

Cox's Bazar Bangladesh: Rohingya Refugee Crises

Upgrade Shelter Kit (USK) Technical Guidance

Version 2.0 - 16 December 2017



Shelter / NFI Sector

V2 – 16 December 2017

Introduction

In the initial stages of an unfolding crises involving mass displacement of populations, access to adequate shelter can be a critical determinant for survival. Shelter is essential to provide security and personal safety, protection from the climate and enhanced resistance to disease and ill health. With a rapid displacement of large numbers of people, it is important to provide shelter solutions as quickly as possible. Rather than waiting for the provision of tents or other such temporary shelter solutions, relief items such as plastic sheeting, rope, basic tools and fixings can provide the basis for a simple shelter or can be used to repair or upgrade damaged shelters.

The Shelter/NFI Sector has carried out comprehensive distributions of acute emergency shelter kits (primarily tarpaulins and rope) and the refugees have constructed their own shelter with these materials and using materials either gathered or procured on the local market. The standard of shelters for the new influx is very basic and it is now important for the shelter sector to mobilise phase 2 operations with an objective of improving shelter standards and living conditions. This is an incremental approach with limited land available for the average HH to expand so, the kit is designed accordingly. Further upgrades and more comprehensive shelter interventions may follow according to the context.

The **Upgrade Shelter Kit (USK)** is designed to provide the materials and tools to carry out simple shelter upgrades and it is imperative that these kits are accompanied with **technical assistance, training and IEC materials** to ensure genuine positive impact on shelter standards and living conditions.

Considerations

Security – Some of the items within these kits may need consideration to **safety, security and mitigation to potential violence within displaced families and communities**. Always consider the distribution of items and consult with communities and authorities before planning and undertaking distributions.

Suggested Packages – The USKKs are generic in details and specifications. As the usage for the kit will be based on countless situations and context to meet emergency shelter, privacy and dignity needs of families and communities, the contents detailed are suggested only. **Technical advice should be sought when required to adapt / add or change suggested kit.**

Cash Based or Local Market Responses – As the provision to give out unconditional or conditional cash grants maybe considered for emergency shelter needs, indicative costs envelopes are detailed. Market surveys should be undertaken before considering cash responses. All items detailed could be replaced with similar items or more suitable emergency shelter items based on specific needs, locations and solutions.

Orientation to families and communities on usage of Kit – Families and communities should receive guidance on the safe and appropriate usage / intention for the Kit distributed. Technical assistance, training and provision of appropriate IEC materials is an absolute necessity.

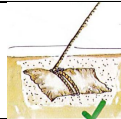
Other Sectors – It is likely that other sectors such as WASH and Site Management will also be distributing tools for improvement works and the tool kits in particular have been designed to take this into account. This is one of the reasons that tools are not being distributed at the HH level but rather as a kit for up to 5 HHs.

Targeting of Materials/Tool Kits – The materials are targeted at the household level; the **5 Household** tool kit is designed to be shared and used by every 5 households; the **100 Household** (community/Maji) kit is designed for a neighbourhood (block) of 100 households.

Note: all values stated in United States Dollars (USD) and / or BD Taka.

NOTE – ALL DIMENSIONS AND SPECIFICATIONS ARE TO BE CONSIDERED IN THE CONTEXT OF AVAILABILITY AND ABILITY TO RESPOND TO EMERGENCY NEEDS. ITEMS SHOULD BE FIT FOR PURPOSE BUT MAY CHANGE BASED ON NEED, CONTEXT AND AVAILABILITY. OPTIONAL ITEMS ARE ENCOURAGED TO SUIT SPECIFIC NEEDS.

UPGRADE SHELTER KIT (USK)								
#	Item description	Unit	No.	Unit cost/BDT	Cost/BDT	Specification description	Picture	Note
TARPAULIN PURPOSE – To provide water, wind, sand protection / coverage. Also to provide privacy and dignity.								
1	Tarpaulin (4m x 5m, 4m x 6m shelter grade)	piece	2	1,250	2,500	UNHCR approved standards OR SIMILAR specifications as below: Tarpaulin Size: the finished size of each sheet is 4 x 5 meters or 4m x 6m +/- 1 %. Color: preferably white or blue/grey, sun reflective on both sides. Inner black fibers to ensure opacity. Red Cross Specs: http://itemscatalogue.redcross.int/upload/products_data/files/HSJETARP.pdf UNHCR Specs: http://www.unhcr.org/53fc56bd9.pdf		Essential Item.
BAMBOO PURPOSE – To create/strengthen shelter framework.								
2	Bamboo (Borak)	piece	4	260	1,040	- Min 25 feet long; - At least 8" (eight inch) perimeter measurement at 1/3 length from the toe of the Barak Bamboo. - No insect defect in the circumstances of the Barak Bamboo		Essential.
3	Bamboo (Mulli)	piece	60	40	2,400	- Min 20 feet long. - Circumference 2" nominal or 3" nominal. - Mix of sizes recommended		Essential.
	Timber	Ft	20	130	2,600	2" x 2" softwood timber; for framing.		Optional

ROPE, WIRE & OTHER FIXINGS PURPOSE – To fix the bamboo and tarpaulin frames together as well as secure structures to the ground.								
#	Item description	Unit	No.	Unit cost/BDT	Cost/BDT	Specification description	Picture	Note
4	Rope	Kg	1	250	250	Polypropylene or similar, diameter. 6 mm diameter , length: approx. 25m, in a roll, preferred colour: black/blue/dark green. Woven with 2 or 3 strands, with the possibility of being unravelled.		Essential
5	Rope	Kg	1	250	250	Polypropylene or similar, diameter. 3 mm diameter , length: approx. 30m, in a roll, preferred colour: black/blue/dark green. Woven with 2 or 3 strands, with the possibility of being unravelled. OR Approx. 30m of polypropylene plastic box strapping; 6 – 12mm wide.	 	Essential
6	Wire	Kg	0.5	90	45	low carbon steel, hot dip galvanised tie wire 18 or 19 gauge (1 – 1.2mm)		Essential
	Round Wire Nails	Kg	0.25	200	50	Steel, length: 3inch, diameter 3 mm, supplied in a sealed bag.		Optional
	Padlock & Chain	Ea.	1	250	250	Small durable padlock with 2 keys and cast iron chain (min. 2 feet).		Optional
SAND BAGS – To anchor ropes into the ground or for other site improvement works.								
7	Sand Bags	piece	20	15	300	Sand bag; woven plastic (ex. Cement bag)	 	Essential

*Sand bag anchors could be replaced with red clay bricks or reinforcement bar

SHELTER UPGRADE MATERIALS: COST ENVELOPE FOR ESSENTIAL ITEMS
BDT 6,000 – 7,200 (APPROX. USD 75 – 90)

UPGRADE SHELTER KIT (USK) – Tools for 5 Households(1 kit per 5 HHs)

TOOLS PURPOSE – To fix the frames and tarpaulins; excavation and site improvements

#	Item description	Unit	No.	Unit cost/BDT	Cost/BDT	Specification description	Picture	Note
1	Claw Hammer	piece	2	180	360	Weight: 16oz. (450g) Wooden handle, replaceable. Head in forged steel/high carbon steel. Good quality.		Essential
2	Handsaw	piece	2	180	360	SAW, All-Purpose , 400-450mm blade, for wood, good quality, teeth from tempered and hardened steel. Unbreakable handle. Saw blade covered in protective cardboard.		Essential
3	Bamboo Baskets	piece	5	95	475	- Woven bamboo baskets; - traditional “Jهوري”; 48 cm dia		Essential
4	Steel Pan	piece	5	350	1,750	- Steel pan with handles; “Korai” - Made from 16 gauge mild steel; 46cm diameter		Essential
6	Hoe	piece	2	270	540	Hot forged carbon steel, hardened and tempered, at a maximum the hardened zone should reach halfway up the back of the blade; with wooden handle		Essential
7	Digging bar	piece	1	550	550	Bars are typically 5 to 6 ft (1.5 to 1.8 m) long and weigh 15 to 23 lb (6.8 to 10.4 kg). They are usually made entirely of cylindrical or hexagonal forged steel with a diameter of approximately 1 in (2.5 cm). Chisel and wedge ends typically have a blade width measuring 1 to 3 in (3 to 8 cm). Blunt ends typically have a diameter of 2 to 3 in (5 to 8 cm). Known locally as “shovel”.		Essential

[illegible]

NEIGHBOURHOOD / BLOCKS – Community Tools								
Note. It estimated that each (Maji) Block contains approximately 100 HHs								
TOOLS PURPOSE – Site Upgrades; drainage; general improvements.								
#	Item description	Unit	No.	Unit cost/BDT	Cost/BDT	Specification description	Picture	Notes
1	Wheelbarrow	piece	1	2,500	2,500	Wheelbarrow, approx. 90L dry solids, strong solid wheel		Optional for Neighbourhood/ Block Kit
2	Shovel	piece	2	220	440	Shovel head with sharpened tip in forged steel which is tempered and hardened. Supplied with a handle. Total length: 100 to 110 cm.		Optional for Neighbourhood/ Block Kit
3	Hoe	piece	5	270	1,350	Hot forged carbon steel, hardened and tempered, at a maximum the hardened zone should reach halfway up the back of the blade; with wooden handle		Optional for Neighbourhood/ Block Kit
4	Ladder	piece	1	1,000	1,000	Bamboo ladder; 12 foot high.		Optional for Neighbourhood/ Block Kit
5	Sand bags	piece	200	15	3,000	Sand bag; woven plastic (ex. Cement bag)		Optional for Neighbourhood/ Block Kit
6	Bamboo Baskets	piece	5	95	475	- Woven bamboo baskets; - traditional “Jhourī”; 48 cm dia		Optional for Neighbourhood/ Block Kit
7	Steel Pan	piece	5	350	1,750	- Steel pan with handles; “Korai” - Made from 16 gauge mild steel; 46cm diameter		Optional for Neighbourhood/ Block Kit

COMMUNITY TOOL KIT: COST ENVELOPE
10,400 BDT – 12,000 BDT (USD 130 – 150)