



CALL FOR TENDER ACTED [TURKIYE] Instructions to Bidders

Date: 01/08/2023
Tender N°: T/17FKV-M1H-SHS-GZT-WASH-01-08-2023-1

Through this tender ACTED is requesting a company to provide detailed written offers for the supply and distribution services of the following products:

PRODUCT SPECIFICATIONS:

1. Description: **Shading Spaces(Gölgelik Alanı)**
2. Delivery address: Hatay/Antakya , Adiyaman , Kahramanmaraş provinces
3. Quantity/unit: To be determined. (Daha sonra bildirilecek)
4. Modality of delivery: DDP on Acted distribution sites.
5. Market share estimate: 58,700.00 USD

A detailed list of requested products is provided in the attached Offer Form.

RESPONSIBILITIES OF THE SUPPLIER:

For an offer to be accepted by Acted it will need to contain the following documents, signed by the bidder.

1	The present Instructions to Bidders (PRO-05) signed & stamped by the Bidder
2	An original Offer Form (PRO-06) dated, filled, signed & stamped by the Bidder (<i>detailed as per the requested currency</i>)
3	The Bidder's official registration documents

It is important to note that all documents must be filled, dated, signed & stamped by the Bidders in order to be considered as eligible. ACTED only accepts bids that have been filled in either English or Turkish.

GENERAL CONDITIONS:

- The **closing date** of this tender is **04 / 08 / 2023** at 15:00 Gaziantep/Turkiye time.
The submission of the proposal is electronic; all Proposals shall be submitted as a soft copy via email with due consideration to the following:
- Email Address:
To: Sofiane HAMDİ <sofiane.hamdi@acted.org>
CC : Vincent MARCHETTI< vincent.marchetti@acted.org>; Rizkullah TOLUN <rizkullah.tolun@acted.org>; Ali GOGEBAKAN <ali.gogebakan@acted.org>-
- The size of one Email shall not exceed 10 MB.
- The reference number of the Tender T (T/17FKV-M1H-SHS-GZT-WASH-01-08-2023-1) shall be the Subject of the email.
- Late offers may not be considered.
- To ensure that funds are used exclusively for humanitarian purposes and in accordance with donors' compliance requirements, all offers are subject to the condition that contractors do not appear on anti-terrorism lists, in line with ACTED's anti-terrorism policy. To this end, ACTED reserves the right to carry out anti-terrorism checks on any contractor, its board members, staff, volunteers, consultants, financial service providers and sub-contractors.
- Collusive practices are prohibited and will lead to offers rejection.



- **ACTED adopts a zero tolerance approach towards corruption and is committed to respecting the highest standards in terms of efficiency, responsibility and transparency in its activities. In particular, ACTED has adopted a participatory approach to promote and ensure transparency within the organization and set up a Transparency unit (supervised by the Director of Audit & Transparency) that can be reached through a dedicated phone number and e-mail address. As such, if you witness or suspect any unlawful, improper or unethical act or business practice (such as soliciting, accepting or attempting to provide or accept any kickback) during the tendering process, please contact the following phone number +33 6 07 22 46 28 and/or send an e-mail to transparency@acted.org.**

SPECIAL CONDITIONS:

- Bids award criteria will be assessed through a:

Pass/fail method

The cheapest supplier that passes the technical evaluation will be awarded a Framework agreement. Samples of the supplied materials might be requested for technical evaluation purposes, in case they are it will be at the cost of the supplier. Also Acted reserves the right to visit supplier premises.

- Acted reserves the right to contract one or more suppliers.
- In case of providing multiple options for one item, ACTED reserves the right to either select any one of the options or not consider the line item at all.
- ACTED reserves the right to engage on Post-Tendering Price negotiation with the bidders in form of submission of Counteroffer or direct price negotiation.
- Sending their offers to the present call for tender, Bidders acknowledge their agreement with these terms & conditions.
- ACTED will accept one final offer from each bidder that participates in the Tender. If a bidder wishes to submit an updated Proposal, after submitting their first offer but before the closing date, this should be clearly marked in the Email and Financial Offer.
- Each Bid shall include a unique company name, representative and signature, phone number, and email address. Any similarities between Proposals could result in the bid being rejected.
- Company Stamps should be unique and should include the company name. All information contained in the stamp should be unique to the company submitting the offer. Bidders who use multi stamps will not be considered.
- The offer will not be considered eligible if white ink is used, or price corrections are done by hand.
- Electronic stamp and signature are not accepted.
- This tender will lead to the signature of a framework agreement valid until 31/12/2023 and could be extended.

Company Name: _____

Authorized Representative Name: _____

Signature: _____

Stamp: _____



OFFER FORM ACTED *TURKIYE*

RFQ N° (filled in by ACTED): T-17FKV-M1H-SHS-GZT-WASH-01-08-2023-1

Date (filled in by Bidders):

To be Filled by Bidder (COMPULSORY)

Company's Name (as per registration documents)	
Company Authorized Representative's Name (as per registration documents or duly signed Power of Attorney)	
Company Registration Number Registration body	
Company's mailing address Shop/Office/Building No Street name City Governorate/province/district Country	
Commercial representative for the bid (if different from authorized representative)	
Phone contact number Landline Mobile No	
Email address	

I undersigned (to be filled in by Bidders)

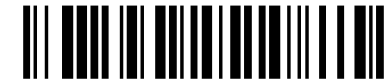
agree to provide ACTED, a non-profit NGO, with items answering the following specifications, according to the general conditions and responsibilities that I engage myself to follow.



Index	Description	Specification	UNIT - BIRIM	Unit Price in USD plus VAT and delivery cost USD cinsinden birim fiyatı artı KDV ve Teslimat dahil	SUPPLIER'S COMMENTS Tedarikçi Yorumları
1.1	Household Shade	<p>Including delivery anywhere in Antakya city – For more information check the Cluster document attached.</p> <p>Refer to part 6.4 of Technical Guidance for Shading Kit</p> <p>1- Shading material: (Example) Sunshade net: 100% HDPE; width 4.5 x 6m length; shade rate 70-80% or Plastic Sheeting (white), sun reflective on both sides.</p> <p>2- Timber poles: 2.15m long. Section size 50 mm nominal diameter.</p> <p>3- Nails: Steel. Supplied in a sealed bag. Length: 75mm (3*); Diameter: 3 mm</p> <p>4- Rope: 5mm diameter, polypropylene or nylon or other polymers (black). Min 3 strands.</p> <p>Turkish;</p> <p>1- çatı materyali: (örnek) güneşlik neti: 100% HDPE; eni 4.5 x 6m boyu; gölge oranı 70-80% or Plastik kaplama (beyaz), çift yönlü güneş ışığı yansıtıcı.</p> <p>2- Kereste direkleri: 2.15m uzunluk. enkesit boyutu 50 mm nominal çap.</p> <p>3- çiviler: çelik. mühürlenmiş bir çantada verilir. boy: 75mm (3*); çap: 3 mm</p> <p>4- halat: 5mm çap, polipropilen or naylon ya da diğer polimerler (siyah). Min 3 tel.</p>	Pcs		
1.2	Tent shade	<p>Including delivery anywhere in Antakya city – For more information check the Cluster document attached.</p> <p>Refer to part 6.5 of Technical Guidance for Shading Kit</p> <p>1- Shading material: (Example) Sunshade net: 100% HDPE; width 4.5 x 6m length; shade rate 70-80% or Plastic Sheeting (white), sun reflective on both sides.</p> <p>2- Timber poles or Steel poles: 2. 15m long. Section size 50 mm nominal diameter.</p> <p>3- Nails :Steel 3m long. Section size 100mm x 100mm nominal.</p> <p>Turkish;</p>	Pcs		



		<p>1- Çadır materyali: (örnek) güneşlik net: 100% HDPE; en 4.5 x 6m boy; gölge oranı 70-80% or plastik kaplama (beyaz), çift yönlü güneş ışığı yansıtıcı.</p> <p>2- Kereste direkler ya da çelik direkler: 2. 15m uzunluk. enkesit boyutu 50 mm nominal çap.</p> <p>3- Çiviler :Çelik 3m uzunluk. enkesit boyutu 100mm x 100mm nominal.</p>			
1.3	Community shade	<p>Including delivery anywhere in Antakya city – For more information check the Cluster document attached.</p> <p>Refer to part 6.6 of Technical Guidance for Shading Kit</p> <p>1- Shading material: (Example Sunshade net: 100% HDPE, width 4.5 x 6m length; shade rate 70-80% or Plastic Sheeting (white), sun reflective on both sides.</p> <p>2- Timber poles or Steel poles: 2.3m long. Section size 100mm 100mm nominal.</p> <p>3- Ridge poles :5m long; 150mm wide</p> <p>4- Rope: Nylon or similar, diameter. 9 to 12 mm diameter. Woven with 2 or 3 strands, with the possibility of being unravelled. Length: 200m, in a roll. Preferred colour: Black / dark green.</p> <p>5-Tent pegs or stakes: Tent pegs, 200 to 300 mm length after bending; made of iron reinforcing bar of 10 mm diameter, with a hook bent on one end, "candy cane" shape, or a cross shape.</p> <p>6- Strong twine: 6mm; for stitching.</p> <p>7- Nails. Steel. Supplied in a sealed bag. Length: 75mm (3*); Diameter: 3 mm.</p> <p>8- Community toolkit: Example contents) Handsaw, shovel, wheelbarrow, claw hammer, pickaxe.</p> <p>Turkish;</p> <p>1-Çadır materyali: (örnek güneşlik net: 100% HDPE, en 4.5 x 6m boy; gölge oranı 70-80% ya da plastik kaplama (beyaz),çift yönlü güneş ışığı yansıtıcı.</p> <p>2-Kereste direkler ya da çelik direkler: 2.3m unzunluk. Enkesit boyutu: 100mm 100mm nominal.</p> <p>3-Kafes direkleri: 5m boy; 150mm en.</p>	Pcs		



		<p>4-Halat: Naylon vb. Çap .9 ile 12mm. 2 veya 3 telli dokuma, sökölme imkanı olmalı. boy: 200m, rolu. Tercih edilen renk: Sıyah / koyu yeşil.</p> <p>5-Çadır mandalı veya kazıkları: Çadır mandalları boyu büküldükten sonra 200 ile 300 mm olmalı</p> <p>10 mm çapında demir takviye çubuğundan yapılmıştır, bir ucunda bükülmüş bir kanca ile, , "şeker kamışı" şeklinde ya da çapraz şekilde.</p> <p>6- Güçlü sicim: 6 mm; dikiş için.</p> <p>7- Çiviler. çelik. Mühürlenmiş çantada verilir. boy: 75mm (3*); çap: 3 mm.</p> <p>8- Alet çantası: içerik örneği) El testeresi, körek, el arabası, pençe çekiç, kazma.</p>			
2.1	Household Shade	<p>Including delivery anywhere in Adıyaman – For more information check the Cluster document attached.</p> <p>Refer to part 6.4 of Technical Guidance for Shading Kit</p> <p>1- Shading material: (Example) Sunshade net: 100% HDPE; width 4.5 x 6m length; shade rate 70-80% or Plastic Sheeting (white), sun reflective on both sides.</p> <p>2- Timber poles: 2.15m long. Section size 50 mm nominal diameter.</p> <p>3- Nails: Steel. Supplied in a sealed bag. Length: 75mm (3*); Diameter: 3 mm</p> <p>4- Rope: 5mm diameter, polypropylene or nylon or other polymers (black). Min 3 strands.</p> <p>Turkish;</p> <p>1- çatı materyali: (örnek) güneşlik neti: 100% HDPE; eni 4.5 x 6m boyu; gölge oranı 70-80% or Plastik kaplama (beyaz), çift yönlü güneş ışığı yansıtıcı.</p> <p>2-Kereste direkleri: 2.15m uzunluk. enkesit boyutu 50 mm nominal çap.</p> <p>3- çiviler: çelik. mühürlenmiş bir çantada verilir. boy: 75mm (3*); çap: 3 mm</p> <p>4- halat: 5mm çap, polipropilen or naylon ya da diğer polimerler (sıyah). Min 3 tel.</p>	Pcs		
2.2	Tent shade	<p>Including delivery anywhere in Adıyaman – For more information check the Cluster document attached.</p>	Pcs		



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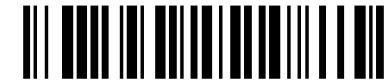
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3.1	Household Shade	<p>Including delivery anywhere in Kahramanmaraş – For more information check the Cluster document attached. Refer to part 6.4 of Technical Guidance for Shading Kit</p> <p>1- Shading material: (Example) Sunshade net: 100% HDPE; width 4.5 x 6m length; shade rate 70-80% or Plastic Sheeting (white), sun reflective on both sides. 2- Timber poles: 2.15m long. Section size 50 mm nominal diameter. 3- Nails: Steel. Supplied in a sealed bag. Length: 75mm (3*); Diameter: 3 mm 4- Rope: 5mm diameter, polypropylene or nylon or other polymers (black). Min 3 strands.</p> <p>Turkish; 1- çatı materyali: (örnek) güneşlik neti: 100% HDPE; eni 4.5 x 6m boyu; gölge oranı 70-80% or Plastik kaplama (beyaz), çift yönlü güneş ışığı yansıtıcı. 2- Kereste direkleri: 2.15m uzunluk. enkesit boyutu 50 mm nominal çap. 3- çiviler: çelik. mühürlenmiş bir çantada verilir. boy: 75mm (3*); çap: 3 mm 4- halat: 5mm çap, polipropilen or naylon ya da diğer polimerler (sıyah). Min 3 tel.</p>	Pcs		
3.2	Tent shade	<p>Including delivery anywhere in Kahramanmaraş – For more information check the Cluster document attached. Refer to part 6.5 of Technical Guidance for Shading Kit</p> <p>1- Shading material: (Example) Sunshade net: 100% HDPE; width 4.5 x 6m length; shade rate 70-80% or Plastic Sheeting (white), sun reflective on both sides. 2- Timber poles or Steel poles: 2. 15m long. Section size 50 mm nominal diameter. 3- Nails :Steel 3m long. Section size 100mm x 100mm nominal.</p> <p>Turkish; 1- Çadır materyali: (örnek) güneşlik net: 100% HDPE; en 4.5 x 6m boy;</p>	Pcs		



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3.3	Community Shade	<p>Including delivery anywhere in Kahramanmaraş – For more information check the Cluster document attached.</p> <p>Refer to part 6.6 of Technical Guidance for Shading Kit</p> <p>1- Shading material: (Example Sunshade net: 100% HDPE, width 4.5 x 6m length; shade rate 70-80% or Plastic Sheeting (white), sun reflective on both sides.</p> <p>2- Timber poles or Steel poles: 2.3m long. Section size 100mm 100mm nominal.</p> <p>3- Ridge poles :5m long; 150mm wide</p> <p>4- Rope: Nylon or similar, diameter. 9 to 12 mm diameter. Woven with 2 or 3 strands, with the possibility of being unravelled. Length: 200m, in a roll. Preferred colour: Black / dark green.</p> <p>5-Tent pegs or stakes: Tent pegs, 200 to 300 mm length after bending; made of iron reinforcing bar of 10 mm diameter, with a hook bent on one end, "candy cane" shape, or a cross shape.</p> <p>6- Strong twine: 6mm; for stitching.</p> <p>7- Nails. Steel. Supplied in a sealed bag. Length: 75mm (3*); Diameter: 3 mm.</p> <p>8- Community toolkit: Example contents) Handsaw, shovel, wheelbarrow, claw hammer, pickaxe.</p> <p>Turkish;</p> <p>1-Çadır materyali: (örnek güneşlik net: 100% HDPE, en 4.5 x 6m boy; gölge oranı 70-80% ya da plastik kaplama (beyaz),çift yönlü güneş ışığı yansıtıcı.</p> <p>2-Kereste direkler ya da çelik direkler: 2.3m unzunluk. Enkesit boyutu: 100mm 100mm nominal.</p> <p>3-Kafes direkleri: 5m boy; 150mm en.</p> <p>4-Halat: Naylon vb. Çap .9 ile 12mm. 2 veya 3 telli dokuma, sökölme imkanı olmalı. boy: 200m, rolü. Tercih edilen renk: Sıyah / koyu yeşil.</p>			



	<p>5-Çadır mandalı veya kazıkları: Çadır mandalları boyu büküldükten sonra 200 ile 300 mm olmalı 10 mm çapında demir takviye çubuğundan yapılmıştır, bir ucunda bükülmüş bir kanca ile, , "şeker kamışı" şeklinde ya da çapraz şekilde. 6- Güçlü sicim: 6 mm; dikiş için. 7- Çiviler. çelik. Mühürlenmiş çantada verilir. boy: 75mm (3*); çap: 3 mm. 8- Alet çantası: içerik örneği) El testeresi, körek, el arabası, pençe çekiç, kazma.</p>		
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At the moment this kit is considered as order standard for Acted, however the supplier might be requested to perform custom kits, or to deliver items by units independdently of the kit.

GENERAL REMARKS

"By signing this document I hereby attest that I read all the offer form and understood all the conditions of this document, but also that I have studied carefully the term of reference and that my price includes all its requirements:"

Name of Bidder's Authorized / İstekli Yetkilinin Adı:

Representative/ Temsilci: _____

Authorized signature and stamp/ Yetkili imza ve kaşe: _____

Date/Tarih: _____



TERM OF REFERENCE & TECHNICAL QUESTIONNAIRE ACTED *TURKIYE*

RFQ N° (filled in by ACTED): T-17FKV-M1H-SHS-GZT-WASH-01-08-2023-1

Date (filled in by Bidders):

This questionnaire will be used in the selection of a supplier under this procurement. In case the bidder is awarded with a contract, the information provided bellow will be made contractual. Therefore, the bidder is requested to provide accurate and reliable timelines.

The selected supplier will be awarded a FWA where will be defined all the items prices inclusive of manufacture, transport and site installation and cost related to this operations.

Under this FWA, at each of Acted order the supplier will have to abide to:

- Delivery delay as per below table, delivery delays means from the reception of an order to the actual installation of the units.
- Do a site visit to flag any adaptation of the specification and any price impacts
- Manufacture the requested units in its factory
- Deliver them on site, pre built.
- Install them on site.

Please fill out the following table:

Item index	Summed up description	Delays of delivery (From order to complete installation on site)
1.1	Household Shade in Hatay/Antakya city.	Delivery delays for 10 units (Working days):
1.2	Household Shade in Adiyaman.	Delivery delays for 10 units (Working days):
1.3	Household Shade in Kahramanmaras.	Delivery delays for 10 units (Working days):
Item index	Summed up description	Delays of delivery (From order to complete installation on site)
2.1	Tent shade in Hatay/Antakya city.	Delivery delays for 10 units (Working days):
2.2	Tent shade in Adiyaman.	Delivery delays for 10 units (Working days):
2.3	Tent shade in Kahramanmaras.	Delivery delays for 10 units (Working days):
Item index	Summed up description	Delays of delivery (From order to complete installation on site)
3.1	Community shade in Hatay/Antakya city.	Delivery delays for 1 unit (Working days):
3.2	Community shade in Adiyaman.	Delivery delays for 1 unit (Working days):
3.3	Community shade in Kahramanmaras.	Delivery delays for 1 unit (Working days):



"By signing this document I hereby attest that I read all the offer form and understood all the conditions of this document, but also that I have studied carefully the term of reference and that my price includes all its requirements:"

Name of Bidder's Authorized / İstekli Yetkilinin Adı:

Representative/ Temsilci: _____

Authorized signature and stamp/ Yetkili imza ve kaşe: _____

Date/Tarih: _____



Technical Guidance for Shading Kit

Status	Version	Status	Effective date	Next revision
	<1>	<Draft for Review>	<30/03/2023>	<ASAP>

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1. INTRODUCTION

This guidance offers advice to agencies providing assistance to displaced & non displaced households living in sub-standard conditions in the earthquake affected regions of Türkiye. The purpose of seasonally-related assistance is to support vulnerable households cope with extreme summer temperatures, through the integrated support to shelters alongside the provision of household and NFIs.

In this document, 'climatisation' refers to improvements or support to shelters to withstand the extremes of temperature or climate. Seasonal NFI support refers to the provision of NFIs and other items to allow individuals and households to maintain comfort and protection from temperature and climate.

2. CLIMATIC CONDITIONS

In southern Türkiye the average summer temperature in July/August reaches around 34 degrees Centigrade , with temperatures generally above 20 degrees from April until they fall again in late October.

3. OBJECTIVES OF CLIMATISATION ASSISTANCE

Shelter and NFI seasonal support are closely linked. It is generally found that families who require shelter seasonal support are likely to also require NFI seasonal assistance, therefore assessments and interventions should take into consideration the shelter conditions as well as the availability of household items.

Seasonal shelter support is provided to ensure affected households are protected from the direct effect of harsh weather, and sufficient NFIs to maintain health and well-being during extremes of temperature.

4. ASSISTANCE TIMEFRAMES

An annual strategy review should commence approximately six months ahead of the start of each summer or winter and close within three months. Timelines will adjust based upon the planning cycles of partners to ensure that in kind items are procured before the start of each season.

5. OVERARCHING CONSIDERATIONS

5.1. Settlement conditions



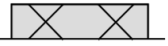
The following should be considered in advance and during seasonal preparation:

- Maintenance of camp / centre infrastructure
- Solid waste disposal
- Avoiding access being blocked by shading kit installation

6. SUMMER ASSISTANCE

For those living in tents, temporary shelters and containers, the extreme heat of the summer in southern Türkiye makes day to day life insufferable. The Shelter Sector recommends provision of shading to help improve thermal comfort.

6.1. Types of intervention

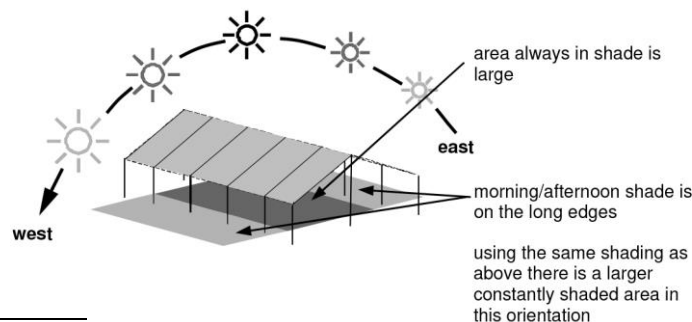
Icon	Type	Description
	Household Shade	<ul style="list-style-type: none"> • Shading kits distributed at HH level • Can use standard Emergency Shelter Kits • HH led initiative but with technical support if needed
	Tent Shade	<ul style="list-style-type: none"> • Fixed shade over whole tent • Can be constructed in rows, timber or steel posts, concrete foundation • Shade netting is lighter and less affected by high wind
	Community Shade	<ul style="list-style-type: none"> • Shade provided in available space per block or unit of tents • Multi-purpose use

6.2. Shading ¹

Shading can be constructed out of a variety of materials, from mesh netting and plastic sheeting to plywood and corrugated galvanised iron sheeting, among others.

In hot climates such as Türkiye, shade is required to protect from UV radiation, preventing dehydration, and overheating. Shading can also protect structures such as water tanks (reducing evaporation and the degrading effect of UV light on chlorination), supplies, and equipment. Shade over a shelter prevents degradation of tent and tarpaulin materials by UV radiation, and reduces the internal temperature of the shelter.

Creating communal shade allows additional space for working and socialising, while shaded extensions to shelters permits some household functions more space outside.



¹ Acknowledgments: MSF & Shelter Centre; Michael Waugh, NRC; AAF; IOM; NRC

6.3. Shading Kits

Shading can be constructed out of a variety of materials, from mesh netting and plastic sheeting to plywood and corrugated galvanised iron sheeting, among others.

6.4. Shading Extension Kit – For Individual Tents and Shelters

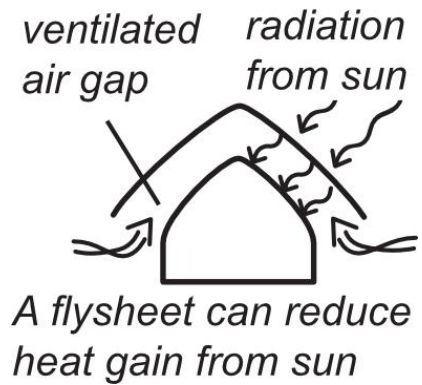


Shading Extension for Tents/Shelters

Photos: Courtesy of IOM

Shading Extension for Tents/Shelters							
#	Item description	No.	Unit	Unit cost / TL	Cost / TL	Specifications description	Notes
1	Shading material*	4 x 6	m ²	TL xx /m ²	TL x	(Example) Sunshade net: 100% HDPE; width 4.5 x 6m length; shade rate 70-80% or Plastic Sheeting (white), sun reflective on both sides	
2	Timber poles	5	piece	TL x	TL x	2.15m long. Section size 50 mm nominal diameter	Straight and free from defects. Use a standard sample to demonstrate quality when ordering in bulk
3	Nails	0.25	kg	TL x	TL x	Steel. Supplied in a sealed bag. Length: 75mm (3"); Diameter: 3 mm	
4	Rope	10	m			5mm diameter, polypropylene or nylon or other polymers (black). Min 3 strands.	For tying down the end of the sheeting resting on the tent/shelter. Fix to tent pegs or a cut off from the poles

6.5. Shading Kit – Over Entire Tent



Shading over entire Tents/Shelters

Photos: Courtesy of AAF/NRC

Shading Over Entire Tent/Shelter							
#	Item description	No.	Unit	Unit cost / TL	Cost / TL	Specifications description	Notes
1	Shading material*	27	m ²	TL xx /m ²	TL x	(Example) Sunshade net: 100% HDPE; width 4.5 x 6m length, shade rate 70-80% or Plastic Sheeting (white), sun reflective on both sides	
2a	Steel poles	4	piece	TL x	TL x		Select either 2a or 2b
2b	Timber poles	4	piece	TL x	TL x	3m long. Section size 100mm x 100mm nominal	Select either 2a or 2b
3	Nails	1	kg			Steel. Supplied in a sealed bag. Length: 75mm (3"); Diameter: 3 mm	

6.6. Shading Kit – For Communal Areas



Shading for community space

Photos: Courtesy of AAF/NRC

EXAMPLE COMMUNITY SHADING KIT (for a shaded cover of 41m ²) ²							
1	Shading material*	m ²	150	/m ²		(Example) Sunshade net: 100% HDPE; width 4.5 x 6m length; shade rate 70-80%	Basic shading material for domestic use not for industrial agricultural purpose as it is much higher in cost. Either Black or Green in colour.
2a	Timber poles	piece	12			2.3m long. Section size 100mm x 100mm nominal	Select either 2A or 2B
2b	Timber poles	piece	12			2.3m long. Section size 100mm diameter nominal	Select either 2A or 2B
3	Ridge poles	piece	2			5m long; 150mm wide	

² From *Shade Nets: Use, deployment and procurement of shade net in humanitarian relief environments*, MSF & Shelter Centre, 2006, pp. 18-21

4	Rope	roll	1			Nylon or similar, diameter. 9 to 12 mm diameter. Woven with 2 or 3 strands, with the possibility of being unravelled. Length: 200m, in a roll. Preferred colour: Black / dark green.
5	Tent pegs or stakes	piece	28			Tent pegs, 200 to 300 mm length after bending; made of iron reinforcing bar of 10 mm diameter, with a hook bent on one end, “candy cane” shape, or a cross shape.
6	Strong twine	m	6			6mm; for stitching
7	Nails	kg	1			Steel. Supplied in a sealed bag. Length: 75mm (3”); Diameter: 3 mm
8	Community toolkit ³	kit	-	-		(Example contents) Handsaw, shovel, wheelbarrow, claw hammer, pickaxe

*Shelter grade tarpaulin can be used in place of the sunshade net specified above with improved structure to support the increase in weight.

The table above gives an example of the materials needed for the construction of a community shade structure for a communal kitchen, for example. Community shading kits should be tailored in size, design and composition to address identified needs, as well as coordinated and consulted with site / settlement management authorities and end users.

6.7. Fixing shading material⁴

The guide produced by ICRC & Oxfam outlines the best practices for fixing plastic sheeting. Some examples in the guideline on how to spread the load to prevent the plastic sheeting from pulling through are:

¹ From Shelter Cluster Türkiye Technical Guidance on Emergency Shelter Kits (ESK), <https://www.sheltercluster.org/response/Turkiye>

² From *Shade Nets: Use, deployment and procurement of shade net in humanitarian relief environments*, MSF & Shelter Centre, 2006, pp. 18-21

³ From Shelter Cluster Türkiye Technical Guidance on Emergency Shelter Kits (ESK), <https://www.sheltercluster.org/response/Turkiye>

⁴ Plastic Sheeting – A guide to the specification and use of plastic sheeting in humanitarian relief – ICRC & Oxfam

Fixing to Timber

Standard nails will easily pull through plastic sheeting as they have small heads.

Standard nails can be improved by bending or nailing them through folded plastic sheet or rope. U-shaped fencing pins can be used.

Standard nails can be improved using washers or battle caps. Alternatively, domed head nails can be used.

Timber battening is good to spread the load.

Plastic sheeting should be folded over on itself at connection points.

Plastic sheeting is best fixed to spread the load along the (smoothed) edge of the supporting structure.

Reinforcement Bands: standard plastic sheets have reinforcement bands; all fixings should pass through the bands to add strength to fixings.

With only a few fixing points, this sheeting is likely to pull free.

bad

With many fixing points, this sheeting is likely to last longer.

good
max. 30cm

Fixing points should be close together. A maximum of 30 cm apart is suggested

Fixing to the Ground

When plastic sheeting is connected directly to the ground, 50cm of additional plastic is required on each side for burying in trenches. If timber is available, then the plastic sheeting can be nailed to timber runners that are pegged to the ground (or connected to the foundations).

Whilst sandy soils will not grip the plastic sheeting as well as other soil types, it may be very difficult to dig trenches in some rocky soils. Choosing a method for fixing the sheeting to the ground therefore depends upon the soil conditions as well as the availability of materials.

6.8. Things to consider

- If the province/district are known to be subject to strong winds or extreme weather, such as summer storms, shades need to be installed to resist maximum wind speeds and/or the warning systems need to be put in place to take down shades.
- If procuring timber poles in bulk, consider impact to environment.
- Guidance should be provided on how to brace individual shading with ropes to avoid trip hazards.