

SPECIFICATIONS OF NDMA TARPAULINE SHEETS

Sr	Items	Specifications
1	General Information and Description	<p>Reinforced Plastic Tarpaulin Sheets having standard size of 4 x 5 meters has to be developed according to international standards and designed for long outdoor use in all climates. Plastic tarpaulins are to be used in support to humanitarian operations, for temporary shelter and are recommended for individual and Family) shelter protection.</p> <p>The technical specification of this tarpaulin sheet are generic, ensuring that the product can be manufactured by different suppliers in the country with the common technical know-how and standard equipment from the textile industry. According to its design, plastics tarpaulin should comply with all the technical requirements, criteria and parameters described in this document.</p>
2	Material	<p>Reinforced plastic tarpaulin sheets are made of woven high-density black polyethylene fibres, warp x weft, laminated with both sides with low density polyethylene coating, with reinforced rims by heat sealing on all sides, (or 2 sides heat sealing and 2 sides double stitching) and a 5 millimetres diameter PE or PP rope on the edge, inside the hem of 1000 denier minimum. Minimum material weight shall be 190 gr/m²</p>
3	Size and Measurement	<p>The Plastics tarpaulin shall have following minimum measurement.</p> <ol style="list-style-type: none"> Size - 4 x 5 metres Tensile strength - minimum 600 N both directions of warp and weft. Welding - only one is allowed along the middle of the sheet, length wise. Reinforcement Eyelets - Provided with aluminium eyelets or equivalent on four sheet sides of the single sheets at 100 cm \pm 5cm centre to centre, providing very strong fixation points Minimum resistance is 80% of the original tarpaulin tensile strength in the weft under ISO 1421 plus additional procedure. Colour - white sun reflective on both sides, inner black fibres to ensure opacity. Weight - 3.8 - 4.2 Kgs 20 x meter barded or polyester- Nylon rope
4	Heat proofing/ UV resistance	<p>UV resistance - stabilized against ultraviolet rays and access heat for log out door exposure. Maximum 5 % loss of original tensile strength under ISO 1421 after 1500 hours UV under ASTM G53/94.</p>

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5	Laboratory Testing	In order to ensure adherence to the standard specification, an appropriate sample, preferably one tarpaulin out of lot of 2000 are to be send to any one of the NDMA approved laboratories for testing and checking at the cost of vendor(s). The test must include checking of high-density black polyethylene fibre, size of 4 x 5 meters, UV resistance, water proofing and tensile strength.
6	Packing and Weight	Tarpaulins are to be packed into a master bale of 5 x tarpaulins. Each individual tarpaulin are to be folded in way to avoid dirt and cutting. The master bundle shall also be cover with tarpaulin sheet / polythene before pressing. The master bundle shall be pressed by bale pressing machine to ensure that the individual tarpaulin will not fall out of the bag during transport and handling. Bales to be wrapped in a water-tight polypropylene or jute woven bag, compressed and strapped with 5 straps (2 lengthwise, 3 crosswise). The prefer size of bale shall 56 x 39 x 20 cm. Minimum gross weight of single bale is - 20 kgs.
7	Expected Life Span	It is expected that reinforced tarpaulin will maintain sheltering and waterproof capacities for 1 x year under the strongest weather conditions. The tarpaulin shall have a shelf life of minimum of 5 x years, under normal storage conditions, in dry, clean, and ventilated warehouses. It should be elevated from the ground, not piled, stored on pallets and pallet racks, not in containers or intended warehouses.
8	Manufacturing Marking and Batch Number	Every tarpaulin shall include a tag, stitched in one corner of whipped seam of tarpaulin, with size of 5 x 5cm, with the manufacturer identification. The tag should include the manufacturer's name, unique reference batch number and date of manufacturing. No company log should be included with manufacture's marking.
8	NDMA Colour Logo	NDMA colour logo of 1 x 1 meters in dia at central of the tarpaulin to be printed / pasted. Similarly, NDMA logo of 10 x 10 cm to be printed /pasted at centre of the master bale of tarpaulin.
9	Pre-shipment Inspection	Pre-shipment inspection to be carried out before dispatches of tarpaulins to the required destination by designated officers of NDMA. The team or officer will conduct random inspection at the premises of manufacturer. The inspection to be carried randomly and visually for every lot of 2,000 tarpaulins. The inspecting officer shall collect random sample from the assigned lots and will submit to the nearest designated laboratory of NDMA. The tarpaulin shall be only dispatched, if accepted by inspection officers.
10	Delivery/ Dispatches Instruction	The tarpaulin shall be delivered at the cost of vendor to the designated destination in coordination with Logistics Section of NDMA. Delivery schedule to be shared with NDMA. All allied charges on account of loading and unloading shall bear by vendor. However, any change in destination to be mutually agreed by vendor and NDMA and shall be timely intimated to vendor for onwards transportation arrangement

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GROUND CHECK PROFORMA FOR INSPECTION OF FACTORY / FIRMS

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Sr.	Description	Remarks
About Factory / Firm		
a.	Factory / Firm Name	
b.	Date of Inspection	
c.	Address of Factory	
d.	Name of Factory Owner	
e.	Established in Year	
f.	Landline telephone installed	
g.	NTN Number	
h.	Size of Factory(Kanal)	
Nature of Business		
Manufacturing Facility		
Processing / stitching Facility		
Distributor / supplier		
Food Packs		
Others		
Items being manufactured / processed / assembled / distributed / supplied		
Tents		
Blankets		
Tarpaulins		
Food Packs		
Others		
No of production / distribution capacity per day		
Tents		
Blankets		
Tarpaulins		
Food Packs		
Others		

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Types with capacity of storage facility available in factory(quantity)

5.	Permanent warehouse			
	Open storage yard			
	Outside facility			
	Others			
Manpower / HR Strength				
6.	Managerial			
	Skilled			
	Unskilled			
7.	System of Quality Control (Yes / No)			
Working Experience				
8.	NDMA /PDMA's/Army/UN Agencies	Product	Year of supply	Qty
9.	Gas/ Electricity Bills -6 -12 month			
10.	Observations , if any			
11.	Recommended / Not recommended			
12.	Category of Recommendation (A,B & C)*			

Note: Category A = 70 & above points, Category B = 50 & above points, Category - C = below 30 points

Inspection Officer

Name	_____	Name	_____
Signature	_____	Signature	_____
Date	_____	Date	_____