



TECHNICAL SPECIFICATIONS

IMPROVED NFI KIT

IOM

NORTH EAST NIGERIA

JANUARY 2021

CONTENT

Improved NFI Kit, according to the CCCM/SHELTER/NFI Sector guidelines for NE Nigeria, is aimed at saving lives through the provision of Assistance to the affected population in conformity with the international standards as the aim is to ensure their dignity is restored. The improved kits consist of the following items.

Improved kits.


- 3 x Sleeping Mats.
- 3 x Blanket
- 2 x Mosquito Net
- 2 x Foldable Mattress
- 2 x 2L Kettle
- 1 x 10L Basin
- 7 x Laundry Soaps
- 7 x Bathing Soaps
- 2 x Reusable Sanitary Pads
- 2 x 10L Jerry Can
- 1 x 20L Jerry Can
- 1 x Solar Lamp
- 15 x NaDCC Disinfection Tablets
- 1 x Packaging bag with IOM Logo both side
- 1 x Rope
- 2 x Kettle
- 10litre Basin

- **Kitchen set**
- 2 x 10L Bucket
- 3 x Cooking Pots (10 and 7 Liters)
- 2 x Stainless Trays
- 6 x Stainless Cups
- 1 x Kitchen Knife
- 2 x Serving Spoon

This document provides technical specification for each of the items where quality standards are set out. The specifications are exhaustive and are to be taken as indicative of the general standards which are to be achieved.


The items required are described, this is to give a broad indication of the type, material, design, weight, size, length, surface, volume, packaging, color etc. of the items envisaged. In one sentence the NFI Specification is often a type of technical standard to state, explaining in detail and to be specific for easy reference.

ITEM 1: SYNTHETIC SLEEPING MAT

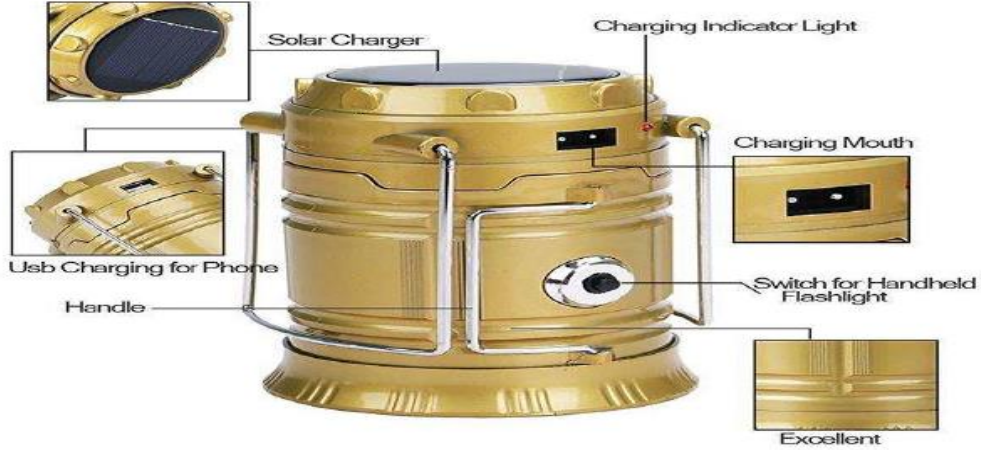
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| Synthetic Mat |  |
| Description | Tightly woven twill weave fabric |
| Wrap | Pure virgin polypropylene (PP) multifilament |
| Weave | Recycled polypropylene (PP) hollow tubes not containing any filler. Minimum 1000 tubes in weft/meter length |
| Finish | The short sides to be secured with a first stitch. folded hem, plus one bias 40mm binding tape of 10g/m minimum with stitches through the fabric of the mat, OR with a double folded stitched hem. Four sides trim finished. Binding must be secured and durable to prevent the fraying. |
| Colour | Assorted, neutral design. |
| Size | 1.80m x 0.90m minimum |
| Weight | 500g/m ² minimum |
| Packing | Bales of 25 pieces, compressed. Package to be wrapped in a protective outer PP woven canvas, with 4 straps. No individual |

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| No 2. Foldable Mattress |  |
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| Description | Double sided folded mattress |
| Type of Foam | Medium: Polyurethane foam, 25kg/m ³ ; thickness: 10cm. Minimum, in 1 piece not glued |
| Cover | Woven polyester 75g/m ² minimum OR non-woven. polypropylene of 100g/m ² minimum, with strong plastic zip. Size |
| Size | 2m x 0.7m |
| Thickness | 0.06m thickness (When flattened without folds) |
| Weight | 2kg |
| Packing | Wrapped in a water-tight micro perforated plastic film and covered with a polypropylene or jute woven bag, compressed to minimum 75% rate. Recovery after opening minimum 96% after 24h Folded and compressed individually |

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| No 3. Treated Mosquito Nets. |  | |
| | Materials | Manufactured from 100% high density polyethylene. OR polyester. Mosquito nets Long Lasting Insecticidal Nets (LLIN's). Treated with 80 mg/m ² Deltamethrin. Size |
| Size | 190 x 180 x 150cm | |
| Mesh Size | Minimum 130 holes per inch ² | |
| Shape | Rectangular shape with 6 hangers minimum | |
| Support Materials | Product should also include minimum 6 mosquito net strands, minimum 1 m each. Should include. minimum 6 metallic screw on hinges. | |
| General Quality | No holes, tears and sharp edges, clean finishing | |
| Packing | Primary packing: Individual packaging, then ball | |


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| Blanket |  |
| Description | Medium thermal type |
| Make | Woven, dry raised both sides. |
| Content | 50% wool fibres +/-5%, 50 % other textile fibres, recycled fibres accepted. |
| Finish | Whipped seam at 10mm from the edge with 10 to 13 stitches/10cm or stitched ribbon or hemmed on 4 sides. |
| Colour | Grey, brown, or other dark colours, preferably not died. |
| Size | 190 x 110cm minimum (When flattened without folds) |
| Thickness | 3mm minimum |
| Weight | 1 Kg |
| Packing | <p>Bales to be wrapped in a water-tight micro perforated plastic film and covered with a polypropylene or jute woven bag.</p> <ul style="list-style-type: none"> • Quantity per bale: 100 pieces. • Compressed and strapped with 5 straps (2 lengthwise, 3 crosswise). • Bales dimensions: Length approx. 0.8m, width approx. 0.5m • Height of the bales to be compressed by maximum 40% from free state to final compressed and strapped state. (e.g if the bale is 1m high at free state, it should be compressed to a height of 0.6m at final and strapped state). |

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| Rechargeable Solar Lamps |  |
| Description | Rechargeable lamp by built-in solar cell & 110v- 250v direct power outlet. Includes USB cell phone charger & USB Cable. |
| Material | Casing made of unbreakable plastic |
| Shape | Cylindrical |
| Height | Minimum 13.4 cm |
| Diameter | Minimum 8.5cm |
| Weight | 250g |
| Batteries/Power | 3x100m AH. AA size. Dry Battery |
| LEDs | 15 pieces high -brightness SMD with 1 piece lamp shade. |
| Solar Panel | Mono crystalline, working current: 70-120 MA |

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| 6. Plastic Kettle |  |
| Capacity | Minimum 2L |
| Material | Polyethylene with Lid |
| Finish | Includes and spout with no sharp edges. |


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| Synthetic Rope |  |
| Material | Polypropylene, plastic Rope twisted. |
| Diameter | 10mm minimum |
| Length | 30m |

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| Colour | Any Colour |
| Packing | Roll. |

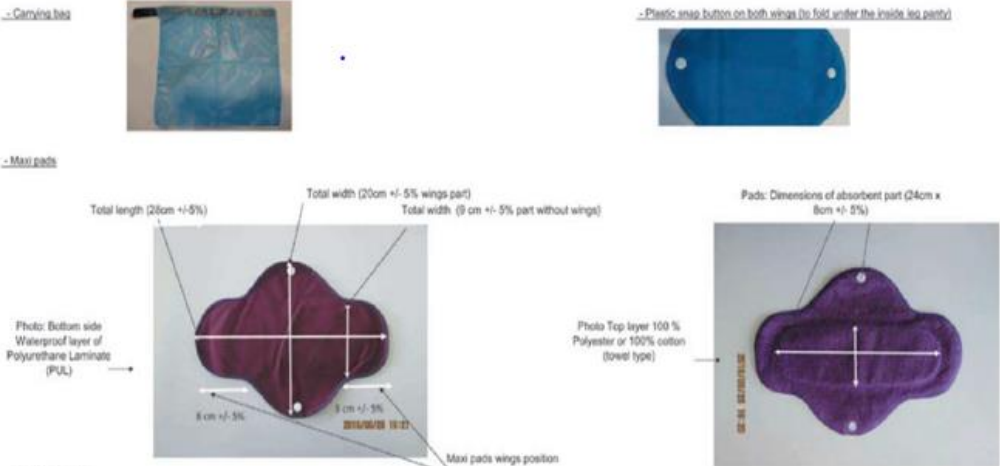
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| Laundry Soap |  |
| Description | Laundry soap for hand washing clothes, not harmful to the skin, from vegetable or animal fat, no containing pork fat. |
| Type | Product must be fit for human utilisation and be of sound, fair, and marketable quality. |
| Colour | Homogeneous colour |
| Scent | Without any disagreeable odours and flavours. |
| Size | 11.5x7cm |
| Weight | 200g |
| Packing | At least 40 bars of 200g per carton. |

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| Bathe Soap |  |
| Description | Toilet soap in bar, not harmful to the skin, from |


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| | vegetable or animal fat, not containing pork fat. Product must be fit for human utilisation and be of sound, fair, and marketable quality. |
| Type | Foaming hand wash |
| Content | Fatty acid: minimum 70 %. NaOH content: maximum 0.3 %. |
| Colour | Homogeneous colour |
| Scent | Without any disagreeable odours and flavours. |
| Size | minimum 5.5x10x3cm |
| Weight | 250g |
| Packing | Packing Bars individually packed in nylon bag film sealed and enclosed on all edges. At least 40 bars of 250g per carton. |

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| Aqua tab/NaDCC |  |
| Indication. | Chlorine water disinfection at the household level. Must be suitable for use with water and for human consumption. |
| Description: | Effervescent tablets contain a set amount of sodium dichloroisocyanurate (also called NaDCC, sodium troclosene or sodium dichloro-s-triazinetrione): tablets release the required amount of chlorine when dissolved in water. |
| Certifications | The anhydrous sodium dichloroisocyanurate (NaDCC) |


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| | compound must be certified by NSF International (or a delegated authority) in compliance with NSF/ANSI standard 60. The product must also comply with the EN 12931:2000 standard. |
| Packaging | Tablets must be packaged in foil strips. Batch number, manufacturing date and expiry date must be recorded on each strip. Strip must have user instructions and be clearly marked: DO NOT SWALLOW TABLET |

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| <p>11) Reusable Sanitary Pad</p> |  |
| <p>Material.</p> | <p>Top: Absorbent layer of Micro fleece 100% Polyester or 100% cotton (towel type). Inside: The absorbance part consists of at least two additional layers of 100% cotton (towel type) or 2 absorbent layers of Micro fleece,80% polyester and 20% polyamide. Bottom: Waterproof layer of Polyurethane Laminate (PUL)</p> |
| <p>Shape</p> | <p>Winged</p> |
| <p>Stitching</p> | <p>Firmly stitched with overlock, using soft non-irritating thread.</p> |
| <p>Colour</p> | <p>Pink or blue colours. Colour well fixed on the pad (the towel being immersed in clear water, the water should not be coloured in the colour of the pad).</p> |
| <p>Absorption</p> | <p>The pad must have an absorption capacity of at least 40ml. (absorbant) OR 60ml (super absorbant).</p> |
| <p>Length</p> | <p>28cm. Tolerance: +/- 5% %</p> |


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| Width | Width 20cm. Tolerance: +/- 5% |
| Thickness | |
| Includes | Button Plastic snap button, diameter Minimum 12mm. Metal snap buttons not accepted. |
| General Quality | Soft, no bad smell, no skin irritation. |
| Includes | Waterproof bag for sanitary towel |
| Packing: | Primary pack: good quality transparent sealed polythene bag made of virgin polythene including 6 to 8 sanitary pads and waterproof bag |

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| Jerry Can 20 L |  |
| Description | Heavy-duty plastic jerrycan with a built-in carrying handle |
| Material. | Material Blow moulded from High Density Polyethylene (HDPE). Containing no toxic elements. |
| Manufacturing. | Manufacturing Injection moulded screw cap of 50mm diameter minimum. |
| | Yellow jerry can with red caps. UV treated for long -term outdoor use. Allows users to see the fill-level of jerry cans. without opening the lid. |
| Size | 29.5x21x26.5cm |
| Weight | 300g |
| Capacity | 20 Litres minimum |


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| Packing | The packing must guaranty that the jerrycans will not be damaged while delivery and without intended designed. bended plastic surfaces. |
| Marking | on Jerry Can IOM logo situated in the centre of the 2 largest opposite sides on each jerry can. |

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| Jerry Can 10L |  |
| Description. | Heavy-duty plastic jerrycan with a built-in carrying handle on the top side of the jerry can next to the cap. |
| Material. | Blow moulded from High Density Polyethylene (HDPE). Containing no toxic elements. Manufacturing Injection moulded screw cap of 50mm diameter minimum. |
| Colour. | Yellow jerry can with red caps. UV treated for long term outdoor use. Allows users to see the fill-level of jerry cans without opening the lid. |
| Size. | 24x17.5x26.5cm opposite sides on each jerry can. |
| Weight. | Minimum 250g |
| Capacity. | 10 Litres minimum |
| Packing. | The packing must guaranty that the jerrycans will not |


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| | be damaged while delivery and without intended designed bended plastic surfaces. |
| Marking on Jerry Can | IOM logo situated in the centre of the two largest opposite sides on each jerry can. |

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| Bucket |  |
| Description | Heavy-duty plastic bucket, with metallic handle |
| Material | Virgin HDPE high density polyethylene, and virgin LDPE low density polyethylene |
| Manufacturing | Injection moulded. |
| Design | <p>Reinforced bottom ridge to prevent scraping of the base. Reinforced top to prevent bucket distorting to an oval shape.</p> <ul style="list-style-type: none"> • buckets together Curved join inside base to wall for easy cleaning. |
| Dimension | <p>+/-5% Height: 26.5cm, top diameter: 29cm, base diameter: 21cm.</p> <p>Cover with outlet of 50mm +/- 10% and clip cap. not be pressed one in other to avoid blocking the</p> |


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| Colour | Neutral colour. |
| Weight | 100g |
| Capacity | 10 Litres minimum larger than the box in width and length (e.g. plywood with 20mm thickness). |
| Packing. | In strong boxes of 20 buckets with clipped-on handles? <ul style="list-style-type: none"> • Boxes must have a minimum of 5 ply and reinforced corners. Filled boxes must resist a weight of 230kg applied on a strong rigid board on top of the box (equivalent weight to 6m high stacking) without damage. The board size to be at least 100mm. • The packing must guaranty that the buckets will not be pressed one in other to avoid blocking the buckets together. |


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| Cooking Pot 5L |  |
| Design | With lid. Bowl shaped parameter from the bottom side upwards connected to an inward circular bent and an outward circular extended diameter at the top. need to get measurements and where they are situated? |

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| Capacity | 7 litres minimum |
| Material | Locally made aluminium. Chemical composition of semi products used for the fabrication of articles for use in contact with food. |
| Dimension | +/-5% Top diameter: 27cm, base diameter: 30cm. Thickness 0.5cm |
| Weight | 1.8kg Two aluminium handles on opposite sides, welded and bent upward to allow a hanging bar to pass through. Handles to resist to 20kg load in the normal usage position. |
| Lid | 1mm minimum thickness with strong durable handle. Handle must resist 2kg minimum load |
| Finish | No sharp edges, food grade surface finish |


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| Tray |  |
| Capacity | 1.50-2 litres minimum |
| Material | 200 series stainless steels of appropriate grades. |
| Thickness | min 0.5mm in the centre of the bottom? |
| Diameter | Minimum 40-45cm |
| Weight | 200-250g |

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| Finish | No sharp edges, food grade surface finish Packing Carton |
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| Serving Spoon. |  |
| Capacity | 150ml minimum |
| Material | One-piece solid Aluminium local made |
| Length | 35cm-40cm |
| Thickness | 1mm minimum in the centre of the scoop |
| Finish | No sharp edges, food grade surface finish Packing In bales or cartons |
| Packing | In bales or cartons |


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| Kitchen Knife |  |
| Material | One-piece solid stainless steel attached to a wooden or plastic handle |

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| Length | 29cm |
| Weight | 100g |
| Thickness | min 1mm in the centre of the scoop |
| Packing | 240 knives with protective cover on each per carton |


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| Plastic Basin |  |
| Description. | Heavy-duty plastic bucket |
| Material | Polyethylene |
| Manufacturing | Injection moulded. |
| Design | Curved join inside base to wall for easy cleaning. |
| Dimension | +/-5% Height: 18cm, top diameter: 33cm, base diameter: 23cm. |
| Colour | Neutral colour. |
| Weight | 200g |
| Capacity | 10 Litres minimum |
| Packing | <ul style="list-style-type: none"> • In strong boxes of 60 basins • The packing must guaranty that the buckets will not be pressed one in other to avoid blocking the buckets together. |

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| <p>Cup 0.5L</p> |  |
| <p>Capacity</p> | <p>0.3 litres minimum</p> |
| <p>Material</p> | <p>Stainless steel</p> |
| <p>Handles</p> | <p>Secure weld. Handle to resist to 1kg load</p> |
| <p>Finish</p> | <p>No sharp edges, food grade surface finish</p> |

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| <p>Cup 0.4L</p> | |
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| Capacity | Capacity 0.4 litres minimum |
| Materials | Stainless steel |
| Handles | Secure weld. Handle to resist to 1kg load. |
| Finish | No sharp edges, food grade surface finish |

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| Cup 0.5L |  |
| Capacity | 0.5 litres minimum |
| Material | Stainless steel |
| Handles | Secure weld. Handle to resist to 1kg load |
| Finish | No sharp edges, food grade surface finish |

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| Agro Bag |  |
| Description | Bag 100x100cm, 50kg cap, 200 gsm tarp |
| Colour | Blue (only Blue) |
| Marking | IOM logo on each side. (Big Size logo) |
| Size | 100cm x 100cm. |
| Material | 190g/m2 +/- 20g/m2 tarpaulin with handles and ropes. |
| Finish | Sewn with interlocking stitching on the sides. |
| Strength | Strong and sturdy enough to carry 50kg. |
| Packing | Procured in bales of 50 pieces. |