

Guidance note on Shelter and NFIs kits response for NW Syria

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INTRODUCTION

The following document has been prepared by the Shelter/NFI Technical Working Group to provide guidance to cluster partners on Shelter and NFI **lifesaving** activities for the Syrian Response.

Non-food items (NFIs) and shelter items are an essential part of humanitarian assistance programmes. In this guidance note, an effort has been made to clearly differentiate shelter from NFI items. While NFIs are intended to support people in need with household items to sustain family life, shelter items are provided to restore and upgrade living conditions and support community life. Together they aim to create an inhabitable space where privacy, security, dignity and protection are ensured.

SHELTER AND NFIs STANDARDIZED KITS

In order to increase flexibility and rapidity in response and better utilize resources, items have been grouped in standardized “modules”. Each module forms a distinct unit that can be used independently or with other modules to construct a more complex response. Each module consists of the **minimum recommended items, more materials or items can be added to the minimum required items after need is identified**.

The 6 Modules’ content are described in details in the guidance note.

The family size taken into consideration is 6 members (as identified by the TWIG members).

Name	Scope	When	What	Sector
MODULE 1 - Emergency shelter kit, Minimum content	1. emergency shelter option for people with no shelter at all 2. 'Sealing' of existing substandard structures, especially in winter 3. Tents repair	To answer acute shelter needs - either first phase response to displacement, or in response to prolonged sub-standard shelter situation or additional winter needs, where no other options are available emergency displacement	Construction items.	SHELTER
MODULE 2 - Emergency shelter kit, Additional items	Longer term IDPs or in specific context to improve existing structures	As above, preferably after needs assessment	Construction items.	SHELTER
MODULE 3 – New arrival kit	Newly displaced IDP who have not been able to carry NFIs with them	Anytime there is a new displacement	NFI essential items	NFI
MODULE 4 - Kitchen kit	Newly displaced IDP who have not been able to carry NFIs with them	Anytime there is a new displacement, or whenever needs assessment shows need	Kitchen items	NFI
MODULE 5 – Stoves and fuel	Increase thermal comfort during winter months	At the beginning of winter (November)	Fuel and Stoves (assuming new arrival kit has been distributed)	NFI
MODULE 6 – Winter Clothing	Increase thermal comfort during winter months	At the beginning of winter (November)	Winter clothes: (Jackets, Boots, and one more item)	NFI
MODULE 7 – Winter NFI Kit	Increase thermal comfort during winter months	At the beginning of winter (November)	Winterized essential NFI items	NFI

All interventions should be based on needs assessments and blanket distributions¹ should be avoided.

These factors have been taken into account when planning the content of the kits and the response strategy: Value for money, Rapidity of response, Weight, Cultural appropriateness, Flexibility, Length of use, Reusability, Environmentally friendly, possibility to purchase locally, Safety.

¹ Not targeted distribution



MODULE 1 - EMERGENCY SHELTER KIT, MINIMUM CONTENT

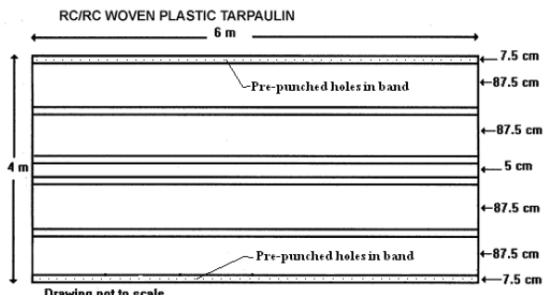
Scope

The emergency shelter kit will answer acute shelter needs - either first phase response to displacement, or in response to prolonged sub-standard shelter situation or additional winter needs, where no other options are available. The kit is made of materials and items which enables a more flexible use during the displacement period, the recovery phase, and in case of multiple displacements. This type of shelter is less costly than tents, is more flexible, and lighter, reducing costs and time for delivery. It can be re-utilized by the family in case there is a second displacement or to fix their homes once back to place of origin. Tents are the preferred option for "formal camps". Three uses are envisaged:

1. Emergency shelter option for people with no shelter at all, mostly in rural areas
2. Tents repair
3. 'Sealing' of existing substandard structures, especially in winter

Kits Content

- Assumption is made that targeted beneficiaries will be able to source some additional construction material (timber, blocks) in surrounding environment.
- Technical specifications are based on IFRC standards ://procurement.ifrc.org/catalogue/
- Quality control based on IFRC shelter kit guidelines
- Prices are estimated and based on Turkey prices. Market assessment and monitoring will be needed to define markets capacity and prices in Syria.

MODULE 1 - Emergency shelter kit, Minimum content						Total price ~75.5 USD	Total weight 22.75 kg	
No	Item	Size	QTY	Usage	Technical Specifications	Quality Control	Price	Comment
1	Plastic sheeting	4 x 6m	3	Used for waterproofing roofs, or to cover damaged structure and upgrade tents.	Material : Woven high-density polyethylene (HDPE) black fibres fabric laminated on both sides with low density polyethylene (LDPE) coating, Reinforcement: reinforced rims by heat sealing on all sides. Resistance: -20C to 80C Eyelets: Provided with aluminium eyelets or equivalent on four sheet sides of the single sheets at 100 cm +/-5cm centre to centre, providing very strong fixation points. Weight: 200g/m² ±5%, total: 4800g ±5%, Colour: White sun reflective on both sides, grey bands. Inner black fibres with good opacity. 	• Open it and Check that the sheet is white or specified colour without fluctuation in colour. • Measure the weight, min 4,560kg – max 5,040kg. • Measure the width and length of the sheet. • Measure the width at three locations. The width should be between 3.96 and 4.04m. • Scratch the white coating of the sheet with the cutter, and check that the yarns are black in both the warp and the weft directions. Light grey is not acceptable.	3 x \$14.2 = \$42.6	 • Expected life span 2 years. • Ensure well tiredness to avoid flapping and damaging cause of the wind. • Additional resources: http://www.plastic-sheeting.org/



2	Rope	30 m	1	Used to Bind timbers together, stabilise structures or fix tarpaulin in place.	Diameter: 5mm min Length: 30m min, preferably 50m Material: Polypropylene (twisted) or nylon (braided), no recycled fibres, Colour: blue or black (black preferred as it resists UV better) Tensile strength: 300 kg. Weight: 0.6 kg.	• Weigh it without packaging. Should be within the expected weight. • Measure the length and thickness of the rope. • Check that colour as specified without fluctuation. • Check that there aren't any loose threads.	\$3.21	
3	Duct Tape	50 m	1 roll	Used with Plastic Sheeting to seal windows and doors from air.	Width: min 48mm width, Length: min 50m. Material: polyethylene over cloth scrim, water-resistant.	• Measure length and width. • Check adhesion of the rubber. • Check that Cloth scrim tears straight in both directions. • Check that it can be easily applied to irregular surfaces.	\$4	
4	Roof Nails + Washer	70 mm	1/2 kg	Used to fix tarpaulins to timber, and for Fixing corrugated iron sheet. Washer prevents rain seep through holes.	Material: Galvanized metal Shape: Spiral rolled or twisted shank, umbrella-type head (better if with washer) Dimension: Shank: min 70mm x 3.4mm; head diameter: min 22mm. Washer: watertight rubber, Diameter thickness min 2mm.	• Measure length and width. • Check that there is no rust. • Measure the weight.	\$1	
5	Large Nails	75 mm	1 kg	Used to stabilise structures or fix tarpaulin and plastic sheeting in place.	Type: Iron, made of carbon steel, cold processed, not heat treated except for galvanisation. Dimension: minimum length x diameter: 75 x 3.6mm, head diameter: 7.7mm. Rustproof: Hot dip galvanised	• Measure length and width. • Check that there is no rust. • Measure the weight.	\$1	
6	Small Nails	40 mm	1/2 kg	Used to stabilise structures or fix tarpaulin and plastic sheeting in place.	Type: Iron nails, made of carbon steel, cold processed, not heat treated except for galvanisation. Dimension: length x diameter: 40 x 2.2mm, head diameter: 5.5mm Rustproof: Hot dip galvanised	• Measure length and width. • Check that there is no rust. • Measure the weight.	\$0.5	
7	Pliers	10.3 x 0.8 x 2.8 inches	1	Used for twisting and cutting wires.	Type: Heavy duty Hot forged carbon steel, side cutting pliers known as linemen pliers or side cutter; having gripping jaws, a cutting edge and insulating handle. Corrosion Protection: special paint.	• Measure length and width • Check that there is no rust	\$9.69	



8	Claw Hammer	750 g	1	Used to drive and remove nails, and for working with other tools to make joints.	Type: carpenters hammer with steel head and dry wooden handle. The hammer head has one flat side and one claw side. Handle: free from chips, rough surfaces, holes or knots. Dry, strong, and flexible wood.	• Measure length and width • Check that there is no rust • Head: Smooth surface and edges, no excess metal in the eye. • Handle: Check that there are no chips, rough surfaces, holes or knots. Dry, strong, and flexible wood. • Apply a minimum traction of 50kg trying to pull the handle out. This should not damage the hammer head or the handle, and the handle should remain firmly attached to the head.	\$3.63	
9	Shovel		1	Used to prepare the foundation of a shelter and dig trenches around the shelter if it is raining.	Type: Round point with Y handle. Materials: head, pressed carbon steel; handle, dry wood Handle Length: Min 1m. Head dimensions: min 295 x 225 mm Corrosion Protection: Black paint. Handle: No chips, rough surfaces, holes or knots. Smooth, polished, varnished, surface. Dry, strong and flexible wood. Weight: 1kg ±50g, without handle.	• Measure length and width • Check that there is no rust • Using a fitted, standard hardwood handle, clamp the blade of the shovel near the handle in a horizontal position. Gradually apply a load of 45kg and maintain it for 2 minutes. This should not result in any damage to the blade or a loosening of the handle, and no permanent set in excess of 25mm. • With one centimetre of the end of the blade secured in a clamp, move the handle back and forth 30 degrees. There should be no permanent set greater than 25mm. • With the shovel held in a digging position, a piece of wood, 37mm in diameter, is hit hard against it. The blade should not buckle or break.	\$5.03	
10	Handsaw	0,3 kg	1	Used to cut wood to required size.	Type: min 400-450mm blade, lacquered. Length: min 550mm ±50mm Blade thickness: 1mm ±0.5mm, protected against corrosion, with 7 teeth per inch. Handle: Wooden dismountable handle, minimum 3 fixations, polished varnish hardwood, large 85x35mm opening for hand comfort when wearing gloves With blade protection.	• Measure length and width • Check that there is no rust • With the blade inserted into a 10mm wide slot to a depth equal to 1/3 the blade's length, but not exceeding 150mm, a deflection of 90° is applied 25 times in each direction without breakage or permanent set to the blade.	\$4.97	
11	Woven Sack	1300 x 400mm	1	Used to pack and transport shelter kit items.	Material: New, woven polypropylene (PP), 80g/m² minimum, both sides coated with PE or PP Dimension: min 1300 x 400mm ±10mm Colour: White.	• Measure length and width • Check that the fabric is intact and there are no holes	\$0.2	

**MODULE 2 - EMERGENCY SHELTER KIT, ADDITIONAL ITEMS****Scope**

To be used in conjunction with items in MODULE 1.

The kit addresses the needs of longer term IDPs or needs in specific context to improve existing structures. To be distributed preferably after needs assessment.

Kits Content

- Assumption is made that targeted beneficiaries will be able to source some additional construction material (timber, blocks) in surrounding environment.
- Technical specifications are based on IFRC standards ://procurement.ifrc.org/catalogue/
- Quality control based on IFRC shelter kit guidelines
- Prices are estimated and based on Turkey prices. Market assessment and monitoring will be needed to define markets capacity and prices in Syria.

MODULE 2 - Emergency shelter kit, Additional items					Total price 54 USD		Total weight 52.9kg	
No	Item	Size	QTY	Usage	Technical Specifications	Quality Control	Price	Comment
1	See Through Plastic Film	6 x 4m	1	Used to cover windows or any opening.	Material: Translucent plastic Thickness: Minimum 0.150 mm/0.200mm Fabric: Basic: Polyethylene film non-reinforced. Preferred: LDPE reinforced with polyester or Polypropylene or polyethylene mesh. UV resistant. Temperature resistance: -20 to 80C.	• Measure the width and length of the sheet. 4 X6 m.	\$14.3	
2	Wood	5 X 10 X 200cm	6	Used to structure a basic shelter, stabilise tarpaulin on the roof, fix plastic sheet in place, door and window frame	Type: Solid Softwood, Pressure-treated pine or similar. Other: Dried naturally or in the kilns, strong, polished and flexible wood. Free from chips, rough surfaces, holes or knots or other defects. Treated against insects and termite in particular. Treated against mould. Texture: Smooth, Paintable, lumber and pressure treated	• Measure length and width. • Check if wood is seasoned (odour can be an indicator) • Check for chips, rough surfaces, holes or knots or defects. • Require certifications from vendor. • Check its dryness, mould or any fungal.	6X\$3.8 = \$23.34	This item can be replaced by L shaped metal profiles with eyelets 
3	Padlock	40mm	1	Used to lock doors or windows to ensure security and privacy.	Brass Option, 2 Keys Per Padlock, Available Keyed Alike, Shackle Individually Boxed Size: Medium. Material: Solid Extruded Brass Body Precision Mechanism, Hardened Steel Shackle, Chrome Plated Shackle Dimension: min 40 mm body	• Try the two available keys, if it works. • Try the strength of the lock by locking it and unlocking it by hand. • Measure dimensions. • Check that there is no rust.	\$3	
4	Padlock Hinges (Hasps)	30x 150mm	1	Used along with the Padlock to lock doors or windows to ensure security and privacy.	Designed for doors, chests and lockers Materials: Stainless steel for superior corrosion resistance, Heavy duty for added security Shape: Mounting screws included	• Measure the weight. • Check that there is no rust.	\$5	



5	Screws,	40 mm	1kg	Use for wood works and install the hinges.	Dimension: min 40mm Materials: Stainless steel.	• Measure length. • Check that there is no rust. • Measure the weight.	\$2	
6	Tie Wire	10m or 2 kg	1	Used to bind timber or bamboo, or for fixing tarpaulins. It can also be used for reinforcing structures and for diagonal bracing.	Material: Low carbon steel, galvanised. Metal wire Dimension: Diameter 1.5mm ±5% Tensile strength: Minimum 500 N/mm ² to Maximum 700N/mm ²	• Measure the width and length • Check that there is no rust	\$3.93	
7	Hessian Sacks	50x 75cm	5	Filled with soil for reinforce sides of emergency shelter.	Dimension: 50cm x 75cm Materials: Crafted from durable hessia	• Stretch it to measure durability and well crafted	5X\$.5 = \$2.5	



MODULE 3 - NEW ARRIVAL KIT

Scope

The kit addresses the needs of newly displaced IDPs who have not been able to carry NFI items with them. It comprises of essential NFI items. In case of new displacement, it does not need to be preceded by a needs assessment.

Kits Content

- Prices are estimated and based on Turkey prices. Market assessment and monitoring will be needed to define markets capacity and prices in Syria.

MODULE 3 - New arrival kit						Total price	165~170 USD	Total weight	44.95 kg
No	Item	Size	QTY	Usage	Technical Specifications	Quality Control		Price	Comment
1	Plastic sheeting	4 x 6m	2	Used for waterproofin g roofs, or to cover damaged structures and upgrade tents.	Material: Woven high-density polyethylene (HDPE) black fibres fabric laminated on both sides with low density polyethylene (LDPE) coating, Reinforcement: reinforced rims by heat sealing on all sides. Resistance: -20C to 80C. Eyelets: Provided with aluminium eyelets or equivalent on four sheet sides of the single sheets at 100 cm +/-5cm centre to centre, providing very strong fixation points. Weight: 200g/m² ±5%, total: 4800g ±5%. Colour: White sun reflective on both sides, grey bands. Inner black fibres with good opacity.	• Open it and Check that the sheet is white or specified colour without fluctuation in colour. • Measure the weight, min 4,560g – max 5,040g. • Measure the width and length of the sheet. • Measure the width at three locations. The width should be between 3.96 and 4.04m. • Scratch the white coating of the sheet with the cutter, and check that the yarns are black in both the warp and the weft directions. Light grey is not acceptable.		2X \$14.2 = \$28.4	
2	Jerry can	10 lt	2	Carry and store drinking water.	Type: complete with screw cap and moulded carry handle of minimum 9 cm long. The inner diameter of cap minimum 30 mm. Drop test: can withstand drop of 2.5 meters when full of capacity. Material: Non-collapsible POLYETHYLENE plastic. Tough flexible, food grade, low density polyethylene (LDPE), UV stabilized. With no sharp edges. Size: 10 Lt Weight: 455 grams minimum. Colour: Light colour (yellow, white).	• Measure the weight • Measure length of handle and diameter of screw cap • Check for sharp edges and heat sealing quality • Drop test: fill the jerry can with water and drop from 2.5 m height. To be accepted, the jerry can must resist to minimum 3 drops.		2X\$2= \$4	



3	Solar Lamps	N/A	1	A source of light in the night and for protection and security aspects	Weather proof and shockproof solar lamp with LEDs, and battery, all in one robust case. Plastic ABS / Transparent PC. Solar panel: 6V, 0.7W. LED power: 4 LED 2W or 6 LED 3W. Battery: 4V or 6V, capacity should maintain minimum of 5 hours capacity after 3 years at full power. Rechargeable and replaceable battery, NiMH. RoHS-compliant Charge time: Based on direct sunlight for 8 hours, the product has to work minimum 8 hours on full power, minimum 12 hours on half power. Match with AC charge (AC100-240V). Light output: Minimum 4.Lux output on full power measured on the floor, from 2.20m height. The testing has to be done at start, and at 3.5 hours after turning on the product Operating functions: 3 functions (Off, Half power and Full power) Fixation/Hanging: Multiple options to hang, to fix or to secure the lamps. Built in anti-theft design preferred. Warranty/Life span: Warranty: 1 year from purchase, Life Span: Min. 3 years from the time of distribution (min. 1000 charging cycles) Packaging/visibility: Text on box shall be in Arabic and English. Other: With USB port + preferred phone charger function. Including instructions manual in Arabic.	Light output: Minimum 4.Lux output on full power measured on the floor, from 2.20m height. The testing has to be done at start, and at 3.5 hours after turning on the product Charge time: Based on direct sunlight for 8 hours, the product has to work minimum 8 hours on full power, minimum 12 hours on half power. Match with AC charge (AC100-240V).	\$14.5 - \$20	
4	Mattresses / Sleeping mats	Single 1.8 x 0.9 x 0.1 m	5 single	Bedding	Material: polyurethane closed cell hard grey foam, 100% synthetic yarns from virgin or recycle raw material. Synthetic sleeping mats that are made from recycle materials must not contain fillers, like calcium carbonate or any other. Dimension: 1.8 x 0.9 x 0.1 m, Area 1.62 m² Density: Minimum 24 kg/m³ (±2%) Weight: Min 3.56Kg. Load deflection: min 16kg Cover: removable cover with zipper cotton or polyester/cotton canvas of 180g/m² minimum. Size: 90 x 180 x 10 cm	• Measure the weight. • Measure the width, length and thickness. • Check that material is uniform • Check the cover measures • Check the cover zip, it should be easy to zip and unzip.	5 X \$14.2 = \$71	
5	Blankets (for distribute in winter)	Single: 150 x 200cm; double: 200 x 200 cm	4single and 1 double (high thermal, winter)	Bedding	Material: min. 60% acrylic and 40% cotton/ polyester mixture Thickness: 5-5.5 mm minimum Colour: no black, red, or white. Assorted dark colours. Shrinkage: Maximum 5% after 3 consecutive machine washing at 30°C and one flat drying. Dimension Single Dimension: 150 x 200cm ±3%, Weight: min 835 g/m². Min 2.5 kg. ± 3% Dimension Double	• Measure the weight. • Measure the width, length and thickness. • Check that material is uniform and free of defects.	4X \$6= \$24 + 1X \$7.2= 7.2 =	



					Dimension: 200 x 200cm ±3%, Weight: min 700 g/m2. Min 2.8 kg ± 3% Other Spec: No bad smell, not irritating to the skin, no dust. 4<pH<9, fire resistant. Fit for human use. Free from harmful VOC (Volatile Organic Components). Fire resistance to cigarette - No ignition. Bias fabric and Stitch yarns should be 100% polyester Label: Brand name and “Battaniye بطانية” stated on the label Packaging: Individually packed in plastic bag (transparent)		\$31.2	
6	Hasira in summer and carpet in winter (please refer to the MODULE 7 - WINTER KIT)	12 sqm: 1x(4x3) or 2x(2x3)	12 sqm	Used to isolate the floor, prevent rising damp and as a clean area for cooking, eating and gathering.	Materials: Warp: Pure virgin polypropylene (PP) multifilament 500 deniers minimum; Weft: Recycled polypropylene (PP) hollow tubes not containing any filler. Clean and net appearance. Finish: The two short sides to be secured with a first stitch folded hem of the mat, plus one bias 40mm binding tape of minimum 10g/m with stitches through the fabric of the mat, OR with a double folded stitched hem. Four sides trim finished. Size: 12 sqm minimum Weight: 500g/m² minimum, 6kg total. Colour: assorted, with neutral design.	• Measure the weight. • Measure the width, length and thickness. • Check that material is uniform and free of defects	2X \$7.5 = \$15	

MODULE 4 - KITCHEN KIT

Scope

The kit addresses the needs of newly displaced IDPs who have not been able to carry NFI items with them. It comprises of essential cooking and serving utensils for a family of 6. In case of new displacement, it does not need to be preceded by a needs assessment.

Kits Content

- Prices are estimated and based on Turkey prices. Market assessment and monitoring will be needed to define markets capacity and prices in Syria.
- Technical specifications are based on IFRC standards ://procurement.ifrc.org/catalogue/

MODULE 4 - Kitchen kit					Total price 25.2 USD	Total weight approx. 5 Kg	
No	Item	Size	QTY	Usage	Technical Specifications	Price	Comment
1	Cooking Pot	5 liter capacity	1	Cookware	Material: stainless steel Thickness: min. 0.8mm	\$3.5	
2	Cooking Pot	7liter capacity	1	Cookware	Material: stainless steel Thickness: min. 0.8mm	\$4.5	
3	Frying Pan	2.5 liter capacity	1	Cookware	Material: stainless steel Thickness: min. 0.8mm	\$4	
4	Kitchen Knife	15cm	1	Cookware	Material: stainless steel with wood or plastic handle	\$0.2	
5	Ladle	100ml, 30 cm	1	Cookware	Material: stainless steel Thickness: min 1mm, in the center of the scope Finish: no sharp edges	\$0.2	
6	Stirring spoon	35ml, 30 cm	1	serving	Material: wood	\$0.2	
7	Scouring Pad		1	Cleaning and Scouring pots	Type: High level of liquid absorption, rinse and clean easily. Material: reinforced cellulose fibers, for long life. Tear resistant: cannot be torn by hand. Size: minimum 50 x 100 x 150mm	\$0.1	
8	Bowl for Food	1 liter capacity	6	serving	Material: stainless steel Thickness: min. 0.5mm Finish: no sharp edges	\$2	
9	Plate (deep)	Diameter 22cm	6	serving	Material: stainless steel Thickness: min. 0.5mm Finish: no sharp edges	\$2	
10	Cup	300 ml	6	serving	Material: stainless steel Thickness: min. 0.5mm Finish: no sharp edges	\$2	
11	Table Spoon	15 ml, 17 cm	6	Cutlery	Material: stainless steel, one piece Thickness: min 1mm in the center of the scoop Finish: no sharp edges, food grade surface finish	\$1.5	
12	Table Fork	17 cm	6	Cutlery	Material: stainless steel, one piece Thickness: min 1.5 mm at the back of the tines Finish: no sharp edges, food grade surface finish	\$1.5	optional
13	Table Knife	17 cm	6	Cutlery	Material: stainless steel, one piece Thickness: min 1.5mm at the middle of the handle and min 1mm at the middle of the blade Finish: no sharp edges, food grade surface finish	\$1.5	optional
14	Tea pot	1 lt	6	Cookware	Material: stainless steel	\$2	recommended
15	Packaging	- Proper thick carton box that can hold and contain the contents of the kitchen kit. The cartons have to be robust, improving stability, stack ability and keep their form under pressure. - Sealed in proper way with boxtape. - The tape should not be easy to remove. - The box should be plain, clear from any logos, trademarks or signs					

MODULE 5 – STOVES AND FUEL

Scope

Increasing thermal comfort of HHs during winter months is considered a lifesaving activity and as such a priority of the Cluster. Distribution of Stoves and fuel for heating and cooking is one of the recommended responses. Assumption is made that targeted HHs already received the MODULE 3 - new arrival kit, and/or have the core items in their possession. Whenever possible, distributions should be based on needs and target the most vulnerable HHs. Blanket distributions should be avoided.

Technical Working Group Limitations

Due to the fact that a very limited number of needs assessments and PDMs were available at the time of discussion, it was not possible to provide the Cluster with more than general recommendations. The recommendations listed in the guidance note will need to be complemented with more assessments and research by each organization.

When giving recommendations about fuel for heating it was difficult to identify the required quantity per each HH. This is because quantity needed highly depends on several factors like stove efficiency, room size, insulation materials, external temperature, and quality of fuel.

An illustrative table with quantities distributed by different partners in the past for both heating and cooking is attached as a reference, however each partner is encouraged to make their own estimation and calculations based on additional assessments.

Pricing

A price monitoring exercise will be necessary to identify the monetary value of the fuel and stoves response. Price monitoring assessment shall be undertaken in September, October, November and December as a minimum.

Recommendations for Stoves

- Whenever distributing stoves, it is preferred to distribute items that can be used for both heating and cooking, and whenever possible it should be possible to use different types of fuel with the same stove.
- Stoves have to be, as much as possible, fuel efficient.
- Consider distributing locally produced and/or procured stoves.
- Distribute stoves that can be used with fuels available in the area of distribution.
- Consider Safety and protection from the stove (avoid open flames, consider stability of the stove, distribute protection elements for floor, consider how to evacuate smoke and by-products, consider safety of children). This can be achieved, for example, by providing safety partition, strong solid bases and specific pipes for the smoke and fumes.
- When distributing stoves in tents make sure there is a specific outlet in the tent for the smoke pipes.
- Consider insulation off the shells shelter unit to reduce heat dispersion. Consider distribution of winterization kit for tents or sealing kits for permanent homes. (for example UNHCR winter kit for tents and Emergency shelter kit for other shelters)
- Whenever possible, market is responsive and quality is good, prefer cash response modalities.

Recommendations for fuel for heating and cooking

- Heating: Cover the needs for heating fuel for the months of December, January and February as minimum for lifesaving activities, with November and March to be covered based on needs assessment (consider average temperatures, altitude, geographical area, rural/urban setting, shelter type.....etc.)
- Cooking: According to Sphere Standards, fuel for cooking is considered as a lifesaving activity and should be distributed throughout the year.
- Consider type of fuel available and prices in the area of distribution.
- Consider distributing fuel in several rounds, to avoid storing big quantities of fuel for long time.
- Consider local produced and procured fuels.
- Consider logistics of distributing fuel (transportation and storage)
- Consider distribution of containers for storing liquid fuel (jerry cans, in different colour than for water, easy to pour to avoid spilling fuel).
- Whenever possible, market is responsive and quality is good, prefer cash response modalities.

Stoves illustrative table

Below is an illustrative table with different types of stove that fit the needs of the Syrian response. Some have been distributed by partners in the past, others are the result of researches. Each stove has some positives and negatives side. Each organization is encouraged to make their decisions according to the specificities of their projects.

The "Soba", is the most common heating stove in Syria and is considered one of the best option as it can be used for both cooking and heating thanks to additional metal grids, and can be used with different types of fuel.



Type	Photo	Estimated price	Fuel	Specification	Notes
Heating and cooking		\$35	Firewood, Charcoal and Olive Pit Biomass Can be adapted to burn diesel	• 66cm height/ 33 cm width. Metal galvanized. • Includes stovepipes, elbows and plate, • 3 x enamelled stovepipe, 66cm • 1 x Enamelled stovepipe, 33 cm • 2 x Enamelled stove 90 degree elbows • Metal plate L X W = 60 X 60 cm	PRO: multifunctional, smoke directed to outside, culturally accepted CONS: expensive, difficulties in storing and distributing.
Cooking		\$ 15	Gasoline	• Tank Capacity of Fuel: 2 Litre • Total weight: 5 Kg • The burning head: Good quality (Indian 240 Gr) • Thickness of Fuel tank: not less than 2 mm	PRO: cheap, culturally accepted, easy to manufacture, easy to carry and use. CONS: only for cooking, open flame, smoke is not directed outside
Heating		\$30 to\$ 50	kerosene	• Tank Capacity: 5 Litre • Fuel Consumption: 0.24-0.3 L/Hr • Continues Heating Duration: not less than 15 hour • Wick: Good quality and with spare one	PRO: cheap, carry and use, can be adapted to use for cooking, doesn't produce much smoke CONS: spare parts are not available in Syria,
Cooking		7 TL	Firewood	• Outdoor Wood Stove Portable Stainless Steel Lightweight Solidified for Outdoor Cooking. • Tiered Pot Support. • Unit Weight: no less than 2.5 kg. • Size: H 30 cm, R 35 cm ±3cm. • Thickness: no less than 1.5mm. Good fabricated, provided with 4 legs thickness for legs no less than 5mm, solid connections	PRO: cheap, available in the Turkish market, easy to carry and use. CONS: Not efficient, smoke is not directed outside
Cooking		15 TL	charcoal	• Outdoor Wood Stove Portable Stainless Steel Lightweight Solidified for Outdoor Cooking. • Tiered Pot Support. • Unit Weight: no less than 3.5 kg. • Size: H 30 cm, R 35 cm ±3cm. • Thickness: no less than 1.5mm. Good made, provided with 4 legs thickness for legs no less than 4mm, attached very good	PRO: cheap, available in the Turkish market, easy to carry and use. CONS :Not efficient, smoke is not directed outside, unstable

Additional possible options					
Cooking			Firewood, charcoal, Pomace	Local organic materials such as clay sand mica dung straw grass sawdust	PRO: cheap, can be produced locally, easy to carry and use. CONS: Smoke is not directed outside.
Cooking			Firewood	- The Berkeley-Darfur Stove - A tapered wind collar that increases fuel-efficiency in the windy Darfur environment and allows for multiple pot sizes. - Wooden handles for easy handling. - Metal tabs for accommodating flat plates for bread baking. - Feet for stability with optional stakes for additional stability. - Nonaligned air openings between the outer stove and inner fire box to accommodate windy conditions.	http://cookstoves.bl.gov/ethiopia.php PRO: cheap, easy to be produced, exhaust can be attached upon request, safe to use. CONS: Difficult to carry, needs bigger space.
Heating			Pellet		Potential Turkish suppliers can be found on internet
Heating			Pellet		Potential Turkish suppliers can be found on internet
Cooking			Biogas		http://www.build-a-biogas-plant.com/biogas-stove-design/

Additional Items and Accessories					
Venting Parts for the Heater		\$6.5 ~\$7.5	Depending on the type of the Stove;	Metal stovepipes enamel coated, elbows and plate, includes: 3 x Enameled heater pipe, 66cm 1 x Enameled heater pipe, 33 cm 2 x Enameled heater 90 degree elbows	
Other items		\$5 ~ \$6	Firewood, Charcoal, Olive Pit Biomass, and Diesel Stoves	Metal plate L X W = 60 X 60 cm Metal Tong: to collect and catch the woods and coal Stainless steel Length: not less than 30 cm Width: 3 cm Thickness: not less than 1.5 mm.	



Fuel Illustrative Table (Fuel for Heating)

Below is an illustrative table with different types of fuels and quantities that have been distributed by partners in the past. Each organization is encouraged to make their own assessment for estimation of needed quantities.

Type	Quantities for Heating per Family	Price	Sources	Notes
Firewood	12 kg/day	\$0.2-\$1.0/ kg	Syria	Hard to be stored in big quantity, protection issue Consumption: 1.2~1.5 Kg/hour
Coal	10 kg/day	\$0.3 -\$0.25 /kg	- Turkey, not allowed to be used in Turkey, exporting it is permitted - South Africa, second best quality. - Russia, best quality and most expensive. It can damage stoves	Charcoal is more recommended as it is more culturally accepted. Hard to be stored in big quantity, protection issue Consumption: 1.2 Kg/hour
Diesel	4 L/day	\$0.5-\$0.8/L	Syria	Hard to be stored in big quantity, safety issue Consumption: 0.75 L/hour
Kerosene	4 L/day	\$0.5-\$0.65/L		Hard to be stored in big quantity, safety issue Consumption: 1L/hour
Gaz	25L/ month	10.000 SYP or \$17 gas cylinder	Syria	
Pomace / Olive –Pit biomass	250 kg /month	148-150 USD per Metric Ton with the transportation cost to the beneficiary's house	Syria in Idleb and Afrin and in Turkey especially in Hatay	The price might be different from year to year depending on the olive production in Syria In Turkey: the pellet is more popular than olive-pit wood, however, it isn't suitable for Syrian culture, so it needs to be considered to provide appropriate type, in order to get the maximum benefit. Consumption: 2 Kg/hour



MODULE 6 – WINTER CLOTHING

Scope

Increasing thermal comfort of HHs through individual clothing kits during winter months is considered a lifesaving activity and as such a priority of the Cluster. Distribution of winter clothes is one of the recommended responses to address these needs.

During summer months, it is assumed that IDPs do take basic clothes with them even during an emergency evacuation, for this reason basic clothes distribution is not considered to be a priority in emergency response.

Whenever possible, distributions should be based on needs and target the most vulnerable HHs. Blank distributions should be avoided. When there is limited capacity and high need, targeting only children, the elderly, the disabled or ill are recommended as priority.

Kit content

The items identified, which serve as a minimum to guarantee survival of beneficiaries in winter are: Winter Jackets, Boots, socks, hats, gloves, scarves, Jumpers, trousers and long sleeve underwear (packaged in individual clothing kits according to size).

The clothes basket will cover the needs of one HH, composed of 6 people, and will comprise up to 6 individual clothing kits according to the required sizes.

MODULE 6 - WINTER CLOTHING (Children and Adults)			
Total price Clothing kit Adult = ~28 USD Clothing kit children = ~17 USD		Total weight approx. Clothing kit Adult / children = 2.5 Kg	
Jackets (Qty - 1)		Boots (Qty - 1 Pair)	
1. Size: Children: Small Size 2-3 years, Medium Size 4-6 years, Large Size 7-9 years, all sizes are uni-sex. Adult: X-Small 14-16 years, Small Size 17-19 years, Medium Size 20-25 years, Large Size +26 years, X-Large Size +30, all sizes are uni-sex. 2. Waterproof barrier material accepted: Gore-Tex, eVent, Dry Vent, H2NO, DRW (Durable water repellent), resist to 10,000 mm column of water. 3. Full-zip hooded jacket has minimal interior storm flap and single-pull adjustable. 4. Insulations needs be in Down Feather; the thickness should be in accordance with the size of the jacket. 5. With pockets (2 outer and 1 inner). 6. Main fabric: approx. %70 Polyester and %30 combed cotton blend. 7. Inner material: fiber 300 gr/m2 8. Inner lining: %100 cotton 9. With waistcoat.		1. Size: Children: Small Size 2-3 years, Medium Size 4-6 years, Large Size 7-9 years, all sizes are uni-sex. Adults: X-Small Size 36-38, Small Size 36-38 Medium Size 40-42, Large Size 43-44, X-Large Size 43-44, all sizes are uni-sex. 2. Average composition: preferably faux leather. 3. Traction: Non-slip, sole with lugs. 4. Different colors are accepted. 5. Appropriate for foot health (anti-carcinogenic and anti-allergic materials should be used). 6. With laces. 7. Above the ankles.	
Trousers/Sweatpants (Qty - 1)	Jumper/Sweat Shirt (Qty - 1)	2-Pices Thermal Underwear (Qty - 1 Set)	Socks (Qty - 3 Pairs)
1. Size: Children: Small Size 2-3 years, Medium Size 4-6 years, Large Size 7-9 years, all sizes are uni-sex. Adult: X-Small 14-16 years, Small Size 17-19 years, Medium Size 20-25 years, Large Size +26 years, X-Large Size +30, all sizes are uni-sex. 2. Trousers: - Main fabric: Cotton/Polyester fabric, 65% Cotton and 35% Polyester. Lining: 100% Cotton. 3. Sweatpants: - Main fabric: Cotton/Polyester fabric, 55% Cotton and 45% Polyester. Outer fabric: 100% polyester. Yoke: 55 % cotton, 40% polyester, 5% Elastane.	1. Size: Children: Small Size 2-3 years, Medium Size 4-6 years, Large Size 7-9 years, all sizes are uni-sex. Adult: X-Small 14-16 years, Small Size 17-19 years, Medium Size 20-25 years, Large Size +26 years, X-Large Size +30, all sizes are uni-sex. 2. Main fabric: Cotton/Polyester fabric, 65% Cotton and 35% Polyester. Lining: 100% Cotton. 3. Warm and lined component to perfectly insulate children's body. 4. Different color are accepted.	1. Size: Children: Assorted sizes or "one size fits all" Adults: Assorted sizes or "one size fits all" 2. Unisex. 3. Synthetic. 4. Long sleeves. 5. Plain color. 6. Set of 1 top and 1 pant.	1. Size: Children: Small Size 2-3 years, Medium Size 4-6 years, Large Size 7-9 years, all sizes are uni-sex. Adult: X-Small Size 36-38, Small Size 36-38 Medium Size 40-42, Large Size 43-44, X-Large Size 43-44, all sizes are uni-sex. 2. Average composition: - 50% Acrylic, 20 % Wool, 29% Polyamide, 1 % Elastane. 3. Silk insert at the end of the foot for more thermal comfort. 4. Different color are accepted.



Scarf (Qty - 1)	Hats (Qty - 1)	Gloves (Qty - 1 Pair)	Packing
1. Size: Children: Small/Medium/Large, uni-sex. Adult: X-Small/Small/Medium/Large/X-Large, uni-sex. 2. Average Composition: 100% Acrylic. Lining: 88% Polyester, 12% Elastane. 3. Warm and lined component to perfectly insulate children's heads. 4. Different color are accepted.	1. Size: Children: Small/Medium/Large, uni-sex. Adult: X-Small/Small/Medium/Large/X-Large, uni-sex. 2. Average Composition: 100% Acrylic. Lining: 88% Polyester, 12% Elastane. 3. Warm and lined component to perfectly insulate children's heads. 4. Different color are accepted.	1. Size: Children: Small/Medium/Large, uni-sex. Adult: X-Small/Small/Medium/Large/X-Large, uni-sex. 2. Waterproof and windproof. 3. Average Composition: - Top of the hand, 150g high loft wadding. Underside of the hand, 150g Brushed lining. 4. Different color are accepted.	Each kit of the above 9 components (one item in each kit) should be packed in a single durable and heavy duty sack.

Modality

Distribution modality, whenever possible, should allow for as much choice as possible, with use of restricted cash and/or voucher modality as preferred method. This is to avoid challenges identified in the past, such as: quality, items not adapted culturally, incorrect sizes, issues with colors and patterns, etc.

As for all cash based interventions, a market assessment will be necessary to decide if markets are working and a cash response is possible. It would be beneficial to ask beneficiaries for their preferred modality of distribution too.

Pricing

A price monitoring exercise will be necessary to identify the monetary value of the winter clothing kits' items. This value could be added to the normal SMEB voucher to cover costs to purchase winter clothes items in the winter months. Price monitoring assessment shall be undertaken in September, October, November and December.

Assessments

In line with the Sphere Standards "All women, girls, men and boys have at least two full sets of clothing in the correct size that are appropriate to the culture, season and climate" it was decided to advocate to include this question in needs assessments:

Q. How many sets of clothes do each members of your family have?
With 2 sets per family member being the minimum acceptable.

**MODULE 7 – NFI WINTER KIT****Scope**

The kit addresses the needs of IDPs and most vulnerable host communities as well as newly arrived IDPs during the winter months. It comprises of essential winter NFI items.

Kits Content

- Prices are estimated and based on Turkey prices. Market assessment and monitoring will be needed to define markets capacity and prices in Syria.

MODULE 7 – NFI Winter Kit						Total price ~147.5 USD	Total weight 46.5 kg	
No	Item	Size	QTY	Usage	Technical Specifications	Quality Control	Price	Comment
1	Plastic sheeting	4 x 6m	2	Used for waterproofing roofs, or to cover damaged structures and upgrade tents.	Material: Woven high-density polyethylene (HDPE) black fibres fabric laminated on both sides with low density polyethylene (LDPE) coating, Reinforcement: reinforced rims by heat sealing on all sides. Resistance: -20C to 80C. Eyelets: Provided with aluminium eyelets or equivalent on four sheet sides of the single sheets at 100 cm +/-5cm centre to centre, providing very strong fixation points. Weight: 200g/m² ±5%, total: 4800g ±5%. Colour: White sun reflective on both sides, grey bands. Inner black fibres with good opacity.	• Open it and Check that the sheet is white or specified colour without fluctuation in colour. • Measure the weight, min 4,560g – max 5,040g. • Measure the width and length of the sheet. • Measure the width at three locations. The width should be between 3.96 and 4.04m. • Scratch the white coating of the sheet with the cutter, and check that the yarns are black in both the warp and the weft directions. Light grey is not acceptable.	2X \$14.2 = \$28.4	
2	Mattresses / Sleeping mats	Single 1.8 x 0.9 x 0.1 m	5	Bedding	Material: polyurethane closed cell hard grey foam, 100% synthetic yarns from virgin or recycle raw material. Synthetic sleeping mats that are made from recycle materials must not contain fillers, like calcium carbonate or any other. Dimension: 1.8 x 0.9 x 0.1 m, Area 1.62 m2 Density: Minimum 24 kg/m³ (±2%) Weight: Min 3.56Kg. Load deflection: min 16kg Cover: removable cover with zipper cotton or polyester/cotton canvas of 180g/m² minimum. Size: 90 x 180 x 10 cm	• Measure the weight. • Measure the width, length and thickness. • Check that material is uniform • Check the cover measures • Check the cover zip, it should be easy to zip and unzip.	5 X \$14.2 = \$71	



3	Blankets	Single: 150 x 200cm; double: 200 x 200 cm	4single and 1 double (high thermal)	Bedding	Material: min. 60% acrylic and 40% cotton/ polyester mixture Thickness: 5-5.5 mm minimum Colour: no black, red, or white. Assorted dark colours. Shrinkage: Maximum 5% after 3 consecutive machine washing at 30°C and one flat drying. Dimension Single Dimension: 150 x 200cm ±3%, Weight: min 835 g/m2. Min 2.5 kg. ± 3% Dimension Double Dimension: 200 x 200cm ±3%, Weight: min 700 g/m2. Min 2.8 kg ± 3% Other Spec: No bad smell, not irritating to the skin, no dust. 4<pH<9, fire resistant. Fit for human use. Free from harmful VOC (Volatile Organic Components). Fire resistance to cigarette - No ignition. Bias fabric and Stitch yarns should be 100% polyester Label: Brand name and "Battaniye بطانيية" stated on the label Packaging: Individually packed in plastic bag (transparent)	• Measure the weight. • Measure the width, length and thickness. • Check that material is uniform and free of defects.	4X \$6 = \$24 + 1X \$7.2= 7.2 = \$31.2	
4	Carpet	200 x 300	6 sqm	Used to isolate the floor, prevent rising damp and as a clean area for cooking, eating and gathering.	Materials: Polipropilen (PP) Finish: The two short sides to be secured with a first stitch folded hem of the carpet, plus one bias 40mm binding tape of minimum 10g/m with stitches through the fabric of the carpet, OR with a double folded stitched hem. Four sides trim finished. Weight: Min 1050g/m² minimum, 12.6kg total. Size: 12 sqm minimum Yarn thickness (Dtex): min. 600 dtex Filament number: min.72 trilobal Strength (gr/dtex): 1,8-3 Stitch number: 25-30 pc/mt Hight of the tie knots: 9mm Sequence: 1600 tie knots/dm² Colour: assorted, with neutral design.	• Measure the weight. • Measure the width, length and thickness. • Check that material is uniform and free of defects	\$16.8	