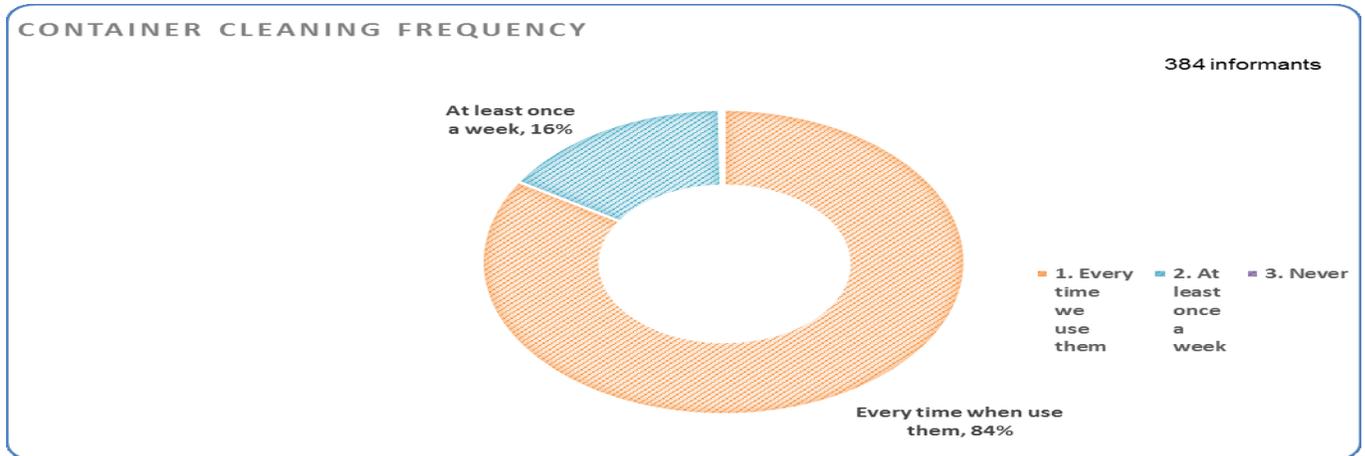


Fig: 6 Container cleaning frequency in Kule refugee camp Dec, 2017

#### 4.3 Hand washing

##### 4.3.1 Soap/ rubbing agent availability

Among those who don't have soap during observation the main reason for not available 84% run out of stock and only 3% of them considered soap is not important

In the absence of soap 60% of them use ash as detergent for hand washing 9% uses sand as rubbing agent and the remaining 30% uses water only for hand washing.

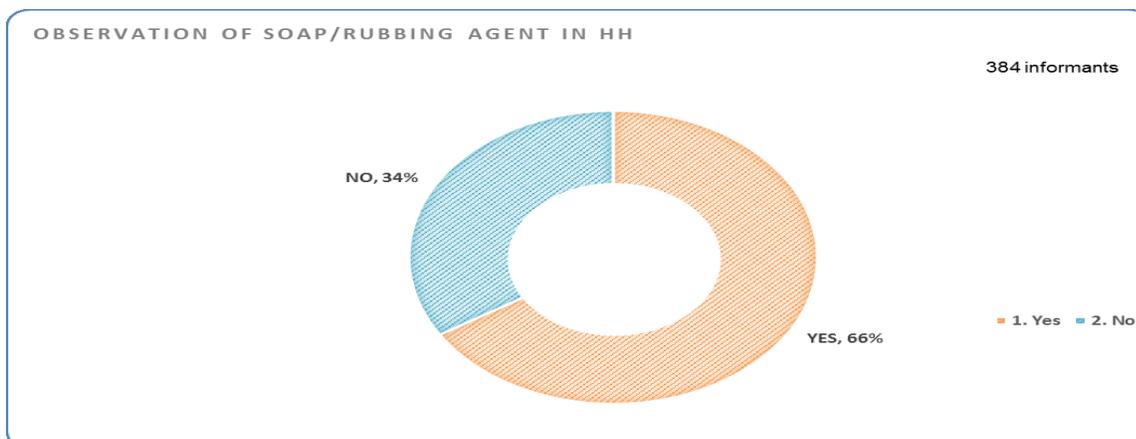


Fig: 7 availability of soap/rubbing in Kule refugee camp Dec, 2017

### 4.3.2 Knowledge of Critical hand washing times

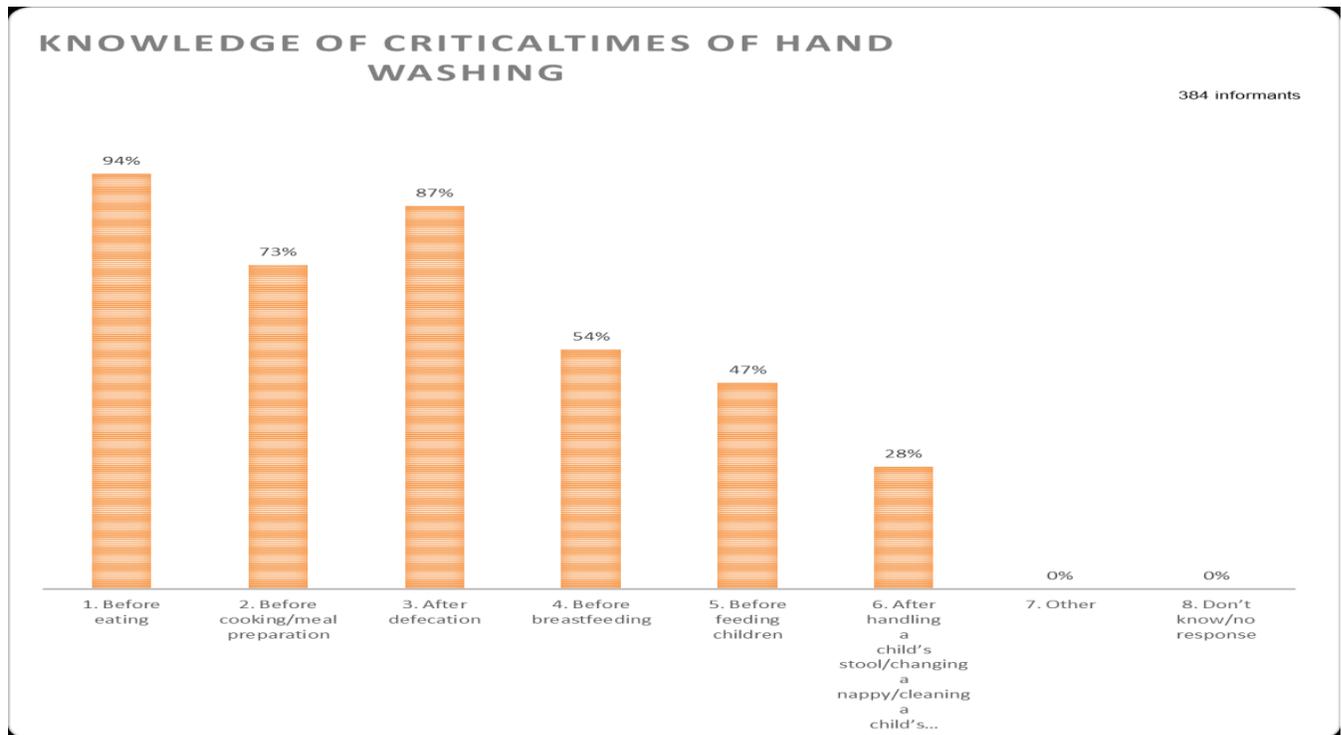


Fig: 8 knowledge of critical hand washing times in Kule refugee camp Dec, 2017

Regarding observation of availability of hand washing facility in HH only 4% of the HH have specific place for hand washing

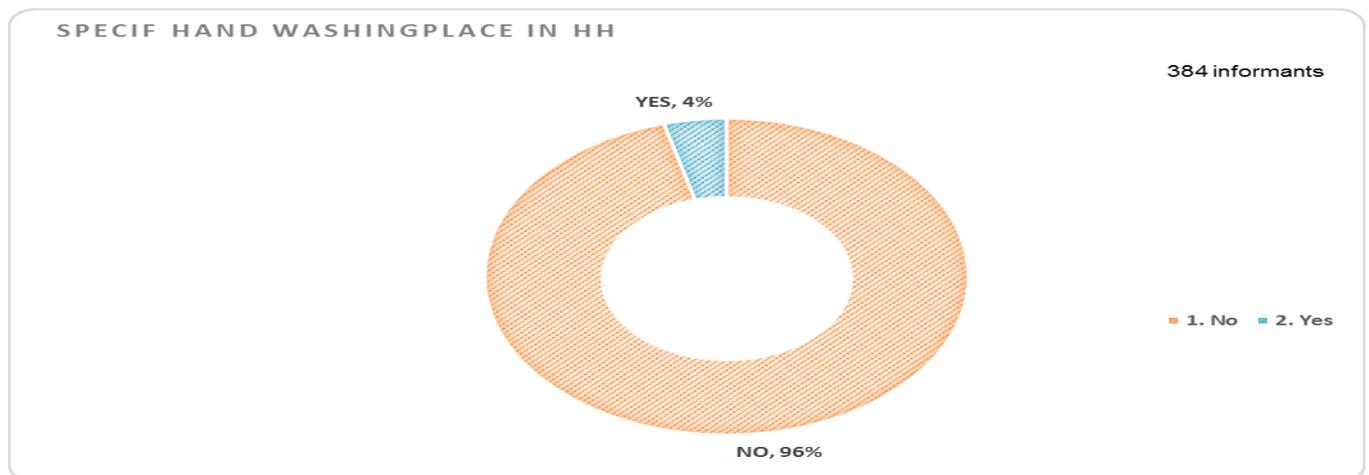


Fig: 9 Availability of hand washing facility in Kule refugee camp Dec, 2017

## 4.4 Latrine Utilization

### 4.4.1 Defecation practice of adults and children excluding under 5 years old

Regarding defecation behavior of adults only 6% of them experienced open defecation the remaining 93% used HH latrine, 1% used communal latrine, Concerning night time defecation experience 8 % of adults defecate some times in the bush over night

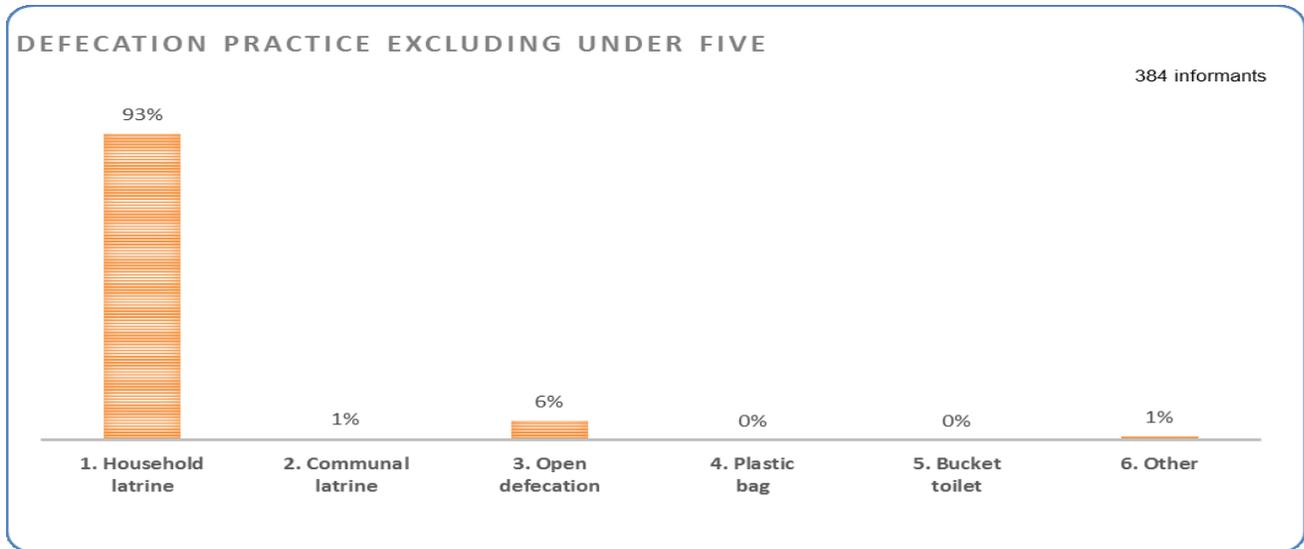


Fig: 9 defecation practice in Kule refugee camp Dec, 2017

### 4.4.2 Defecation practice of under five children

Regarding defecation practice of under five years old children 40% of them practice open defecation

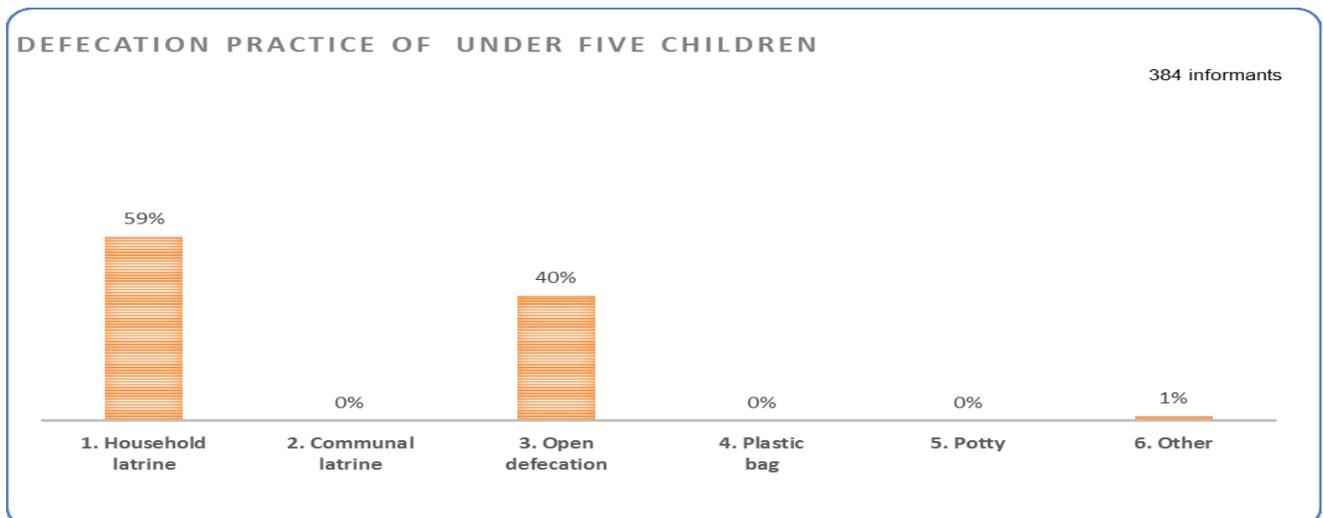


Fig: 10 Defecation practice of under five children in Kule refugee camp Dec, 2017

### 4.4.3 Latrine privacy

27% of latrines doesn't give privacy with the main reason as lock is not working where as 68% of the population under this study don't know whether have privacy or not

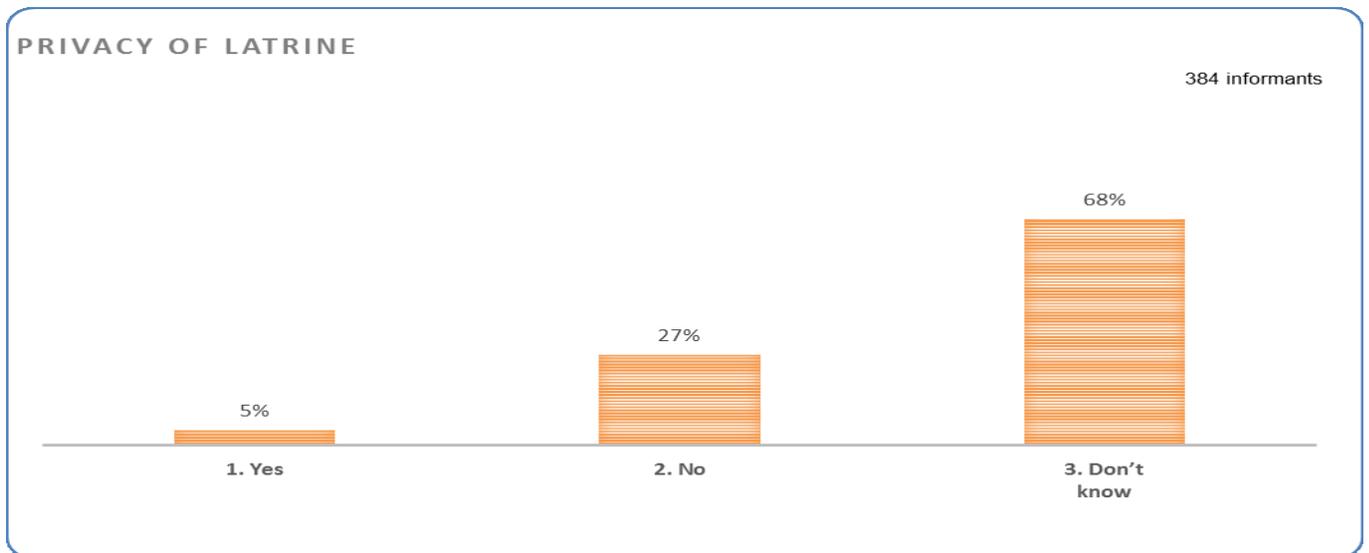


Fig: 11 privacy of latrine in Kule refugee camp Dec, 2017

### 4.4.4 Observation of latrine

During observation of latrines 88 % of latrines were in use where as 80 % was not yet full and only 40% of latrines have lid /cover on drop hole

Table: 2 shows observation of latrine in Kule refugee camp Dec, 2017

Observation	Types of latrine		Latrine in Use		Latrine full		Have lid on drop hole	
	VIP	Pit latrine	Yes	No	Yes	No	Yes	No
Percentage	1%	99%	88%	12%	20%	80%	40%	60%

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### 4.5 Bathing

Only 6% of the population under study have bathing facility

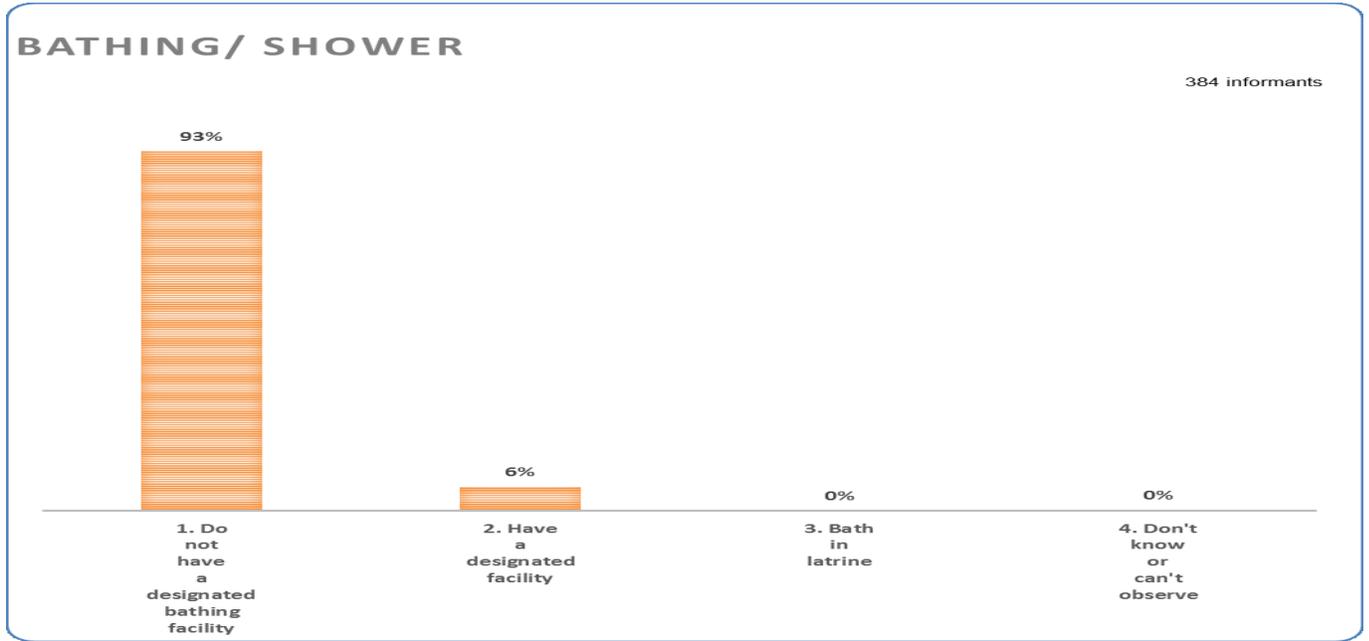


Fig: 12 availability of bathing facility in Kule refugee camp Dec, 2017

### 4.6 Solid waste management

Regarding solid waste disposal 48% of the community disposed wastes in the HH waste pit where as 42 % of them disposes by burning

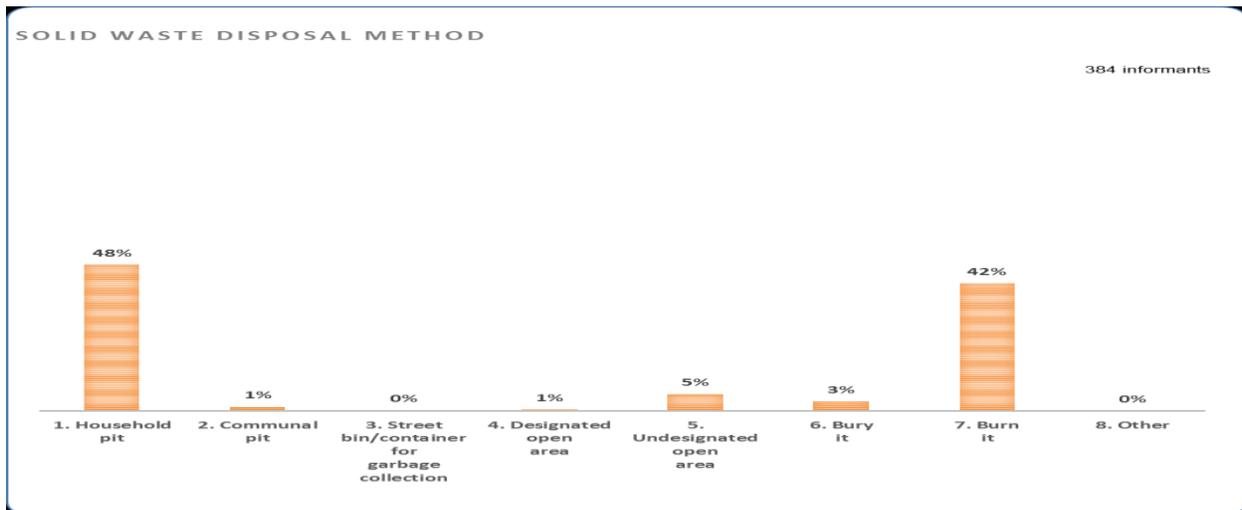


Fig: 13 solid waste disposal mechanism in Kule refugee camp Dec, 2017

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**4.7 Communication method/Channel**

The best communication method ranked as 63% home to home visit, 36% women group discussion and 3% community meeting

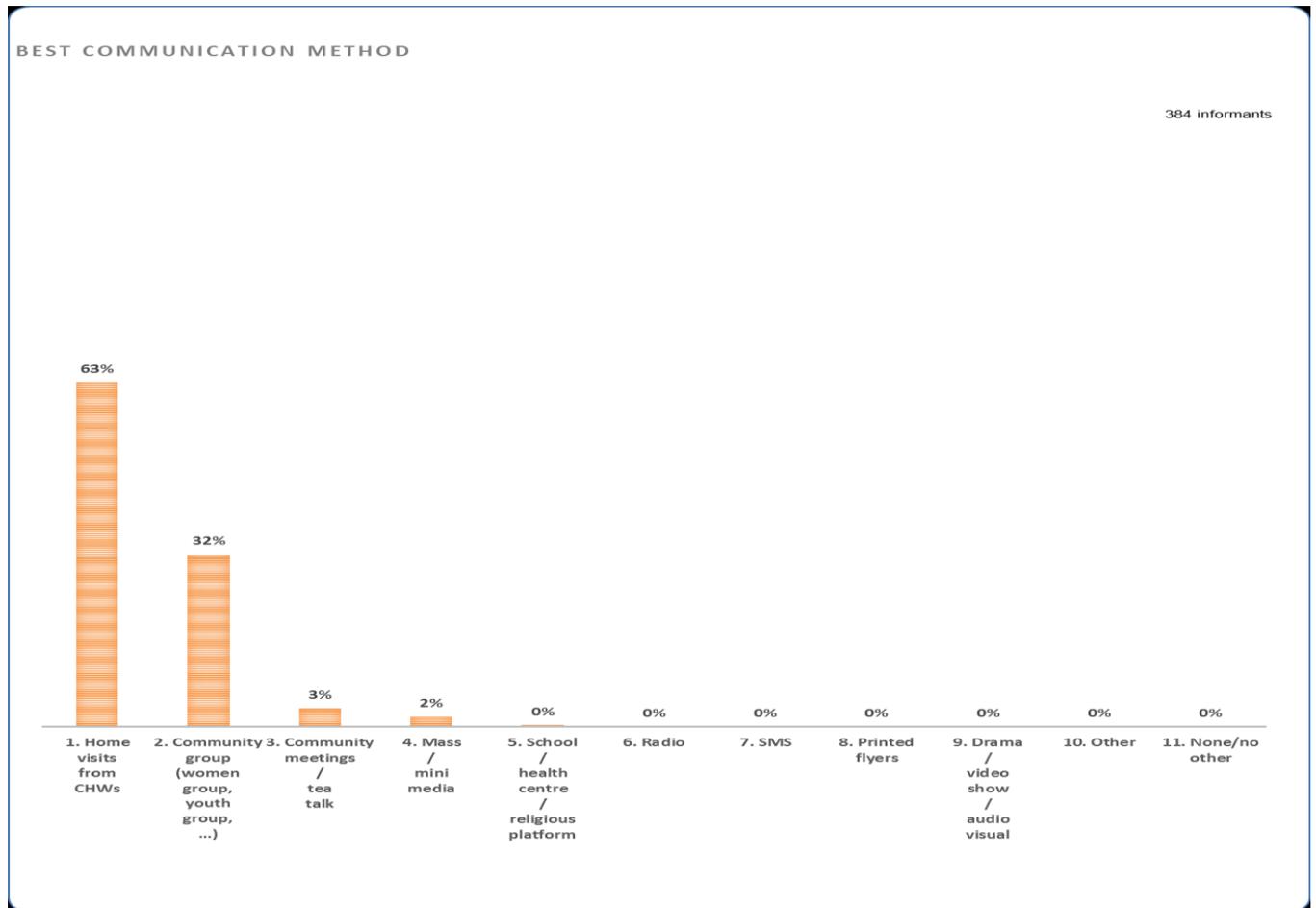


Fig: 14 best communication method in Kule refugee camp Dec, 2017

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#### 4.7.1 Household visited by community health workers

During the survey among 383 informants in Kule camp 63% of HH visited by CHW in Dec 2017 and 58% of HH participate on community meeting specific to health and health related discussion

#### 4.7.3 Reading ability of the study community/ACCES TO RADIO

61% of the community under this study not capable to read and only 1% of the community access to radio

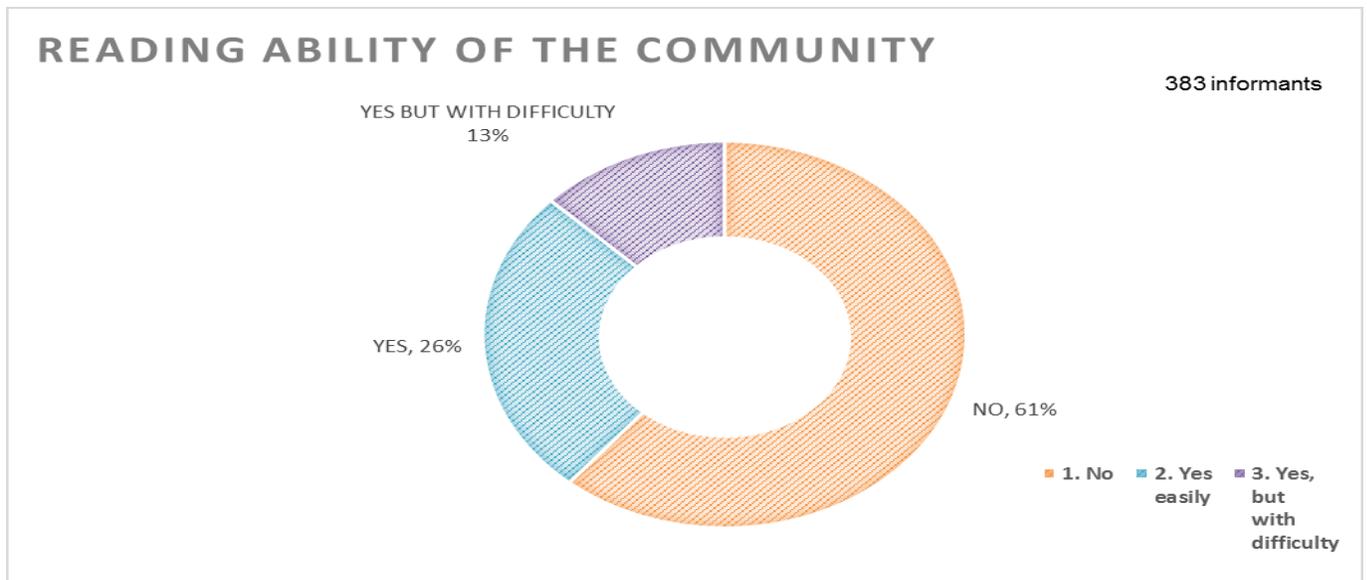


Fig: 16 reading capability of the community in Kule refugee camp Dec, 2017

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#### 4.8 hygiene items distribution

79% of the Kule community under study received some of hygiene items in Dec2017

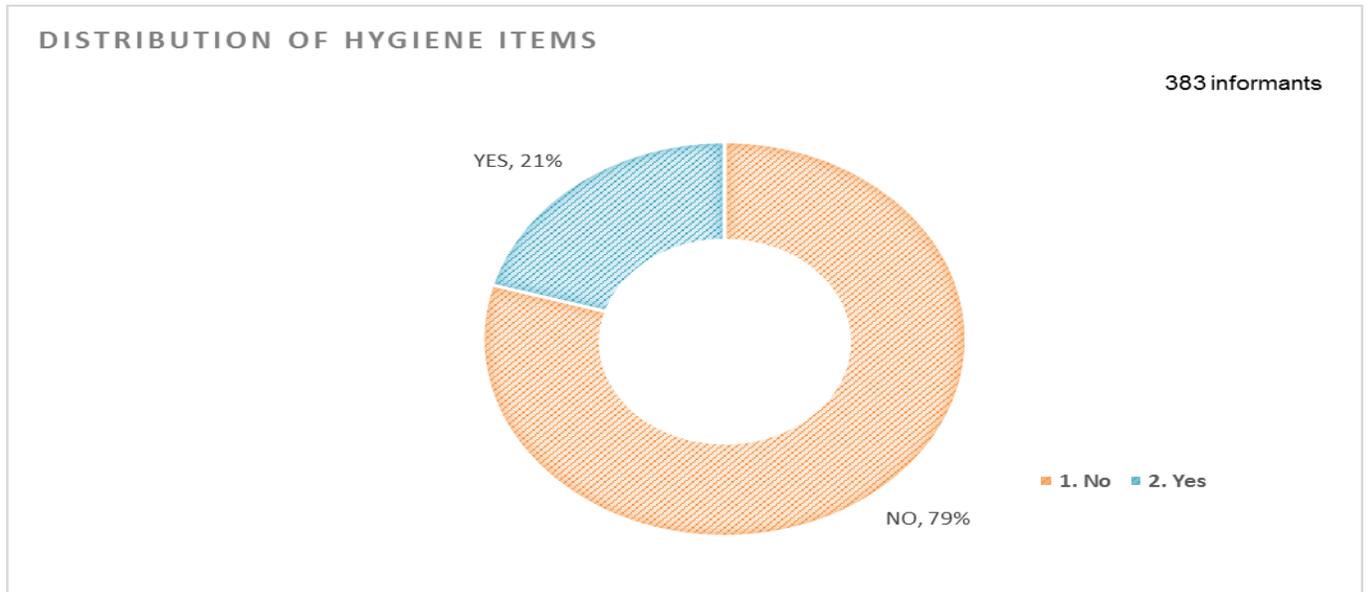


Fig: 17 Distribution of hygiene items in Kule refugee camp Dec, 2017

## 5. Discussion and recommendation

Even if the for water production throughout the year the average water supply production per capita per day is 16 litter for Kule but based on this study on sufficiency of water supply collected for domestic purpose which doesn't include animal and gardening purpose 70% Kule respondents mention as there is shortage in their HH for the main reason of lack of containers for fetching and water storage

According to surveyed HH data for water collected the daily per capita consumption is 9.4 litter/person /day but as there is a shortage of container for storage and collection it's observed that peoples wash their clothes and body/ bathing near to the water point area and the water consumed out door for same purpose was not counted in this survey as a result the per capita consumption reported became below the standard

Regarding the latrine coverage and utilization it shows improvement but still some parts of people use open defecation beside this 40% of under five children practice open defecation.

Knowledge of the community towards critical hand washing times is good but during observation of availability of hand washing facility in HH only 4% of the HH have specific place for hand washing the remaining 96% of the community have no specific place for hand washing and this indicates that poor practice of critical times proper hand washing practice

The best communication method ranked as 63% home to home visit, 36% women group discussion and 3% community meeting but when we see the community visited by community health workers at house hold and members of family attend community meeting on health issue 63%and 58% respectively

### Recommendations

- The UNHCR, ARRA and The IRC should work hand in hand to solve water supply collection and storage container problems
- The IRC and IPs working on Hygiene promotion and health communication in the camp under study should use methods ranked by the community as best methodology like Home visit and Community Hygiene Club approach.
- During development of Information Education Communication Pictures and audio material play vital role according to this study following their ability to read.
- The promotion of hand washing shall be strengthened in Kule refugee camp as the finding of gap between knowledge and practice is high.
- As 20 % latrine is observed full decommissioning and replacement should be planned in the next implementation period.

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- Coverage of communal waste pit is 1% and planning communal waste pit according to the UNHCR post emergency standard is important

### Annex survey questionnaire

## WASH KAP and Coverage Survey in Refugee Sites

### Standardized Questionnaire

August 2016

**Note:** *Optional questions (highlighted in light blue) should be added to the final questionnaire if and only if their results will serve a purpose in terms of programming, changing strategies or adapting WASH activities. Every additional question means more time and resources required for the survey, so optional questions should be selected with extra care.*

### I/ Questionnaire Details

I1 - Date:

I2 - Site/camp name:

I3 - Zone:

I4 - Block:

I5 - Section:

I6 - GPS:

I7 - Team ID #:

I8 - Name of person collecting data:

I9 - Household number:

### II/ Questionnaire

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**A - General Information and Demographics**

Questions	Comments
<b>A1/ Did the household give its consent to be interviewed? (Check one)</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>A2 (Op)/ Sex of respondent (Check one)</b> <input type="checkbox"/> Male <input type="checkbox"/> Female	Question to be added if you need to segregate answers by the sex of respondent.
<b>A3.a/ How many people live and slept in this house last night? _____ people</b>  <b>A3.b/ How many children less than 5 years old live and sleep in this house?</b> _____ children under 5 years old	Fill in number of people and number of less than 5 years old children. Definition of 'House' needs to be defined in context of the camp in which the survey is conducted.
<b>A4 (Op)/ Are there any persons with disabilities and / or elders in this household?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	Question to be added if you need to segregate answers from households with persons with disabilities or elders.
<b>A5 (Op)/ Please tell me what your country of origin is: _____</b>	Question to be added if you need to segregate answers by origin of respondent.

**B - Water Collection and Storage**

Questions	Comments
<b>B1.a/ What is your main source of drinking water (Check <u>one</u> but do not prompt with responses. Use visual aid.)</b> <input type="checkbox"/> Public tap/Standpipe <input type="checkbox"/> Handpumps/boreholes <input type="checkbox"/> Unprotected hand-dug well <input type="checkbox"/> Water seller/kiosks <input type="checkbox"/> Piped connection to house (or neighbour's house) <input type="checkbox"/> Surface water (lake, pond, dam, river) <input type="checkbox"/> Protected spring <input type="checkbox"/> Unprotected spring <input type="checkbox"/> Rain water collection <input type="checkbox"/> Bottled water, water sachets <input type="checkbox"/> Tanker trucks <input type="checkbox"/> Other (please list) _____ <input type="checkbox"/> Don't know	Modify responses for your context. e.g. if that type of source does not exist do not keep it. If it is rare consider omitting it as it will be captured under other. Add/delete options as needed A visual aid showing different types of water sources may be useful.

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<p><b>B1.b (Op)/ Aside from this main source, what is the second most used source of drinking water for members of your household?(Check one but do not prompt with responses. Use visual aid.)</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Public tap/Standpipe</li> <li><input type="checkbox"/> Handpumps/boreholes</li> <li><input type="checkbox"/> Unprotected hand-dug well</li> <li><input type="checkbox"/> Water seller/kiosks</li> <li><input type="checkbox"/> Piped connection to house (or neighbour's house)</li> <li><input type="checkbox"/> Surface water (lake, pond, dam, river)</li> <li><input type="checkbox"/> Protected spring</li> <li><input type="checkbox"/> Unprotected spring</li> <li><input type="checkbox"/> Rain water collection</li> <li><input type="checkbox"/> Bottled water, water sachets</li> <li><input type="checkbox"/> Tanker trucks</li> <li><input type="checkbox"/> Other</li> <li><input type="checkbox"/> Did not collect water from another source</li> <li><input type="checkbox"/> Don't know</li> </ul>	<p>Question to be added if many different types of source are available on camp and some have irregular supply. In this case you may want to know what the back-up source of households is.</p> <p>Modify responses for your context. e.g. if that type of source does not exist do not keep it. If it is rare consider omitting it as it will be captured under other. Add/delete options as needed.</p>
<p><b>B2 (Op)/ What source of water do you use for the other activities (non-drinking water: bathing, cleaning, animal water, bricks, etc.)? (Check all that apply. Use visual aid.)</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Public tap/Standpipe</li> <li><input type="checkbox"/> Handpumps/boreholes</li> <li><input type="checkbox"/> Unprotected hand-dug well</li> <li><input type="checkbox"/> Water seller/kiosks</li> <li><input type="checkbox"/> Piped connection to house (or neighbour's house)</li> <li><input type="checkbox"/> Surface water (lake, pond, dam, river)</li> <li><input type="checkbox"/> Protected spring</li> <li><input type="checkbox"/> Unprotected spring</li> <li><input type="checkbox"/> Rain water collection</li> <li><input type="checkbox"/> Bottled water, water sachets</li> <li><input type="checkbox"/> Tanker trucks</li> <li><input type="checkbox"/> Other</li> <li><input type="checkbox"/> Don't know</li> </ul>	<p>Question to be added if it has any programmatic added value to know what source is used for non-drinking water (e.g. if there are regular cholera epidemics, or if you have a project focusing on water for livestock etc.).</p>
<p><b>Start of Observation Section</b></p>	
<p><b>B3/ May I see <u>all</u> the containers you have for storing and collecting drinking water? (Check for all of the containers. Do not include broken, leaking, or non-functional containers.)</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Yes → Complete box below (Use visual aid)</li> <li><input type="checkbox"/> No → Continue to B4</li> </ul>	<p>See example: HH has three 10L jerry cans.</p> <p>*Protected: The container needs to be covered.</p>

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Type and size of container	# of containers	Protected*
Example: 10Liters Jerry can	3	Yes/No

**End of Observation Section**

**B3.d/ Which containers were used to collect potable water yesterday? This includes all water collected morning, afternoon, and evening (Complete box below)**

Type and size of container	# of times it was filled that day
Example: 10 Liters Jerry can 1	2 times

Instructions: List size and type of all containers used to collect water. Quantify the number of time each container was used.  
See example: one 10L jerry can was used twice to collect water.

**B4/ How long does it take to go one direction to get water? (On the way to the source, not the way back. Not including time spent socializing) (Check one)**

\_\_\_\_\_ Number of minutes  
 Water is available on premises  
 Don't know

Average walking speed is 80 metres per minute.

**B5 (Op)/ Do you collect enough water to meet all your households' needs – not for animal use, brickmaking, agriculture, gardening, etc.? (Check one)**

Yes  
 No → **Why not?**

- There are water shortages
- Water is too far
- It is too dangerous to get water
- Can't afford to buy enough
- Waiting time at the water point is too long
- Don't have enough storage containers
- Other
- Don't know

Question to be added if you need to know the perception of people regarding the amount of water collected every day (which is already calculated in B3), or if you need to know what are the main causes for people not collecting enough water.

**B6 (Op)/ Did you drink water directly from the river or canal (or any other source of surface water) within the last 7 days? For example, you may have drank water from the river or canal (or any source of surface water) when you were away from your home? (Check one)**

Yes  
 No  
 Don't know

Question to be added if you need to know more about habits of the population regarding drinking unsafe water, or if that has any added value to your activities.

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<p><b>B7 (Op)/ Who usually collects water for your household? (Check one)</b></p> <p><input type="checkbox"/> Adult female  <input type="checkbox"/> Adult male  <input type="checkbox"/> Child (11-18 years)  <input type="checkbox"/> Child (10 years or younger)  <input type="checkbox"/> Don't know</p>	<p>Question to be added if it is useful for your programming to know what demographic groups usually spend time collecting water or are affected by this activity.</p>
<p><b>B8 (Op)/ Do you pay for your drinking water? (Check one)</b></p> <p><input type="checkbox"/> Yes → <b>How much?</b>    <input type="checkbox"/> _____ [Currency] per _____ litres  <input type="checkbox"/> _____ [Currency] per _____ days</p> <p><input type="checkbox"/> No  <input type="checkbox"/> Don't know</p>	<p>Question to be added if you need to know if and how much people pay for water in the camp.</p> <p>Currency must be adapted to the setting.</p>
<p><b>B9.a (Op)/ How often do you clean drinking water containers? (Check one)</b></p> <p><input type="checkbox"/> Every time we use them → <i>Continue to B9.b</i>  <input type="checkbox"/> At least once a week → <i>Continue to B9.b</i>  <input type="checkbox"/> At least once a month → <i>Continue to B9.b</i>  <input type="checkbox"/> At least once a year → <i>Continue to B9.b</i>  <input type="checkbox"/> Don't know → <i>Continue to next section</i>  <input type="checkbox"/> Never or less than once a year → <i>Continue to next section</i></p>	<p>Question to be added if you need to know more about the container hygiene of the population.</p>
<p><b>B9.b (Op)/ How do you clean drinking water containers? (Check one)</b></p> <p><input type="checkbox"/> Wash them with a specific product  <input type="checkbox"/> Rinse them with water  <input type="checkbox"/> Wash them with a piece of tissue  <input type="checkbox"/> Wash them by using rocks and shaking  <input type="checkbox"/> Other  <input type="checkbox"/> Don't know</p>	<p>Question to be added if you need to know more about the water storage container's hygiene of the population.</p>

**C - Drinking Water Hygiene (All Optional questions)**

Questions	Comments
<p><b>C1 (Op)/ May I have a small sample of drinking water? (Check one)</b></p> <p><input type="checkbox"/> Yes → <i>Continue to C2</i>  <input type="checkbox"/> No (water unavailable) → <i>Continue to C3 if selected</i>  <input type="checkbox"/> No (refuse participation) → <i>Continue to C3 if selected</i></p>	<p>Question to be added if you need to check how people pour water or get water from storage container. If selected, C2 must also be selected.</p>
<p><i>Observation Section (Observe and record answers below. Do not ask this question aloud)</i></p>	
<p><b>C2 (Op)/ How did the respondent remove water from the container? (Check one)</b></p> <p><input type="checkbox"/> Cup dipped  <input type="checkbox"/> Hose/tap  <input type="checkbox"/> Poured  <input type="checkbox"/> Other  <input type="checkbox"/> Unable to observe</p>	<p>Question to be added if you have selected C1.</p> <p>Can't be selected if question C1 is not selected.</p>
<p><b>End of Observation Section</b></p>	

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<p><b>C3 (Op)/ Do you or someone else do anything to your water to make it ready for drinking? (Check one)</b></p> <p><input type="checkbox"/> Yes, always treat it before drinking → <i>Continue to C4</i></p> <p><input type="checkbox"/> Yes, sometimes treat it before drinking → <i>Continue to C4</i></p> <p><input type="checkbox"/> No, do not treat it before drinking → <i>Continue to next section</i></p> <p><input type="checkbox"/> Don't know → <i>Continue to next section</i></p>	<p>Question to be added if you need to know the part of households practicing household water treatment.</p> <p>Preferably to be inserted with question C4 as well.</p>
<p><b>C4 (Op)/ What do you or someone else in the household do to this water to make it ready for drinking? (Check all that apply)</b></p> <p><input type="checkbox"/> Let it stand and settle</p> <p><input type="checkbox"/> Boil it</p> <p><input type="checkbox"/> Expose it to sunlight</p> <p><input type="checkbox"/> Use disinfection products:</p> <p style="padding-left: 20px;"><input type="checkbox"/> Aquatabs/water purification tablets</p> <p style="padding-left: 20px;"><input type="checkbox"/> Liquid chlorine</p> <p style="padding-left: 20px;"><input type="checkbox"/> Powder or granular chlorine</p> <p style="padding-left: 20px;"><input type="checkbox"/> PuR or Watermaker sachets</p> <p style="padding-left: 20px;"><input type="checkbox"/> Other: _____</p> <p><input type="checkbox"/> Filter it:</p> <p style="padding-left: 20px;"><input type="checkbox"/> Biosand Filter</p> <p style="padding-left: 20px;"><input type="checkbox"/> Ceramic Pot Filter</p> <p style="padding-left: 20px;"><input type="checkbox"/> Candle Filter/Bucket Filter</p> <p style="padding-left: 20px;"><input type="checkbox"/> Other: _____</p> <p><input type="checkbox"/> Other: _____</p> <p><input type="checkbox"/> Don't know</p>	<p>Question to be added if you need to know what types of household treatment are favoured in the camp.</p> <p>Can't be selected if question C3 is not selected.</p>
<p><b>C5 (Op)/ When did you or someone else in the household last treat water for drinking? (Check one)</b></p> <p><input type="checkbox"/> Today</p> <p><input type="checkbox"/> Yesterday</p> <p><input type="checkbox"/> Before yesterday</p> <p><input type="checkbox"/> Don't know</p>	<p>Question to be added if you need to know more about the frequency with which people treat their water, or if they do it right.</p> <p>Can't be selected if question C3 is not selected.</p>

**D - Hygiene**

Questions	Comments
<p><b>D1/ Please show me the soap or other rubbing agent you have in the household. (Check one)</b></p> <p><input type="checkbox"/> Presented within one minute → <i>Continue to D2 if selected / or D5</i></p> <p><input type="checkbox"/> Not presented within one minute → <i>Continue to D3 if selected / or D5</i></p>	
<p><b>D2 (Op)/ From where did you get your soap? (Check one)</b></p> <p><input type="checkbox"/> Purchased</p> <p><input type="checkbox"/> Traded</p>	<p>Question to be added if you need to know what are the main sources of soap in the camp, and whether or not you need to adapt you strategy</p>

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<input type="checkbox"/> Gifted <input type="checkbox"/> Distributed by a NGO <input type="checkbox"/> Other	accordingly (e.g. regarding distribution).
<b>D3 (Op)/ Please tell me the main reason why your household does not have soap? (Check one but do not prompt)</b> <input type="checkbox"/> Ran out of soap/Used it <input type="checkbox"/> Cannot afford soap <input type="checkbox"/> Soap is unavailable/cannot find soap <input type="checkbox"/> Soap is unnecessary <input type="checkbox"/> Don't like soap <input type="checkbox"/> Other <input type="checkbox"/> Don't know	Question to be added if you want to know the main reasons for lack of soap in the households, and maybe adapt your strategy accordingly (e.g. regarding distribution).
<b>D4 (Op)/ When there is no soap in your household, what do you use for hand-washing? (Check one but do not prompt)</b> <input type="checkbox"/> Water only <input type="checkbox"/> Ash <input type="checkbox"/> Sand <input type="checkbox"/> Do not use anything <input type="checkbox"/> Other <input type="checkbox"/> Don't know	Question to be added only if you need to know the part of households using alternative ways of hand-washing, or the favoured method for this (e.g. if you want to adapt your hygiene promotion messages accordingly).
<b>D5/ Please name at least 3 of the most important times when someone should wash their hands (Check all that apply but do not prompt)</b> <input type="checkbox"/> Before eating <input type="checkbox"/> Before cooking/meal preparation <input type="checkbox"/> After defecation <input type="checkbox"/> Before breastfeeding <input type="checkbox"/> Before feeding children <input type="checkbox"/> After handling a child's stool/changing a nappy/cleaning a child's bottom <input type="checkbox"/> Other <input type="checkbox"/> Don't know or no response given	
<b>D6/ Is there a specific hand washing device/station in your house where your household washes their hands? (Check one)</b> <input type="checkbox"/> Yes → Continue to D7 if selected / or D8 <input type="checkbox"/> No → Continue to D10 if selected / or next Section	Must train data collectors what will be determined as a hand washing station and whether it will count or not
<b>Observation Section (Observe and record answers below. Do not ask these questions aloud)</b>	
<b>D7 (Op)/ What type of hand-washing device? (Check one)</b> <input type="checkbox"/> Basin or bucket <input type="checkbox"/> Pouring device <input type="checkbox"/> Other	Question to be added if you need to know the main types of hand-washing devices used.  Answers based on what types of hand-washing stations available in specific setting.
<b>D8/ Is there water in the hand washing device/station? (Check one)</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	

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<p><b>D9/ Is there soap or other rubbing agent in the area of the hand washing device/station? (Check one)</b></p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	
<p><b>D10 (Op)/ Is food covered and protected from flies? (Check one)</b></p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p><input type="checkbox"/> Unable to observe</p>	<p>Question to be added if you need to know more about knowledge/practices of population regarding disease barriers.</p>
<p><b>End of Observation Section</b></p>	

**E - Sanitation**

Questions	Comments
<p><b>E1/ Where do you and your household members (excluding children under 5) usually go to defecate? (Check one)</b></p> <p><input type="checkbox"/> Household latrine</p> <p><input type="checkbox"/> Communal latrine</p> <p><input type="checkbox"/> Open defecation → <i>Skip E5 to E15</i></p> <p><input type="checkbox"/> Plastic bag → <i>Skip E5 to E15</i></p> <p><input type="checkbox"/> Bucket Toilet → <i>Skip E5 to E15</i></p> <p><input type="checkbox"/> Other → <i>Skip E5 to E15</i></p> <p><input type="checkbox"/> Don't know → <i>Skip E5 to E15</i></p>	<p>Add additional responses as necessary</p>
<p><b>E2/ Where do children under-5 living in this household usually go to defecate? (Check one)</b></p> <p><input type="checkbox"/> Household latrine</p> <p><input type="checkbox"/> Communal latrine</p> <p><input type="checkbox"/> Open defecation</p> <p><input type="checkbox"/> Plastic bag</p> <p><input type="checkbox"/> Other</p> <p><input type="checkbox"/> Don't know</p> <p><input type="checkbox"/> No child under-5 → <i>Continue to E4</i></p>	
<p><b>E3/ If there are children U5 that don't use the latrine, what is done with their faeces? (Check one)</b></p> <p><input type="checkbox"/> Collected and disposed in latrine</p> <p><input type="checkbox"/> Collected and disposed of elsewhere</p> <p><input type="checkbox"/> Nothing is done with it</p> <p><input type="checkbox"/> Buried it</p> <p><input type="checkbox"/> Other</p> <p><input type="checkbox"/> Don't know</p>	

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<p><b>E4/ Do adult members of your household sometimes defecate in the bush (for example at night)?</b> <i>(Check one)</i></p> <p><input type="checkbox"/> Yes → <b>Why?</b></p> <p><input type="checkbox"/> No latrine available</p> <p><input type="checkbox"/> Latrine is too far</p> <p><input type="checkbox"/> Too dark at night</p> <p><input type="checkbox"/> Too tired</p> <p><input type="checkbox"/> Not sure</p> <p><input type="checkbox"/> Other (specify): _____</p> <p><input type="checkbox"/> No</p> <p><input type="checkbox"/> Don't know/not sure</p>	
<p><b>E5/ The facility where your household members <u>usually</u> defecate is a:</b> <i>(Check only one)</i></p> <p><input type="checkbox"/> Single household facility (used only by this household)</p> <p><input type="checkbox"/> Shared household facility used by a number of households → <b>How many HHs, including this one, share this facility?</b> _____</p> <p><input type="checkbox"/> Public/communal latrine</p> <p><input type="checkbox"/> Other: _____</p>	<p>Only for those who responded 'Household latrine' or 'Communal latrine' in E1</p>
<p><b>E6 (Op)/ Does this latrine provide adequate privacy for you and your household members?</b> <i>(Check one)</i></p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No → <b>Why not?</b></p> <p><input type="checkbox"/> Infrastructure/door damaged</p> <p><input type="checkbox"/> Lock missing/not working</p> <p><input type="checkbox"/> Too close to the house</p> <p><input type="checkbox"/> Other</p> <p><input type="checkbox"/> No latrine</p> <p><input type="checkbox"/> Don't know</p>	<p>Question to be added if you need to know (e.g. for protection issues) if latrines are perceived by the population as offering enough privacy, and main reasons why they might not.</p>
<p><i>Observation questions (Observe and record answers below. Do not ask these questions aloud)</i></p> <p><i>In case the latrine usually used is far from the household (e.g. a communal latrine), this observation part should be saved for the end of the interview. Skip to E16 and come back to this part once the questionnaire is finished and the respondent has brought you to their usual latrine for observation.</i></p>	
<p><b>E7 (Op)/ Observe type of latrines</b> <i>(Check one)</i></p> <p><input type="checkbox"/> Flush or pour/flush toilet</p> <p><input type="checkbox"/> Pit latrine</p> <p><input type="checkbox"/> VIP Toilet</p> <p><input type="checkbox"/> Composting toilet</p> <p><input type="checkbox"/> Bucket toilet</p> <p><input type="checkbox"/> Hanging toilet/latrine</p> <p><input type="checkbox"/> Other: _____</p> <p><input type="checkbox"/> None</p>	<p>Question to be added if you need to know the breakdown of types of latrines in the camp, or the most used type.</p> <p>Change the options based on the context.</p> <p>Only use this question if multiple types of latrines are possible in the specific camp.</p> <p>If answer is 'None', skip the following optional questions, if any have been selected.</p>

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<p><b>E8 (Op)/ Is the latrine in use? (Check one)</b></p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	<p>Question to be added if you need to know the percentage of latrines in use in the camp.</p>
<p><b>E9 (Op)/ Observe the main material used for the superstructure (Check one)</b></p> <p><input type="checkbox"/> Bricks</p> <p><input type="checkbox"/> Plastic sheeting</p> <p><input type="checkbox"/> Fabric</p> <p><input type="checkbox"/> Metal</p> <p><input type="checkbox"/> Wood</p> <p><input type="checkbox"/> Thatch/leaves</p> <p><input type="checkbox"/> None</p> <p><input type="checkbox"/> Don't know</p>	<p>Question to be added if you need to know more about material used to build latrines, or if latrines in the camp are durable or not.</p> <p>Please note that a latrine survey might be more effective.</p>
<p><b>E10 (Op)/ Observe type of slab present (Check one)</b></p> <p><input type="checkbox"/> Wood</p> <p><input type="checkbox"/> Logs</p> <p><input type="checkbox"/> Plastic</p> <p><input type="checkbox"/> Concrete</p> <p><input type="checkbox"/> Other: _____</p> <p><input type="checkbox"/> None</p> <p><input type="checkbox"/> Don't know</p>	<p>Question to be added if you need to know the breakdown of types of slabs used in the camp, and if they are safe or not.</p> <p>Please note that a latrine survey might be more effective.</p> <p>Change the options based on the context.</p>
<p><b>E11 (Op)/ Is the latrine full? (Check one)</b></p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	<p>Question to be added if you need to know the part of latrines in camp that are full.</p>
<p><b>E12 (Op)/ Is there a lid on the drophole? (Check one)</b></p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	<p>Question to be added if you need to know the part of surveyed latrines that are safe regarding vectors (flies etc.).</p>
<p><b>E13 (Op)/ Is there a handwashing station at the latrine? (Check one)</b></p> <p><input type="checkbox"/> Yes → Continue to E14 and E15 if they have been selected</p> <p><input type="checkbox"/> No → Continue to E16</p>	<p>Question to be added if you need to know the part of latrines in camp equipped with hand-washing stations.</p>
<p><b>E14 (Op)/ Indicate whether there is water in the handwashing station (Check one)</b></p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	<p>Question to be added if you need to know if those hand-washing stations are used properly or not.</p>
<p><b>E15 (Op)/ Is soap or any other rubbing agent present with the hand washing station? (Check one)</b></p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	<p>Question to be added if you need to know if those hand-washing stations are used properly or not.</p>
<p><b>E16/ Please show me the facility where you and your family members bathe? (Observe and check one)</b></p> <p><input type="checkbox"/> Do not have a designated bathing facility</p> <p><input type="checkbox"/> Have designated shower/bathing facility</p>	

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<input type="checkbox"/> Don't know / can't observe	
<b>End of Observation Section</b>	
<b>E17/ Where does your household dispose of domestic waste? (Check one)</b>	
<input type="checkbox"/> Household pit <input type="checkbox"/> Communal pit <input type="checkbox"/> Bin in the household/streets <input type="checkbox"/> Designated open area <input type="checkbox"/> Undesignated open area <input type="checkbox"/> Bury it <input type="checkbox"/> Burn it <input type="checkbox"/> Other	
<b>Observation questions (Observe and record answers below. Do not ask these questions aloud)</b>	
<b>E18 (Op)/ Is the courtyard clean? (No apparent trash scattered around) (Check one)</b>	Question to be added if you need to know more regarding habits of waste disposal in the surveyed population.
<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>End of Observation Section</b>	
<b>E19 (Op)/ Do you or anyone in your household complain of or observe any abnormal presence of vectors recently? (Check one)</b>	Question to be added if you need to find more about vector control, or if you have activities related to that aspect of sanitation.
<input type="checkbox"/> Yes → <b>What vectors?</b> <input type="checkbox"/> Rodents <input type="checkbox"/> Mosquitoes <input type="checkbox"/> Flies <input type="checkbox"/> Cockroaches <input type="checkbox"/> Other  <input type="checkbox"/> No	

**G - Messaging**

Questions	Comments
<b>G1 (Op)/ Out of all the ways to receive health and hygiene messages, What's the best way for your household members to receive health and hygiene messages ? (Read the list; check only <u>one</u> response.)</b> <input type="checkbox"/> Radio <input type="checkbox"/> SMS <input type="checkbox"/> Printed flyers <input type="checkbox"/> Home visits from CHWs	Question to be added if you want to adapt your hygiene promotion activities in the most effective way possible.

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<input type="checkbox"/> Community meetings <input type="checkbox"/> Other	
<b>G2 (Op)/ In the last month did your household receive a visit from a community health worker to discuss any health or hygiene messages (Check one)</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know/don't remember	Question to be added if you want to check the effectiveness of hygiene promotion door-to-door campaigns.  Insert appropriate name of CHW to reflect program.
<b>G3 (Op)/ In the last month, have you or anyone in your household attended a health or hygiene community meeting? (Check one)</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	Question to be added if you want to find out whether hygiene community meetings attract a large population or not (check effectiveness).
<b>G4 (Op)/ Are you able to read? (Check one)</b> <input type="checkbox"/> Yes, easily <input type="checkbox"/> Yes, but with difficulty <input type="checkbox"/> No, cannot read <input type="checkbox"/> Refused to answer	Question to be added if you plan to use flyers or posters for hygiene promotion, and need to find out whether that will be effective or not.
<b>G5 (Op)/ Do you have a functioning radio in your household? (Check one)</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	Question to be added if you plan to do hygiene promotion via radio emissions and need to find out whether that will be effective or not.
<b>G6 (Op)/ Do you have a mobile phone in your household? (Check one)</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	Question to be added if you plan to do hygiene promotion via sms and need to find out whether that will be effective or not.

**H - Distribution**

Questions	Comments
<b>H1 (Op)/ In the past month, did you or someone in your household receive (** soap, ORS, jerrycans, basins, sanitary pads, hygiene kits, Aquatabs, etc.) through a NFI distribution? (Check one)</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	Question(s) to be added if you need to monitor the effectiveness of NFI distributions.  To be repeated as many times as necessary for different items.

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**I - Diarrhoea Prevalence, Knowledge and Health Seeking Behaviour**

Questions	Comments
<p><b>I1 (Op)/ How many children less than 5 years old have had 3 or more loose watery stools in the last 14 days? (check one)</b></p> <p><input type="checkbox"/> 0</p> <p><input type="checkbox"/> 1</p> <p><input type="checkbox"/> 2</p> <p><input type="checkbox"/> 3</p>	<p>Question to be added if you want more information at household level on diarrhoea prevalence of kids aged less than 5 years old, as not all cases go seek treatment at the health centres.</p>
<p><b>I2 (Op)/ How many persons 5 years of age or older have had 3 or more loose watery stools in the last 14 days? (check one)</b></p> <p><input type="checkbox"/> 0</p> <p><input type="checkbox"/> 1</p> <p><input type="checkbox"/> 2</p> <p><input type="checkbox"/> 3</p> <p><input type="checkbox"/> 4</p> <p><input type="checkbox"/> 5</p> <p><input type="checkbox"/> 6</p> <p><input type="checkbox"/> 7</p>	<p>Question to be added if you want more information at household level on diarrhoea prevalence of persons over 5 years old, as not all cases go seek treatment at the health centres.</p>
<p><b>I3 (Op)/ Can you tell me all the ways that people can get diarrhoea? (Do not read aloud, allow respondent to list and check those that are listed)</b></p> <p><input type="checkbox"/> Through contaminated water</p> <p><input type="checkbox"/> Through contaminated or uncooked food</p> <p><input type="checkbox"/> From unpleasant odours</p> <p><input type="checkbox"/> From flies</p> <p><input type="checkbox"/> From contact with someone sick with diarrhoea or someone who died from diarrhoea</p> <p><input type="checkbox"/> From swimming/bathing in surface water</p> <p><input type="checkbox"/> Other: _____</p> <p><input type="checkbox"/> Don't know</p>	<p>Question to be added if you need to find out more about disease transmission knowledge within the surveyed population, in order to adapt your hygiene promotion strategy if necessary.</p>
<p><b>I4 (Op)/ Please tell me all the ways to prevent you or your household members from getting diarrhoea (Do not read aloud, allow respondents to list symptoms and check those that are listed)</b></p> <p><input type="checkbox"/> Boil or treat your water/drink clean water</p> <p><input type="checkbox"/> Wash hands with soap and water</p> <p><input type="checkbox"/> Cook food well</p> <p><input type="checkbox"/> Wash fruits and vegetables</p> <p><input type="checkbox"/> Cover food</p> <p><input type="checkbox"/> Cleaning cooking utensils</p>	<p>Question to be added if you need to find out more about disease transmission knowledge within the surveyed population, in order to adapt your hygiene promotion strategy if necessary.</p>

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<ul style="list-style-type: none"><li><input type="checkbox"/> Clean your home with bleach</li><li><input type="checkbox"/> Use toilet/latrine facility to defecate</li><li><input type="checkbox"/> Dispose of children's faeces in toilet/latrine</li><li><input type="checkbox"/> Bury faeces</li><li><input type="checkbox"/> Receive a vaccine</li><li><input type="checkbox"/> Store water safely</li><li><input type="checkbox"/> Breastfeeding babies</li><li><input type="checkbox"/> Other: _____</li><li><input type="checkbox"/> Don't know</li></ul>	
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