

# Research Terms of Reference

Flooding Susceptibility and Preparedness Survey (FSPS)

SYR2101

Syria

Dec 2020  
Version 1.0

**REACH** Informing  
more effective  
humanitarian action

## 1. Executive Summary

<b>Country of intervention</b>	Syria		
<b>Type of Emergency</b>	<input checked="" type="checkbox"/> Natural disaster	<input type="checkbox"/> Conflict	
<b>Type of Crisis</b>	<input checked="" type="checkbox"/> Sudden onset	<input type="checkbox"/> Slow onset	<input type="checkbox"/> Protracted
<b>Mandating Body/ Agency</b>	BHA		
<b>Project Code</b>	16iAOD		
<b>Overall Research Timeframe (from research design to final outputs / M&amp;E)</b>	13/01/2021 to 04/02/2021		
<b>Research Timeframe</b> <i>Add planned deadlines</i>	1. Start collect data: 13/01/2021	5. Preliminary presentation: N/A	
	2. Data collected: 14/01/2021	6. Outputs sent for validation: 28/01/2021	
	3. Data analysed: 20/01/2021	7. Outputs published: 04/02/2021	
	4. Data sent for validation: 21/01/2021	8. Final presentation: N/A	
<b>Number of assessments</b>	<input checked="" type="checkbox"/> Single assessment (one cycle)		
	<input type="checkbox"/> Multi assessment (more than one cycle)		
<b>Humanitarian milestones</b> <i>Specify what will the assessment inform and when</i> <i>e.g. The shelter cluster will use this data to draft its Revised Flash Appeal;</i>	<b>Milestone</b>	<b>Deadline</b>	
	<input type="checkbox"/> Donor plan/strategy	__/__/____	
	<input type="checkbox"/> Inter-cluster plan/strategy	__/__/____	
	<input type="checkbox"/> Cluster plan/strategy	__/__/____	
	<input type="checkbox"/> NGO platform plan/strategy	__/__/____	
<input checked="" type="checkbox"/>	Other (Specify): <i>The FSL and CCCM clusters (and other clusters where applicable) will use this data to interpret flood risks and make contingency plans where such plans are not in place.</i>	15/02/2020	

<b>Audience Type &amp; Dissemination</b> <i>Specify <b>who</b> will the assessment inform and <b>how</b> you will disseminate to inform the audience</i>	<b>Audience type</b>		<b>Dissemination</b>	
	<input checked="" type="checkbox"/> Strategic <input checked="" type="checkbox"/> Programmatic <input checked="" type="checkbox"/> Operational <input type="checkbox"/> [Other, Specify]		<input type="checkbox"/> General Product Mailing (e.g. mail to NGO consortium; HCT participants; Donors) <input checked="" type="checkbox"/> Cluster Mailing (Education, Shelter and WASH) and presentation of findings at next cluster meeting <input type="checkbox"/> Presentation of findings (e.g. at HCT meeting; Cluster meeting) <input checked="" type="checkbox"/> Website Dissemination (Relief Web & REACH Resource Centre) <input type="checkbox"/> [Other, Specify]	
<b>Detailed dissemination plan required</b>	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
<b>General Objective</b>	To inform community engagement and communication about flood susceptibility and the associated hazards in Northwest Syria. That will be done by providing relevant information on public knowledge, attitudes, and practices surrounding the prevalence and risks associated with seasonal flooding.			
<b>Specific Objective(s)</b>	<p>To reach the general objective, this assessment aims to:</p> <ol style="list-style-type: none"> <li>1. Provide humanitarian actors with a better understanding of public attitudes toward seasonal flooding, including perceptions about the likelihood of a flood affecting assessed locations, and attitudes toward existing or potential mitigation measures.</li> <li>2. Provide humanitarian actors with a better understanding of public knowledge about flood occurrences, vulnerabilities, preventative measures, and susceptibility.<sup>1</sup></li> <li>3. Provide humanitarian actors with a better understanding of existing practices concerning flood preparedness.</li> </ol>			
<b>Research Questions</b>	<ol style="list-style-type: none"> <li>1. What do people know about Seasonal flooding in the assessed area? <ol style="list-style-type: none"> <li>a. What are the primary information sources (i.e. experience, NGOs, Camp authorities, etc.)?</li> <li>b. What type of information about seasonal flooding is available from these sources?</li> <li>c. What type of resources are available in the event of a flood hazard?</li> </ol> </li> <li>2. What are the flood risks and associated risk mitigation measures, and to what extent do people exercise these mitigation measures? <ol style="list-style-type: none"> <li>a. What is people's level of knowledge about past flood occurrences?</li> </ol> </li> </ol>			

<sup>1</sup> Susceptibility and vulnerability are somewhat overlapping and refer especially to the locations and living conditions of sites with IDP populations. IDP sites and settlements are frequently located on land that has traditionally been considered uninhabitable due to environmental factors such as steep terrain, rocky or arid ground, or land that is known to be prone to seasonal flooding. The close proximity of IDP camps and informal sites to flood susceptible locations increases the exposure of IDPs to flood hazards. IDPs in camps and informal sites often live in densely populated environments, in shelters that are not designed to resist natural hazards, and both of these factors exacerbate vulnerability to natural hazards present for IDP populations.

	<p>b. What is people's level of knowledge about flood-related vulnerabilities in the assessed location?<sup>2</sup></p> <p>c. What is people's level of knowledge about the location's susceptibility to flooding?<sup>2</sup></p> <p>3. What are the primary constraints preventing individuals/families, humanitarian actors and camp management personnel from implementing preventative measures to flood hazards?</p>			
<b>Geographic Coverage</b>	North Dana – IDP Camps, Informal Sites, and nearby communities			
<b>Secondary data sources</b>	<ul style="list-style-type: none"> <li>• Camp Management/CCCM data about flood-affected sites (dated 7-10-2020)</li> <li>• <a href="#">REACH Syria North Dana – IDP Camps and Informal Sites Flood Susceptibility and Flood Hazard Assessment</a></li> </ul>			
<b>Population(s)</b> <i>Select all that apply</i>	<input checked="" type="checkbox"/>	IDPs in camp	<input checked="" type="checkbox"/>	IDPs in informal sites
	<input checked="" type="checkbox"/>	IDPs in host communities	<input type="checkbox"/>	IDPs [Other, Specify]
	<input type="checkbox"/>	Refugees in camp	<input type="checkbox"/>	Refugees in informal sites
	<input type="checkbox"/>	Refugees in host communities	<input type="checkbox"/>	Refugees [Other, Specify]
	<input checked="" type="checkbox"/>	Host communities	<input type="checkbox"/>	[Other, Specify]
<b>Stratification</b> <i>Select type(s) and enter number of strata</i>	<input checked="" type="checkbox"/>	Geographical #: Eight population clusters (camps and sites) in northwest Al-Dana Subdistrict, which includes the densely populated Atmeh, Karama, Qah, Liyajlikum, Salam and Deir Hassan camp clusters which have reportedly experienced severe flooding on multiple occasions since 2016. Population size per strata is known? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/>	Group #: 2; Internally Displaced Persons and residents (where applicable) Population size per strata is known? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
			<input type="checkbox"/>	[Other Specify] #: _ _ Population size per strata is known? <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Data collection tool(s)</b>	<input checked="" type="checkbox"/>	Structured (Quantitative) <sup>3</sup>		Semi-structured (Qualitative)
	<b>Sampling method</b>		<b>Data collection method</b>	
<b>Structured data collection tool # 1</b> <i>Select sampling and data collection</i>	<input checked="" type="checkbox"/>	Purposive	<input checked="" type="checkbox"/>	Key informant interview (Target #): 24 <sup>4</sup>
	<input type="checkbox"/>	Probability / Simple random	<input type="checkbox"/>	Group discussion (Target #): _ _ _ _ _

<sup>2</sup> Ibid, see footnote on page 1

<sup>3</sup> The data collection tool for this survey is closed-question and adapted for the context. Because the survey methodology utilizes key informant (KI) interviews, results will not be statistically representative.

<sup>4</sup> Three (3) key informant interviews will be sought in each location. The proposed number of KI interviews per location was arrived at through internal consultation and complements the succinct approach of the survey.

<i>method and specify target # interviews</i>	<input type="checkbox"/> Probability / Stratified simple random <input type="checkbox"/> Probability / Cluster sampling <input type="checkbox"/> Probability / Stratified cluster sampling <input type="checkbox"/> [Other, Specify]		<input type="checkbox"/> Household interview (Target #):_ _ _ _ _ – <input type="checkbox"/> Individual interview (Target #):_ _ _ _ _ – <input type="checkbox"/> Direct observations (Target #):_ _ _ _ _ – <input type="checkbox"/> [Other, Specify] (Target #):_ _ _ _ _			
<b>Data management platform(s)</b>	X	IMPACT	<input type="checkbox"/>	UNHCR		
	<input type="checkbox"/>	[Other, Specify]				
<b>Expected output type(s)</b>	X	Situation overview #: 01	<input type="checkbox"/>	Report #: _ _	<input type="checkbox"/>	Profile #: _ _
	<input type="checkbox"/>	Presentation (Preliminary findings) #: _ _	<input type="checkbox"/>	Presentation (Final) #: _ _	<input type="checkbox"/>	Factsheet #: _ _
	<input type="checkbox"/>	Interactive dashboard #: _ _	<input type="checkbox"/>	Web map #: _ _	X	Map #: _ _
	<input type="checkbox"/>	[Other, Specify] #: _ _				
<b>Access</b>	X	Public (available on REACH resource center and other humanitarian platforms)				
	<input type="checkbox"/>	Restricted (bilateral dissemination only upon agreed dissemination list, no publication on REACH or other platforms)				
<b>Visibility</b> <i>Specify which logos should be on outputs</i>	<b>REACH</b>					
	<b>Donor:</b> N/A					
	<b>Coordination Framework:</b> N/A					
	<b>Partners:</b> N/A					

## 2. Rationale

### 2.1. Rationale

Seasonal flash floods are an unfortunate but common occurrence in Syria. Flooding generated by sudden and heavy rainfalls exacerbate vulnerabilities already intensified by winter conditions and the ongoing conflict. During the month of December 2019, flooding obstructing roads as well as damaging and destroying tents and other materials in at least 28 IDP camps in northern Syria.<sup>5</sup> Flash flooding caused by sudden rainfall exceeding 30 centimeters caused displacement for thousands of households, and additional access challenges for humanitarian organisations.<sup>6</sup> According to CCCM Cluster members, in March 2019, 7,292 tents were partially or likely severely damaged because of the seasonal floods in Northwest Syria. The rainfall continued through April and resulted in the further displacement of more than 40,000 IDPs in camps along the Syria Turkey border.

The REACH North Dana – IDP Camps and Informal Sites Flood Susceptibility and Flood Hazard Assessment (November 2020) predicts the following numbers of households as potentially exposed to flood hazards or flood depths exceeding 200mm.<sup>7</sup> However, the extent of pre-existing knowledge, and preparation or mitigation measures

<sup>5</sup> OCHA, Syrian Arab Republic: Cross-Border Humanitarian Reach and Activities from Turkey (December – 2019). Published 24 February 2020

<sup>6</sup> Save the Children: Northern Syria Flooding: Thousands of Children at Risk of Further Displacement (20 December 2019).

<sup>7</sup> North Dana – IDP Camps and Informal Sites Flood Susceptibility and Flood Hazard Assessment, REACH, November 2020.

among affected communities are unclear, mainly related to those living in IDP camps and informal sites within the affected areas.

Analysis Extent	Camp Cluster	# Shelters within modelled flood extents (>200mm depth)	# Shelters exposed to hazard (medium hazard or greater)
1	Atmeh Cluster	1,872	814
2	Karama/Qah Cluster	983	365
3	Liyajikum Cluster	487	421
4	Salam Cluster	219	197
5	Deir Hassan Cluster	1,159	377
6	Atma Community	56	44
7	Qah Community	40	15
8	Mashhad Ruhin East	26	20

The following assessment aims to build on REACH's flood modeling<sup>8</sup> through providing a more comprehensive understanding of the conditions in the proposed survey areas. An information gap exists in the humanitarian community about the mitigation measures, response plans, and the community-level knowledge, attitudes, and practices relating to flooding risks. Information gaps like these add challenges to humanitarian response programme planning and ultimately constrain the ability of humanitarian actors to respond effectively. By addressing information gaps, REACH will provide humanitarian actors involved in the response in these areas with critical information enabling them to prepare for and respond to these sudden bouts of rainfall that are likely to arrive in the coming months.

REACH is particularly well positioned to conduct this assessment. In addition to rapid needs assessments conducted in years past after significant flooding in Syria<sup>9</sup>, Our team completed the [North Dana – IDP Camps and Informal Sites Flood Susceptibility and Flood Hazard Assessment](#) in November 2020, complementing the present survey by providing us with a Digital Terrain Model (DTM) utilising SAGA terrain analysis - hydrology and channel tools. The result was a direct precipitation two-dimensional (2D) hydraulic model built in order to provide insights on flash flooding in northern Dana during heavy rainfall events. Guided by this data, the present survey seeks to expand our knowledge of flood knowledge and preparedness in the areas identified by the North Dana model.

### 3. Methodology

#### 3.1. Methodology overview

A key informant (KI) methodology will be employed for this survey. Data collection will take place between 13 and 14 January (2021) in 8 communities/camps in Dana sub-district in Northern Idlib. To ensure that all communities can be covered within the designated period, and in response to access restrictions and social-distancing recommendations related to COVID-19, all KI interviews will be conducted remotely. Data will be collected at the community/site level, with enumerators filling out three questionnaires per community/site, interviewing a total of at least 3 KIs per community. KIs will be purposively selected based on their knowledge of resident populations in the community or camp, and will respond to the sections of the questionnaire that best fit their sector-specific expertise. All collected primary data will then be further triangulated through available secondary data sources.

Enumerators will be instructed to seek respondents for the survey from camps, informal sites, and communities in flood prone areas identified by the North Dana – IDP Camps and Informal Sites Flood Susceptibility and Flood Hazard Assessment. Enumerators will identify at least 24 KIs through their own existing networks as well as on the reference

<sup>8</sup> North Dana – IDP Camps and Informal Sites Flood Susceptibility and Flood Hazard Assessment, REACH, November 2020.

<sup>9</sup> See [REACH Resource Center](#) for more details.

of other respondents where relevant. Enumerators will contact KIs and potential KIs by phone. KI respondents will include local authorities, business owners, camp management personnel, and representatives of NGOs and INGOs with experience working the target communities and sites.

### 3.2 Population of interest

Key Informants in NWS capable of providing relevant information about communities and sites in or near flood hazard zones as determined by the North Dana – IDP Camps and Informal Sites Flood Susceptibility and Flood Hazard Assessment will constitute the target population for carrying out this survey.

IDPs are defined as individuals or groups of people who have been forced to leave their communities of origin, in particular as a result of or in order to avoid the effects of armed conflict, situations of generalised violence, violations of human rights, or natural or man-made disasters, and who have not crossed an international border.

Host community residents are defined as individuals or groups of people who currently reside in their communities of origin, or communities of permanent residence prior to the Syrian conflict. This includes populations that were never displaced as well as previously displaced populations that have returned to their communities of origin.

Available secondary data sources will be used to triangulate primary data collection and will include data collected through the CCCM Cluster's continuous monitoring of the situation, as well as other available data from REACH, UN agencies, and other humanitarian bodies, and media and open source reports.

### 3.3 Primary Data Collection

Respondents for this survey will be selected through a purposive sampling methodology in which field teams will attempt to achieve the following soft quotas.

Region	Governorate/Area	Quota/Sample size	Male <sup>10</sup>	Female
NWS	Idleb/Atmeh	3	1 (or 2)	2 (if available)
NWS	Idleb/Karama/Qah	3	1 (or 2)	2 (if available)
NWS	Idleb/Liyajlikum	3	1 (or 2)	2 (if available)
NWS	Idleb/Salam	3	1 (or 2)	2 (if available)
NWS	Idleb/Deir Hassan	3	1 (or 2)	2 (if available)
NWS	Idleb/Atma	3	1 (or 2)	2 (if available)
NWS	Idleb/Qah	3	1 (or 2)	2 (if available)
NWS	Idleb/Mashhad Ruhin East	3	1 (or 2)	2 (if available)

Primary data collection will be conducted in eight camp/site clusters and communities in Dana sub-district in northern Idleb, through a remote interview method (via phone) due to access restrictions and to ensure timeliness. Data will be collected through a KI methodology. REACH will utilise its wide KI network in Northwest Syria to collect information as follows:

- Based on a structured questionnaire, enumerators will ask KIs a limited number of questions pertaining to their knowledge, attitudes, and practices regarding seasonal flooding to gather information at the community or camp level. Information will also be collected on population numbers and potential movement intentions as they relate to flash floods.
- Enumerators will submit 4 surveys per assessed site, camp, or community, based on KI's knowledge about the community, camp or informal site in general and specifically with regards to flash flooding. Enumerators will try to contact at least three (3) KIs per community and, if possible, more. In the rare case that enumerators are unable to interview multiple KIs, feedback from one or two KIs will be accepted. If no KIs can be found,

<sup>10</sup> Two male KI respondents will be used in the event that 2 female KI respondents are unavailable. The objective is to avoid 3 KIs of the same gender in a given community or site.

then the community will not be assessed. Enumerators will be organised geographically, with each enumerator given a list of unique communities to cover – this will ensure there is no overlapping data collection and that no enumerators speak with the same key informant. The KIs will be selected independently by enumerators who possess intimate knowledge of the areas under their coverage and are thus able to identify suitable KIs directly from their existing list of contacts, or indirectly by identifying suitable KIs through contacts and knowledge within their existing network.

- In addition to those mentioned above (local authorities, business owners, camp management, representatives of NGOs and INGOs), KI types may include civil society groups, local charities, local councils, local relief committees, community leaders, documentation office registration focal points, teachers, health staff or mukhtars (community leaders).
- Communities, camps, and informal sites will be selected focusing primarily on whether they are included in the flood risk areas as outlined (at least 100 individuals per community or site).

## 2.5. Data Processing & Analysis

All submissions will be checked for internal inconsistencies and outliers and submitted information will be cross-checked with available secondary data on assessed communities. This includes cross-checking with previous RNA and baseline assessments for the same geographic area to identify outliers. Follow up will be conducted with enumerators and KIs for all communities where discrepancies or issues were discovered. Submitted raw data will be cleaned based on follow up responses, and all changes to the data will be logged. The cleaning process will be based on REACH's [Minimum Standards Data Cleaning](#) checklist. The cleaning process will be facilitated by using a macro-equipped excel sheet used to record errors, corrections and follow-up requests for the enumerators. Data cleaning will take place on a rolling daily basis as data and feedback on follow-up requests from the data collection team come in.

Data from the assessment will be analysed and reported on at the cluster level for Dana sub-district. The analysis will be conducted with R analytical software, and potentially augmented by Excel.<sup>11</sup> All aggregated findings will be collated at the appropriate administrative level and included in the final dataset to ensure information is easily interpreted. Data will be collected by REACH enumerators over the phone with KIs living or working in the community and then aggregated to obtain findings at the assessed area level.

## 4. Roles and responsibilities

Table 3: Description of roles and responsibilities

<b>Task Description</b>	<b>Responsible</b>	<b>Accountable</b>	<b>Consulted</b>	<b>Informed</b>
<i>Research design</i>	<i>Assessment Officer</i>	<i>Emergency Team Lead</i>	<i>GIS Officer IMPACT Research Design and Data Unit</i>	<i>Unit Manager</i>
<i>Supervising data collection</i>	<i>Assessment Officer</i>	<i>Emergency Team Lead</i>	<i>GIS Officer IMPACT Research Design and Data Unit</i>	<i>Unit Manager</i>
<i>Data processing (checking, cleaning)</i>	<i>Assessment Officer</i>	<i>Emergency Team Lead</i>	<i>GIS Officer IMPACT Research Design and Data Unit</i>	<i>Unit Manager</i>

<sup>11</sup> Excel will be used if the need should arise for heat-tables and other similar Excel based functions to be included in the final output.  
[www.reach-initiative.org](http://www.reach-initiative.org)

Data analysis	Assessment Officer	Emergency Team Lead	GIS Officer IMPACT Research Design and Data Unit	Unit Manager
Output production	Assessment Officer	Emergency Team Lead	GIS Officer IMPACT Research and Reportinge	Unit Manager
Dissemination	Assessment Officer	Emergency Team Lead	GIS Officer IMPACT Research and Reporting Unit	Unit Manager
Monitoring & Evaluation	Assessment Officer	Emergency Team Lead	GIS Officer IMPACT Research and Reporting Unit	Unit Manager
Lessons learned	Assessment Officer	Emergency Team Lead	GIS Officer IMPACT Research and Reporting Unit	Unit Manager

**Responsible:** the person(s) who executes the task

**Accountable:** the person who validates the completion of the task and is accountable of the final output or milestone

**Consulted:** the person(s) who must be consulted when the task is implemented

**Informed:** the person(s) who need to be informed when the task is completed

**NB: Only one person can be Accountable; the only scenario when the same person is listed twice for a task is when the same person is both Responsible and Accountable.**

## 5. Data Analysis Plan

Research questions	IN #	Data collection method	Indicator / Variable	Survey Question	Survey Responses	Data collector level
<b>Section A: Introduction, Survey Information, Key Informant Information</b>						
N/A	A.1	KI Interview	Organisation name	Organisation name	(name)	KI
	A.2	KI Interview	Date of assessment	Date of assessment	(m/d/y)	KI
	A.3	KI Interview	Team number	Team number	(number)	KI
	A.4	KI Interview	Enumerator code	Enumerator code	(code)	KI
	A.5	KI Interview	Governorate	Governorate	Admin list (of governorates)(years)	KI
	A.6	KI Interview	District	District Governorate	Admin list (of districts) Admin list (of governorates)	KI
	A.7	KI Interview	Sub-district	Sub-district	Admin list (of SDs)Admin list (of districts)	KI
	A.8	KI Interview	CommunitySub-district	Community	Admin list (of communities)Admin list (of SDs)	KI
	A.9	KI Interview	Camp/site name	Camp/site name	Admin list (ISIMM list)	KI
	A.10	KI Interview	Pcode of camp	Pcode of camp	(Pcode)Admin list	KI
	A.11	KI Interview	Type of settlement	Type of settlement	1. Planned camp 2. Self-settled IDP site 3. Collective centre 4. Transit/Reception centre 5. Other (specify)(Pcode)	KI
	A.12	KI Interview	Type of settlement	Type of settlement	1. Planned camp 2. Self-settled IDP site 3. Collective centre 4. Transit/Reception centre 5. Other (specify)	KI
	A.13	KI Interview	Type of key informant	Type of key informant	1.NGO/Humanitarian Aid Worker 2. Community Based Organization staff / manager 3. Community Leader/ tribe leader/ Mukhtar; 4. Teachers/ headmaster of the school; 5. Local administration; 6. IDPs representative; 7. Camp Manager 8. Social Worker; 9. Other, please specify	KI
	A.14	KI Interview	Gender of interviewee	What is the gender of the respondent?	text	KI
	A.15	KI Interview	Age of interviewee	How old is the respondent?	text	KI
	A.16	KI Interview	Location of KI	Is the key informant a resident at the site?	<input type="checkbox"/> Yes <input type="checkbox"/> No	KI
<b>Section B: Assessing Vulnerability and Damage</b>						
3. Which vulnerable groups are present in the assessed area?	B.1. 1	KI Interview	# of vulnerable people	Are any of the following vulnerable groups present at the site/community, and if so, how many:	<input type="checkbox"/> Unaccompanied children <input type="checkbox"/> Men ( ) Women ( ) <input type="checkbox"/> Older persons (60+ years) <input type="checkbox"/> Men ( ) Women ( ) <input type="checkbox"/> Adults with disability (18+ years) <input type="checkbox"/> Men ( ) Women ( ) <input type="checkbox"/> Person with chronic illness <input type="checkbox"/> Men ( ) Women ( ) <input type="checkbox"/> Person with injuries <input type="checkbox"/> Men ( ) Women ( )	KI

					<input type="checkbox"/> Female headed households <input type="checkbox"/> # of families ( ) <input type="checkbox"/> Child headed households <input type="checkbox"/> # of families ( ) <input type="checkbox"/> Older persons (60+ years) <input type="checkbox"/> Men ( ) Women ( )	
	B.1.2	KI Interview	Most at risk groups	Which groups do you think are most at risk in the event of a flash flood?	<input type="checkbox"/> Unaccompanied children <input type="checkbox"/> Infants < 1 year with no mother <input type="checkbox"/> Older Persons (60+ years) <input type="checkbox"/> Children with disability (under 18yrs) <input type="checkbox"/> Adults with disability (18+yrs) <input type="checkbox"/> Persons with chronic illness, injuries or mental health conditions <input type="checkbox"/> Female headed-household <input type="checkbox"/> Pregnant/Lactating women <input type="checkbox"/> Other (please specify): <input type="checkbox"/> Don't know/ No Answer	KI
2. What are the flood risks and associated risk mitigation measures, and to what extent do people exercise these mitigation measures?	B.1.3	KI Interview	Estimation of shelters	1. Are you able to estimate the number of houses (shelters) at this site/in this community?	<input type="checkbox"/> Yes <input type="checkbox"/> No	KI
	B.1.3a	KI Interview	# of shelters currently at risk of flash flood damage (estimate)	1.a) Total number of houses (Shelters) in community/site/camp?	<input type="checkbox"/> (#) <input type="checkbox"/> (#)	KI
	B.1.3b		-	1.b) Number of houses (shelters) likely to be severely damaged (not-liveable)?	<input type="checkbox"/> (#) <input type="checkbox"/> (#) <input type="checkbox"/> (will include 'do not know' response option)	KI
	B.1.3c		-	1.c) Number of houses (shelters) likely to be partially damaged (liveable)?	<input type="checkbox"/> (#) <input type="checkbox"/> (#) <input type="checkbox"/> (will include 'do not know' response option)	KI
	B.1.4	KI Interview	Shelter type and # of people living in them	Do you know the approximate proportion of households residing in the following shelter types (provide examples)?	<input type="checkbox"/> Yes <input type="checkbox"/> No	KI
	B.1.4a	KI Interview	Shelter type and # of people living in them	If yes, please estimate, based on the type of shelter, proportion of population currently living in each shelter type (% of population – TOTAL = 100%)?	<input type="checkbox"/> No Shelter %; <input type="checkbox"/> Makeshift shelters %; <input type="checkbox"/> Shelter using Tarpaulins %; <input type="checkbox"/> Tents % <input type="checkbox"/> House %; <input type="checkbox"/> Schools/ Temporary learning spaces %; <input type="checkbox"/> Religious centre %; <input type="checkbox"/> Government Building %; <input type="checkbox"/> Ware House %; <input type="checkbox"/> Other (specify) %	KI

	B.1.5	KI Interview	Main accessible water sources	What were the main water sources accessed by people in the community/camp during the previous month?	<input type="checkbox"/> Piped Network (%) <input type="checkbox"/> Open well (%) <input type="checkbox"/> Closed well (%) <input type="checkbox"/> Water trucking (%) <input type="checkbox"/> Spring (%) <input type="checkbox"/> River/surface water (%) <input type="checkbox"/> Bottles <input type="checkbox"/> Other (specify)	KI
	B.1.6	KI Interview	Storage of water	How do people in the settlement/community typically store water? please choose from the below	<input type="checkbox"/> Jerry cans 20lt <input type="checkbox"/> Storage tanks <input type="checkbox"/> Bottles <input type="checkbox"/> Shared big storage tanks <input type="checkbox"/> Barrel <input type="checkbox"/> Other (specify) <input type="checkbox"/> Don't know/ No answer	KI
	B.1.7	KI Interview	Affected infrastructure and social services post flooding	What type of community infrastructure and social services are most likely to be affected by flash flooding? (situation after flooding, where applicable)	<p><b><u>Roads/streets</u></b></p> <input type="checkbox"/> Not likely damaged <input type="checkbox"/> Likely partially damaged <input type="checkbox"/> Likely severely damaged <input type="checkbox"/> Not relevant <p><b><u>Bridge / Culverts</u></b></p> <input type="checkbox"/> Not likely damaged <input type="checkbox"/> Likely partially damaged <input type="checkbox"/> Likely severely damaged <input type="checkbox"/> Not relevant <p><b><u>Protection wall (e.g. river protection)</u></b></p> <input type="checkbox"/> Not likely damaged <input type="checkbox"/> Likely partially damaged <input type="checkbox"/> Likely severely damaged <input type="checkbox"/> Not relevant <p><b><u>Small drains (open channels/piped drainage)</u></b></p> <input type="checkbox"/> Not likely damaged <input type="checkbox"/> Likely partially damaged <input type="checkbox"/> Likely severely damaged <input type="checkbox"/> Not relevant <p><b><u>Community dug wells</u></b></p> <input type="checkbox"/> Not likely damaged <input type="checkbox"/> Likely partially damaged <input type="checkbox"/> Likely severely damaged <input type="checkbox"/> Not relevant <p><b><u>Water supply networks</u></b></p> <input type="checkbox"/> Not likely damaged <input type="checkbox"/> Likely partially damaged <input type="checkbox"/> Likely severely damaged <input type="checkbox"/> Not relevant <p><b><u>Electricity networks</u></b></p> <input type="checkbox"/> Not likely damaged <input type="checkbox"/> Likely partially damaged <input type="checkbox"/> Likely severely damaged <input type="checkbox"/> Not relevant <p><b><u>Telecommunication and Internet Coverage</u></b></p> <input type="checkbox"/> Not likely damaged	KI

					<input type="checkbox"/> Likely partially damaged <input type="checkbox"/> Likely severely damaged <input type="checkbox"/> Not relevant <b>Other structure (specify _____)</b> <input type="checkbox"/> Not likely damaged <input type="checkbox"/> Likely partially damaged <input type="checkbox"/> Likely severely damaged <input type="checkbox"/> Not relevant	
	B.1.8	KI Interview	High priority infrastructure repairs	Which of the following are currently a high repair or rehabilitation priority for the community/site?	<input type="checkbox"/> Roads/streets <input type="checkbox"/> Bridge / Culverts <input type="checkbox"/> Protection wall (e.g. river protection) <input type="checkbox"/> Small drains <input type="checkbox"/> Community dug wells <input type="checkbox"/> Water supply network <input type="checkbox"/> Electricity networks <input type="checkbox"/> Telecommunication and Internet Coverage <input type="checkbox"/> Markets and commercial centres <input type="checkbox"/> Any other structure (specify _____) <input type="checkbox"/> Don't know/ No answer	KI
	B.1.9		Affected and inaccessible services post flooding	Which services are mostly likely to be affected and not accessible/difficult to access during flash flooding?	<b>Electricity</b> <input type="checkbox"/> Available to most of the people <input type="checkbox"/> Available to half of the people <input type="checkbox"/> Available to half of the people <input type="checkbox"/> Not available at all <input type="checkbox"/> Do not know <b>Water supply</b> <input type="checkbox"/> Available to most of the people <input type="checkbox"/> Available to half of the people <input type="checkbox"/> Available to half of the people <input type="checkbox"/> Not available at all <input type="checkbox"/> Do not know	KI
<b>Section C: Flood Knowledge, Practices</b>						
2. What are the flood risks and associated risk mitigation measures, and to what extent do people exercise these mitigation measures?	C.1.1	KI Interview	Flood risks and preparation practices	Has this location/site experienced flooding in the past two years?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know/No answer	KI
	C.1.2	KI Interview	Flood risks and preparation practices	If yes, were any mitigation measures taken in the past to prevent the adverse effects of flooding?	<input type="checkbox"/> Staying with family members in another location <input type="checkbox"/> Migrating to another	KI

					<p>area/ camp</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Prepping camp for flooding ((elevating tents, adding tarps, etc))</li> <li><input type="checkbox"/> Prepping shelters for flooding – raising shelter, adding tarps etc</li> <li><input type="checkbox"/> Stocking up on essential materials (food, water, clothing, bedding, fuel)</li> <li><input type="checkbox"/> Digging drainage channels/constructing flood diversion bunds to direct water away from shelters/structures</li> <li><input type="checkbox"/> Clearing drains of debris/unblocking drains</li> <li><input type="checkbox"/> Graveling/paving vehicle/pedestrian accessways to ensure they remain accessible during heavy rain</li> <li><input type="checkbox"/> Rehabilitation of roads and associated drainage systems in or near the community/site</li> <li><input type="checkbox"/> none – did not feel the need to take mitigation measures</li> <li><input type="checkbox"/> none – no mitigation measures available</li> <li><input type="checkbox"/> Other</li> <li><input type="checkbox"/> Don't know/No answer</li> </ul>	
C.1.2a	KI Interview	Flood risks and preparation practices	What do you think causes flooding in this community/site?	<ul style="list-style-type: none"> <li><input type="checkbox"/> Blocked drains</li> <li><input type="checkbox"/> Poor surface water drainage</li> <li><input type="checkbox"/> Poor quality of the surrounding roads and related drainage systems</li> <li><input type="checkbox"/> This community is in a particularly flood prone region</li> <li><input type="checkbox"/> Don't know/ No answer</li> </ul>	KI	
C.1.3	KI Interview	Flood risks and preparation practices	Currently, are there any contingency plans in place to help mitigate the effects of a future flash flood?	<ul style="list-style-type: none"> <li><input type="checkbox"/> Yes, by the camp management</li> <li><input type="checkbox"/> Yes, by the community</li> <li><input type="checkbox"/> Yes, by humanitarian assistance actor</li> <li><input type="checkbox"/> Yes, individual measures</li> <li><input type="checkbox"/> No – no mitigation measures available</li> <li><input type="checkbox"/> Don't know/ No answer</li> <li><input type="checkbox"/> Blocked drains</li> <li><input type="checkbox"/> Poor surface water drainage</li> <li><input type="checkbox"/> Poor quality of the surrounding roads and related drainage systems</li> <li><input type="checkbox"/> This community is in a particularly flood prone region</li> </ul>	KI	

					<input type="checkbox"/> Don't know/ No answer	
	C.1.3a	KI Interview	Flood risks and preparation practices	If yes, which ones?	<input type="checkbox"/> Staying with family members in another location <input type="checkbox"/> Migrating to another area/ camp <input type="checkbox"/> Prepping camp for flooding ((elevating tents, adding tarps, etc)) <input type="checkbox"/> Prepping shelters for flooding – raising shelter, adding tarps etc <input type="checkbox"/> Stocking up on essential materials (food, water, clothing, bedding, fuel) <input type="checkbox"/> Digging drainage channels/constructing flood diversion bunds to direct water away from shelters/structures <input type="checkbox"/> Clearing drains of debris/unblocking drains <input type="checkbox"/> Graveling/paving vehicle/pedestrian accessways to ensure they remain accessible during heavy rain <input type="checkbox"/> Rehabilitation of roads and associated drainage systems in or near the community/site <input type="checkbox"/> none – did not feel the need to take mitigation measures <input type="checkbox"/> none – no mitigation measures available <input type="checkbox"/> Other <input type="checkbox"/> Don't know/No answer	KI
	C.1.3b	KI Interview	Flood risks and preparation practices	If other, please describe	<input type="checkbox"/> text	KI
	C.1.3.c	KI Interview	Flood risks and preparation practices	What mitigation measures or contingency plans do you think have been the most successful (if answered 'yes' to question C.1.3). Choose multiple.	<input type="checkbox"/> Staying with family members in another location <input type="checkbox"/> Migrating to another area/ camp <input type="checkbox"/> Prepping camp for flooding ((elevating tents, adding tarps, etc)) <input type="checkbox"/> Prepping shelters for flooding – raising shelter, adding tarps etc <input type="checkbox"/> Stocking up on essential materials (food, water, clothing, bedding, fuel) <input type="checkbox"/> Digging drainage channels/constructing flood diversion bunds to direct water away from shelters/structures <input type="checkbox"/> Clearing drains of debris/unblocking drains	KI

					<input type="checkbox"/> Graveling/paving vehicle/pedestrian accessways to ensure they remain accessible during heavy rain <input type="checkbox"/> Rehabilitation of roads and associated drainage systems in or near the community/site <input type="checkbox"/> none – did not feel the need to take mitigation measures <input type="checkbox"/> none – no mitigation measures available <input type="checkbox"/> Other <input type="checkbox"/> Don't know/ No answer	
	C.1.3d	KI Interview	Proximity of location/site to flood prone zone	Do any of the following apply to this community/site? (select all that apply)	<input type="checkbox"/> Yes, the community/site is near a drainage channel <input type="checkbox"/> Yes, the community/site is near agriculture lands with canals for irrigation <input type="checkbox"/> Yes, the community/site has poor surface water drainage <input type="checkbox"/> Yes, the community/site is near overland flow paths <input type="checkbox"/> Yes, the community/site is near a localised low point or depression (ponding of water) <input type="checkbox"/> No, the community/site is not located in the flood prone zone <input type="checkbox"/> Don't know/ No answer	KI
	C.1.3e	KI Interview	Proximity of location/site to flood prone zone	<p>If selected "Yes, agriculture lands with canals for irrigation"</p> <p>In the event of a flood, are the canals being used to divert water?</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know/ No answer	KI
	C.1.4	KI Interview	Flood risks and preparation practices	Do people or organisations in this community/site face any barriers in implementing mitigation measures to prevent flood hazards?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know/ No answer	KI
	C.1.4a	KI Interview	Flood risks and preparation practices	If yes, what kind of barriers do people/organisations in this community/site face?	<input type="checkbox"/> People do not see flooding as a major issue <input type="checkbox"/> Lack of knowledge on flood prevention measures <input type="checkbox"/> Lack of money to take measures <input type="checkbox"/> Quality of materials <input type="checkbox"/> Lack of information about alternative available sites/locations where to migrate ahead of the flooding season	KI

					<input type="checkbox"/> Lack of time to prepare for flooding <input type="checkbox"/> Fearing loss of livelihoods as a result of relocation to another site/location <input type="checkbox"/> Lack of social and emotional support from family or extended family <input type="checkbox"/> Fearing integration issues with residents when relocating to another site/location <input type="checkbox"/> Lack of logistical support received from family or extended family <input type="checkbox"/> Lack of financial support from family or extended family <input type="checkbox"/> Cannot access remittances received from family or extended family <input type="checkbox"/> Lack of logistical support from community <input type="checkbox"/> Lack of financial support from community <input type="checkbox"/> Fear of possible separation by family members <input type="checkbox"/> Do not know <input type="checkbox"/> Other (please explain)	
	C.1.4a.1	KI Interview	Flood risks and preparation practices	<p>(If the KI is an INGO/NGO representative) If yes, what kind of barriers do people/organisations in this community/site face?</p> <p>(If the KI is a community representative) Do people or organisations in this community/site face any barriers in implementing mitigation measures to prevent flood hazards?</p>	<input type="checkbox"/> Community does not see flooding as a major issue/ primary need <input type="checkbox"/> Lack of information about alternative available sites/locations where to migrate ahead of the flooding season <input type="checkbox"/> Lack of information about potential livelihoods alternatives/assistance as a result of relocation to another site/location <input type="checkbox"/> Lack of knowledge on flood prevention measures <input type="checkbox"/> Lack of funding to take measures <input type="checkbox"/> Fearing integration issues with residents when relocating to another site/location <input type="checkbox"/> Quality of materials <input type="checkbox"/> Lack of information on when to prepare for floods/ unpredictable weather <input type="checkbox"/> Fear of possible separation by family members	KI

					<input type="checkbox"/> Do not know	
	C.1.5	KI Interview	Flood risks and preparation practices Flood risks and preparation practices	Does this community/site have access to emergency services (in terms of people to contact in case you need help)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> I do not know	KI
	C.1.6	KI Interview	Flood risks and preparation practices	If no, why?	<input type="checkbox"/> No phone service/ connectivity to make calls <input type="checkbox"/> Do not know how to contact the right individuals <input type="checkbox"/> Do not know who to contact <input type="checkbox"/> Those who have been contacted do not know how to assist <input type="checkbox"/> Damage is so severe that assistance cannot be brought into the camp / shelter / community	KI
	C.1.7	KI Interview	Flood Risk perception	Would you consider this community/site to be at high risk of being affected by flooding?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure	KI
1. What do people know about Seasonal flooding in the assessed area?	C.1.7a	KI Interview	Flood Risk perception	In your opinion, how likely is it that the community/site will be affected by a flood in the next three to four months? (Affected = have to move, incur financial loss, loss of access to services, etc)	<input type="checkbox"/> Very likely <input type="checkbox"/> Likely <input type="checkbox"/> Unlikely <input type="checkbox"/> Very unlikely <input type="checkbox"/> Not sure	KI
	C.1.7b	KI Interview	Flood Risk perception	If yes (to question C.1.7), do you think inadequate road/drainage systems are a major contributing factor? services, etc)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure	KI
	C.1.8	KI Interview	Flood Risk perception	How likely is the community/site management and other response actors to take preventive measures against the affects of a flood?	<input type="checkbox"/> Very likely <input type="checkbox"/> Likely <input type="checkbox"/> Unlikely <input type="checkbox"/> Very unlikely <input type="checkbox"/> Not sure	KI
	C.1.9	KI Interview	Flood Risk perception	Overall, how would you rank the level of concern within the community/site about the potential for flooding?	<input type="checkbox"/> Very concerned <input type="checkbox"/> Concerned <input type="checkbox"/> Somewhat concerned <input type="checkbox"/> Not concerned at all <input type="checkbox"/> Not sure	KI
1c. What type of information about seasonal flooding is available from these sources?	C.1.10	KI Interview	Flood zone knowledge	From which sources do people in the community get information on flood warnings and preparedness?	<input type="checkbox"/> Television <input type="checkbox"/> Radio <input type="checkbox"/> Newspaper <input type="checkbox"/> Humanitarian actors <input type="checkbox"/> Family/relatives <input type="checkbox"/> Friends/colleagues <input type="checkbox"/> Social media <input type="checkbox"/> Community/religious	KI

1b. Which of these sources are trusted the most?					leader <input type="checkbox"/> Local administration <input type="checkbox"/> Camp administration <input type="checkbox"/> Have not received any information relating to flooding	
	C.1.11	KI Interview	Flood zone knowledge	Which sources do people in the camp/community trust the most to give accurate information on flood preparedness?	<input type="checkbox"/> Television <input type="checkbox"/> Radio <input type="checkbox"/> Newspaper <input type="checkbox"/> Humanitarian actors <input type="checkbox"/> Family/relatives <input type="checkbox"/> Friends/colleagues <input type="checkbox"/> Social media <input type="checkbox"/> Community/religious leader <input type="checkbox"/> Local administration <input type="checkbox"/> Camp administration <input type="checkbox"/> None	KI
	C.1.12	KI Interview	Flood zone knowledge	(If selected any options other than 'none' to question C.1.11) What type of information is provided by trusted sources?	<input type="checkbox"/> When to expect flooding <input type="checkbox"/> Where to go for basic supplies (food, water, shelter) <input type="checkbox"/> Alternate places to shelter (other camp locations) <input type="checkbox"/> Assistance foreseen, including livelihoods and community initiatives, in the alternate site/location <input type="checkbox"/> Alternate places to shelter (within camp) <input type="checkbox"/> What emergency supplies to keep <input type="checkbox"/> Any currently available financial or other type of assistance <input type="checkbox"/> Who to contact in case of an emergency <input type="checkbox"/> What to do in case of severe shelter damage? <input type="checkbox"/> Other	KI
	C.1.13	KI Interview	Communication with aid providers	Does this community / site receive aid from aid providers?	<input type="checkbox"/> Yes, from NGOs providing humanitarian assistance <input type="checkbox"/> Yes, from community groups <input type="checkbox"/> No <input type="checkbox"/> Do not know	KI
	C.1.14	KI Interview	Communication with aid providers	In the event of a flash flood, would members of this community/site be able to communicate with aid providers and local authorities about their immediate needs?	<input type="checkbox"/> Yes, with both <input type="checkbox"/> Yes, with aid providers <input type="checkbox"/> Yes, with local authorities <input type="checkbox"/> No <input type="checkbox"/> Do not know	KI

	C.1.15	KI Interview	Communication with aid providers	What are the preferred means of communicating with aid providers about services or information relating to flash flooding?	<input type="checkbox"/> Phone call <input type="checkbox"/> SMS <input type="checkbox"/> Twitter <input type="checkbox"/> Facebook <input type="checkbox"/> WhatsApp (or other mobile phone-based platform) <input type="checkbox"/> Internet (Other) <input type="checkbox"/> Don't know / No answer	KI
<b>1d. What type of resources are available in the event of a flood hazard?</b>	C.1.16	KI Interview	Flood risks and preparation practices	What resources would be available to residents in the community/site in the event of a flood?	<input type="checkbox"/> Social and emotional support from family or extended family <input type="checkbox"/> Logistical support received from family or extended family <input type="checkbox"/> Financial support received from family or extended family <input type="checkbox"/> Remittances received from family or extended family <input type="checkbox"/> Social and emotional support received from community <input type="checkbox"/> Logistical support received from community <input type="checkbox"/> Financial support received from community <input type="checkbox"/> Other <input type="checkbox"/> None <input type="checkbox"/> Do not know	KI
<b>Section D: Protection Support</b>						
<b>N/A</b>	D.1.1	KI Interview	Protection support	Have you observed/are you aware of the type of support (formal or informal) that exists specifically for women and girls in this community/sites during sudden natural hazards, like flooding?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know/No answer	KI
	D.1.1a	KI Interview	Protection support	a.) If Yes, specify the type of support	<input type="checkbox"/> Women and Girl Safe Spaces <input type="checkbox"/> Psychosocial Support (PSS) <input type="checkbox"/> Case management <input type="checkbox"/> Dignity kits <input type="checkbox"/> Other (specify)	KI