Water, Sanitation and Hygiene Follow-up Assessment Monsoon Season (August - October 2018)



Camp 21 / Chakmarkul, Teknaf Upazila, Cox's Bazar District, Bangladesh

Ø Overview & Methodology

WASH Sector Cox's Bazar

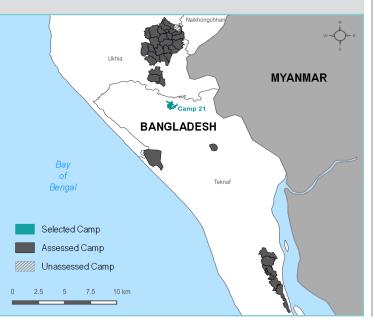
Since August 2017, an estimated 727,000 Rohingya refugees have arrived in Bangladesh's Cox's Bazar District from Myanmar, bringing the total number residing in Bangladesh to approximately 921,000.¹ The unplanned and spontaneous nature of the post-August Rohingya refugee camps have combined with high population densities and challenging environmental conditions to produce a crisis with especially acute water, sanitation and hygiene (WASH) needs.

In April 2018, REACH undertook a WASH household assessment in the framework of the Cox's Bazar WASH Sector with UNICEF support, which established a baseline for WASH conditions and perceptions amongst Rohingya refugee communities in Cox's Bazar District. Between August and October 2018, REACH undertook this follow-up assessment, taking the form of a household survey covering 33 out of the 34 Inter Sector Coordination Group-recognised camps, with Kutupalong RC the only exception due to ongoing security concerns. Due to issues surrounding access, enumerators were able to access some of the camps only intermittently between 12 and 26 September 2018.

This follow-up assessment aims to understand changing WASH conditions across the Rohingya refugee camps since April 2018, and where possible understand the impact of the monsoon season, to inform priority areas and types of humanitarian programming. Results of this follow-up assessment are generalizable at the camp level with a 95% confidence level and a 10% margin of error. The method of identifying heads of households as primary respondents in the baseline survey resulted in a low proportion of female respondents. To address this limitation, this follow-up survey required enumerators to interview refugees of the same gender only. As a result, menstrual hygiene indicators are not included in camp-level factsheets, due to an insufficient number of females having been interviewed to yield generalizable results, however these indicators are included in the all-camp summary factsheet. This factsheet presents an analysis of data collected within Camp 21 / Chakmarkul, where 116 households were surveyed,² as well as an indicator comparison table displaying changes in WASH conditions between the baseline and follow-up assessments.

Enumerator training took place prior to the start of data collection, including sessions on testing for residual chlorine run by the Centre for Disease Control, as well as Prevention of Sexual Exploitation and Abuse (PSEA) run by UNHCR. Support for questionnaire translation from English to Rohingya language and enumerator language training was provided by Translators Without Borders.

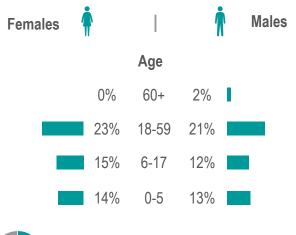
As part of this assessment, 33 camp-level factsheets and one all-camps summary factsheet display key findings from the survey. All REACH products, including those related to the baseline assessment, are available on the <u>REACH Resource</u> <u>Centre</u>. In addition, all datasets are available on <u>Humanitarian Data Exchange</u>, while all factsheets and maps are available on <u>HumanitarianResponse</u>.



Demographics

Population in camp (individuals) ³	12,249
Population in camp (families) ³	3,001
Average age of respondent	34
Average household size	4.6

Composition of surveyed households





43% of respondents were female



27% of heads of households were female



68% of households with at least one child under 5 years old

% of households reporting different levels of overall satisfaction with water, sanitation and hygiene

Very satisfied	4%	•
Satisfied	49%	
Unsatisfied	45%	
Very unsatisfied	2%	1

¹Inter Sector Coordination Group Situation Report Data Summary (27 September, 2018). See: https://bit.ly/2D36vx5

²Please note that 3 surveys from Camp 21 contained water container measurement outliers and were removed from data analysis, to avoid data skewing. This did not affect the confidence level for Camp 21. ³Due to relocations of refugees to extension camps occurring at the time of assessment, population numbers for Camp 4 Extension and Camp 20 Extension were derived from the UNHCR Family Counting August 15, 2018 dataset, while population numbers for the remaining 31 camps surveyed were derived from the July 15, 2018 dataset. This assessment considers a household a 'family' as defined in the UNHCR Family Counting datasets.



For more information, please contact REACH: bangladesh@reach-initiative.org



WASH Sector Cox's Bazar Water, Sanitation and Hygiene Follow-up Assessment Monsoon Season (August - October 2018)



Camp 21 / Chakmarkul, Teknaf Upazila, Cox's Bazar District, Bangladesh

• Water

Water access

% of households reporting primary water sources for drinking water $^{\!\!\!\!^4}$

Primary of	drinking	water	sources
------------	----------	-------	---------

✓ Improved water sources	100%
Tubewells/boreholes/handpump	65%
Tapstand	32%
Protected dugwell	0%
Protected spring	0%
Cart with small tank/drum	0%
Tanker truck	0%
Water tank	3%
Rainwater collection	0%
Bottled water	0%
x Unimproved water sources	0%
Unprotected dugwell	0%
Unprotected spring	0%
Surface water	0%

% of households reporting household members that normally collect water

Ť	Female		Male	İ
	65%	Adult	4%	
	4%	Children	2%	I.



32% of households reported total water collection time (combined travel and waiting) as more than 30 minutes^{5,6}

61% of households reported problems with accessing water

% of households reporting different problems with accessing water^7

0	Path to water source is too steep	51%
2	Source is too far away	46%
3	Long wait time	34%

% of households reporting changes in access to water compared to before the monsoon season

Much better	1%	I.
Better	34%	
No change	51%	
Worse	13%	
Much worse	1%	I.

Water collection and storage

Average amount of water collected by households⁸

	Drinking water	Non-drinking water	All domestic water
Average litres collected per person, per day for each household	4L	6L	10L



67% of households reported collecting at least 15 litres of water for all domestic uses per person, per day⁹



91% of households reported collecting at least 3 litres of drinking water per person, per day¹⁰

% of containers within households that were:

Clean:

100% Covered AND clean: 99%

⁴Cox's Bazar WASH Sector considers 'improved' water sources as listed

⁵There were no significant differences in responses from females and males

⁶SDG JMP standard for combined travel time to/waiting time at water source:

30 minutes or less: See: https://bit.ly/20NrjQg

⁷Respondents could select multiple options

[®]Respondents were asked to present all water containers used to collect water the day prior to the survey, then identified which containers are used for drinking water, non-drinking water, or both. All containers were measured with tape measures to determine approximate volume.

SPHERE minimum standard for all domestic water: 15 litres/person/day

See: https://bit.ly/UKcX1Z ¹⁰SPHERE minimum standard for drinking water: 2.5 - 3 litres/person/day:

See: https://bit.ly/UKcX1Z





Water, Sanitation and Hygiene Follow-up Assessment Monsoon Season (August - October 2018)



Camp 21 / Chakmarkul, Teknaf Upazila, Cox's Bazar District, Bangladesh

% of households reporting using types of containers used for all domestic water^{11,12}

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0	Aluminium pitcher	96%
2	Bucket	75%
в	Plastic jerrycan	12%

% of households reporting duration of all domestic water storage within the household

Less than one day	69%	
1-2 days	31%	
3-4 days	0%	
5 days or more	0%	

% of containers tested for chlorine returning chlorine residual (c/r) values¹³

3 c/r	2 c/r	1.5 c/r	1 c/r	.6 c/r			
0%	0%	1%	2%	0%	0%	5%	92%



of households reported witnessing someone treating water with chlorine the last time they were at a waterpoint¹⁴



of households reported normally treating water before drinking

% of households reporting using types of water treatments^{11,15}

0	Aquatabs	28%
2	Cloth filters	16%
8	Boiling	1%

% of households reporting reasons for not using aquatabs¹⁶

0	Supply of aquatabs ran out	63%
2	Never received aquatabs	48%
3	Don't know how to use aquatabs	26%

Coping strategies



7% of households reported facing problems accessing water in the month prior to data collection

% of households reporting employing different coping strategies to compensate for water insufficiency in the month prior to data collection^{11,17}

0	Use a source that is further away	7%
2	Use an unsafe water source	4%
3	Send children to collect water	2%

Sanitation

Defecation and latrines

% of households reporting different household members normally defecating in different spaces

Places of defecation	Females ≥5	Males ≥5	Children <5
Communal/public latrines	56%	57%	25%
At facilities (e.g. school, clinic)	0%	0%	0%
Single household latrine (self-made)	1%	2%	0%
Single household latrine (non-self made)	17%	17%	4%
Shared household latrine (self-made)	14%	11%	8%
Shared household latrine (non-self made)	12%	12%	1%
Open defecation	0%	1%	49%
Bucket	0%	0%	12%
Other	0%	0%	1%



72% of households reported presence of soap the last time they were at the latrine

% of households reporting women and men facing problems with accessing latrines



¹³Enumerators tested water for chlorine with pool testers in containers where respondents reported using the container for collecting drinking water. 162 out of 296 total water

REA

containers were tested for chlorine across within Camp 21 / Chakmarkul

¹⁴This indicator relates to an initiative in camps where volunteers or staff assist

people put chlorine in their water containers when at a waterpoint

¹⁵Three most common types of water treatments used are shown

¹⁶This question was asked when respondents reported not using aquatabs. Three most common reasons for not using aquatabs are shown

Informing

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¹⁷Three most common strategies to compensate for water insufficiency are shown



WASH Sector Cox's Bazar Water, Sanitation and Hygiene Follow-up Assessment Monsoon Season (August - October 2018)



Camp 21 / Chakmarkul, Teknaf Upazila, Cox's Bazar District, Bangladesh

% of households reporting women and men facing types of problems accessing latrines^{18,19}

	Women	I	Men 👖	
34%	Too many people	0	Too many people	20%
21%	No gender separation	2	Too far away	15%
19%	Too far away	в	Unclean	12%



27% of households reported at least one member feeling unsafe when using latrines

% of households reporting different family members feeling unsafe when using latrines

Ŷ	Female		ĺ	Male	Ń
		5%	Elderly	4%	L.
		22%	Adults	7%	
		10%	Children	7%	

% of households reporting changes in access to latrines compared to before the monsoon season

Much better	3%	I.
Better	44%	
No change	44%	
Worse	9%	
Much worse	0%	

Environmental sanitation



unicef

9% of households reported stagnant water gathering around the household following heavy rain

% of households reporting spaces used for disposing of domestic waste^{\ensuremath{^{20}}}

0	Designated open area	69%
2	Communal pit	16%
3	Household pit	9%

% of households reporting employing different methods for disposing of children's faeces^{21,22}

Methods	
✓ Safe methods	39%
Collected, rinsed and disposed in latrine	31%
Collected and disposed in latrine (not rinsed)	8%
x Unsafe methods	22%
Collected, rinsed and disposed in the shelter	0%
Collected and disposed in an open area	21%
Disposed with other garbage	0%
Buried it	0%
Open defecation	1%

🆫 Hygiene

Soap and handwashing

% of households reporting possession of soap for handwashing^{\rm ^{23}}

Yes (enumerator did see soap):

82% Yes (enumerator did not see soap):

16% No: 2%



10% of households reported facing challenges with accessing soap

% of households reporting facing different problems with accessing soap²⁴

0	Insufficient soap is provided in distributions	10%
2	Soap is too expensive	5%
3	Other needs are prioritised	3%



51% of households were able to identify at least three critical handwashing times²⁵

¹⁸Respondents could select multiple options

¹⁹Top three most common problems with accessing latrines are shown

²⁰Top three most common locations for disposing of domestic waste are shown

²¹Only households with at least one child under 5 were asked where they dispose of children's faeces. Global WASH Cluster standard: collecting and disposing of children's faeces in a latrine (rinsed and non-rinsed) is considered safe. See: https://bit.ly/2ACcRCf

²²Only households reporting having at least one child under 5 were asked about disposing of child faeces; data shown relates to the proportion of all surveyed households and therefore does not equal 100 ²³Respondents were asked to present soap to enumerators

²⁴Respondents were asked to present soap to enumerators ²⁴Top three most common problems with accessing soap are shown

²⁶Global WASH Cluster standard: the six critical times when people should wash their hands are (1) before eating, (2) before cooking, (3) after defecation, (4) before breastfeeding, (5) before feeding children, and (6) after handling a child's stool/changing a child's nappy/cleaning a child's bottom. See: https://bit.ly/2ACcRCf





Camp 21 / Chakmarkul, Teknaf Upazila, Cox's Bazar District, Bangladesh

% of households identifying different times when someone should wash their hands²⁶

WASH Sector Cox's Bazar

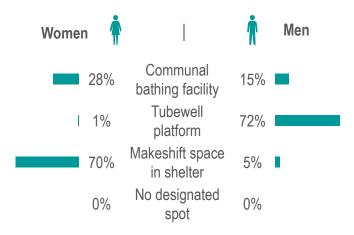
Before eating	98%	Before feeding children	35%
After defecation	94%	When hands look dirty	35%
After eating	78%	After handling child faeces	25%
Before prayer	54%	Before breastfeeding	22%
Before cooking/ meal preparation	38%	When hands feel dirty, sticky, oily	17%

% of households reporting methods for handwashing

Soap and water	98%	
Water only	2%	I
Water and ash	0%	

Bathing

% of households reporting women and men using types of bathing facilities



% of households reporting durations to walk to and from bathing facilities normally used

>30 mins	0%	
30 mins	0%	
20 mins	1%	1
15 mins	3%	1
10 mins	28%	
≤5 mins	68%	

% of households reporting women and men facing problems with accessing bathing facilities

Ť	Women	18%		5%	Men	Ť	
	ouseholds r f problems						27
	🛉 Wome	en		ľ	Men		
12%	Too far	away	0	Too fa	ar away		5%
9%	Too many p	people	2	Too n	nany pe	ople	3%
4%	Insufficient at	water facility	B	Facili	ty is und	clean	2%

% of households reporting different family members feeling unsafe using bathing facilities

Ŷ	Fema	les		Males	İ
		0%	Elderly	0%	
		6%	Adults	4%	
	1	1%	Children	0%	

% of households reporting changes in access to bathing facilities compared to before the monsoon season

Much better	4%	1 - C
Better	39%	
No change	53%	
Worse	4%	1 - C
Much worse	0%	

Laundry

% of households reporting using types of spaces to do laundry

Tubewells	54%	
Communal bathing facility	31%	
Inside the shelter	15%	

²⁶Respondents could select multiple options

²⁷Top three difficulties with accessing bathing facilities for women and men are shown



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Camp 21 / Chakmarkul, Teknaf Upazila, Cox's Bazar District, Bangladesh

Hygiene distributions

NASH Sector

Cox's Bazar

% of households reporting having received a 'full' WASH hygiene kit²⁸

In the last month In the last 3 months In the last 6 months In the last year More than one year ago Never received

0% 8% ■ 59% ■ 19% ■ 6% ■ 8% ■

% of households reporting having received a 'top-up' WASH hygiene kit^{29}

In the last week	29%	
In the last 2 weeks	10%	
In the last month	17%	
More than 1 month ago	7%	
More than 2 months ago	12%	
More than 3 months ago	21%	
Never received	4%	

Hygiene training and demonstrations



65% of households reported having participated in at least one hygiene training or demonstration within two weeks prior to the survey

% of households reporting different hygiene training or demonstrations that households members^{30,31}

Have	participated	in already:
------	--------------	-------------

Would like to participate in:

65%	Hand washing with soap	0	Hand washing with soap	29%
60%	Safe water chain management	2	Safe water chain management	27%
59%	Food hygiene	B	Food hygiene	27%

Diarrhoea and cholera/acute water diarrhoea³²

% of households identifying different diarrhoea prevention methods³¹

Wash hands with soap	87%	
Drink only clean water	81%	
Eat only safe food	77%	
Use latrines	60%	
Vaccination	2%	T

% of households identifying different diarrhoea causes³¹

Dirty food	91%
Dirty water	85%
Dirty hands	68%
Open defecation	44%
Germs	34%

% of households identifying different signs of cholera/ acute watery diarrhoea³¹

Rice watery stools	90%
Stomach pain/cramps	54%
Vomiting	47%
Sunken eyes	43%
Rapid dehydration	42%

²⁸'Full' hygiene kits include non-consumables (i.e. water containers)

²⁹'Top-up' hygiene kits include consumables (i.e. soap, shampoo)

³⁰Top three most common hygiene trainings that households have participated in and would like to participate in are shown

³¹Respondents could select multiple options

³²Acute water diarrhoea is commonly referred to as AWD









-II Indicator Comparison Table: Baseline (April 2018) & Follow-up (August - October 2018) Assessments

The following table displays a comparison of findings from the REACH WASH Household Baseline (April 2018) and Monsoon Follow-up (August - October 2018) assessments, showing changes in WASH conditions within Camp 21 / Chakmarkul in Cox's Bazar District, Bangladesh. The table identifies the recognised WASH monitoring frameworks from which indicators were adopted in designing the assessments, highlighting indicators reportable across muliple frameworks where applicable.

Indicators Cox's Bazar						
	Global Sector	WASH Cluster Rohingya Response	Joint Response Plan SDG Joint Monitoring Program	SPHERE Indicators	Baseline	Monsoon Follow-up
Water						
% of households with access to an improved¹ water source for drinking	>	>	>	>	100%	100%
$\%$ of households with access to an improved' water source for other purposes (i.e. cooking and cleaning) \checkmark	>	>	>	>	%66	100%
% of households accessing an adequate/sufficient quantity of water ^{2,3} - drinking water = 3 litres/person/day - all domestic water = 15 litres/person/day				>>		91% 67%
$\%$ of households reporting facing problems with accessing water in the month prior to data collection \checkmark						7%
% of households that use improved ¹ water sources exceeding 30 minutes collection time ⁴			>	>	ı	32%
st of households reporting being satisfied or very satisfied with access to water				>	23%	53%
\checkmark of households that practice household water treatment	>			>	41%	40%
						Colour key; Green = positive change from baseline Orange = no change from baseline Red = negative change from baseline Grey = not assessed in baseline

'Ox's Bazar WASH Sector standard for improved water into settlement site/public tap/standpipe, tubewell/borehole/handpump, protected dugwell, protected spring, rainwater collection, bottled water, cart with small tank/drum, water tank "SPHERE standard for sufficient quantity of water dinking water combined: 15 littes/personiday: dinking and non-dinking water combined: 15 littes/personiday.

Water quartity data from the baseline survey is not included in this comparison table due to limitations resulting from the method of estimating water capacity through enumerators' observation of water containers within households. Water quantity data from the follow-up

survey is included due to the more reliable method used of enumerators measuring each water container within the household with a tape measure to determine approximate litre capacity of drinking and non-drinking water.

water source. Additional monitoring frameworks have been toked as they contain indicators that may be reported on by using the same indings from the baseline and/or follow-up surveys, as follows: Global WASH Clustent. % of households with access to a source of safe water, sources that may be reported on by using the same indings from the baseline and/or follow-up surveys, as follows: Global WASH Clustent. % of households with access to a source of safe water, Sources that may be reported on by using the same indings from that sources. Rothing and cooking, as source as safe water, sources to a source of safe water sources. The same and/or followed standards and meeting demand for domestic purposes, SPHERE: % of households where only safe water is used for drinking and cooking. As such, assessment findings may be aggregated to the fixed monitoring frameworks. The same principle applies to all common indicators. Please note: Indicators identified as reportable across multiple monitoring frameworks are worded primarity as per Cox's Bazar WASH Sector rioticators, with additional monitoring frameworks containing similar indicators indicators with additional monitoring frameworks on an improved

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-II Indicator Comparison Table: Baseline (April 2018) & Follow-up (August - October 2018) Assessments

		Monitor	Monitoring frameworks	eworks		REACH WASH I	REACH WASH Household Data	
Indicators	Cox's Bazar WASH Sector	Global WASH Cluster	Sohingya Response Joint Response Plan	SDG Joint Monitoring Program	SPHERE Indicators	Baseline	Monsoon Follow-up	
 Water (cont.) 								
% of households possessing at least one acceptable narrow-necked or covered container for drinking		>			>	100%	96%	
% of households with appropriate household water storage containers (covered and clean)	>				>		%66	
The Sanitation								
% of households in which at least one member practices open defecation - age five and over - under five		>>				0% 45%	1% 49%	
% of households reporting being satisfied or very satisfied with access to latrines						53%	81%	
% of households reporting presence of human faeces around the site/block often or always					>	2%	14%	
$\%$ of households reporting disposing of faeces of children under 5 in a safe 5 manner		>				75%	39%	
% of households reporting being satisfied or very satisfied with the solid waste management system around the site/block						73%	95%	
							Colour key: Green = positive change from baseline Orange = no change from baseline Red = negative change from baseline Grey = not assessed in baseline	

See monitoring frameworks at the following links: Cox's Bazar WASH Sector: https://bit.w/2X/CSFG 1 Rohingya Response Plan 2019; https://bit.w/2X/CSFm1 1 Sustainable Development Geals. Joint Monitoring Program: https://bit.w/2X/CSFG 1 Rohingya Response Plan 2019; https://bit.w/2X/CSFm1 1 Sustainable Development Geals. Joint Monitoring Program: https://bit.w/2X/CSFG 1 Rohingya Response Plan 2019; https://bit.w/2X/CSFm1 1 Sustainable Development Geals. Joint Monitoring Program: https://bit.w/2X/CSFG 1 Rohingya Response Plan 2019; https://bit.w/2X/CSFm1 1 Sustainable Development Geals. Joint Monitoring Program: https://bit.w/2X/CSFG 1 Rohingya Response Plan 2019; https://bit.w/2X/CSFG 1 Rohingya Response Plan 2019; https://bit.w/2X/CSFm1 1 Sustainable Development Geals. Joint Monitoring Program: https://bit.w/2X/CSFG 1 Rohingya Response Plan 2019; https://bit.w/2X/CSFm1 1 Sustainable Development Geals.Joint Monitoring Program: https://bit.w/2X/CSFG 1 Rohingya Response Plan 2019; https://bit.w/2X/CSFG 1 Rohingya Response Plan 2019; https://bit.w/2X/CSFG 1 Rohingya Response Plan 2019; https://bit.w/2X/CSFG 1 Rohingya Response Plan 2019; https://bit.w/2X/CSFG 1 Rohingya Response Plan 2019; https://bit.w/2X/CSFG 1 Rohingya Response Plan 2019; https://bit.w/2X/CSFG 1 Rohingya Ro Footnotes: ⁵Clobal WASH Cluster standard: collecting and disposing of children's faeces in a latrine (rinsed and non-rinsed) is considered safe.



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-III Indicator Comparison Table: Baseline (April 2018) & Follow-up (August - October 2018) Assessments

	2	onitorir	Monitoring frameworks	works		REACH WASH	REACH WASH Household Data
Indicators	Cox's Bazar WASH Sector	Global WASH Cluster	Rohingya Response Joint Response Plan	SDG Joint Monitoring Program	SPHERE Indicators	Baseline	Monsoon Follow-up
The Hygiene							
$\%$ of households in which respondent can identify at least 3 of the critical hand washing times 6		>	>		>	Ţ	51%
% of households reporting possession of soap or rubbing agent or having received soap as part of a distribution	>	>	>			60%	68%
% of households reporting problems with accessing soap						53%	10%
% of households reporting problems with accessing bathing facilities		>				ı	21%
% of households reporting being satisfied or very satisfied with access to bathing facilities					>	35%	86%
% of households having received a WASH hygiene kit and/or top-up kit and/or a voucher ⁷	>		>			ı	88%
% of households having recently participated in at least one hygiene training or demonstration						71%	65%
% of targeted women, men, boys and girls who are satisfied or very satisfied with the hygiene related information shared			>				97%
							Colour keyr. Green = positive drarge from baseline Orage = in ordrage from baseline Red = negative change from baseline Grey = not assessed in baseline

Footnotes: *Global WASH Cluster standard: the six critical times when someone should wash their hands are (1) before cooking. (2) after defection. (4) before breastfeeding. (5) before freeding. (5) before freeding children, and (6) after handling a childr s stool/changing a nappy/deaning a childr s bottom. *Global WASH Cluster standard: the six critical times when someone should wash their hands are (1) before eating. (2) after defection. (4) before breastfeeding. (5) before freeding. (5) before freeding children, and (6) after handling a childr s stool/changing a nappy/deaning a childr s bottom. *Respondents were asked when they last received (1) a hygiene kit containing non-consumables (i.e. scap). No questions in relation to vocchers were asked. Refer to page 6 of factsheet for more information.

See monitoring frameworks at the following links: Cox's Bazar WASH Sector: https://bit/W2ZCBRC1 Rohingya Response Plan 2019; https://bit/W2K/IZ

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