

## WASH Site Profile - Round 9

Ukhia / Teknaf, Cox's Bazar, Bangladesh (October 2018)



#### ... Overview

Supported by UNICEF and in collaboration with the WASH sector, REACH conducts a monthly mapping exercise of infrastructure across 33 collective sites hosting Rohingya refugees. The objectives of the exercise are:

- i) To monitor the functionality and safety of key WASH infrastructure, and track progress against key WASH sector standards.
- ii) To provide humanitarian actors with an up-to-date catalogue of key camp infrastructure.

# Coverage Map Ukhia **MYANMAR** Teknaf Bav Bengal Assessed camps **Unassessed camps** ıKms 2.5 5

#### Methodology

Each month, REACH enumerators conduct a census of infrastructure within each camp. To achieve this, camps are broken up into 100x100 metre grids, with each grid square assigned to a pair of enumerators. Enumerators conduct a series of transect walks through the grid square, navigating using camp maps developed by OpenStreetMap (OSM) and loaded onto smartphones with the Maps.Me application. Along each transect, they use Kobo to collect GPS data, photographs, and other relevant information for all infrastructure they encounter. Wherever possible, the same pair of enumerators covers the same grid square with each successive round of mapping. This allows them to become more familiar with their surroundings and improve the consistency of the process.

After each day of data collection, data is uploaded to the REACH Kobo server, downloaded, and cleaned. First, REACH GIS officers check data for completeness of assessment coverage. This involves visual checks of the distribution of GPS points within each grid square against satellite imagery and previous rounds of infrastructure mapping, along with debriefing of enumerator team leaders. Any grid squares deemed to have incomplete coverage are discarded and reassessed the following day. Subsequently, REACH data officers check data for GPS point precision and use photos to correct any mis-classification of infrastructure type or implementing partners. All changes to the database are recorded in a data cleaning log.

Once data are cleaned, the raw dataset is cross-checked once more and validated by technical staff in REACH's Geneva headquarters before being published online. Subsequently, REACH GIS staff conduct analysis of WASH infrastructure data against WASH sector standards. Data analysis is again validated at HQ level before the publication of factsheets and summary datasets.

#### **Example 2** Limitations

While every attempt is made to ensure that all infrastructure is covered in the mapping process, the large scale and irregular layout of the camps means that gaps in the dataset are inevitable. REACH's infrastructure catalogue is therefore intended to serve as a temporary stop-gap until sectors and implementing partners have the capacity to maintain accurate datasets of their own. As the capacity to develop these datasets increases, REACH will begin to incorporate such information into its infrastructure catalogue.

### Products

In addition to this overview, the products from each round of infrastructure mapping are as follows:

- Summary dataset, including trend analysis
- 33 camp-level factsheets containing an analysis of WASH sector indicators and maps of water and sanitation infrastructure functionality
- 33 camp-level reference maps showing latrine functionality
- 33 camp-level reference maps showing water point functionality

All REACH products are available on the <u>REACH Resource 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>. info.

To provide feedback on REACH products or subscribe to REACH's mailing lists, please contact <a href="mailto:bangladesh@reach-initiative.org">bangladesh@reach-initiative.org</a>.