



# Equipment Catalogue

May 2007  
(Ninth Edition)



Humanitarian Department

Cover photograph: Nega Bazezew, Public Health Engineering Advisor, drilling work. Near Abushuk Camp, Darfur.

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INTERNAL USE ONLY

**May 2007**

This catalogue has been produced by the Oxfam GB Humanitarian Department and is primarily intended for use by Oxfam's programme/project managers, technical, logistics and administrative personnel working in emergency projects overseas. It is to help Oxfam staff become better acquainted with the equipment and to facilitate ordering in an efficient and cost-effective way. It is intended this catalogue will be produced on an annual basis.

This Catalogue contains all the specifications for Oxfam GB stock equipment (and some non-stock items).

Please note that items *written in italics* are not Oxfam stock items, but the Logistics Team can order them as required.

Kits that are ordered using the Oxfam codes may differ slightly from those listed in this catalogue, because current stocks at the Oxfam GB Logistics Warehouse must be used before Oxfam can replace kits with those of updated specifications.

This catalogue is also available on CD-ROM and on the Intranet (<http://intranet.oxfam.org.uk/programme/humanitarian/managing/logistics/logsinfo>)

We have included the approximate price and packing specification in this edition. This information is correct at the time of printing.

Your comments on the contents and layout of this catalogue are very welcome. Please send them to [logadvise@oxfam.org.uk](mailto:logadvise@oxfam.org.uk)

Any questions related to the Public Health Promotion kits please contact the PHP Advisers. Any questions related to the logistics / IT and Admin kits please contact the Supply Team.

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OXFAM USE ONLY

**This Catalogue should be treated as a Repository of confidential information, for the use of Oxfam personnel. Please do not copy to third parties. In the past, various suppliers have requested a full set of specifications, however we will only share the sections pertinent to that supplier, e.g. part of the Storage Section to tank manufacturers.** Where suitable local suppliers are identified, it is suggested that they provide kits/equipment according to Oxfam specifications. If required local suppliers could be given the specification for the item they wish to produce, however in order to preserve the confidentiality of this information, they should not be given specifications for any other kits.

- The development of the equipment is an ongoing concern of Oxfam's Humanitarian Department, which began in the early 1980s. Today we continue, learning from the experience and trying to change the specifications accordingly, in close co-operation with our suppliers.
- We cannot be responsible to third parties for any problems arising during the use of this equipment.
- We cannot expect other people to do the work that we do, regarding the systematic, responsible and caring development of the equipment, i.e. we do not look for the cheapest, but for quality at a reasonable price. The dissemination of these specifications outside of Oxfam, may bring unforeseen problems which are best avoided.

Therefore, except for Oxfam personnel, we will only copy our specifications to our suppliers while ordering their product.

If Partners or other NGO's would like to obtain an Oxfam catalogue, please check with the Oxford Logistics team before accepting by emailing [logadvise@oxfam.org.uk](mailto:logadvise@oxfam.org.uk)

***What do the codes mean?***

The use of an Oxfam GB Code along with a specification refers to either a kit or an item of equipment.

Most items are held in stock at the Oxfam GB Logistics Warehouse in Bicester.

Other items that are not so commonly used have codes and specifications but they are not held as 'Oxfam stock items'. These are distinguished from Oxfam GB stock items by appearing *in italics* in this document.

Kits/items required for a programme that do not have an Oxfam GB code can still be ordered through the Oxfam GB Logistics Team, but only if complete and accurate specifications are supplied.

The Oxfam GB Code consists of several letters/numbers, which give an indication of what the kit/item is, according to the following designation.

#### **P4-ALLO/1**

- P: Packs/equipment categories e.g. P = Pumping Pack
- 4: Capacity e.g. 4 = 4" Pumpset
- ALLO: Makes by different suppliers, which have differences in specification e.g. Atalanta supplied 4" pump, with Lombardini engine
- /1: Number after the slash corresponds to specification modification number, starting from number 1

## GUIDELINES FOR ORDERING EQUIPMENT:

1. When ordering non-stock items or large-scale equipment, such as drilling rigs, staff are strongly advised to contact the relevant Oxford PHE adviser before filling out the requisition. The exact specifications must be confirmed before the SR is sent to logistics.
2. Any Orders must be requested by filling a standard Oxfam GB Requisition form, with all information relating to quantities, kit codes (where applicable), full budget code, and consignee address (including telephone and fax numbers), method of transport required given on each requisition. Always **double-check** the requisition to avoid errors.
3. The requisition must be authorised by the appropriate budget holder, and then be given to the local logistics team who will then process it and order the required goods from the appropriate source (next Oxfam office or local suppliers).
4. All orders to be supplied by the Oxfam Logistics Warehouse must be reviewed and emailed to [requisition@oxfam.org.uk](mailto:requisition@oxfam.org.uk) by the Country Logistics Team or the Regional Logistics Team if the regional office centralise the international orders.
5. Items that are listed in the Catalogue should be identified using the Oxfam GB code and description. Any item(s) required that are a part of Oxfam GB kits, which need to be ordered separately, should be specified in the following way: 2 No Corrugated galvanised steel sheets (item 1 from Oxfam Code T11 – 11 m<sup>3</sup> Tank complete) Please refer to current specifications to establish which item number to use. If any item(s) required are not Oxfam stock items, a full description of what is required needs to be given to avoid delays.
6. Where possible try to keep orders for equipment grouped together on a few requisitions, rather than generate a large number of requisitions with one or two items on each. Equipment should be grouped together in the kits/equipment categories, e.g. D for distribution, T for tanks.
7. Please take care to ensure that all orders are clear, complete, and correct at the time of sending. It is difficult to revise orders at a later date.
8. The standard Oxfam GB emergency kits, as listed in the Oxfam GB equipment specifications and in this Catalogue, are designed and stocked for 'off the shelf' use. The Logistics Team can normally supply these items quickly and relatively easily. Any non-standard equipment requested generally takes longer and is more work to supply. A document stating approximate lead-times is accessible on the intranet logistics website:

<http://intranet.oxfam.org.uk/programme/humanitarian/managing/logistics/warehouse>

9. Kits stored at Logistics Warehouse cannot be broken down for the supply of individual items. If a programme wishes to order any item(s) contained within a kit, the orders will be processed by buying from suppliers and will take longer to process. If a programme urgently requires particular item(s) from a kit, it is suggested that they consider paying the extra money and buy the whole kit. This may seem wasteful, but it might be worthwhile to save time. For more details on specifications of kits, please refer to one of the Technical Advisers in the Humanitarian Department in Oxford.
10. Hazardous goods such as chlorine, chemicals, glues, and gas cylinders present extra complications and cost for freighting. They may have to be sent as a separate consignment to other goods.

**Note: The equipment described in this catalogue is in accordance with the most recent specifications at time of printing. Equipment to earlier specifications will be provided whilst stocks last.**

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## Category A Admin and Accommodation



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<b><i>The items in italics are not Oxfam stock items:</i></b>		
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**A**

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Code AC/3

Catering Kit (for 6 People)

A

Gross weight: 182 kg  
 Volume: 1.22 m<sup>3</sup>  
 Dimensions: 120 x 82 x 124 cm  
 Account Code: 45509  
 Approximate unit cost: £1966.00



Item	Qty	Description
1.	2	Insulated cold box 40 litre
2.	1	Insulated cold box 20 litre
3.	16	Freezer pack
4.	3	Robust multifuel pressurised stove (diesel/petrol/kerosene)
5.	1	Kettle – 4.5 litre
6.	8	Melamine – 4-piece Dinner Service (dinner plate/side plate/cereal bowl/handled mug)
7.	8	Cutlery set – 4 piece, stainless
8.	1	Kitchen knife set – 5 knives plus scissors and block
9.	1	Stainless Ladle – catering quality with curl-back handle
10.	1	Slice – catering quality with curl-back handle
11.	1	Perforated Spoon – catering quality with curl-back handle
12.	1	Serving Spoon – catering quality with curl-back handle
13.	1	Tin Opener
14.	1	Potato Peeler
15.	1	Teapot – 3.5 litre
16.	1	Large Stockpot
17.	1	Stewpan
18.	1	Maslin Pan – a deep sided/multi purpose pan
19.	1	Casserole
20.	1	Large Frypan
21.	6	Foodbox – 1 litre
22.	6	Foodbox – 2 litre
23.	3	Stainless vacuum flask – 1 litre
24.	3	Camp Table – robust leisure quality with solid top
25.	6	Directors Chair – steel frame
26.	3	Hurricane lamp
27.	6	Fold a carrier – 15 litre
28.	3	1.5 litre – plastic bottle
29.	2	Bucket – 2 gallon
30.	2	Washbowl
31.	24	Toilet Tissue



- 32. 1 Washing Line
- 33. 40 Clothes pegs
- 34. 1 Solar shower
- 35. 2 British Berkefeld SS4 c/w candles
- 36. 6 Spare sterasyl candles for above filter – 17cm
- 37. 1 SLK4 including SBG-12110 gel battery – non hazardous for airfreight
- 38. 1 Mirror – folding travel
- 39. 1 Claw Hammer – 16oz with steel shaft
- 40. 1 Nails 3” – 1 kg
- 41. 1 String – 330 lb breaking strain, 132 metres
- 42. 2 Chopping Board
- 43. 6 Linen tea towels

#### Packing and Marking

All items to be packed in single sturdy tri-wall carton, with banding. Carton to be marked “OXFAM CODE AC/3” with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the carton.  
One packing list in a plastic bag to be placed inside the carton.

Specification date: 19<sup>th</sup> March 2007  
Prepared by: Logistics Team

Code ACB/1

Camp Bed

A

Gross weight: 5 kg  
Volume: 0.027 m<sup>3</sup>  
Dimensions: 10 x 102 x 10 cm  
Approximate unit cost: £32.88



Item	Qty	Description
1.	2	Folding camp bed, aluminium frame, 3 'X' leg pattern, 191 x 66 x 41 cm

#### Packing

Each camp bed supplied as a secure canvas roll, with legs inside.

Specification date: 2 October 1996  
Prepared by: Logistics Team

**A**

Code ADC/4

Digital Camera Kit

Gross weight: 2.0 kg  
 Volume: 0.013 m<sup>3</sup>  
 Dimensions: 31 x 24 x 18 cm  
 Account code: 46209  
 Approximate kit cost: £200



Digital camera in carry case, batteries, charger and cables

The current market for digital cameras means that models of camera may vary. The cost could also be different to that specified. Please refer to the Information Systems intranet site for latest specification

Item	Qty	Description
1	1	Digital Camera, durable and easy to use. Smooth digital zoom, compact flash card, batteries, USB cable, serial cable for Windows, Macintosh serial adapter, video cable, user's guide, neck strap, software CD-ROM.
2.	1	Case
3.	1	Charger, rechargeable NiMH batteries with battery charger and universal plug
4.	1	Spare memory card

#### Packing and Marking

All items to be packed in a sturdy carton. Carton to be marked "OXFAM CODE ADC/4" with gross weights and dimensions clearly shown

Specification date: 1 March 2007  
 Prepared by: Logistics Team

Code ALP/18

Laptop Computer

A

Gross weight: 8 kg  
 Volume: 0.108 m<sup>3</sup>  
 Dimensions: 47 x 47 x 49 cm  
 Account Code: 46203  
 Approximate unit cost: £840



A laptop computer with backpack case, internal modem and cables.

See IS Department Intranet site for latest specification

Item	Qty	Description
1.	1	Oxfam specification laptop computer with integrated data/fax modem, CDRW/DVD ROM, built-in network adaptor 100 BaseTx and 10 BaseT, cable RJ11 (M) to RJ11 (M) with US to UK telephone adapter, charger fitted with 2-pin plug. <b>Laptop to be tested and configured by the supplier.</b> <b>Pre-loaded on computer:</b> Set of standard office software including Windows, Microsoft Office Pro (with Word and Excel), Lotus Notes or cc:Mail.
2.	1	Backpack
3.	1	CDRW 5 pack disks slim case
4.	1	3-pin to 2-pin Universal Plug Adapter (Oxfam code AUP)
5.	1	Surge Protector plug – PP1 pulse protector with light indicator. Internal three-mode surge protection (L-N, L-E, N-E). Maximum current surge handling of 8/20us. Noise free operation with automatic reset. Conforms to BS1363 and BS6651 Appendix C.
6.	1	USB mouse, two buttons with scroll wheel
7.	1	USB Flash Memory
8.	1	Laptop Desk Lock
<b>Additional items, only supplied when requested:</b>		
9.	1	Serial/USB Adapter
10.	1	12 V DC to 220 V AC 'Mastervolt' Inverter capable of powering laptop, and printer. 250 W portable type – with 2 x 13 A UK socket outlets. Trapezoidal output wave. Supplied with a 3m length of cable terminated with crocodile clips. 4 x 30 amp spade fuses to be provided as 2 spare sets of fuses with the inverter. (AC Inverter – Oxfam code KI)
11.	1	13 A automatic voltage switcher (AVS), fitted with 2 pin input plug, outlet via a 13 amp UK-type socket, outlet 3 pin (Oxfam code AVS)

**User's Notes**

- The model and make of laptop and standard set of software loaded will change regularly with recommendations from the Oxfam IS Department.
- Laptop computers are supplied with e-mail software (Lotus Notes or cc:Mail) installed. For assistance with the use of e-mail software, contact your Regional Information Systems Manager (RISM) or the Information Systems Team in Oxford. The Logistics Team can arrange for the software to be set up for a specific user before being shipped: if this is required, please specify the name of the user at the time of ordering, and allow an extra 48 hours.
- If an inverter is used, it should be wired up correctly to the battery. Reverse polarity from incorrect battery connection will cause either the fuses to blow or damage the inverter unit itself. Two sets of spare fuses are provided in the event of the fuses blowing. If the inverter is damaged it will be beyond repair.

**Packing and Marking**

The IS Department will test all laptop computers (item 1 only) before sending them to the Logistics Warehouse.

Laptops are generally hand carried to destination. However, where they need to be shipped as freight, they shall be packed in a sturdy tri-wall carton at the Oxfam Logistics Warehouse, and to be marked "OXFAM CODE ALP/18" with weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fastened to the outside of the carton.  
One packing list in a plastic bag to be placed inside the carton.

Specification date: 27 February 2007

Prepared by: Logistics Team

Code ALS/1

Logistics Start Up Kit



Gross weight: 78 kg  
 Volume: 0.271 m<sup>3</sup>  
 Dimensions: 90 x 70 x 43 cm  
 Approximate kit cost: £752.47

Item	Qty	Description
1.	3	Logistics and Supply Procedures Manual
2.	3	Communications manual
3.	3	Equipment Catalogue
4.	1	Stationery Kit (Comprehensive)
5.	3	Satellite Phone Procedures and Costs
6.	3	Intranet CD
7.	1	Tape Gun (For use with "AOT" tape)
8.	12 Pair	Safety Gloves
9.	1	Interlocking Stencils Set 50mm A-Z
10.	1	Interlocking Stencils Set 50mm 1-9
11.	1	Stencil Ink & Brush Kit
12.	2	Oxfam Logistics Stamp
13.	5	Receipt Book
14.	100	Bin Card
15.	5	Requisition Book
16.	5	Request For Quotation Book
17.	5	Purchase Order Book
18.	5	Stock Request Book
19.	5	Waybill Book
20.	5	Goods Received Note Book
21.	5	Payment Voucher Book
22.	1	Travel Adaptor 3 pin to 2 pin (Code AUP)
23.	10 rolls	Oxfam logo tape (Code AOT)
24.	10	Large Vehicle Sticker (Code VOL)
25.	10	Small Vehicle Sticker (Code VOS)
26.	10	No Guns Sticker (Code VS)
27.	5	Vehicle Log Book (Code VLB)

#### User's Notes

The ALS kit can be used for a new emergency start-up, and for new offices or existing offices that cannot obtain the items locally.

**Packing and Marking**

All items to be packed in a waterproof ply crate, marked 'OXFAM CODE ALS', with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list to be included in the carton.

One packing list to be securely fastened to the outside of the carton.

Specification date: 14<sup>th</sup> March 2007

Prepared by: Logistics Team

## Code ALT/3 Large Tent for use as an Office, Store or Clinic

A

Gross weight: 130 kg  
 Volume: 0.452 m<sup>3</sup>  
 Dimensions: 35 x 239 x 54 cm  
 Approximate unit cost: £613



5 m x 5.5 m tent with two openings.  
 Colour: white. Solid, wind-resistant,  
 waterproof, anti-rot. Life duration:  
 Minimum 1-year in tropical climates.

Item	Qty	Description
1.	1	<p>Frame tent complete, approx dimensions, 5.5 m long, 5 m wide, 2.50 m high to centre. Features:</p> <ul style="list-style-type: none"> <li>• Single roof rectangular tent with two entrances</li> <li>• Ground surface: 27.5 m<sup>2</sup></li> <li>• Maximum capacity: 12 persons</li> <li>• Length: 550 cm, width: 500 cm</li> <li>• Central Height: 250 cm, wall height: 180 cm</li> <li>• Tent: 50/50 polycotton waterproof and anti-rot, white</li> <li>• GSM: 430 g/m<sup>2</sup></li> <li>• Ground strip: polyester covered with PVC, 550 g/m<sup>2</sup>, white</li> <li>• Frame: steel galvanised tubes</li> <li>• 4 windows, 60 x 60 cm, with mosquito net and flap</li> <li>• Two small openings for electric cables</li> <li>• Liaison strip for joining two tents</li> <li>• Can be closed from the inside or outside with sturdy buttons (two rows) and overlaps</li> <li>• The tent is secured via elastic tighteners aligned along both sides, and a storm cable at each corner</li> </ul>
2.	1	<p>Waterproof anti-rot bag with six carrying handles containing:</p> <ul style="list-style-type: none"> <li>• Spare tightener, rubber</li> <li>• Club hammer, 1250 gr</li> <li>• Pegs</li> <li>• Tent – item 1</li> </ul>

## User's Notes

- Article sent with setting up instructions in English, French, and Spanish
- This tent is a utility tent for office or team use.
- Six persons are needed to transport it, and three to erect it.
- Whenever possible, avoid erecting the tent under trees, as this will lead to rotting.
- Use all the fixations, to ensure maximum stability.
- It is possible to link several tents with the liaison strip.
- Impervious: no need for a double roof.
- Do not disinfect the tent with a chlorine solution, which would attack the cotton and weaken or perforate the tent.



- Make sure that the tent is totally dry and the set is complete before storing it away.
- This tent was developed by MSF with several European manufacturers, in order to guarantee its quality. Do not buy locally produced copies.

#### Packing and Marking

All items to be packed in the bag provided, then packed in a single tri-wall cardboard carton with banding, and padded protection to tent poles to prevent crushing. Carton outer to be marked 'OXFAM CODE ALT/3', with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

#### Packing List

- One packing list to be included in the carton.
- One packing list to be securely fastened to the outside of the carton.

Specification date: 24 April 2003  
Prepared by: Logistics Team

Code AND/2

Double Mosquito Net

A

Gross weight: 0.5kg  
 Volume: 0.0046m<sup>3</sup>  
 Dimensions: 34 x 27 x 5cm  
 Approximate unit cost: £4.71



Item	Qty	Description
1	1	Double mosquito net. 160 x 180 x 150 cms. Permanet 2.0 is a long lasting, insecticide-impregnated mosquito net. Made of 100% polyester, Permanet is impregnated with deltamethrin at the rate of 55mg/m <sup>2</sup> . Deltamethrin has undergone the WHO Pesticide Evaluation Scheme (WHOPES) Permanent maintains efficiency for more than 20 washes
2	20m	Light weight string suitable for suspending mosquito net
3	6	2" nails to be used as fixing points for net

#### Packing

Each net to be packed in its own bag

Specification date: 23<sup>rd</sup> March 2007  
 Prepared by: Logistics Team

**A**

Code AOS/1

Oxfam T-Shirts

Gross weight: 0.1 kg  
 Volume: 0.000 m<sup>3</sup>  
 Dimensions: 12 x 10 x 1 cm  
 Approximate unit cost: See below



Item	Qty	Description
1.	1	T-shirt, light grey background with Oxfam logo in green (PMS376) on front, back and right sleeve. (Front and back – logo 9 cm dia. and lettering 5 cm high. Sleeve – logo 3.5 cm dia. and lettering 1.5 cm high)

Code	Size	Approximate unit cost
AOSM/1	Medium – chest size 97–106 cm	£4.23
AOSL/1	Large – chest size 106–112 cm	£3.68
AOSXL/1	Extra large – chest size 114–117 cm	£3.25

Specification date: 22 August 2002  
 Prepared by: Logistics Team

Code AOT/1

Oxfam Logo Tape

Gross weight: 0.3 kg  
 Volume: 0.001 m<sup>3</sup>  
 Dimensions: 12 x 12 x 5 cm  
 Approximate unit cost: £1.46



Item	Qty	Description
1.	1	1 roll Oxfam logo tape, 5 cm wide, white with green (PMS376) logo

Specification date: 3 March 2000  
 Prepared by: Logistics Team

Code AP/3

Personal Equipment for One Person

A

Gross weight: 42 kg  
 Volume: 0.489 m<sup>3</sup>  
 Dimensions: 108 x 73 x 62 cm

Approximate unit cost: £742.54



Item	Qty	Description
1.	1	Storage box – lockable, aluminium
2.	1	Padlock and 3 keys
3.	1	Elite 2 – two-season sleeping bag
4.	1	Poly-cotton YHA-style rectangular sleeping bag liner
5.	1	Laken rigid plastic 1.5 litre water bottle
6.	1	Petzl Head Torch – 4 high output LEDS for 150 hrs use on 3 x AAA batteries
7.	6	AAA batteries
8.	1	Sunblock – Uvistat factor 30
9.	1	Victorinox knife (Recruit)
10.	1	Directors chair
11.	2	Insect repellent – Repel liquid
12.	2	Micropur MT1 (50 tablets/pack)
13.	1	Water fold-a carrier 15 litres
14.	1	Mosquito net (permethrin treated to WHO spec) – 9 m circle
15.	1	Permethrin treatment kit
16.	1	Camp bed – 'X' leg aluminium pattern
17.	1	BP solar lantern SL48
18.	1	Mirror – folding, travel
19.	1	String – 132 metres, 330 lb breaking strain

#### Packing and Marking

All items to be packed in a single sturdy tri-wall carton with banding. Carton to be marked "OXFAM CODE AP/3" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to outside of box.  
 One packing list in a plastic bag to be placed inside box.

Specification date: 29<sup>th</sup> March 2007  
 Prepared by: Logistics Team


**Code APW/1 Personal Equipment for One Person - Winterised**

Gross weight:  
Volume:  
Dimensions:

Approximate unit cost: £311

This kit should be ordered in addition to the Personal Equipment Kit Oxfam Code AP when working in low temperature or mountainous conditions.

Item	Qty	Description
1.	1	Sleeping Bag, 4 season, for sub zero temperatures (down to -17°C). Weight 2.26 kg.
2.	1	Insulated Sleeping Mat - a compact closed-cell foam pad that folds quickly into a tight easy to pack unit. Comfortable insulator.
3.	1	Emergency Blanket to prevent super cooling
4.	1	Gas Heater for use in tent – care must be taken when using to prevent risk of fire and Oxygen depletion. Gas cylinders should be procured locally
5.	1	Tent, 4 seasons, suited for mountain environments. Large sleeping quarters in inner tent with spacious storage area. Fire retardant materials. Weight 5.45kg, 415cm x 170cm footprint

**Packing and Marking**

All items to be packed in a single sturdy tri-wall carton with banding. Carton to be marked "OXFAM CODE APW/1" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fixed to outside of box.  
One packing list in a plastic bag to be placed inside box.

Specification date: 29<sup>th</sup> March 2007  
Prepared by: Logistics Team

Code APR/3

Portable Printer Kit

A

Gross weight: 4 kg  
 Volume: 0.018 m<sup>3</sup>  
 Dimensions: 40 x 20 x 23 cm  
 Account Code: 46204  
 Approximate unit cost: £248



Item	Qty	Description
1.	1	Portable printer with printer cable and rechargeable battery
2.	1	Additional battery for printer
3.	2	Spare cartridges for printer (1 colour, 1 black & white)
4.	1	3-pin to 2-pin Universal Plug Adapter (Oxfam code AUP – from Logistics Warehouse, Bicester)

#### User's Notes

The model and make of printer depicted may be replaced by a similar model from one of the major manufacturers, with recommendations from the Information Systems Department in Oxfam.

#### Packing and Marking

All items to be packed in a sturdy tri-wall carton, marked "OXFAM CODE APR/3" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to outside of box.  
 One packing list in a plastic bag to be placed inside box.

Specification date: 4 April 2007  
 Prepared by: Logistics Team

**A**

Code AS/3

Stationery Kit

Gross weight: 166 kg  
 Volume: 0.55 m<sup>3</sup>  
 Dimensions: 100 x 100 x 55 cm  
 Account Code: 47430  
 Approximate unit cost: £390

Item	Qty	Description
1.	6	Blutac – economy
2.	10	Solar calculator, pocket size, Casio HS-8 or similar
3.	1	Desktop calculator, HR8 or similar
4.	2 pack	Batteries, pack of 4 AA
5.	1 pack	Adding Machine paper rolls, pack of 20
6.	10	Clipboards PVC, black
7.	2	Rubber stamp, date + phrase
8.	2	Stamp pad, black
9.	1	Eraser, pack of 20
10.	10	Glue stick
11.	10 rolls	Self-adhesive address labels, 3.5" x 1.5", roll of 250 in box dispenser
12.	10	Letter tray
13.	1 box	Large paper clips, plain, box 1000
14.	1 box	Small paper clips, plain, box 1000
15.	10	Pencil sharpener
16.	1 box	Drawing pins, box of 150
17.	2	Two-hole punch
18.	2	One-hole punch
19.	10	Ruler, plastic, 12"
20.	5	Scissors
21.	10	Stapler
22.	1 box	Staples for above, box of 5000
23.	1	Heavy duty stapler
24.	1 box	Staples for above, box of 5000
25.	10	Staple remover
26.	6 rolls	Clear adhesive tape
27.	10	Two ring binders, green
28.	10	Two ring binders, red
29.	10	Two ring binders, black
30.	20	Carry file wallets, blue
31.	2	Elasticated folder
32.	20	Magazine racks, black
33.	30	Dividers
34.	3 boxes	Pens, medium, blue, box of 20



35. 3 boxes Pens, medium, black, box of 20
36. 3 boxes Pens, medium, red, box of 20
37. 2 boxes Pens, medium, green, box of 20
38. 1 box Pens, roller ball, black, box of 10
39. 1 box Highlighter pens, yellow, box of 10
40. 1 box Highlighter pens, pink, box of 10
41. 1 box Highlighter pens, green, box of 10
42. 1 box Marker pens, black, box of 12
43. 1 box Dry wipe marker, black, box of 10
44. 1 box Dry wipe marker, red, box of 10
45. 1 box Dry wipe marker, blue, box of 10
46. 1 box Pencils, box of 12
47. 10 Correction fluid
48. 5 Triplicate book
49. 10 Notebook
50. 10 A4 refill pads, pack of 10  
packs
51. 3 packs Plastic wallets, clear, pack of 100
52. 2 packs Post-it notes, pack of 12
53. 2 reams A4 paper for copiers
54. 3 Petty cash book
55. 2 packs Security name badges, pack of 100
56. 2 Cash box
57. 1 box C4 Envelopes, manilla, box of 250
58. 1 pack DL Envelopes, manilla, pack of 50
59. 1 box CDRW Disks 700Mb pack of 10
60. 5 boxes Keyrings, box of 10

#### Packing and Marking

All above items to be packed into item 61 – 2 x Oxfam code OB2 tool box (2 padlocks and keys to be included). The tool boxes should be repacked in a single plywood case after packing and marked "OXFAM CODE AS/3" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to outside of each box.  
One packing list in a plastic bag to be securely fixed to outside of case.

Specification date: 4<sup>th</sup> April 2007  
Prepared by: Logistics Team

**A**

Code ASB/1

Sleeping Bag

Gross weight: 2 kg  
Volume: 0.019 m<sup>3</sup>  
Dimensions: 22 x 40 x 22 cm  
Approximate unit cost: £20.93



Item	Qty	Description
1.	1	Three-season sleeping bag 'Elite 2' 214 x 68 cm (length x shoulder, external dimension), mummy shaped, weight 1.8 kg, full-length double zip, cowl hood, zip and shoulder baffles, complete with stuff sack. Nylon outer, cotton inner, double layer hollow fibre insulation (no through stitching), nominal rating to -5°C

Specification date: 4 September 1996  
Prepared by: Public Health Team

Code ASHK/3

Staff Health Kit

A

Gross weight: 0.8 kg  
 Volume: 0.004 m<sup>3</sup>  
 Dimensions: 20 x 20 x 20 cm  
 Account Code: 45549  
 Approximate unit cost: £29.67



This kit is issued to travellers going to areas where first aid items are difficult or impossible to obtain. In areas where first aid equipment is difficult to obtain, **all** staff travelling outside an urban area should have access to a first aid travel kit to take on their journey.

This kit is only available from the Staff Health Service in Oxford, and will only be issued to the person actually travelling.

Item	Qty	Description
1.	1	Crepe bandage, cotton, 5 cm x 4 m
2.	1	Triangular bandage, woven I/W
3.	1 pkt	Leukostrip closures, 4 x 76 mm
4.	20	Washproof plasters, assorted JWS
5.	1	Leukopor tape, 1.25 cm x 9.2 m in mini-grip bag
6.	1	Washproof dressing strip, 7.5 cm x 1 m
7.	7	Antiseptic wipes, non-alcohol
8.	1	Skintac non-adherent dressing, 5 x 5 cm
9.	2	Wound dressing
10.	2	Eye pad with bandage, no. 16
11.	1	Tempa Dot Thermometer, disposable
12.	1	Scissors 5" B/S, stainless steel
13.	1 pair	Forceps splinter 4½" Martins, stainless steel
14.	1	Gloves, latex, medium – in mini grip bag
15.	1	Centrimide cream, 50 g – antiseptic
16.	1	Anthisan cream, 25 g – antihistamine
17.	1	Canestan cream 1%, 20 g – antifungal
18.	1	Insect repellent stick, 25 g
19.	8	Betadine paint, 8 ml
20.	1	Dioralyte sachets, natural – rehydration salts
21.	1	Imodium capsules, pack of 8 – for diarrhoea
22.	1	Asprin tablets, 300 mg, pack of 32
23.	1	Paracetamol tablets, 500 mg, pack of 32
24.	1	Senocot tablets, pack of 20 – for constipation
25.	1	Puritabs, water purifying tablets, pack of 12
26.	1	Isolide MTM device



27. 3 First Aid Guidance Notes (UK Health & Safety Executive)
28. 1 Oxfam emergency suture and injection pack (Oxfam code ASK) in mini grip bag, containing:
- 1 x 5 ml hypodermic syringe
  - 1 x 2 ml hypodermic syringe
  - 2 x injection swabs
  - 2 x Hypodermic needles, 23g x 1"
  - 2 x Hypodermic needles, 25g x 5/8"
  - 2 x Emergency sutures, c/w needles
  - 2 x Butterfly cannula winged infusion set
  - 1 x Contents label/date of manufacture, etc.
29. 1 List of contents and Oxfam User's Notes
30. 1 Navy blue zipped pouch containing all the above items

#### User's Notes

- This kit can only be obtained from the Staff Health Service or through an approved member of health staff in the field location. This is to ensure that users are inducted by health staff on how best to administer and manage the contents. To obtain this kit please contact Staff Health Service on +44 (0) 1865 473865.
- This kit has been supplied in response to specific requests from travellers and from field offices. It is extremely difficult to monitor the use of these kits from Oxford, and constructive feedback from the field would be appreciated.
- It is important that the person issued with the kit takes responsibility for it by ensuring that:
- it is stored out of reach of children and in a secure location to avoid theft, abuse or misuse;
- that the kit contents are only administered to, or by, the person issued with the kit;
- contents are checked and where necessary replaced after use or when expired.
- **The kit is for your personal use in environments where the contents are not readily available. Please take care of them.**
- **Please return unused items to the Staff Health Service in Oxford for recycling.**
- **The Syringe Kit (item 28) is intended for the use of medically qualified personnel who may be asked to treat Oxfam staff, and who do not have access to sterile disposable equipment.**

Specification date: 25 February 2002  
 Prepared by: Staff Health Service

Code ASTDD/3

Tent Double Dome for Mixed Conditions

A

Gross weight: 19 kg  
 Volume: 0.084 m<sup>3</sup>  
 Dimensions: 93 x 30 x 30 cm  
 Account Code: 45508  
 Approximate unit cost: £184.24



Item	Qty	Description
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1.	1	Double Dome Lightweight Tent: <ul style="list-style-type: none"> <li>• Materials: nylon flysheet, nylon inner tent.</li> <li>• Overall size: 660 cm x 250 cm x 185cm</li> </ul> Weight: 18.7 kg
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#### User's Notes

A tent for sleeping up to four people. The main structure provides a central area for sitting or eating, plus porches on both sides, which house the two inner tents. With window vents on both porches and front and rear doors.

Dome tents offer lightness combined with spaciousness. They are being favoured over smaller frame tents because of their size, and speed of erection. Colours may vary

#### Packing and Marking

To be packed in a sturdy tri-wall carton, marked "OXFAM CODE ASTDD/3" with gross weight and dimensions clearly shown.

#### Packing List

One packing list to be placed inside the carton.  
 One packing list to be securely fastened to the outside of the carton.

Specification date: 25 April 2007  
 Prepared by: Logistics Team

**A****Code AUP/1****Universal Adapter 3-Pin to 2-Pin**

Gross weight: 0.1 kg  
 Volume: 0.000 m<sup>3</sup>  
 Dimensions: 6 x 5 x 5 cm  
 Approximate unit cost: £5.85  
 Account Code: 46075



Item	Qty	Description
1.	1	3-pin (UK) to 2-pin universal adapter. The TRA-3 travel plug takes 13 A (3-pin) and 5 A (2-pin) electric plugs for earthed and non-earthed appliances.
2.	1	Instructions from supplier

Specification date: 22 November 2000  
 Prepared by: Logistics Team

**Code AUP2/1****Travel Adapter 2-Pin to 3-Pin**

Gross weight: 0.1 kg  
 Volume: 0.000 m<sup>3</sup>  
 Dimensions: 6 x 6 x 5 cm  
 Approximate unit cost: £3.33



Item	Qty	Description
1.	1	2-pin to 3-pin (UK) Travel Adapter TCN-03 tested to British Standard (BS5733) for use with electrical appliances rated up to 13 A
2.	1	Instructions from supplier

Specification date: 22 November 2000  
 Prepared by: Logistics Team

Code AVS/1

Automatic Voltage Switcher 13 A

A

Gross weight: 0.6 kg  
 Volume: 0.001 m<sup>3</sup>  
 Dimensions: 6 x 21 x 11 cm  
 Approximate unit cost: £56.05



Item	Qty	Description
1.	1	Automatic voltage switcher, 13 A, 230 V. For protection of electrical appliances from unreliable mains, or generator. Fitted with a UK 3-pin plug.

#### User's Notes

- This AVS protects appliances from damage, from under voltage, over voltage and from 'power back' transients.
- Please make sure that your load does not exceed the rating of the AVS. The limits of the AVS are set for 190–260 volts.
- The AVS will disconnect if the mains go outside the preset limits (the window), and will re-connect automatically after about 1 minute of the supply returning and remaining within the window.
- On first switching on, **there will be no output for the wait time of approximately one minute** while the AVS monitors the mains. For that period the yellow LED indicates that the mains are within acceptable limits, after which the green LED goes on and the load is connected. The red LED indicates that the mains supply is outside the window, and the load is disconnected.
- **It is recommended that the AVS is kept switched on, and the appliance switched on and off to prevent activating the time delay every time the appliance is switched on.**

Specification date: 4 September 1996  
 Prepared by: Logistics Team

**A**

Code AX1B/1

Water Filter SS4

Gross weight: 3 kg  
 Volume: 0.023 m<sup>3</sup>  
 Dimensions: 43 × 23 × 23 cm  
 Approximate unit cost: £42.32



Item	Qty	Description
1.	1	<p>Berkefeld Stainless Steel Gravity Water Filter            for use where a mains water supply does not exist or is unreliable, to provide clean safe water for drinking or cooking. Supplied with four Super Sterasyl elements (18 cm size) and tap.            Capacity: 9 litres. Output per 24 hours: 80 litres</p>

#### User's Notes

- To use, fill the top container with raw water, leave for between 1–3 hours, then draw off the water from the tap in the lower container.
- The upper container should be topped up regularly, taking care not to overflow.
- If the filter is not used for more than three days, then allow water to run to waste for 1 minute.
- The Super Sterasyl grade elements are self-cleaning and do not require boiling.
- However, the element may progressively block-up as it is designed to remove very fine particles, and bacteria. When this occurs, remove the element and scrub the surface with a stiff brush under running water or in a bowl, ensuring that the threaded portion does not get contaminated. Never use soap or detergent. Whilst cleaning the element, carefully inspect for cracks or damage which may impair its efficiency.
- It is important to remember that the outer surface of the dirty element may be covered in harmful bacteria so sensible hygiene precautions should be taken during handling, cleaning, refitting into the housing, or disposal of the candle.
- If cleaning fails to restore the flow then the element should be changed.
- **Super Sterasyl elements should be changed every six months.**
- Please order Oxfam code AZF – Super Sterasyl candle (quantity of four per Oxfam code AX1B).

Specification date: 5 August 1996  
 Prepared by: Logistics Team

**Code AZF/1 Super Sterasyl Candle for Code AX1B Water Filter**

Gross weight: 0 kg  
Volume: 0.000 m<sup>3</sup>  
Dimensions: 8 x 3 x 3 cm  
Approximate unit cost: £4.85

<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	1	Super Sterasyl Element (18 cm) designed for use in all the Berkefeld Gravity Water Filters. Supplied on long (1 5/8") plastic mounts terminating in a 1/4" BSP male thread. Wingnuts and sealing washers are supplied for each element. Reduces to safe levels: bacteria, cysts, chlorine, rust and sediment, taste & odour, organic chemicals.

Specification date: 3 November 1997  
Prepared by: Logistics Team

**A****Code AAT/1****Asset Tags*****This is a non-stock item***

Approximate unit cost: £136 (1000), £165 (2000)  
 Lead Time 10 days (delivery time to  
 Bicester Warehouse, not the  
 programme)



*Self-adhesive unique ID tags for use on asset traceable items in the office or field*

<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	1	Roll 1000 or 2000 anodised aluminium foil asset tags, self adhesive, with Oxfam logo. Available in red, green, blue or black

#### **User Notes**

*Please state quantity, colour and asset ID range (e.g. 1001 – 2000) and text when ordering*

Specification date: 26<sup>th</sup> March 2007  
 Prepared by: Logistics Team

**Code ADP/1****Data Projector****A****This is a non-stock item**

Gross weight:

Volume:

Dimensions:

Approximate kit cost: £640



<b>Item</b>	<b>Qty</b>	<b>Description</b>
1	1	Data Projector with integrated speakers for audio output. Accepts most forms of video inputs including PAL, NTSC, RGB and S video. Complete with power and data leads
2.	1	Remote Control with Battery
3.	1	Carry Case
<b>Optional</b>		
4..	1	Spare Projector Bulb (approx cost £260)
5.	1	Extended Warranty

**User's Notes**

Although Logistics will source and order Data Projectors, it is important to emphasise there is no structure for after sales support for them within Oxfam.

Therefore the end user(s) should make every effort to familiarise themselves with the operating instructions and ensure the registration/warranty card is completed and returned immediately upon receipt.

It is highly recommended that an extended warranty be purchased with the unit although this is optional.

It is also important to note that the Bulbs in these units have a limited life span of 'normally' around 350-400 usage hours per bulb and are costly to replace so great care should be taken to limit the usage and protect the bulb/unit from suffering sharp knocks.

**Packing & Marking**

All items to be packed in robust carry case

If this item is to be shipped by airfreight, then the Logistics Warehouse must pack it in a suitable Triwall carton and ensure that it is marked with "Oxfam Code ADP/1" with gross weights and dimensions clearly shown

Specification date: 1 March 2007

Prepared by: Logistics Team

**A****Code ALA/1****Laminator Kit*****This is a non-stock item***

Gross weight: 4 kg  
 Volume: 0.02m<sup>3</sup>  
 Dimensions: 53 x 25 x 14 cm  
 Approximate kit cost: £110.00  
 Lead time: 5 days (delivery time to  
 Bicester Warehouse, not the  
 programme)



<b>Item</b>	<b>Qty</b>	<b>Description</b>
1	1	Laminator, A4, with power cord
2.	1	Pack A4, 150 micron laminating pouches, 100 per
3.	1	Pack Badge Pouches 360 micron, 50 per

**Packing**

*If this item is to be shipped by airfreight, then the Logistics Warehouse must pack it in a suitable Triwall carton and ensure that it is marked with "Oxfam Code ALA/1" with gross weights and dimensions clearly shown*

Specification date: 20<sup>th</sup> March 2007  
 Prepared by: Logistics Team

**Code APC/3****Photocopier Kit****A****This is a non-stock item**

Gross weight: 41 kg  
 Volume: 0.17m<sup>3</sup>  
 Dimensions: 65 x 47 x 55 cm  
 Approximate unit cost: £557



A desktop networkable photocopier that can also scan and print

<b>Item</b>	<b>Qty</b>	<b>Description</b>
1	1	Canon IR 1018 Desktop digital black and white copier / printer and colour scanner with duplex function. Fully networkable for office setup or single PC /laptop connection via Ethernet & USB port. 18 copies per minute, 600 dpi digital copy print quality, 500 sheet A4/A5 paper tray, 128mb RAM
2	2	Spare Toner Cartridge (7000 print yield)
3	1	USB Printer Cable
4	1	Box A4 copier paper (2500 sheets)
5	1	13A AVS automatic voltage switcher, fitted with 3-pin plug (Oxfam Code AVS)
6	1	3 pin to 2 pin Universal Plug Adapter (Oxfam Code AUP)

**Packing**

All items to be packed in a plywood crate and marked "Oxfam Code APC/3" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides

**Packing List**

One packing list in a plastic bag to be securely fixed to outside of box  
 One packing list to be placed inside box

Specification date: 26<sup>th</sup> March 2007  
 Prepared by: Logistics Team

**A****Code ASBW/1****Sleeping Bag - Winterised****This is a non-stock item**

Gross weight: 2.3 kg  
 Volume: 0.03m<sup>3</sup>  
 Dimensions: 45 x 25 x 25 cm  
 Approximate unit cost: £32  
 Lead time: 3 days (delivery time to Bicester Warehouse, not the programme)



<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	1	Sleeping Bag, 4 season, for sub zero temperatures (down to -17°C). Outer shell 210T Ripstop Polyester, Inner Lining Polycotton, Construction Double Layer, Stitching Method Offset, Insulation Hollow Fibre, Zip 2-way with insulated zip baffle and anti-snag tape and NiteGlow zip pulls, Stuff Sack compression, security pocket velcro closure, Shoulder baffle for greater heat retention

**User's Notes**

A four-season sleeping bag for use in sub zero temperatures, e.g. alpine or mountainous regions

Specification date: 4<sup>th</sup> April 2007  
 Prepared by: Logistics Team

**Code ASL/1****Solar Lantern****A*****This is a non-stock item****Gross weight:**Volume:**Dimensions:**Approximate unit**cost:*

<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	1	<i>BP SL48 Solar Lantern, with solar module, rechargeable battery pack and 8 watt fluorescent tube, all in a tough polycarbonate case</i>

**User's Notes**

*A rugged hand held lantern rechargeable from sunlight.  
 8-watt fluorescent, equivalent to 40-watt incandescent with a 6v battery pack and inverter and a typical life of 3 years.  
 Suitable for general room lighting or for close work such as reading.  
 Up to 5 hours use from a single days charge*

**Packing & Marking**

*To be packed in a sturdy Tri-wall carton. Carton to be marked "OXFAM CODE ASL/1" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides*

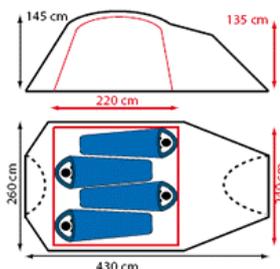
**Packing List**

*One packing list in a plastic bag to be securely fixed to the outside of the box  
 One packing list in a plastic bag to be placed inside the carton*

*Specification date: 4<sup>th</sup> April 2007  
 Prepared by: Logistics Team*

**A****Code ASTMW/1 Small Tent- Individual Dome Winterised****This is a non-stock item**

Gross weight: 5.25 kg  
 Volume: 0.016m<sup>3</sup>  
 Dimensions: 40 x 20 x 20cm  
 Approximate unit cost: £150  
 Lead Time: 3 Days (delivery time to Bicester Warehouse, not the programme)



Item	Qty	Description
1.	1	A medium sized tent with sleeping compartment and storage area and 2 entrances. 210T P.U. coated Ripstop Nylon Flysheet proofed to 5000mm hydrostatic head. Taped seams. Continuous mesh pole sleeves. Doors each end with 2 x 2 way zips with zip locks, allowing doors to be rolled up or down. 4 way opening facility. Ventilation each end with guyed vent covers. Toned guys. 7001 T6 Alloy poles and Alloy Pegs. Breathable Nylon Inner. Nylon mesh doors each end with door stowage pockets. Ventilation panel. Stowage pockets. Quick release system links inner to flysheet pegging points. 210T P.U. coated Nylon Groundsheet proofed to 5000mm hydrostatic head. Deep tray construction.

**User's Notes**

A medium sized tent suitable for one or two people to be used in extreme cold situations e.g. alpine or mountainous areas

Specification date: 25<sup>th</sup> April 2007  
 Prepared by: Logistics Team

**Code ATK/3****Emergency Transfusion Kit****A****This is a non-stock item**

Gross weight: 1.5 kg  
 Volume: 0.008 m<sup>3</sup>  
 Dimensions: 7 x 40 x 28 cm  
 Account Code: 45549  
 Lead Time: 5 days (delivery time to  
 Bicester Warehouse, not  
 the programme)

Approximate unit  
 cost: £32.34



*This kit is for travellers to areas where AIDS and Hepatitis B are common and where local blood supplies are not reliable.*

***This kit is only available from the Staff Health Service in Oxford, and will only be issued to the person actually travelling.***

<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	2	IV administration sets
2.	2	2 ml syringes
3.	5	Medipreps
4.	2	5 ml syringes
5.	2	21g needles
6.	2	23g needles
7.	2	25g needles
8.	2	Adult intravenous cannulas
9.	1	Suture and needle kit
10.	3	Steristrips for wound closure
11.	2	Gloves
12.	2	Gauze swabs
13.	1 roll	Micropore tape
14.	1 roll	Zinc Oxide Tape (1.25cm)
15.	5	Small sterile dressings
16.	1 pair	Scissors
17.	2	500 ml bottles of IV fluid

**User's Notes**

- *This Transfusion Kit is **not** the answer to every problem requiring blood transfusion but rather an emergency measure which, if used correctly by a medically qualified person, can gain a few valuable hours for the recipient to get the medical or surgical care they need.*
- *One kit is appropriate for families or groups of up to 5 people travelling together. Larger groups should consider taking a further kit.*



- *The kit is to give IV fluids following blood loss in an accident to 'buy time' until a safe supply of blood can be located. It can also be used in cases of severe dehydration where the person affected cannot take fluids by mouth.*
- ***This kit needs to be used by a health worker or someone able to set up an intravenous drip.***

#### ***Proposals for the Care of Intravenous Infusion Kits***

1. *A reliable person should take responsibility for the kit.*
2. *A hard case should be provided for the kit if taken on tour, to minimise exposure to dust, sun and wear and tear.*
3. *The kit should be issued and signed for each time it is taken on tour and returned at the end of the tour. The kit should **not** be left in vehicles between journeys.*
4. *Whoever takes responsibility for booking the kit in and out should check it each time for:*
  - *Expiry date of IV fluids;*
  - *Any sign of damage, contamination or tampering with the outer coverings of any of the equipment. If any damage is noted, that particular kit should be returned to Oxford and a fresh kit ordered.*

#### ***Storage***

*IV fluids should be stored within their pouch at a temperature not exceeding 25°C. After the pouch has been opened, the containers may be stored at a temperature not exceeding 25°C for up to 30 days.*

#### ***Packing***

*All items except the IV Fluid Bottles (item 17) are packed in a tough red padded packaging, which is labelled 'Aids & Hepatitis B Protection Kit'.*

#### ***Packing List***

*One packing list to be placed inside the packaging.  
One packing list to be securely fastened to the outside*

*Specification date: 27 February 2007  
Prepared by: Staff Health Service*

## Category B

### Ground Water Development



Code BDM50/1	BH dip meter 50m length	47
Code BDM100/1	BH Dip meter 100m length	47
Code BDM200/1	BH Dip meter 200m length	48
Code BI/3	Borehole Inspection Camera	49
Code BDR4/2	PAT 301TP Drilling Rig & Compressor	50
Code BCON/1	Consumables for drilling and casing of 15 boreholes, 5" and 4" diameter (average depth 60m)	53
Code BSQE7-40 2/1	SQE 7-40 Grundfos Submersible pump and motor complete	54
Code BSP8A-25 1/1	Grundfos Submersible pump and motor complete	56

**B**

Code BDM50/1

BH dip meter 50m length

Gross weight: 3kg  
 Volume: 0.02 m<sup>3</sup>  
 Dimensions: 29 x 23x 22cm  
 Approximate unit cost: £185



B

Item	Qty	Description
1	1	Water Level Meter (Dip Meter) 50m Made from polyethylene tape reels and stainless steel conductors Permanent markings in meters and centimetres with markings every mm Probe: stainless steel, leak proof probe, easy to clean Probe size: 12.7mm dia and 220mm length Provided with tape guide, for tape protection and easy consistent measurement

Specification date: 26th April 2007  
 Prepared by: Public Health Engineering Team

Code BDM100/1

BH Dip meter 100m length

Gross weight: 6kg  
 Volume: 0.02 m<sup>3</sup>  
 Dimensions: 29 x 23 x 22cm  
 Approximate unit cost: £240



Item	Qty	Description
1.	1	Water Level Meter (Dip Meter) 100m. Made from polyethylene tape reels and stainless steel conductors Permanent markings in meters and centimetres with markings every mm Probe: stainless steel, leak proof probe, easy to clean Probe size: 12.7mm dia and 220mm length Provided with tape guide, for tape protection and easy consistent measurement

Specification date: 26th April 2007  
 Prepared by: Public Health Engineering Team

Code BDM200/1

BH Dip meter 200m length

**B**

Gross weight: 15kg  
 Volume: 0.024 m<sup>3</sup>  
 Dimensions: 38 x 29 x 22cm  
 Approximate unit cost: £415



Item	Qty	Description
1.	1	Water Level Meter (Dip Meter) 200m Made from polyethylene tape reels and stainless steel conductors Permanent markings in meters and centimetres with markings every mm Probe: stainless steel, leak proof probe, easy to clean Probe size: 12.7mm dia and 220mm length Provided with tape guide, for tape protection and easy consistent measurement

Specification date: 26<sup>th</sup> April 2007  
 Prepared by: Public Health Engineering Team

Code BI/3

Borehole Inspection Camera

Gross weight: 25kg  
 Volume: 0.0294 m<sup>3</sup>  
 Dimensions: 70 x 70 x 60cm  
 Approximate unit cost: £2270

**B**

Item	Qty	Description
1.	1	Ultra low light black and white small camera 1 ½" diameter with 3.6 mm lens focal range of five to infinity with manual camera tilting mechanism, centraliser, econo power supply, cable safety support, tools, spare parts, manual and instruction video.
2.	1	Steel winch with 325 feet (100 meters) of cable. Basic winch with screw type brake and small handle – upgradeable.
3.	1	Sony Digital Video Walkman VCR GV-D800 monitor & recorder (MP-0078)
4.	1	Inverter 300 watt (MP-0606)
5.	1	Carrying case – Tool Box (GVJR-433A)

#### Packing

All items to be packed and marked "Oxfam Code BI/3" with gross weight and dimensions clearly shown.

#### Packing List

One packing list in a plastic bag to be attached to the outside of each crate.  
 One packing list in a plastic bag to be placed inside each crate.

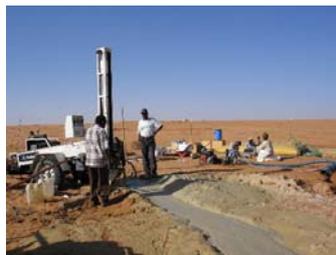
Specification date: 30<sup>th</sup> April 2007  
 Prepared by: Public Health Engineering Team

Code BDR4/2

PAT 301TP Drilling Rig &amp; Compressor

**B**

Gross weight: 5900 kgs  
 Approximate unit cost: £47189



This is trailer mounted hydraulic drilling rig. The trailer is fitted with:

- mechanical overrun and auto reverse brakes
- 2 front manual and 2 rear hydraulic jack stabilizers for rig leveling
- hydraulic driven foam pump on board
- Two floodlights for night time operation

**Hole range – and basic specifications:**

Medium & Hard Rock DTH Hammer	Capable of drilling 4 ½" – 6 ½" (100-165mm) diameter
Soft formation – Rotary Drilling	Capable of drilling 4"-8" (100 – 200mm) diameter
Depth rating	100m
Pull up capacity	2300kg
Pull down capacity	3480kg
Drill pipe length	2m
Drill pipe diameter	76mm
Weight	1450kg

**Items listed below are based on PAT Drill 2003 Catalogue, Specification items for a complete set:**

Item	Qty	Description/ Part number
1.	1	<b>PAT-Drill 301TP</b> , RIG with PROGRESSIVE CAVITY PUMP (MUD PUMP), BASIC RIG
2.	50	Drill pipe 76MM, 2.0M LONG Part number: 40 5 1000
3.	2	DRAG BIT, 8" (200 MM), 3-WINGS STEP Part number: 30 6 1800-3s
4.	2	DRAG BIT, 6 1/2 " (165 MM), 3-WINGS STEP Part number: 30 6 1612-3s
5.	2	REAMER-STABILIZER 8" (200 MM) Part number: 40 6 2800
6.	2	REAMER-STABILIZER 6 1/2" (165 MM) Part number: 40 6 2612
7.	2	SUB ADAPTOR, 2 3/8 X 2 3/8 API REG Part number: 40 3 238 238
8.	1	TOOLS SET Part number: 30 8 1000

Item	Qty	Description/ Part number
9.	1	Pneumatic Tools set Part number 30 7 4000
10.	1	4" STRIPPING DEVICE Part number: 30 6 4004
11.	1	BIT SPANNER, 4 1/2" Part number: 30 6 5412-44
12.	1	BIT SPANNER, 4 1/2" Part number: 30 6 5412-44
13.	1	DRILL PIPE 76 MM, 0.7 M LONG Part number: 40 5 1003
14.	1	SUB ADAPTOR, 2 3/8 X 2 3/8 API REG Part number: 40 3 238 238
15.	1	4" HAMMER, SD-400 Part number: 30 6 3400
16.	2	4 1/2" (115 MM) BUTTON BIT Part number: 30 6 3412-44
17.	2	5 7/8" (150 MM) BUTTON BIT Part number: 30 6 3578-44
18.	1	AIR COMPRESSOR 12 BAR, 370 CFM Part number: 91 1 0186-h
19.	1	XAHS-186, 500 HRS SERVICE PACK Part number: 91 1 0186-h2
20.	1	XAHS-186, 1000 HRS SERVICE PACK Part number: 91 1 0186-h4
21.	1	1 1/2" AIR HOSE, 15M LONG Part number: 30 7 1000-15
22.	1	MOTOR OIL SAE 40, 18 LITRE Part number: 94 1 1102
23.	2	HYDRAULIC OIL ISO 68, 18 LITRE Part number: 94 1 3102
24.	5	PAT COPPER GREASE, 1 KG Part number: 94 1 5101
25.	5	PAT LITHIUM GREASE, 1 KG Part number: 94 1 6101
26.	2	ROCK DRILL OIL ISO 320, 18 LITRE Part number: 94 1 4101
27.	2	LIQUID DRILLING FOAM, 25 LIRE Part number: 94 1 8201
28.	1	Special wrench for repar rig Part number: 32 8 2000
29.	5	Crew cap Part number: 40 8 6622
30.	5	Safety helmets Part number : 40 8 6630
31.	5	Boots Part number : 40 8 6633
32.	5	Leather work gloves Part number: 40 8 6634
33.	2	Construction fencing tape yellow 3"x250m Part number: 40 8 6635
34.	1	Yanmar diesel engine fresh water pump 4hp 500l/min Part number 40 8 6210
35.	1	2" Flat hose, 50m Part number: 40 8 6222
36.	1	Collapsible bladder tank 1000l Part number: 40 8 6230
37.	1	301TP Trailer Service Pack Part number 311 s 1500
38.	1	Mast Service Pack Part number 311 s 1000
39.	1	Rotation service Pack Part number 311s 2000
40.	1	Foam injection pump Service Pack Part number 301 s 4025
41.	1	301TP power pack & hydraulic service pack 311 s 3000
42.	2	Tow hitches suitable for towing with Toyota Land Cruiser vehicles



\*\* Drilling consumables code **BCON/1** (to drill 15 BHs of 60m average depth as initial start up) need to be provided along with this drilling rig.

#### Users Notes

**B**

- Drilling rigs should be **not be purchased unless there is a clear understanding of the required outputs from a proposed drilling programme**. This needs to include an estimate of the number, depth, diameter and required output of wells, time in which these have to be constructed and anticipated ground conditions in which wells will be drilled. The Oxfam guidelines 'Well design in Emergencies' should be used to assist in this process of information gathering.
- The specification has been prepared to be used as a general guide as to what is available and though based around equipment packages from a particular supplier, it can be used to assist in purchase or hire of other drilling rigs of a similar capacity.
- The Oxfam/PAT 301 is an all mechanical top drive drilling machine capable of using a range of rotary drilling techniques to construct holes from 75–200 mm diameter. It can drill in a variety of geological formations from soft sands through to hard rock to depths of about 80 m, though it can reach depths of 100 m+ in softer rocks. It can be towed by most 4WD pick-up trucks.
- If it is known that drilling will only be done in unconsolidated sediments then it is not necessary to order the Air Compressor or the Down-the-Hole Hammer. However, if foam is being used or some well development is intended, using compressed air, then the Air Compressor should be ordered. In hard rock conditions both the air compressor and the down the hole hammer should be ordered.
- This drilling rig is designed to be compatible with the Atlas Copco XAS-146D compressor and the Taki mud pump. Proposed variations on this package will need to be checked carefully consulting specialist advice.
- Sufficient drilling consumables have been provided for about 50 boreholes, or for a 6–12 month drilling programme as a start up package. Note that casings and screens are not included and should be ordered separately – Oxfam Kit BCON/1 may be suitable as a starter kit.
- Where options exist to hire the services of a contractor, as opposed to purchase of a rig, particular attention should be paid to condition of the contractor's drilling rig and ancillary equipment and where possible these should be inspected. Additionally any work awarded to a contractor should be on the basis of a signed contract. The 'Oxfam commercial drilling contract' should be used as a basis for this.
- Additionally any work awarded to a contractor should be on the basis of a signed contract. The 'Oxfam commercial drilling contract' should be used as a basis for this.

Specification date: 17<sup>th</sup> May 2006

Prepared by: Public Health Engineering Team

**Code BCON/1 Consumables for drilling and casing of 15 boreholes, 5" and 4" diameter (average depth 60m)**

**B**

Gross weight: 1500kg  
 Volume: 10 m<sup>3</sup>  
 Dimensions:  
 Approximate unit cost: £4800.00

Item	Qty	Description
1.	128	5" PVC casing x 2.5m length (140x126.6mm outside and inside Diameter respectively) collapse resistance of 8.6 bar (kp/cm2)
2.	64	5" PVC screens x 2.5m length (140x126.6mm outside and inside diameter respectively) collapse resistance of 8.6x 0.5= 4.3 bar (kp/cm2) slot size 1mm
3.	112	4" PVC casing x 2.5m length (113x103mm outside and inside diameter respectively) collapse resistance of 6.8 bar (kp/cm2)
4.	56	4" PVC Screens x 2.5m length (113x103mm outside and inside diameter respectively) Collapse resistance of 6.8 x 0.5 = 3.4 Bar (kp/cm2) slot size 1mm
5.	10	Biodegradable Polymer (in 25kg bags)
6.	1	Drill foam (in 200 litres drums)

**User's Notes**

Casings and screen diameter will depend on the borehole design; the expected or required yield of the borehole and the size of the pump to be installed. It is always good to be on the higher side on screens than to have water-bearing formation lined with blind casing. Number of screens is determined on the assumption that up to 1/3 of the total pipes in the borehole to be screens.

The specification is for 15 boreholes, 8 of 5" and 7 of 4":

Diameter	Number of BHs	Total PVC pipes required	Casing	Screens
5	8	480m (192 pipes x 2.5m)	320m (128x2.5m pipes)	160m (64 x25m pipes)
4	7	420m (168x2.5m pipes)	280m (112x2.5m pipes)	140m (56x2.5m pipes)

These consumables will have to be deployed along with the drilling rig Code BDR4/2

Specification date: 1<sup>st</sup> March 2007  
 Prepared by: Public Health Engineering Team

Code BSQE7-40 2/1

SQE 7-40 Grundfos Submersible  
pump and motor complete**B**

Gross weight: 360kg  
 Volume: 2.88 m<sup>3</sup>  
 Dimensions: 200 x 120 x 120cm  
 Approximate unit cost: £5788

Pump & motor complete (**Generator: Oxfam Code KG6, to be ordered separately**):

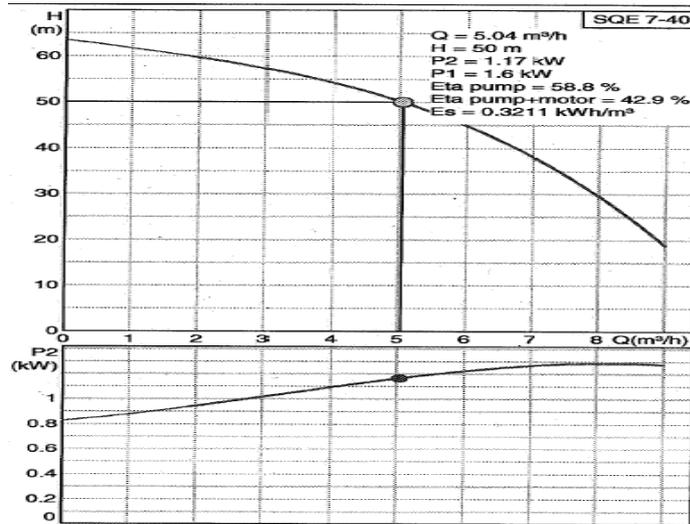
Item	Qty	Description/ Part number
1.	1	SQE 7-40 Grundfos multi-stage submersible pump complete Product no. 96080204 with motor. Flow 5m <sup>3</sup> /h Head 50m (Rated flow of 7 m <sup>3</sup> /h at rated head of 38m) Motor type MSE3, single phase Power requirement 1.73kW, 200-240 V Minimum borehole diameter 76mm

Rising main and wellhead assembly

Item	Qty	Description/ Part number
2.	1	2" standard mild steel wellhead assembly comprising of Head plate mild steel 90-degree elbow Gland power cable 20mm ID Gland probe cable 12mm ID 1" BSP threaded hole suitable for 19mm dip tube, fitted with 12 plug Casing diameter 175mm
3.	60m	Pump cable rated at 2.5mm x 3 core + plug
4.	60m	Electrode cable with electrode fitted
5.	60m	Boreline flexible rising pipe 1 ½"
6.	2	Flexible rising main couplings and clamp rings 1 ½" (supplied with the flexible rising main.)
7.	1	2"x1 ½" Reducing Bush
8.	1	2" 90-degree Elbow ( female) BSP threaded
9.	2	2" BSP Union
10.	4	2" Galvanised hexagonal Nipple
11.	1	2" non return valve
12.	2	2" Galvanised bush (tubes) female BSP threaded
13.	2	2" galvanised pipes 1m length male threaded at both ends to be placed before and after the water metre.
14.	2	2" Tee GI BSP threaded
15.	1	2"- ¼" reducer for pressure gauge
16.	1	¼" gate valve brass
17.	1	¼" pressure gauge (12bar)

Item	Qty	Description/ Part number
18	1	2" Kent flow metre, flanged, supplied with flanges for fitting to 2" BSPM tube
19	1	2" Brass Gate valve BSP threaded (Female)

**B**



Pump Curve for SQE 7-40

**Users Notes**

Flow metre installation - In order to have non turbulent flow through the flow-metre, the flow metre has to be installed at a distance not less than 10times the diameter of the pipe from any pipe fitting such as non return valve etc. In this particular specification the use of 1m length of pipe before and after the flow meter is specified.

Specification date: 2<sup>nd</sup> May 2007  
 Prepared by: Public Health Engineering Team

Code BSP8A-25 1/1	Grundfos Submersible pump and motor complete
-------------------	--

**B**

Gross weight: 600kg  
 Volume: 2.88 m<sup>3</sup>  
 Dimensions: 200 x 120 x 120cm (2 cases)  
 Approximate unit cost: £12177

Pump & motor complete: **(Note: A suitable 3-phase generator should be ordered separately, Oxfam kit KG16 will run 2 of these pumps under most conditions):**

Item	Qty	Description/ Part number
1.	1	SP 8A-25 Grundfos multi-stage submersible pump complete product no. 11151K25 with motor. Rated flow 8 m <sup>3</sup> /h Rated head 107m Motor diameter 4" ,

**Motor type MS4000, 3 phase**

Power requirement 4.6kW

Rising main and wellhead assembly:

Item	Qty	Description/ Part number
2.	1	2" standard mild steel wellhead assembly comprising of Head plate mild steel 90-degree elbow Gland power cable 20mm ID Gland probe cable 12mm ID 1" BSP threaded hole suitable for 19mm dip tube, fitted with 1" plug Casing diameter 175mm
3.	100m	Pump cable rated at 2.5mm x 4 core + plug
4.	100m	Electrode cable with electrode fitted
5.	100m	Boreline well flexible rising pipe 2 "
6.	2	Flexible rising main couplings and camp rings 2" (supplied with the flexible rising main.)
7.	1	2" galvanised Elbow (female) BSP threaded
8.	1	2" BSP Union
9.	4	2" Galvanised hexagonal Nipple
10.	1	2" non return valve
11.	2	2" Galvanised bush (tubes) female
12.	2	2" Galvanised pipe 1m in length male threaded at both ends to be used before and after the water metre.
13.	2	2" female threaded T
14.	1	2"- ¼" reducer for pressure gauge
15.	1	¼" gate valve brass

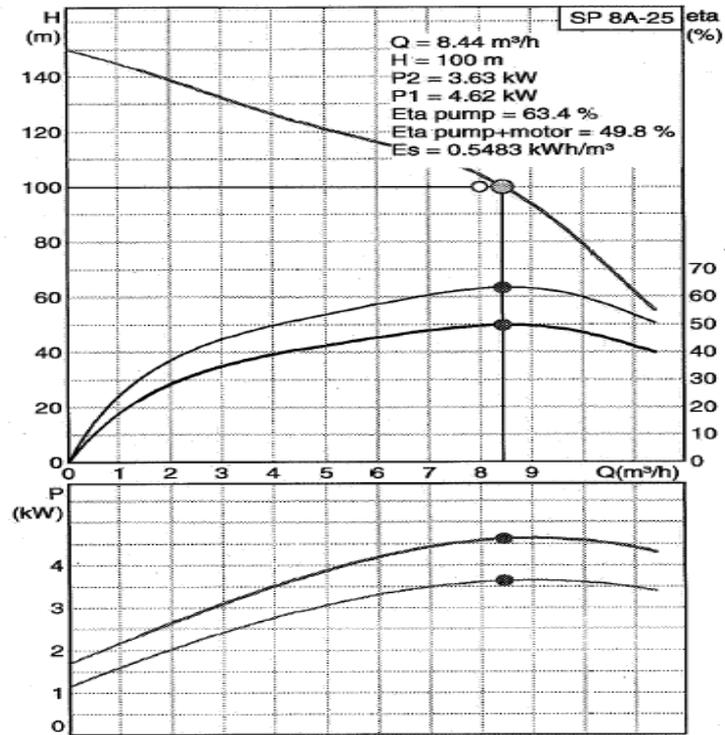
Item	Qty	Description/ Part number
16	1	¼" pressure gauge (12bar)
17	1	2" Kent flow metre with female threaded flanges
18	1	2" Brass Gate valve Female
19	1	Built in temperature transmitter

**Control Panel:**

Item	Qty	Description/ Part number
19.	1	4 KW borehole control panel. All build components and wirings to be rated for 4 kW Grundfos SP8A -25, including uprated frame 26" soft starter. Panel to be of standard design with 2 electrodes (low-level and earth) control and tank control function. Overloads and fuses to be fitted should be to suit the 4kW Grundfos SP8A –25 pump (FLC 9.6A). All panels to be supplied with a further overload and fuses (supplied loose in the cabinet) to suit the Grundfos 4kW motor . Pump cable inlet connectors should accommodate 4-core 2.5mm 2to4 core 6mm2 cable. Plugs to have locking collars to prevent plugs coming loss.

**Spares for control panel:**

Item	Qty	Description/ Part number
20.	1	Complete set of borehole panel internal components and fittings with out case. Including all required wiring colours/sizes supplied in reels.
21.	1	Replacement soft starter
22.	1	level relays, 11WRW 24V ac
23.	1	Main fuse holder
24.	1	Main fuse, 4kW motor
25.	1	Control relays 14 pin 24V ac
26.	1	Control transformers 24V
27.	1	Overloads, 9-12 Amp
28.	1	Fuses, 2 Amp
29.	1	Panel light bulbs (drawings A4/E/4516/A)
30.	1	Manual Genset change over switch/distribution. 125A inlet plug, 6x32A 3 phase outlet sockets. Plugs to have locking collars to prevent plugs coming loose

**B**

Pump curve for SP 8A-25

Note: This submersible pump kit has to be ordered along with 16kVA generator, Code KG16/1

#### Users Notes

Flow metre installation - In order to have non turbulent flow through the flow-metre, the flow metre has to be installed at a distance not less than 10 times the diameter of the pipe from any pipe fitting such as non return valve etc. In this particular specification the use of 1m length of pipe before and after the flow meter is specified.

Specification date: 2<sup>nd</sup> May 2007  
Prepared by: Public Health Engineering Team

## Category C

### Clothing and Blankets

<b><i>The items in italics are not Oxfam stock items</i></b>		
<i>The following item is not commonly used, but the specification has been prepared to facilitate the quick purchase and deployment of this item, in the event of it being required.</i>		
Code CWB/1	<i>Woven Blankets</i>	61





**Code CWB/1****Woven Blankets*****This is a non-stock item***

Gross weight: 28 kg  
Volume: 0.172 m<sup>3</sup>  
Bale Dimensions: 83 x 37 x 56 cm  
Approximate unit cost: £85.01



<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	1 bale	Good quality new woven blankets Packed 20 pieces per bale Assorted colours Flecked ends and sides whipped 60% wool, 40% other fibres Blanket gross weight 1.4 kg. Dimensions 150 x 200 cm

***Packing and Marking***

*Packed 20 pieces woven blankets per bale, in a woven polypropylene bag. Bales to be marked "OXFAM CODE CWB/1"*

Specification date: 26 January 1998  
Prepared by: Logistics Team

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## Category D

### Water Distribution

Code DS/5	Distribution Tapstand	65
Code DV/2	Water Tap – ¾" Evenflow Valve	67
Code DP/2	32 mm Ø (OD) PE Distribution Pipe, 50 m	68
Code DPE63C/1	63 mm Ø (OD) PE Distribution Main/Pipe, 50 m	69
Code DPE63S/1	63 mm Ø (OD) MDPE Distribution Main Kit 630m in 6m straight lengths	70
Code DF2/2	63 mm Ø (OD) Distribution Fittings Kit for PE (& uPVC) Pipe	72
Code DFB63/1	63 mm Ø (OD) Distribution Fittings Kit for PE Pipe, Buttwelded	74
Code DHP90S/1	90 mm Ø (OD) HPPE Distribution Main Kit 600m in 6m lengths	76
Code DHP90C/1	90 mm Ø (OD) HPPE Distribution Main Kit 500m in 50m coils	78
Code DF3/2	90 mm Ø (OD) Distribution Fittings Kit for PE (& uPVC) Pipe	80
Code DFB90/1	90 mm Ø (OD) Distribution Fittings Kit for PE Pipe, Buttwelded	82
Code DBW 110/1	Butt Fusion Welding Machine 110mm	84
Code DBW 160/1	Butt Fusion Welding Machine 160mm	86
Code DA/2	Distribution Adaptation Kit	88



Gross weight: 30 kg  
 Volume: 0.041 m<sup>3</sup>  
 Dimensions: 11 × 101 × 37 cm  
 Approximate unit cost: £181.35

Item	Qty	Description
1.	1	<p>Distribution Tapstand comprising of the following components pre-assembled, with all joints welded using water tight bonding sealant: Welded surfaces should have weld faces cleaned of galvanising by mechanical abrasion to allow good welding. All external welded surfaces to be double coated with zinc galvanised paint. All internal welded surfaces to be painted with non toxic paint (WRC approved for drinking water use) by pouring paint into frame, pouring excess away and allowing to dry.</p> <p>GI 1" Ø plain Tee connected to 2 standard lengths of 340 mm long GI pipe 1" Ø pipes threaded at each end.</p> <p>2 GI 1" Ø crosses, connected to 2 No lengths of 140 mm GI 1" Ø threaded at each end, screwed into the transverse joints. 4 × 1" Ø sockets welded onto the underside of the 130 mm long sections at an angle to give a le.g. splay width of 630 mm and length of 1220 mm centre to centre at the feet.</p>
2.	4	Standard lengths of 225 mm long GI pipe ¾" Ø, threaded at both ends with 1" (F) to ¾" (F) reducer on one end, with joint made by watertight bonding sealant.
3.	2	Standard lengths of 225 mm long GI pipe ¾" Ø, threaded at both ends with 1" (M) to ¾" (F) reducer on one end, with joint made by watertight bonding sealant.
4.	4	1" Ø galvanised steel frame legs of sufficient length to make distribution stand 790 mm in height from centre of pipe to ground level. One end threaded to screw into socket on frame and other with 80 mm × 50 mm plate welded across end to suit angle of le.g. splay. Plate drilled with 11 mm Ø hole
5.	1	1" Ø galvanised down pipe threaded both ends, 690 mm long or such that down pipe with 32 mm compression to 1" BSP coupler fitted, does not project below stand feet once the stand is assembled. Complete with 1" galvanised Tee (F) c/w 1" galvanised plug connected to one end and joint made with watertight bonding seal
6.	4	M10 × 100mm long coach bolts and nuts, for mounting on metal frame
7.	4	3/8" × 3" long coach screws, for mounting on timber frame
8.	1	Pack containing 1 roll PTFE tape and 4 – M10 nuts
9.	4	1" Ø BSP (M) × 32mm Ø uPVC compression coupling (FIP Code JMZ)

- |     |   |   |
|-----|---|---|
| 10. | 6 | ¾" Ø BSP (F) Evenproducts tap   |
| 11. | 2 | ¾" Ø BSP (F) galvanised end cap   |
| 12. | 1 | 3" (88/92 mm) × 1" gunmetal self tapping ferrule strap c/w stainless steel nuts and bolts. (FW Talbots E3303 or Booth equivalent) |
| 13. | 1 | ½" – 1" ferrule key (FW Talbots 1448 or Booth equivalent)   |

#### User's Notes

**D**

This kit is normally used in conjunction with the Distribution Pipe (code DP), which has to be ordered separately if required. Typically one roll of DP will be sufficient for five DS kits.

#### Packing and Marking

All items are to be packed together in one wooden crate, with minimum 20 mm thick boarding. Items 2 and 3 are to be taped together, items 6, 7, 8 and 11 to be packed in a stout package/envelope, item 10 to be packed in a stout package/envelope, and items 12 and 13 to be packed in a stout package/envelope.

Once all items are packed inside the wooden crate and a packing list has been securely attached to the frame, the lid is to be secured with nails. The crate is to be marked "OXFAM CODE DS/5" with gross weight and dimensions clearly shown. Marks are to be on the front and back of the crate, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list to be securely fixed to the outside of the crate.  
One packing list, including Oxfam User's Notes, to be enclosed in the crate.

Specification date: 11th November 2006  
Prepared by: Public Health Engineering Team

Gross weight: 1 kg  
Volume: 0.000 m<sup>3</sup>  
Dimensions: 1 × 1 × 1 cm  
Approximate unit cost: £8.05

Item	Qty	Description
1.	1	3/4" Ø BSP (F) Evenproducts tap, single seal

#### User's Notes

These Evenproducts taps are proven to be efficient at less than 2m head (DV1 Talflo valves leak at anything below 2m head although we are still testing some modified ones). If using on high pressure system (more than 4m head) you can still order DV/1 Talflo valves.

#### Packing and Marking

Items are to be packed in a cardboard box, to be labelled "OXFAM CODE DV/2" with gross weight and dimensions clearly shown.

#### Packing List

One packing list to be securely fixed to the outside of the box.  
One packing list to be enclosed in the box.

Specification date: 14<sup>th</sup> May 2007  
Prepared by: Public Health Engineering Team

**Code DP/2 32 mm Ø (OD) PE Distribution Pipe, 50 m**

Gross weight: 14 kg  
 Volume: 0.190 m<sup>3</sup>  
 Dimensions: 100 × 100 × 19 cm  
 Approximate unit cost: £14.00

**D**

Item	Qty	Description
1.	1	50 metre coil 32 mm MDPE blue pipe to BS 6572 10 bar pressure rating, complete with end plugs

**User's Notes**

- This kit is normally used in conjunction with the Distribution Tapstand (code DS), which has to be ordered separately if required.
- Typically 1 roll of DP will be adequate for five DS kits, i.e. 10 m per Distribution Tapstand (code DS).

**Packing and Marking**

To be strapped as one coil, to be labelled "OXFAM CODE DP/2".

**Packing List**

One packing list in a grip-seal plastic bag, including Oxfam User's Notes, to be securely fixed to the coil.

Specification date: 31 January 2000  
 Prepared by: Public Health Engineering Team

**Code DPE63C/1 63 mm Ø (OD) PE Distribution Main/Pipe, 50 m**

Gross weight: 53 kg  
Volume: 0.549 m<sup>3</sup>  
Dimensions: 170 × 170 × 19 cm  
Approximate unit cost: £59.49

Item	Qty	Description
1.	1	50 m coil 63 mm Ø OD blue PE pipe for potable water use, PE80 SDR 11 to BS 6572, 12.5 bar pressure rating, complete with end plugs
2.	1	63 mm Ø OD uPVC compression coupler

**Notes:**

- Coils of pipe vary in diameter according to supplier. Wavin 50m length coils are approximately 1.7m, while those from Glynwed and Uponor are around 1.9m. This difference is not critical and thus purchase should be from normal supplier.
- Fittings must be WRAS approved.

**User's Notes**

- This pipe can be used both as a distribution main with lower carrying capacity than the 90 mm pipe, or in conjunction with the DHP90S AND DHP90C kit to provide extended branches to the 90 mm distribution main.
- This kit may be used with the DF2 Distribution Fittings Kit
- Where this kit is used in conjunction with the Distribution Tapstand (code DS), this has to be ordered separately. On flat ground, branches using 63 mm pipe should be no longer than 100 m, i.e. two DE63 kits.
- This kit replaces the DPE63C kit.

**Packing and Marking**

The two parts of this kit may be supplied by two separate suppliers. The pipe is to be strapped as one coil, to be labelled "OXFAM CODE DPE63C/1". Oxfam Logistics Warehouse staff must strap the compression coupler to the inside of the coil.

**Packing List**

One packing list in a grip-seal plastic bag, including Oxfam User's Notes, to be securely fixed to the coil.

Specification date: 1<sup>st</sup> April 2007  
Prepared by: Public Health Engineering Team

Code DPE63S/1 63 mm Ø (OD) MDPE Distribution  
Main Kit 630m in 6m straight lengths

Gross weight: kg  
Volume: 3.0 m<sup>3</sup>  
Dimensions: 125 × 40 × 600 cm  
Approximate unit cost: £

**D**

**Note: No fittings are supplied with this kit, they must be ordered separately.**

Item	Qty	Description
1	105	6m lengths 63 mm Ø OD blue PE pipe for potable water use, PE80 SDR 11, 12.5 bar pressure rating, complete with end plugs

User's Notes

- This kit is intended for use in pumping and distribution in potable water supplies, as either a main or as branch lines, in conjunction with 90mm kits.
- Generally, as a main, this should be used for a maximum of 200 -300m, branches using 63 mm pipe should be no longer than 200 m, and connect to no more than 4 DS tapstands due to frictional loss. Please calculate flows and losses before ordering.
- It is intended that this kit will be used for larger water supply systems, for shorter systems it may be more practical to use the DPE63C kit which is the same tube but supplied in 50m coils. **NOTE: Coils require approximately 3 times as much airspace as straight lengths, this must be considered when ordering equipment.** For larger consignments it may be possible to "nest" 63mm tube inside 90mm straight lengths – this is available by special request only and time must be allowed for this. This may permit significant savings on airfreight as tube is very light and may not maximise the use of airspace.
- Blue MDPE pipe is UV stabilised but is intended for below ground use. In practice blue PE can be used above ground for a few years without serious problems of UV degradation
- For jointing straight lengths of MDPE tube a Butt Fusion Welding kit will be required – either Oxfam Code DBW160 for longer pipe runs, or DBW110 for shorter runs. These kits both require a suitable power supply, usually the Oxfam Code KG6 generator will be appropriate.
- Either blue or black PE fittings may be used with this tube, or compression fittings. These must be ordered separately.
- This kit is normally used in conjunction with the Distribution Tapstand Kit (code DS), the Distribution Pipe Kit (code DP), the Distribution Fittings Kit (code DF3) and the Site Tool Kit (code OS), which if required must be ordered separately.
- MDPE pipe comes in different pressure ratings: For the purposes of standardisation Oxfam has specified PE80 SDR 11 tube (10 bar rated) for 63mm kits but other pressure ratings are available. If higher specifications are required please contact the PHE team.

#### Local Purchasing Advice

In some regions suitable alternatives will be available (HPPE, MDPE or uPVC tube). If alternatives are available, consider the pressure rating required, quality and consistency of the materials, availability of suitable fittings, paying particular attention to the jointing system. If using uPVC ensure that it has been correctly stored and has not been excessively exposed to UV light. If in doubt consult the PHE team.

#### Packing and Marking

Item to be packed in timber-framed strapped bundles. Bundles to clearly marked "OXFAM CODE DPE63S/1". Oxfam logo to be securely affixed to all sides.

#### Packing List

Two packing lists, including Oxfam User's Notes, to be securely fixed to the bundle.

Specification date: 1<sup>st</sup> April 2007

Prepared by: Public Health Engineering Team

Code DF2/2	63 mm Ø (OD) Distribution Fittings Kit for PE (& uPVC) Pipe
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Gross weight: 24 kg  
 Volume: 0.115 m<sup>3</sup>  
 Dimensions: 62 × 42 × 44 cm  
 Approximate unit cost: £232.95

**D**

**Note: This product should be WRAS approved**

Item	Qty	Description
1.	8	90 mm Ø OD uPVC compression coupler
2.	4	90 mm to 63 mm uPVC reducing cement solvent tee, with 2 No 90 mm and 1 No 63 mm stub ends factory glued into the tee
3.	2	3" (M) × 2" (F) reducing bush GS
4.	4	63 mm Ø OD uPVC compression coupler
5.	4	63 mm Ø OD uPVC compression tees
6.	2	63 mm Ø OD uPVC compression elbow 90°
7.	8	63 mm Ø to 32 mm Ø OD uPVC compression reducer
8.	4	2" Ø BSP (M) × 63 mm Ø OD compression coupler
9.	1	Copy of Oxfam Water Distribution Equipment Manual in grip seal water proof plastic bag

#### User's Notes

- This kit is normally used to connect the Distribution Main/Pipe Kit Code DPE63C/1 to the 90 mm distribution main kit Code DHP90S AND DHP90C and/or to the distribution pipe kit DP. These kits along with the site Tool Kit Code OS, if required have to be ordered separately.
- Whilst this kit can be used with both PE and uPVC pipe, the fittings are intended for metric PE pipe. The pressure rating of the fittings on metric uPVC pipe may not be fully achieved and thrust blocks may be required at higher pressure as the compression fittings will not bite into the uPVC as well as PE (at 4 bar on uPVC they may show signs of leakage). Pressure ratings when used on PE pipe are 10 bar at 20°C (10% reduction at 30°C)
- Where in country/region purchase of fittings are required, as the compression fittings are not normally available, either push fittings complete with rubber O rings or solvent cement joints can be used, but they will require thrust blocks to be built to stop them blowing apart. Pressure rating depends on the class of fittings and quality of cement and work – it should be possible to achieve a maximum pressure rating of 15 bar with the right materials.

#### Packing and Marking

All items to be packed in one wooden crate, to be marked "OXFAM CODE DF2/2" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the crate.  
One packing list, including Oxfam User's Notes, to be enclosed in the crate

Specification date: 2nd May 2000

Prepared by: Public Health Engineering Team

**Code DFB63/1 63 mm Ø (OD) Distribution Fittings Kit for PE Pipe, Buttwelded**

Gross weight: 90kg  
 Volume: m<sup>3</sup>  
 Dimensions: 152 × 152 × 95 cm  
 Approximate unit cost: £1005

**D**

Item	Qty	Description
1.	4	Equal tee 63 mm Ø PE80 SDR11, 12.bar rated, pupped ends
2.	2	Straight reducer, 90mm Ø PE100 SDR17 HPPE x 63mm Ø PE80 SDR11, pupped ends
3.	4	Reduced branch tee, 90mm PE100 SDR17 x 63mm PE80 SDR11
4.	4	90° elbow 63 mm Ø PE80 SDR11, 12 bar rated, pupped ends
5.	4	Stop end cap, 63 mm Ø PE80 SDR11, 12 bar rated, pupped end
6.	8	Ferrule strap, gunmetal 63 mm Ø clamp-on, self-tapping type with swivel, 32mm Ø compression outlet
7.	2	Key for above
8.	4	63 mm × 63 mm Ø OD straight compression coupler
9.	8	2" Ø BSP (M) × 63 mm Ø OD compression coupler
10.	4	3" BSPM x 2" BSPF GI reducing bush
11.	4	2" BSPF brass gate valve
12.	4	32mm compression x 1" BSPM fittings, plastic

Note: All fittings to be WRAS approved and have a minimum pressure rating of 10 bar

**User's Notes**

- This kit is designed for use with 63mm MDPE PE80 SDR11 tube kits, codes DPE63C or DPE63S, to create branch lines, pumping or basic distribution mains
- This kit is only for use with buttwelding equipment DBW160 or DBW110. It may be used with 90 mm distribution main kit Code DHP90S/DHP90C and used in conjunction with distribution pipe kit DP and tapstands DS. If required these must be ordered separately.
- If no buttwelding equipment is available Kit DF2 should be ordered, as this uses compression fittings Alternatively individual items may be ordered from the G fittings range.
- These kits should be used with site Tool Kit Code OS

**Packing and Marking**

All items to be packed in one wooden crate, to be marked "OXFAM CODE DFB63/1" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the crate.  
One packing list, including Oxfam User's Notes, to be enclosed in the crate

Specification date: 8<sup>th</sup> May 2007

Prepared by: Public Health Engineering Team

Code DHP90S/1

90 mm Ø (OD) HPPE Distribution  
Main Kit 600m in 6m lengths

Gross weight: 1275kg  
 Volume: 5.6m<sup>3</sup>  
 Dimensions: 120 × 80 × 600 cm  
 Approximate unit cost: £

**D**

**Note: No fittings are supplied with this kit they must be ordered separately.**

Item	Qty	Description
1	100	6 m lengths 90 mm Ø OD blue HPPE pipe for potable water use, PE100 SDR17 (rated 10 bar), complete with end plugs

#### User's Notes

- This kit is intended for use as a pumping or distribution main for potable water supply.
- It is intended that this kit will be used for larger water supply systems, for shorter systems it may be more practical to use the DHP90C kit which is the same tube but supplied in 50m coils. **NOTE: Coils require approximately 4 times as much airspace as straight lengths, this must be considered when ordering equipment. Also consider loading issues when ordering either coils or bundles of 90mm tube, as these are not suitable for transporting in some aircraft.**
- For larger consignments it may be possible to "nest" 63mm tube inside 90mm straight lengths – this is available by special request only and time must be allowed for this. This may permit significant savings on airfreight as tube is very light and may not maximise the use of airspace.
- Blue HPPE pipe is UV stabilised but is intended for below ground use. In practice blue PE can be used above ground for a few years without serious problems of UV degradation
- For jointing straight lengths of HPPE tube a Butt Fusion Welding kit will be required – either Oxfam Code DBW160 for longer pipe runs, or DBW110 for shorter runs. These kits both require a suitable power supply, usually the Oxfam Code KG6 generator will be appropriate.
- Either blue or black HPPE fittings may be used with this tube.
- This kit is normally used in conjunction with the Distribution Tapstand Kit (code DS), the Distribution Pipe Kit (code DP), the Distribution Fittings Kit (code DF3) and the Site Tool Kit (code OS), which if required must be ordered separately.
- PE pipe comes in different pressure ratings: For the purposes of standardisation Oxfam has specified PE100 SDR 17 tube (10 bar rated) for 90mm kits but other pressure ratings are available. If higher specifications are required please contact the PHE team.

#### Local Purchasing Advice

In some regions suitable alternatives will be available (HPPE, MDPE or uPVC tube). If alternatives are available, consider the pressure rating required, quality and consistency of the materials, availability of suitable fittings, paying particular attention to the jointing

system. If using uPVC ensure that it has been correctly stored and has not been excessively exposed to UV light. If in doubt consult the PHE team.

#### Packing and Marking

Item to be packed in timber-framed strapped bundles. Bundles to be clearly marked "OXFAM CODE DHP90S/1". Oxfam logo to be securely affixed to all sides.

#### **Packing List**

Two packing lists, including Oxfam User's Notes, to be attached to the bundle.

Specification date: 28<sup>th</sup> March 2007

Prepared by: Public Health Engineering Team

Code DHP90C/1	90 mm Ø (OD) HPPE Distribution Main Kit 500m in 50m coils
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Gross weight: 1275kg  
 Volume: 23m<sup>3</sup>  
 Dimensions: 240 × 240 × 400 cm  
 Approximate unit cost: £

**D**

**Note: No fittings are supplied with this kit they must be ordered separately.**

Item	Qty	Description
1	10	50m coils 90 mm Ø OD blue HPPE pipe for potable water use, PE100 SDR17 (rated 10 bar), with end plugs

#### User's Notes

- This kit is intended for use as a pumping or distribution main for potable water supply.
- It is intended that this kit will be used for small water supply systems, for larger systems it may be more practical to use the DHP90S kit which is the same tube but supplied in 6m lengths. **NOTE: Coils require approximately 4 times as much airspace as straight lengths, this must be considered when ordering equipment. Also consider loading issues when ordering coils of 90mm tube, as the coil diameter is around 2.8m and may be unsuitable for transporting in some aircraft.**
- Blue HPPE pipe is UV stabilised but is intended for below ground use. In practice blue PE can be used above ground for a few years without serious problems of UV degradation.
- For jointing 50m lengths of HPPE tube, 90mm compression fittings (Oxfam Code G3.9) are suitable. For large numbers of joints a Butt Fusion Welding kit will be required – either Oxfam Code DBW160 for longer pipe runs, or DBW110 for shorter runs. These kits both require a suitable power supply, usually the Oxfam Code KG6 generator will be appropriate.
- Either blue or black HPPE fittings may be used with this tube.
- This kit is normally used in conjunction with the Distribution Tapstand Kit (code DS), the Distribution Pipe Kit (code DP), the Distribution Fittings Kit (code DF3) and the Site Tool Kit (code OS), which if required must be ordered separately.
- PE pipe comes in different pressure ratings: For the purposes of standardisation Oxfam has specified PE100 SDR 17 tube (10 bar rated) for 90mm kits but other pressure ratings are available. If higher specifications are required please contact the PHE team.

#### Local Purchasing Advice

In some regions suitable alternatives will be available (HPPE, MDPE or uPVC tube). If alternatives are available, consider the pressure rating required, quality and consistency of the materials, availability of suitable fittings, paying particular attention to the jointing system. If using uPVC ensure that it has been correctly stored and has not been excessively exposed to UV light. If in doubt consult the PHE team.

## Packing and Marking

Item to be packed in 10 strapped bundles, each containing one 50m coil. Bundles to be clearly marked "OXFAM CODE DHP90C/1". Oxfam logo to be securely affixed to all sides.

### **Packing List**

Two packing lists, including Oxfam User's Notes, to be attached to the bundle.

Specification date: 28<sup>th</sup> March 2007

Prepared by: Public Health Engineering Team

Code DF3/3	90 mm Ø (OD) Distribution Fittings Kit for PE (& uPVC) Pipe
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Gross weight: 90 kg  
 Volume: 0.4452 m<sup>3</sup>  
 Dimensions: 40 × 106 × 105 cm  
 Approximate unit cost: £431.43

**D**

Note: This product should be WRAS approved.

Item	Qty	Description
1.	3	90 mm Ø OD compression tee
2.	6	90 mm Ø OD × 3" BSP (M) coupler
3.	2	90 mm Ø OD compression elbow 90°
4.	3	90 mm Ø OD compression coupler
5.	6	3" Ø BSP (M) hex nipple GS
6.	2	3" Ø BSP (F) cap GS
7.	3	3" Ø BSP (F) elbows GS
8.	3	3" Ø BSP (F) Tees GS
9.	1	3" Ø BSP (F) brass 'Y' strainer c/w 2 spare coarse screens
10.	2	3" Ø BSP (M) hose connector malleable iron
11.	4	3" Ø BSP (F) hose connector malleable iron
12.	6	3" Ø hose clip, bolted type (86–91 mm)
13.	4	32 mm Ø OD uPVC compression coupler
14.	4	32 mm Ø OD uPVC compression elbow 90°
15.	20	12 m rolls PTFE jointing tape, (12 mm wide)
16.	2	Evenproducts taps (Oxfam code DV/2)
17.	1	Copy of Oxfam Water Distribution Equipment Manual in grip seal water proof plastic bag

#### User's Notes

- This kit can be used to provide supplementary fittings for those used with the Distribution Main Kit (code DHP90S AND DHP90C), the Distribution Tapstand Kit (code DS), or the Distribution Pipe Kit (code DP). The Site Tool Kit (code OS), which is required for assembling these kits, must be ordered separately.
- Whilst this Kit can be used with both PE and uPVC pipe, the fittings are intended for metric PE pipe. The pressure rating of the fittings on imperial uPVC may not be fully achieved and thrust blocks may be required at higher pressure as the compression fittings will not bite into the uPVC as well as PE (at 4 bar on uPVC they may show signs of leakage). Pressure ratings when used on metric pipe are 10 bar at 20°C (10% reduction at 30°C)
- Where in-country/region purchase of fittings is required, as the compression fittings are not normally available, either push fittings complete with rubber O rings or solvent cement joints can be used, but they will require thrust blocks to be built to

stop them blowing apart. Pressure rating depends on the class of fittings and quality of cement and work – it should be possible to achieve a maximum pressure rating of 15 bar with the right materials.

#### **Packing and Marking**

All items to be packed in one wooden crate, to be marked "OXFAM CODE DF3/3" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

#### **Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the crate.

One packing list, including Oxfam User's Notes, to be enclosed in the crate

Specification date: 31st January 2000

Prepared by: Public Health Engineering Team

**Code DFB90/1 90 mm Ø (OD) Distribution Fittings Kit for PE Pipe, Buttwelded**

Gross weight: 160kg  
 Volume: m<sup>3</sup>  
 Dimensions: 152 × 152 × 120 cm  
 Approximate unit cost: £1227

**D**

Item	Qty	Description
1.	4	Equal tee 90 mm Ø PE 100 SDR17, pipped ends
2.	4	Reduced branch tee, 90mm PE100 SDR17 x 63mm PE80 SDR11
3.	2	Straight reducer, 90mm Ø PE100 SDR17 HPPE x 63mm Ø PE80 SDR11, pipped ends
4.	6	90° elbow 90 mm Ø PE100 SDR17, 12 bar rated, pipped ends
5.	4	Stop end cap, 90 mm Ø PE100 SDR17, 12 bar rated, pipped end
6.	6	90 mm Ø OD compression × 3" BSP (M) coupler
7.	2	90 mm Ø OD compression repair coupler
8.	6	3" Ø BSP M hex nipple, GI with finished end for use with hose couplings
9.	8	Ferrule strap, gunmetal 90 mm Ø clamp-on, self-tapping type with swivel, 32mm Ø compression outlet
10.	2	3" Ø BSP (F) cap GS
11.	2	3" Ø BSP (F) elbows GS
12.	2	3" Ø BSP (F) Tees GS
13.	1	3" Ø BSP (F) brass 'Y' strainer c/w 2 spare coarse screens
14.	6	3" Ø BSP (F) hose connector malleable iron, with washer
15.	6	3" spare washers for above
16.	8	3" Ø hose clip, bolted type (86–91 mm)
17.	4	32 mm Ø OD compression coupler, plastic
18.	4	32 mm Ø OD compression elbow 90°, plastic
19.	20	12 m rolls PTFE jointing tape, (12 mm wide)
20.	2	Taps (Oxfam code DV)

Note: All fittings to be WRAS approved and have a minimum pressure rating of 10 bar

**User's Notes**

- This kit is designed for use with 90mm HPPE PE100 SDR17 tube kits, codes DHP90S or DHP90C, to create pumping or basic distribution mains
- This kit is only for use with buttwelding equipment DBW160 or DBW110. It may be used with 63 mm distribution main kits Code DPE63C or DPE63S and used in conjunction with distribution pipe kit DP and tapstands DS. If required these must be ordered separately.

- If no butt welding equipment is available Kit DF3 should be ordered, as this uses compression fittings. Alternatively individual items may be ordered from the G fittings range.
- These kits should be used with site Tool Kit Code OS

#### Packing and Marking

All items to be packed in one wooden crate, to be marked "OXFAM CODE DFB90/1" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

#### **Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the crate.  
One packing list, including Oxfam User's Notes, to be enclosed in the crate

Specification date: 8<sup>th</sup> May 2007

Prepared by: Public Health Engineering Team

## Code DBW 110/1 Butt Fusion Welding Machine 110mm

Gross weight: kg  
 Volume: m<sup>3</sup>  
 Dimensions: cm  
 Approximate unit cost: £2640

**D**

**Note: This is to be ordered with a generator (Oxfam Code KG6)**

Item	Qty	Description
1	1	Widos 110 butt welding machine for 63 and 90mm HPPE and MDPE tube
3	1	Planer 230V/950W
5	1	Heating element 230V/800W
6	1	Heat protected box for planer and heating element
7	1	63mm reducer insert shells set
8	1	90mm reducer insert shells set
9	1	Socket wrench
12	1	Allen key size 3
12	1	Allen key size 4
13	1	Allen key size 5
14	1	Allen key size 6
16	1	Planer knife
17	1	Transport Case

## Users Notes

- This kit is designed and manufactured for butt fusion welding of MDPE or HPPE tube 50mm – 110mm diameter. As Oxfam stock tube kits are standardised on 63mm and 90mm tube, only these insert shells are provided, if other sizes are required these must be ordered separately (contact Logistics for advice).
- The DBW110 kit is a simple and lightweight means of jointing tube, and with well-trained operators can be used to weld up to 500m per day.
- If longer pipe runs are required, the DBW160 may be more appropriate, costing less and requiring less power.
- Alternatively coils of 90mm or 63mm tube may be ordered with compression fittings which eliminates the need for butt welding equipment, however due to their volume and associated high airfreight costs these should only be considered for first-phase emergency purposes or when relatively short pipe runs are necessary.
- The kit requires a single-phase 230V generator providing a minimum of 3kW. (The Oxfam KG6 may be suitable)
- A range of "pupped" fittings is available for use with the DBW110 including end caps, reducers, elbows, T's and flanges. See the DF kits and G fittings for further information.

- Oxfam standard HPPE tube kits are SDR17, rated at 10 bar. In order to ensure that all butt welds will meet the same pressure ratings as the tube, manufacturers instructions should be closely followed.
- In some regions there are simpler means of producing butt welds using gas heating but these will not produce a comparable weld quality. These should only be considered as an option when low pressures are required.

#### Local Purchasing Advice

It is unlikely that suitable alternatives will be available in most regions. If alternatives are offered, consider the quality of the equipment and the pressure rating required from the butt-welded joints.

#### Packing and Marking

Items are to be packed in one timber crate, to be labelled "OXFAM CODE DBW110/1" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list to be securely fixed to the outside of the crate.

One packing list, including Oxfam User's Notes and instruction manual for butt fusion welder, to be enclosed in the crate in a grip-seal plastic bag.

Specification date: 22<sup>nd</sup> March 2007

Prepared by: Public Health Engineering Team

## Code DBW 160/1 Butt Fusion Welding Machine 160mm

Gross weight: kg  
 Volume: m<sup>3</sup>  
 Dimensions: cm  
 Approximate unit cost: £4791

**D**

**Note: This is to be ordered with a generator (Oxfam Code KG6)**

Item	Qty	Description
1	1	Widos 4400 butt welding machine No.160100, for 63 and 90mm HPPE and MDPE tube
2	1	Hydraulic power source 230V/315W No. 1011230
3	1	Planer 230V/950W No.1604220
4	2	Flexible hydraulic hoses with quick-action couplings No.VSCHL4400
5	1	Heating element 230V/800W No.H4400E
6	1	Heat protected box for planer and heating element No.EIN4400
7	1	63mm reducer insert shells set, No.1608063
8	1	90mm reducer insert shells set, No.1608090
9	1	Socket wrench 24mm No.ZRS24
10	1	Allen key with T grip, size 3 No.ZIT03
11	1	Allen key with T grip, size 4 No.ZIT04
12	1	Allen key size 3 No.ZIG03
13	1	Allen key size 5 No.ZIG05
14	1	Allen key size 6 No.ZIG06
15	1	Hydraulic oil 1l No.HLPD35
16	1	Planer knife No.MES085
17	1	Transport Case No.TK4400

## Users Notes

- This kit is designed and manufactured for butt fusion welding of MDPE or HPPE tube 50mm – 160mm diameter. As Oxfam stock tube kits are standardised on 63mm and 90mm tube, only these insert shells are provided, if other sizes are required these must be ordered separately (contact Logistics for advice).
- The DBW160 kit is a reliable, robust and durable means of jointing tube, and with well-trained operators can be used to weld over 2 km per day.
- If shorter pipe runs are required, the DBW110 may be more appropriate, costing less and requiring less power.
- Alternatively coils of 90mm or 63mm tube may be ordered with compression fittings which eliminates the need for buttwelding equipment, however due to their volume and associated high airfreight costs these should only be considered for first-phase emergency purposes or when relatively short pipe runs are necessary.

- The kit requires a single-phase 230V generator providing a minimum of 4kW. The Oxfam KG6 is suitable for this purpose and should be ordered separately
- Tube may either be jointed on-site or remotely, as lengths of 60m (90mm) - 100m (63mm) may be coiled and transported locally by truck.
- A range of "pupped" fittings is available for use with the DBW160 including end caps, reducers, elbows, T's and flanges. See the DF kits and G fittings for further information.
- Oxfam standard HPPE tube kits are SDR17, rated at 10 bar. In order to ensure that all butt welds will meet the same pressure ratings as the tube, manufacturers instructions should be closely followed.
- It is possible to dismantle tube runs by cutting and re-planning the ends prior to re-jointing.
- In some regions there are simpler and cheaper means of producing butt welds using gas heating but these will not produce a comparable weld quality. These should only be considered as an option when low pressures are required.

#### Local Purchasing Advice

It is unlikely that suitable alternatives will be available in most regions. If alternatives are offered, consider the quality of the equipment and the pressure rating required from the butt-welded joints.

#### Packing and Marking

Items are to be packed in one timber crate, to be labelled "OXFAM CODE DBW160/1" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list to be securely fixed to the outside of the crate.

One packing list, including Oxfam User's Notes and instruction manual for butt fusion welder, to be enclosed in the crate in a grip-seal plastic bag.

Specification date: 22<sup>nd</sup> March 2007

Prepared by: Public Health Engineering Team

Code DA/2

Distribution Adaptation Kit

Gross weight: 68 kg  
 Volume: 0.115 m<sup>3</sup>  
 Dimensions: 44 × 62 × 42 cm  
 Approximate unit cost: £495.00

**D**

Item	Qty	Description
1.	2	4" hex nipple GS
2.	2	4" equal tee (F) GS
3.	2	4" (F) × 3" (F) reducer GS
4.	3	3" hex nipple GS
5.	3	3" equal tee (F) GS
6.	2	3" (F) × 2.5" (F) reducer GS
7.	3	3" (F) × 2" (F) reducer GS
8.	3	3" (M) × 2" (F) reducer GS
9.	2	3" (F) × 1" (F) reducer GS
10.	1	2.5" equal tee (F) GS
11.	2	2.5" hex nipple GS
12.	1	2.5" brass gate valve
13.	4	2" hex nipple GS
14.	2	2" hose connector (F), c/w washer clinch ring and hose clip
15.	2	2" equal tee (F) GS
16.	1	2" (F) × 1.5" (F) reducer GS
17.	1	2" (F) × 1" (F) reducer GS
18.	2	1.5" hex nipple GS
19.	1	1.5" brass gate valve
20.	1	1.5" (F) × 1" (F) reducer GS
21.	6	Guillemen × 2" BSP (M) aluminium coupling c/w washer and clinch ring (code 1020.529 R.Pons catalogue)
22.	2	Guillemen × 3" BSP (M) aluminium coupling c/w washer and clinch ring
23.	2	Storz × 2" BSP (M) aluminium coupling (code 1907.582 R.Pons catalogue)
24.	1	Guillemen clinch ring key 20–65 mm (code 3920.981 R.Pons catalogue)
25.	20	Rolls of PTFE tape
26.	5	Tubes of silicon type sealant, suitable for air freight
27.	1	Mastic gun for use with above tubes of sealant

#### User's Notes

This kit contains a range of fittings that may be useful for linking Oxfam standard items into other systems. For example, 4" pipe work for existing mains or borehole outlets, 2.5" connections for water trucks, Guillemen fittings for connections to MSF equipment.

#### Packing and Marking

All items to be packed in one wooden crate, to be marked "OXFAM CODE DA/2" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the crate.

One packing list in a plastic bag to be enclosed in the crate

Specification date: 14 January 1998

Prepared by: Public Health Engineering Team

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## Category F

### Water Treatment and Testing

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<b><i>The items in italics are not Oxfam stock items:</i></b>		
<i>The following kits are not commonly used, but the specifications have been prepared to facilitate the quick purchase and deployment of these items if required.</i>		
Code FBR/1	<i>M-FC Broth for Delagua Water Testing Kit</i>	117
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Code <i>FMF/1</i> <i>Microfiltration Membrane for Protozoa Removal</i>	121
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**Code FAS/3 Aluminium Sulphate (1000 kg)**

Gross weight: 1000 kg  
Volume: 0.877 m<sup>3</sup>  
Dimensions: 131 x 108 x 62 cm  
Approximate unit cost: £490.00

Item	Qty	Description
1.	1000 kg	40 x 25 kg polybags of 17% ground aluminium sulphate, iron free



Supplier Product Code: **ALUM17%10M**

This item is classified as non-hazardous for air and sea freight.

**Packing and Marking**

Item to be securely packed on a pallet. Pallet to be marked "OXFAM CODE FAS/3".

**Packing List**

One packing list in a plastic bag to be securely fixed to the pallet.

Specification date: 11th August 2004

Prepared by: Public Health Engineering Team

Code FASD/3

Alum Suction Side Dosing Kit

Gross weight: 85 kg  
 Volume: 0.551 m<sup>3</sup>  
 Dimensions: 98 x 74 x 76 cm  
 Approximate unit cost: £529.88

**F**

Item	Qty	Description
1.	1	210 litre MDPE round tank with lid fitted with an internal filter, bulkhead fitting, outlet located in bottom of tank and on/off PVC ½ " valve with threaded sockets (female)
2.	1	2 m of 12 mm dia. clear flexible pipe, c/w 4 jubilee clips
3.	2	½" (M) BSP to 12 mm PVC hose tail
4.	1	½ "Georg Fischer type 323 (or equivalent) PVC metering ball valve, with threaded sockets (female)
5.	1	½ " Variable area flow meter PVC, 15 – 150 l/h, with threaded sockets (female)
6.	1	½ " (M) galvanised nipple
7.	1	½" (F) galvanised elbow
8.	1	1" (M) to ½" (M) reducing nipple
9.	1	3" (F) to 1" (F) galvanised reducing Tee
10.	1	3" BSP (F) brass flow control gate valve
11.	1	3" galvanised nipple
12.	2	3" to 2" galvanised reducing nipples (M) (to use with PR2 pumping kit)
13.	2	2" BSP (F) maleable iron hose couplings and hose clips (to use with PR2 pumping kit)
14.	2	3" BSP (M) maleable iron hose couplings, and hose clips (to use with P2 pumping kit)
15.		4" to 3" galvanised reducing nipples (M) (to use with P4 and P4H pumping kit)
16.	2	4" BSP (F) maleable iron hose couplings) hose clips (to use with P4 and P4H pumping kit)
17.	1	Roll of Gaffa tape (to fix the flow meter)
18.	2	Rolls PTFE tape
19.	1	25 kg sack of aluminium sulphate

### Packing and Marking

All items to be packed in a sturdy plywood box, with hinged end panel provided to allow access to flow meters. Box to be marked "OXFAM CODE FASD/3" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the box.  
One packing list in a grip-seal plastic bag to be placed enclosed in the box.

Specification date: August 2006  
Prepared by: Public Health Engineering Team

**F**

### Code FAT/1 Autoclave Sterilisation Tape

Gross weight: 1kg  
Volume: 0.0008  
Dimensions: 13 x 13 x 5 cm  
Approximate unit cost: £18



This tape is to be used to indicate whether the sterilisation process has occurred properly or not. It is to be used when preparing and sterilising the media (Lauryl Sulphate Broth) and plates for the Delagua Water Testing Kit.

Item	Qty	Description
1	2	1" 60 yard roll of yellow "masking" type tape with same coloured stripes.

### User's Notes

- This tape should be used when sterilising the culture media for the Delagua Water Testing kit as well as preparing and sterilising the petri dishes.
- The stripes on this tape will change colour after 15mins at 121°C (at 15lbsi) indicating that proper sterilisation has occurred.

Specification date: 19<sup>th</sup> March 2007  
Prepared by: Public Health Engineering Team

Code FCCD/3

Chlorine Constant Rate Dosing Kit

Gross weight: 35 kg  
 Volume: 0.336 m<sup>3</sup>  
 Dimensions: 60 × 100 × 56 cm  
 Approximate unit cost: £329



F

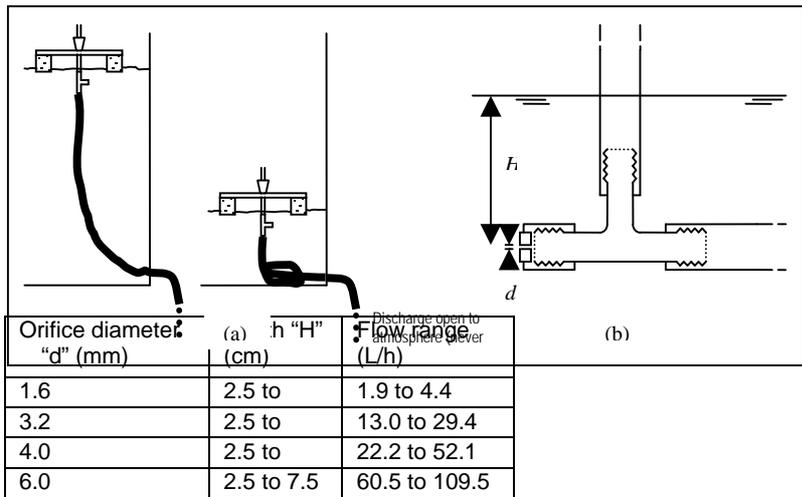
Item	Qty	Description
1.	1	100 litre tank, 600 × 400 × 400 deep including cover, with 2 holes (to fit barbed bulkhead fittings for 6mm tubing) on the side of tank, 25 mm from the bottom.
2.	1	Constant head dosing device, made from floating device with barbed bulkhead fitting through it, to connect to 6.4mm inside Ø soft silicone tubing fixed underside. T-shaped polypropylene tubing connector to connect 6.4 inside Ø soft silicone tubing to the underside of the floating device and to 1 of the barbed bulkhead fitting on the side of the tank.
3.	1	Set of 3 Orifice caps (made by stacking tubes) to fit over third end of T-shaped connector: - inside Ø: 1.6mm or same range - inside Ø: 3.2mm or same range - inside Ø: 4.8mm or same range
4.	1	Tungsten weight attached to soft silicone tubing inside the tank, to prevent potential tube floatation.
5.	1	Plywood dosing tank platform, made from kit box
6.	4m	Soft silicone tubing, inside Ø: 6.4mm to connect kit to high level tank outlet. Tube to be fitted (at a convenient location) with a polypropylene stopcock only for ON/OFF purpose.
7.	1	Soft silicone tubing fixed to second tank barbed bulkhead fitting and attached vertical to the side of the tank to monitor solution depth in the tank.
8.	1	Frame to mount dosing device onto side of 2.6 m tank (T11) or 6.4 m tank (T45/70/95), made from 85 mm × 30 mm galvanised purlin, with 2 Tee sections, head of Tee 490 mm and arm 900 mm
9.	1	3" - 2" threaded PVC reducing Tee (F)
10.	1	2" (M) to 1½" (F) threaded PVC reducing bush
11.	1	1½" threaded PVC barrel nipple (M-M) pierced at two levels to allow insertion of cable ties to maintain the soft silicone tube; with threaded (F) cap (to close when kit not in use)
12.	1	Metal rod, Ø corresponding to barbed bulkhead fitting (to make holes in tank and floater bought in country; after warming)
13.	1	Set of safety goggles and safety gloves (large) to work with chlorine solution.

- 14. 1 Cable ties, gaffa tape, silicone gel (to fix tubing and connections)
- 15. 1 Tape measure, 250ml transparent graduated cylinder, stopwatch, tube cutter (to calibrate the dosing device, see user's notes)

**User's Notes**

All pipes and the tank must be chlorine resistant.  
 The constant rate dosing kit must be calibrated before use (item 15. provides the basic tools to perform the calibration).  
 The following table (based on trial tests) provides a starting point for the calibration:

**Flow rates of several orifice diameters tested over a range of depths.**



**Packing and Marking**

All items to be packed in a cardboard box, to be marked "Oxfam Code FCCD/3" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

**Packing List**

- One packing list in a plastic bag to be securely fixed to the outside of the box.
- One packing list in a grip-seal plastic bags to be placed enclosed in the box

Specification date: 27th April 2007  
 Prepared by: Public Health Engineering Team

**Code FCH/3 Chlorine Granules- Sodium Dichloroisocyanurate Dihydrate**

Gross weight: 25 kg  
 Volume: 0.018 m<sup>3</sup>  
 Dimensions: 30 x 20 x 30 cm  
 Approximate unit cost: £13.90

**F**

Item	Qty	Description
1.	1	25 kg of sodium dichloroisocyanurate dihydrate, quality conforming to: <ul style="list-style-type: none"> <li>➤ NSF/ANSI Standard 60</li> <li>➤ JECFA Specification</li> <li>➤ EN12932: Chemicals used for Treatment of Water Intended for Human Consumption – Chemicals for Emergency use – Sodium Dichloroisocyanurate, Dihydrate</li> </ul> 55% Active chlorine

User's Notes

**DOSING LEVELS**

Chlorine Dose Required	Volume of 1% Solution to be Added to				
	10 litres	100 litres	1000 litres	10000 litres	100000 litres
1 mg/l	1ml	10ml	100ml	1 litre	10 litres
5 mg/l	5 ml	50 ml	500 ml	5 litres	50 litres
10 mg/l	10 ml	100 ml	1 litre	10 litres	100 litres

For effective chlorination, it is recommended that a 1% available chlorine solution is made up, as follows:

Add 20g Granules per litre of water

(Where scales are not available, 1 teaspoon is very approximately 14g – this is not a reliable measure, and the use of scales is recommended)

Method:

- 1) Weigh out and dissolve 20g of Granules in 1 litre of water. Stir to dissolve.
- 2) The 1% (10000 mg/l available chlorine) solution is used to disinfect larger quantities of water
- 3) Pre-treatment should ensure that the water turbidity is less than 5 NTU before chlorinating
- 4) Ensure that a minimum contact time of 30 minutes is allowed before consumption

- 5) Ensure a thorough mix, by recirculation where appropriate
- 6) Always test for residual chlorine levels. It is desirable to leave a residual chlorine level of 0.3-0.5 mg/l after 30 minutes contact
- 7) Shelf life 5 years

#### Packing and Marking

Container to be clearly marked "OXFAM CODE FCH/3"

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the case.

Specification date: 11th May 2007

Prepared by: Public Health Engineering Team



#### Code FCT/1 Chlorine Tablets (Trichloroisocyanuric Acid)

Gross weight: 12 kg  
 Volume: 0.019 m<sup>3</sup>  
 Dimensions: 25 x 31 x 25 cm  
 Approximate unit cost: £19.00

Note: This is classed as HAZARDOUS for airfreight. The unit cost does not include the charges incurred for hazardous packing.

Item	Qty	Description
1.	50	200 gram chlorination tablets, each containing Trichloroisocyanuric acid as active constituent FI-CHLOR Maxi tabs – slow dissolving (10 kg)

#### Packing and Marking

Item should be packed to IATA hazardous packing specification 511 II. Drum to be marked as follows:

- OXFAM CODE FCT/1
- Trichloroisocyanuric acid
- Class 5.1
- Oxidiza
- UN 2468

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the drum.

Specification date: 21 July 1998

Prepared by: Public Health Engineering Team

**Code FCF/1 Combined flocculent and disinfectant sachet**

Gross weight: 3.6 kg  
 Volume: 0.012 m<sup>3</sup>  
 Dimensions: 32 x 25 x 15cm  
 Approximate unit cost: £30

Item	Qty	Description
1.	500	Combined flocculent and disinfectant sachet – designed to treat 15-20 Litres of Water

**F****Users Notes**

Typically, for use in flooding type scenarios where people are still in their houses and it is impossible to have a centralised water point. After explaining to families how to use the sachet they should be given up to a months supply solely for drinking water. This strategy is only for the first few weeks of an emergency.

- Add contents of sachet to 15-20 litre container and stir
- Wait 30 minutes then pour water into another container with a cloth or metal filter to prevent residual passing through to the drinking water container.
- The water is then ready for drinking

**Packing and Marking**

Each pack labelled FCF to contain 500 sachets

**Local Purchasing Advice**

There are a number of different products on the market which do this function please ask Oxford for information before purchasing locally

Specification date: March 2007  
 Prepared by: Public Health Engineering Team

Code FCWT/1	Chemical Water Quality Test Kit
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Gross weight:	3kg
Volume:	0.045m <sup>3</sup>
Dimensions:	39 x 34 x 34 cm
Approximate kit cost:	£470

Consumables for 50 tests included

**Note:** Some of the ranges go up to the maximum allowable WHO limit. In situations like this it might be important to undertake dilution of the sample water using distilled water:

Item	Qty	Description
1.	1	<b>Standard Comparator Kit</b> (PT 520)
2.	1	<b>Fluoride:</b> Comparator Disc CD 179 kit, <b>range 0-1.5 mg/l</b>
3.	1	<b>Iron</b> comparator Disc CD292 kit, <b>range: 0-10mg/l</b>
4.	1	<b>Manganese</b> Comparator Disc CD 173 kit, <b>range 0-0.03mg/l</b>
5.	1	<b>Nitrite</b> Comparator Disc CD 109 kit, <b>range: 0-0.4mg/l</b>
6.	1	<b>Nitrate</b> Comparator Disc CD 163 kit, <b>range: 0-15mg/l</b>
7.	1	<b>Sulphide</b> Comparator Disc CD168 kit, <b>range: 0- 5mg/l</b>
8.	1	<b>Zinc</b> Palintest Comparator Disc CD 148 kit, <b>range: 0-4.0mg/l</b>
9.	1	<b>Chloride</b> Palintest Comparator PK 079 kit, <b>range: 0 – 1000mg/l</b>
10.	1	<b>Arsenic</b> Palintest PT199A Test kit, <b>range: 0.01-1.00</b>
11.	1	<b>Aluminium</b> Palintest CM166



#### User's Notes

##### Arsenic

Arsenic is one of the water contaminants that cause cancer when consumed through drinking water. It occurs through out the earth's crust in the form of arsenic sulphides, metal arsenates and arsenides. In water it commonly occurs as arsenate and arsenides.

Arsenic can be introduced into water through the dissolution of rocks, minerals and ores, from industrial effluents including mining wastes

**WHO guideline value for arsenic is 0.05mg/l**

##### Fluoride:

Fluorides are compounds of element Fluorine that does not occur in its elemental state because it is highly reactive. Fluoride traces are present in water mainly in waters associated with ground water sources. In higher concentrations it does cause staining of teeth and backbone problem at old age.

**WHO allowable guideline value for Fluoride is 1.5 mg/l.**

The range of the disk comparator is 0-1.5mg/l, for situations where we have higher fluoride content waters it is possible to use dilution of the water sample using distilled water for the determination of the fluoride content.

**Chloride**

Chlorides occur in nature as different types of salts such as Sodium Chloride, Potassium Chloride, and Calcium Chloride. Chloride is concentrated in human and animal urine, and therefore pollution of surface water by sewage waste can increase the chloride content in surface water. Chlorides with Sodium cations have detectable salty taste, but if the cation calcium or manganese, the salty taste might not be apparent even up to higher level of chloride as high as 1000mg/l. Increased level of chlorides in water increases its corrosivity

**WHO Guideline figure for chloride concentration in water is 250 mg/l.**

**Iron**

Iron is a metal that exists in nature abundantly (the second most abundant). It mostly exists in nature in the form of Oxides. Iron occurs in anaerobic ground waters at different concentrations. Higher concentration of iron in water causes noticeable (disagreeable) taste and staining and discoloration of pipes and pipe-fittings.

**WHO guideline figure for Iron is 0.3 mg/l**

**Manganese**

Manganese is an element that occurs naturally and is found in rock, soil, water and food. It usually occurs together with Iron. Surface waters do not usually contain Manganese, because the Oxygen in the water oxidises the manganese and settles down as sediments. Higher concentration of manganese in water causes black-brown staining of pipes and pipe fittings and creates an objectionable taste for drinking

**Aluminium**

Aluminium is an element that is present in all natural waters and is the third most common element in the earth's crust. Aluminium salts such as Aluminium Sulphate are also used as coagulants. Higher concentration of Aluminium residual in drinking water might have some possible association to Alzheimer's disease.

WHO guideline figure for allowable residual Aluminium is 0.2 mg/l

**Nitrate & Nitrite**

Nitrate and Nitrite do occur naturally as ions as parts of Nitrogen Cycle. Concentrations of nitrate and nitrite can be higher in water as a result of contamination from agricultural run-off (fertilisers), run off from refuse dumps and contamination of water with human and animal wastes.

WHO guideline figure for Nitrate is 10mg/l, for Nitrite it is 3mg/l

**Zinc**

Zinc is an element that occurs in almost all rocks in small amounts. In surface and ground waters it exists in small concentrations. The concentration of Zinc in water can increase as a result of leaching from pipes and pipe fittings and of course from zinc roof covers.

**WHO guideline level for zinc in water is 5mg/l.** The disc comparator range in the kit is

0-4mg/l, and therefore it will not possible to determine the level of zinc in the sample up to the maximum WHO guideline level, using this kit.



**Ordering replacement reagents:**

**When ordering replacement reagents for this kit please specify the following Palin codes which are each for a pack of 250 tablets. Prices shown are for guidance only:**

Aluminium:	AK 166	£42
Chloride:	AS 079	£50
Fluoride:	AK 179	£50
Iron (Medium range)	AK 292	£55
Manganese	AK 173	£42
Nitrate	AK 163	£62
Nitrite	AK 109	£24
Sulphide	AK 169	£62
Zinc	AK 148	£64
Replacement test tubes, pack of 5	PT 521/5	£10

**Packing and Marking**

Pallet to be clearly marked "OXFAM CODE FCWT/1"

**Packing List**

Packed in a sturdy carton, with packing list securely fixed in a plastic bag to the outside of the box, and another list inside. Clearly marked "Oxfam Code FCWT/1"

Specification date: 22<sup>nd</sup> February 2006

Prepared by: Public Health Engineering Team

**Code FD1/1**

**DPD1 Water Testing Tablets**

Gross weight: 0.5kg  
 Volume:  
 Dimensions:  
 Approximate unit cost: £8.91

**Item Qty Description**

1. 1 pack 250 Palintest DPD1 water testing tablets – rapid dissolving type (part no. AT010)

**User's Notes**

For use with a pooltester to test for free chlorine residual in water

**Packing**

- To be packed in a cardboard box coded FD1/1

Specification date: 16<sup>th</sup> March 2007

Prepared by: Public Health Engineering Team

Code FDS/1

TDS Conductivity Meter

Gross weight: 0.3 kg  
 Volume: 0.001 m<sup>3</sup>  
 Dimensions: 16 x 9 x 4 cm  
 Approximate unit cost: £48.03



F

Item	Qty	Description
1.	1	TDS sensor, range 100–10 000 ppm (mg/l), TDS. Pocket sized, for checking the total dissolved solids content of water and aqueous solutions. The TDS Sensor calibration is based on the established factor that TDS equals conductivity x 0.7 at 25°C. Battery life approximately 200 hours (Batteries 4 x 1.4 V Duracell MP 675H)

#### User's Notes

- Should the sensor not function correctly this may be due to dirty electrodes, run down batteries or because the sensor needs recalibrating.
- To clean the electrodes, periodically leave the sensor immersed in alcohol or methylated spirits up to the immersion level for a few minutes.
- To change the batteries, pull out the battery case and replace the batteries.
- To recalibrate dip the sensor in Palintest Standard DIST Solution (PT 155). Adjust the sensor to read equivalent to 1800 mg/l by turning the calibration trimmer using a small screwdriver.

Specification date: 14 January 1998  
 Prepared by: Public Health Engineering Team

**Code FDIP/1 Di-ionisation Pack for water purity**

Gross weight: 0.5kg  
 Volume:  
 Dimensions:  
 Approximate unit cost: £19.04



This pack will provide up to 5 litres of de-ionised water from mains or from any clean water source, which is suitable for making up the Lauryl Sulphate broth used in the Delagua Water Testing kit.



Item	Qty	Description
1	2	Small plastic bag filled with blue black granules that turn yellow once the granules are saturated with ions.

**User's Notes**

- Any source of "clean water can be used. The "raw" water is poured into the back and then shaken for a few seconds for the ions to attach to the granules. The water is ready to use.
- This will prevent the need for sourcing distilled water, which can be problematic in more isolated locations
- This item should also be purchased when ordering the Delagua Water Testing kit (Oxfam Code FK/2), the Consumables for the delagua water testing kit (Oxfam Code FK/4) or the Autoclave tape (Oxfam Code FAT)

Specification date: 19<sup>th</sup> March 2007  
 Prepared by: Public Health Engineering Team

Code FFP/1

Floating Pot Chlorinator

Gross weight: 2 kg  
 Volume: 0.0374 m<sup>3</sup>  
 Dimensions: 36 x 40 x 26 cm  
 Approximate unit cost: £47.97



F

Item	Qty	Description
1.	3	Solid adjustable plastic floating holder complete with lid
2.	1	Free – chlorine residue testing kit comprising: <ul style="list-style-type: none"> <li>• 200 DPD1 Tablets</li> <li>• 50 Phenol Red Tablets</li> <li>• 1 Comparator, range 0.1 to 1.0 mg/l chlorine, 6.8 to 8.2 pH (Palintest SP610 or equivalent)</li> </ul>

#### Packing and Marking

Items to be packed in one substantial carton, marked "OXFAM CODE FFP/1" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the carton.  
 One packing list to be placed enclosed in the carton.

Specification date: 31 July 1998  
 Prepared by: Public Health Engineering Team

**Code FHF/1** 100 Ceramic candle household filters

Gross weight: 212 kg  
 Volume: 1.8 m<sup>3</sup>  
 Dimensions: 150cm x 120cm x 100 cm  
 Approximate unit cost: £1505

**Item Qty Description**

- |    |   |  |
|----|---|--|
| 1. | 1 pallet of 100 household filters containing: | 200 Stefani Ceramic Candle filters – Pore size 0.5 u . 1 year lifetime<br>200 16 Litre food grade polypropylene container with flat tightly fitting lids and pre drilled holes<br>100 Tap 011 1/s flow rate<br>100 A4 Pictorial leaflet on operation and maintenance of the filter |
|----|---|--|

**User Notes**

The filter should be assembled before distribution and the family clearly informed when they are given it about when to pre-filter the water, e.g. when the source water is a dirty brown colour it should be allowed to settle before pouring into the top container or filtered through a clean muslin cloth. The family should be taught how to clean the ceramic candles and filter regularly.

This kit has been developed for use in emergencies where the population is dispersed and a centralised water treatment & distribution system would not be appropriate e.g. a flooding event in a rural community. Where local containers can be purchased it may be cheaper and quicker to buy local containers, with a flat lid so that one container can sit stably on the other and order the ceramic candle filters and taps from Oxfam. Each candle is between £1.6 & £2.3 depending on the quantity ordered and location, taps are 80p each. Holes would then need to be drilled for the candles and tap. The Stefani candle was selected after extensive testing and was proven to be one of the highest quality filters in this price range. If thinking of using local candles please consult Oxfam's Public Health Engineering Department.

While this has been developed as a short term emergency strategy, where possible local businesses should be encouraged e.g. given the suppliers details to buy in stocks so that families can buy replacements when necessary.

**Packing**

One pallet containing 200 water containers and lids, packed securely in the centre of a pallet, 200 ceramic candles and 100 taps. Pallet to be clearly marked "OXFAM CODE FHF/1"

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the carton.  
 One packing list to be placed enclosed in the carton.

Specification date: 18 August 2003  
 Prepared by: Logistics

**Code FHFCT/1 100 Ceramic candle filter kits****(Each kit contains 3 candles & 1 tap)**

Gross weight: kg  
 Volume: m<sup>3</sup>  
 Dimensions: cm x cm x cm  
 Approximate unit cost: £550

**F**

Item	Qty	Description
1.	300	Stefani ceramic candle filters
2.	100	Plastic Taps
3.	2	Drill bit 19mm (wood)
4.	2	Drill bit 10mm (wood)

**User Notes**

The kit is designed for 100 three candle filters in areas where there are no locally available candles and taps but where it is possible to locally purchase flat topped containers.

**Packing**

Pallet to be clearly marked "OXFAM CODE FHFCT/1"

Specification date: 18 August 2003  
 Prepared by: Public Health Engineering Team

**Code FK/2 Delagua Water Testing Kit - 240 V**

Gross weight: 15 kg  
 Volume: 0.080 m<sup>3</sup>  
 Dimensions: 47 x 47 x 36 cm  
 Approximate unit cost: £1086.80

Item	Qty	Description
1.	1	Pair of turbidity tubes
2.	1	Chlorine/pH comparator
3.	1	Incubator lid
4.	3	Stacks of 16 Petri dishes with carriers
5.	1	Methanol dispenser
6.	10	Autoclavable culture medium bottles
7.	1	Lighter

- 8. 1 Forceps
- 9. 1 Vacuum cup
- 10. 1 Sample cable
- 11. 1 Vacuum pump
- 12. 1 Absorbent pad dispenser
- 13. 1 Filtration apparatus:
  - plastic collar
  - funnel
  - bronze disc
  - 2 silicon rings
  - aluminium base
  - rubber sealing ring
- 14. 1 Spares case:
  - battery connection cable
  - spare silicone rings
  - spare bronze disc
  - spare rubber sealing rings
  - silicon grease
- 15. 1 Battery charger, 110/240 V AC input, 12 V DC output
- 16. 1 set Consumables for 200 tests as follows:
  - 200 Membrane filters
  - 200 Filter pads
  - 2 38 g sachets of membrane lauryl sulphate broth
  - 200 Palintest DPD1 rapid tablets (part no. AT010)
  - 100 DPD3 tablets
  - 200 Phenol red tablets



#### User's Notes

- The conductivity meter and battery charger (240 V) can be ordered separately if required.
- There is now only one Delagua Water Testing Kit, which can be used with an input of 110 or 240 V AC.
- Delagua web site: <http://www.rcpeh.htm>

#### Packing and Marking

Items 1–14 to be packed in one vanity-type carrying case. All items packed in a sturdy triwall carton, marked "OXFAM CODE FK/2" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the carton.  
One packing list, including Oxfam User's Notes, to be placed enclosed in the carton in a grip-seal plastic bag.

Specification date: 8 October 2002  
Prepared by: Public Health Engineering Team

**Code FKC/4 Consumables for Delagua Water Testing Kit**

Gross weight: 2 kg  
 Volume: 0.002 m<sup>3</sup>  
 Dimensions: 19 x 5 x 24 cm  
 Approximate unit cost: £64.30

**Consumables for 200 tests as follows:**

Item	Qty	Description
1.	2 tubs	Gelman absorbent pads, 100 per tub
2.	1 pack	200 each membrane filters
3.	2 tubs	38.1 gram – culture medium (membrane lauryl sulphate broth)
4.	1 pack	Palintest DPD1 rapid test tablets, 250 per pack (part no. AT010)
5.	1 pack	Palintest DPD3 rapid test tablets, 250 per pack (part no. AT030)
6.	1 pack	Palintest phenol red rapid test tablets, 250 per pack (part no. AT130)

The following items are mentioned in the Oxfam Water Testing Kits Support Manual, but are not normally supplied unless specifically requested:

7.	3 sets	16 Petri dishes and carriers, aluminium
8.	2	Broth Pad Dispensers
9.	1 set	3 Gaskets
10.	1	Brass membrane support disk

**The standard consumables can also be ordered separately by using the following codes:**

Code	Qty	Description	Approximate unit cost
FGP/1	2 tubs	Gelman absorbent pads, 100 per tub	£20.00
FSB/1	1 tub	38.1 gram – culture medium (membrane lauryl sulphate broth)	£5.00
FD1/1	1 pack	Palintest DPD1 rapid test tablets, 250 per pack (part no. AT010)	£9.40
FD3/1	1 pack	Palintest DPD3 rapid test tablets, 250 per pack (part no. AT030)	£10.00
FPR/1	1 pack	Palintest phenol red rapid test tablets, 250 per pack (part no. AT130)	£10.00

**User's Notes**

- As there is no longer DPD3 rapid test tablets as standard with the Consumables kit and you are doing mass chlorination programmes where it is essential that you know the Total and Combines Chlorine levels then you need to request these tablets individually

- Please note that are now extra consumables to assist with the sterilisation and general procedures for the petri dishes and Lauryl Sulphate Broth. See FAT and FDIP items
- Delagua web site: <http://www.rcpeh.htm>

Specification date: March 2007  
Prepared by: Public Health Engineering Team

Code FMT/4

Measuring and Testing Kit

**F**

Gross weight: 17 kg  
Volume: 0.114 m<sup>3</sup>  
Dimensions: 56 x 39 x 52 cm  
Approximate unit cost: £451.03

Item	Qty	Description
1.	3	Pooltester for both pH and chlorine testing, with 500 DPD1 tablets, 50 DPD3 tablets, 50 Phenol red tablets
2.	1	Check kit for aluminium range 0–0.5 mg/l, with reagents for 130 tests (e.g. Lovibond AF520 or similar)
3.	1	Check kit for total iron (II + III), range 0–10 mg/l, with reagents for 30 tests (e.g. Lovibond AF524 or similar)
4.	1	PH checker, range 0–14 c/w tablets for calibration (e.g. Whatman catalogue number 6602 3650 or similar)
5.	1	TDS sensor, high range 100–10 000 ppm (e.g. Palintest stick meter or similar)
6.	1	Thermometer, range –10 to +50°C (spirit filled, non-hazardous) c/w protective tube/case
7.	1	Turbidity tube (Palintest PT513 – 26" two part or similar)
8.	1	6.5 cm diameter plastic funnel
9.	1	50 ml plastic measuring cylinder
10.	6	1000 ml plastic beakers, with 100 ml graduations
11.	10	100 ml plastic sample bottles, with 10 ml graduations
12.	3	10 ml plastic syringe with 1 ml graduations
13.	4	9 litre buckets with lids, with 1 litre graduations
14.	2	0.3 m long plastic stirring rods
15.	2	Stainless steel dining forks (as per kitchen use)
16.	1	Stopwatch (Casio HS5 or similar) c/w batteries

## 17. 1 Oxfam Water Testing Kits Support Manual

Items 8–13 to be made from plastic resistant to sodium and calcium hypochlorite solutions.

#### Packing and Marking

All items to be packed in a sturdy triwall carton, marked "OXFAM CODE FMT/4" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

**F**

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the carton.  
One packing list to be enclosed in the carton in a grip-seal plastic bag.

Specification date: 14 April 2000

Prepared by: Public Health Engineering Team

#### Code FPO/1

#### Pooltester for Chlorine/pH Testing

Gross weight: 0.3 kg  
Volume: 0.001 m<sup>3</sup>  
Dimensions: 10 x 5 x 10 cm  
Approximate unit cost: £9.90



Item	Qty	Description
1.	1	Palintest – SP610 Pooltester (Chlorine/pH comparator)
2.	20	DPD1 tablets (20 Cl residual tests)
3.	10	Phenol Red tablets (20 Ph tests)
4.	10	DPD3 Tablets (20 Total Cl tests)

#### User's Notes

For extra consumables order Oxfam code FD1/1 for DPD1 (250) and FPR /1 for Phenol Red (250)

Specification date: 18<sup>th</sup> May 2007

Prepared by: Public Health Engineering Team

**Code FPU/1 14/20 Litre Water Disinfection Tablets**

Gross weight: 16 kg  
 Volume: 0.108 m<sup>3</sup>  
 Dimensions: 40 x 52 x 52 cm  
 Approximate unit cost: £397.80



Item	Qty	Description
1.	204	Pots of 100 tablets (20 400 tablets in total), weight 350 mg each tablet. Each tablet to contain 70 mg of sodium dichloroisocyanurate, which will provide approximately 2.1 ppm available chlorine when used in 20 litres of water or 3 ppm in a 14 litre Oxfam water container

**User's Notes**

- One pot holds sufficient tablets to disinfect (low turbidity) water for approximately 1½ months for one family of five people, at a rate of 6–9 litres of drinking/food preparation water per person per day. (Sphere recommends min 15 litres/per/day, of which at least 5 litres should be for drinking/food use.) Thus 1 No code FPU would be sufficient for 200 families or 1000 people for 1½ months.
- Instructions for use will be attached to each pot as follows:
- English: 'Oxfam GB. Pot holds 100 tablets. Use 1 tablet as "medicine" in water storage vessels of 14 or 20 litres size. Taste of chlorine may be stronger in smaller storage vessels container size.'
- French: 'Ce pot d'Oxfam-GB contient 100 cachets. Utilisez un cachet comme "médicament" dans des conteneurs d'eau de 14 ou 20 litres. Le goût de chlore peut être plus fort dans des conteneurs d'eau de plus petite taille.'
- Spanish: 'Oxfam GB. Los frascos tienen 100 pastillas. Utilice una pastilla como medicina en los contenedores de agua de 14 o 20 litros. El sabor a cloro será más fuerte en los contenedores de agua más pequeños.'

**Packing and Marking**

100 tablets to be packed in white plastic pot with a tamper evident, moisture proof cap. Each pot to have a self-adhesive label attached, containing the instructions above.

204 pots to be packed in strong cardboard box. Box to be marked "OXFAM CODE FPU/1" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the box.

One packing list, including Oxfam User's Notes, to be enclosed in the box in a grip-seal plastic bag.

Specification date: 20 March 2001

Prepared by: Public Health Engineering Team

**Code FS/1 Non- electric steam steriliser kit**

Gross weight:  
Volume:  
Dimensions:  
Approximate unit cost: £175  
cost:



This kit is designed to be used when preparing and sterilising the media (Lauryl Sulphate Broth) and petri dishes for the Delagua Water Testing Kit (Oxfam Code FK/2), heating to a maximum 126°C.

**F**

Item	Qty	Description
1	1	16 litre non-electric steriliser, Cole-Parmer model WZ-10785-00, with cast aluminium rack.

**User's Notes**

- This kit can be used with Oxfam Code FAT/1 Autoclave Sterilisation Tape to indicate whether the sterilisation process has occurred properly or not.

**Packing and Marking**

Packed in a sturdy tri-wall carton, marked "OXFAM CODE FS/1", with gross weight and dimensions clearly shown.  
One packing list in a plastic bag to be securely fixed to the outside of the carton.  
One packing list to be placed inside the carton.

Specification date: 23<sup>rd</sup> May 2007  
Prepared by: Public Health Engineering Team

**Code FTT/1 Turbidity Tube**

Gross weight: 0.5 kg  
Volume: 0.001 m<sup>3</sup>  
Dimensions: 5 x 5 x 25 cm  
Approximate unit cost: £37.31  
cost:

Item	Qty	Description
1.	1	Palintest PT513 26", two part Turbidity tube

Specification date: 17 November 1997  
Prepared by: Public Health Engineering Team

## Code FWT/1

## Water treatment unit

Gross weight: kg  
 Volume: m<sup>3</sup>  
 Dimensions: cm  
 Approximate unit cost: £8,000

Item	Qty	Description
1.		Exactly model to be decided but will conform to the criteria: <ul style="list-style-type: none"> <li>➤ Pressure filter outflow between 6 to 10 cu m/hr</li> <li>➤ Mobile unit that is easy to transport - sized to fit in the back of a pick up.</li> <li>➤ Quick to set up on site (less than 2 hours from o to clean water production)</li> <li>➤ Is easy to operate - does not require skilled operators</li> <li>➤ Easy to maintain in the field</li> <li>➤ Cost: Below £15,000 per unit</li> <li>➤ Can treat turbidities up to 500 NTU</li> </ul>



## Kit to contain:

2.	1	Pressure filter 6cu m /hr
3.	1	Alum dosing equipment (where necessary)
4.	1	Raw water pump
5.	1	Activated carbon units (where necessary)
6.	1	Chlorine dosing system
7.	1	All fittings and pipe work for full set up. Suction hoses, pump outlet to treatment unit, treatment unit to storage tank (50m)

## User's Notes

The PHE advisers in Oxford are currently testing 4 different water treatment units and we may stock more than one type. Please consult HD before ordering so that we can supply the kit most suited to your particular needs.

Full instructions will come with the kit. Storage tanks are not included with the treatment kit, need to order bladder or an Oxfam tank sized appropriately.

## Packing and Marking

To be packed in one sturdy crate marked "OXFAM CODE FWT with gross weight and dimensions clearly shown. Marks to be on the front and back of the crate, determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

**Packing List**

- One packing list in a plastic bag to be securely fixed to the outside of the crate.
- One packing list to be enclosed in the crate.
- One Treatment Unit instructions in a plastic bag enclosed in the crate

Specification date: 26<sup>th</sup> March 2007

Prepared by: Public Health Engineering Team

**F****Code FX/1****Fibertex F-4M Filter Fabric**

Gross weight: 114 kg  
 Volume: 1.224 m<sup>3</sup>  
 Dimensions: 120 x 120 x 85 cm  
 Approximate unit cost: £246.33



Item	Qty	Description
1.	8	Complete circle of Fibertex F-4m Fabric, cut in 6 pieces by the Oxfam GB Logistics Warehouse, Bicester (as for item 25 of the Oxfam code FF/2)

**User's Notes**

Four layers of fabric per filter are provided. The number of layers depends upon the quality of water, turbidity in particular. More layers may be necessary to maximise filter run-time. For better understanding in the use of filter fabrics, refer to an article titled: 'Protected Slow Sand Filtration: a Specification of Non-Woven Synthetic Fabric Layers' by N. J. D. Graham and T. S. A. Mbwette. This article is available from the Public Health Team (filed under OE.23 Filtration Pack.)

**Packing and Marking**

Items to be packed in one strong woven polypropylene bag, marked "OXFAM CODE FX/1" with gross weight and dimensions clearly shown.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the bag.  
 One packing list, including Oxfam User's Notes, to be enclosed in the bag in a grip-seal plastic bag.

Specification date: 31 January 2000

Prepared by: Public Health Engineering Team

**Code FBR/1 M-FC Broth for Delagua Water Testing Kit**

Gross weight: 0.2 kg  
Volume: 0.001 m<sup>3</sup>  
Dimensions: 10 x 10 x 10 cm  
Approximate unit cost: £50

**F**

Item	Qty	Description
1.	50	2 ml Plastic ampoule mFC Broth with Rosolic Acid (Fecal Coliforms) Millipore catalogue ref: MHA000P2F

**User's Notes**

These ampoules **must** be kept in a refrigerator at between 2-10°C. 1 year maximum shelf life if refrigerated. In practice it is possible to hand-carry these in an insulated vaccine carrier provided they are kept in foil sachets.

Specification date: 22 August 1996  
Prepared by: Public Health Engineering Team

**Code FDO/2 Chlorine/Aluminium Sulphate Dosing Pump****This item is non-stock item**

Gross weight: 50 kg  
 Volume: 0.31 m<sup>3</sup>  
 Dimensions: 78.5 x 54 x 73 cm  
 Approximate unit cost: £1150

**F**

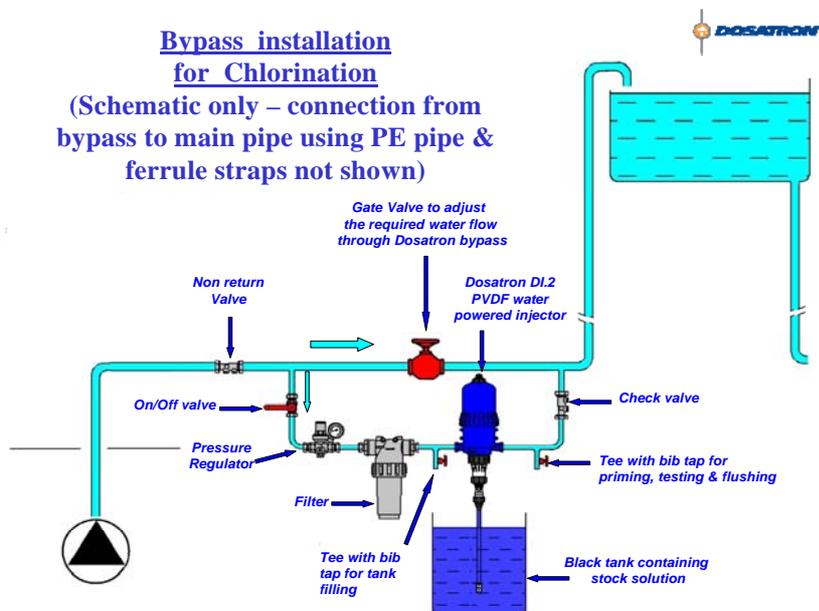
Item	Qty	Description
1.	1	Dosing kit on backing board comprising:-
2.	1	Dosatron DI.2 PVDF 0.5-2% variable dose rate water powered injector (for flows from 0.01m <sup>3</sup> /hr to 2.5m <sup>3</sup> /hr), with bracket & fittings
3.	1	Pressure regulator - inclined pressure reducing valve with pressure gauge connection (air filled manometer, 0-10 bar), chrome plated brass body, 3/4" BSP female connections, 16 bar max pressure upstream, 1-6 bar downstream setting pressure range. Note – preset at 3 bar
4.	1	Flow restrictor, 3/4" male x 3/4" female BSP, brass, max flow 2.5m <sup>3</sup> /hr
5.	1	Filter, 3/4" BSP male, black polypropylene, 200 microns, with flushing valve, moulded element, max working pressure 8 bar, max flow rate 3m <sup>3</sup> /hr
6.	1	1" BSP to 32mm compression on/off ball valve, PVC
7.	1	1" x 3/4" BSP threaded reducing bush, plastic
8.	2	3/4" x 3/4" BSP tee, plastic
9.	2	3/4" BSP male / female brass tap, ball type, for tank filling and priming, flushing & testing
10.	2	3/4" BSP male hose adaptors, brass
11.	1	3/4" BSP male threaded nipple, plastic
12.	1	3/4" BSP male / female single check valve, brass
13.	1	3/4" BSP male x 32mm compression adaptor, plastic
14.	1	114 litre tank with lid, black polyethylene
15.	1	Backing board, approx 500 x 750mm, mild steel, white powder coated, drilled with 6 holes suitable for bolts listed below
16.	1	4m length MDPE pipe
17.	2	32mm pipe liner
18.	2	Base plate, mild steel BZP, with welded combi nut, 8/10mm
19.	2	57mm x M10 clip, mild steel BZP
20.	1	1" x M10 clip, mild steel BZP
21.	1	Alternatively, items can be bolted directly to the backing board

22 6	500mm x M10 threaded rod, mild steel BZP, for mounting backing board
23 12	M10 nut, mild steel BZP
24 6	M10 washer, large diameter, mild steel BZP
25 6	M10 washer, small diameter, mild steel BZP
26 6	M8 nut, self-locking, mild steel BZP
27 6	M8 x 20mm set screw, mild steel BZP
28 6	M8 washers, mild steel BZP
29	Threads sealed with PTFE tape and silicone sealant where appropriate
30 1	CD including software for calculating flow and dosage rates
31 1	Packing box, cardboard, for backing board
32 1	Packing crate, OSB, for shipping backing board box, water tank & accessories
33	Accessories also included (to construct by-pass connections and install control valve in main water supply line):-
34 1	Gate valve, 3" BSP, brass
35 2	3" BSP male to 90mm compression (F) adaptor, plastic
36 2	3" male x 2½" female BSP reducing bush, plastic
37 2	2½" BSP male x 63mm compression (F) adaptor, plastic
38 2	63mm ferrule strap to 32mm compression (F), for PE pipe
39 2	90mm ferrule strap to 32mm compression (F), for PE pipe
40 1	Assembly tool for ferrule straps, ferrule key
41 1	Plasson wrench for assembly of compression fittings
42 2	32mm pipe liners
43 2	63mm pipe liners



## User's Notes

**Bypass installation  
for Chlorination**  
(Schematic only – connection from  
bypass to main pipe using PE pipe &  
ferrule straps not shown)



This dosing kit can be used to treat water with chlorine or aluminium sulphate. Final concentration of the chemical in drinking water depends upon:-

- The ratio of main to bypass flow (max 5 units through the main flow for every 1 unit through the bypass)
- Dose rate set on the Dosatron unit (0.5-2% for the DI.2)
- Stock solution strength

For calculations, please refer to the CD included with the kit. The Dosatron can also be used to measure actual bypass flow rate, further details are also available on the CD.

#### Packing and Marking

All items to be packed in a wooden crate, marked "OXFAM CODE FDO/2" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the crate.  
One packing list, including Oxfam User's Notes, to be enclosed in the crate.

Specification date: 5<sup>th</sup> December 2006  
Prepared by: Public Health Engineering Team

**Code FMF/1 Microfiltration Membrane for Protozoa Removal****This item is non-stock**

<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	1	Membrane filter, operating as Microfiltration unit, with 1 micron straining capability for removal of Protozoa, particularly Giardia. and Cryosporidium. To operate at flows of 10 000–12 000 litres per hour from a low turbidity (<20NTU) source water already pre-treated. Unit to preferably be cross flow filtration unit supplied in cartridge form. Must be resistant to chemical such as aluminum sulphate and chlorine which are used upstream for pretreatment.
2.	1	Filter operating pump
3.	1	Set of pipe work to connect filter to 3" BSP pipe

**Packing and Marking**

All items to be packed in a cardboard box, marked "OXFAM CODE FMF/1" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the box.  
One packing list, including Oxfam User's Notes, to be enclosed in the box in a grip-seal plastic bag.

Specification date: 31 January 2000  
Prepared by: Public Health Engineering Team

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## Category G Fittings

Code G0.1	12 m Roll PTFE Tape (12 mm Wide)	125
Code G1.1	32 mm Compression Coupler uPVC	125
Code G1.3	32 mm Compression Tee uPVC	125
Code G1.6	32 mm Compression to 1" BSP (M) Coupler	126
Code G2.1	2" Hose Coupler (F) c/w Washer 60 mm OD Hose MI	126
Code G2.2	2" BSP (M) Hose Coupler MI	126
Code G2.4	2" Flexi Hose (30 m Coil)	127
Code G2.6	2" BSP (F) Brass Gate Valve	127
Code G2.11/2	2" Floating Valve Kit	128
Code G2.12	2" Bolted Hose Clip – 60 mm OD Hose	129
Code G2.19	63 mm Ø OD uPVC Compression Coupler	129
Code G2.22	2" Hex Nipple GI	129
Code G3.1	3" Flange Assembly	130
Code G3.2	3" BSP (F) Hose Coupler for 90 mm OD Hose	130
Code G3.3	3" BSP (M) Hose Coupler for 90 mm OD Hose	131
Code G3.4	3" BSP (F) Gate Valve Brass 8 Bar	131
Code G3.8	3" Hex Nipple GI	131
Code G3.9	3" Compression Coupler uPVC	132
Code G3.10	3" BSP (M) to 3" Compression Coupler uPVC	132
Code G3.14	3" x 1" (F) Self-Tapping Ferrule Strap	132
Code G3.14.1	Ferrule Strap Key	133
Code G3.15/2	3" Suction Hose, Low Toxic (30 m Coil)	133
Code G3.18	3" Bolted Hose Clip (86–91 mm)	133
Code G3.19	3" Tee (F) GI	134
Code G3.33	3" 90° Elbow (F) GI	134
Code G3.35	3" Non-Return Valve (Clack Valve) (F) Brass	134
Code G3.36/1	3" Foot Valve and Strainer, Male Hose Stub	135



Code G3.38	Bulk Water Meter	135
Code G4.1	4" Bolted Hose Clip (113–121 mm)	136
Code G4.2	4" BSP (F) x 4" Hose Coupler c/w Washer MI	136
Code G4.3	4" BSP (M) x 4" Hose Coupler MI	136
Code G4.4/1	4" Foot Valve and Strainer, Male Hose Stub	137
Code G4.15	4" Suction Hose – Low Toxic x 30 m Coil	137
Code G63.1	63mm MDPE Equal T	138
Code G63.3	63mm MDPE Elbow, 90°	138
Code G63.4	63mm MDPE Elbow, 45°	139
Code G63.5	63mm MDPE End Cap	139
Code G63.7	63mm MDPE Stub Flange Assembly"	140
Code G90.1	90mm HPPE Equal T	140
Code G90.2	90mm x 63mm PE Reduced Branch T	141
Code G90.3	90mm HPPE Elbow, 90°	141
Code G90.4	90mm HPPE Elbow, 45°	142
Code G90.5	90mm HPPE End Cap	142
Code G90.6	90mm HPPE x 63mm MDPE Reducer	143
Code G90.7	90mm HPPE Stub Flange Assembly	143
<b>The items in italics are not Oxfam stock items:</b>		
The following kits are not commonly used, but the specifications have been prepared to facilitate the quick purchase and deployment of these items if required.		
<i>Code G3.37</i>	<i>Automatic Air Release Valve</i>	144
<i>Code G3.39</i>	<i>Pressure Reducing Valve</i>	144

'G' fittings will normally be packed together with other small items/fittings.

**Code G0.1** 12 m Roll PTFE Tape (12 mm Wide)

Unit cost £0.15



**Code G1.1** 32 mm Compression Coupler uPVC

Gross weight: 0 kg  
Volume: 0.000 m<sup>3</sup>  
Pack dimensions: 4 x 3 x 1 cm  
Approximate unit cost: £2.30



**G**

**Code G1.3** 32 mm Compression Tee uPVC

Gross weight: 0 kg  
Volume: 0.000 m<sup>3</sup>  
Pack dimensions: 6 x 4 x 2 cm  
Approximate unit cost: £3.50



**Code G1.6      32 mm Compression to 1" BSP (M) Coupler**

Gross weight: 0.1 kg  
Volume: 0.000 m<sup>3</sup>  
Pack dimensions: 4 x 1 x 1 cm  
Approximate unit cost: £1.60

**G****Code G2.1 2" Hose Coupler (F) c/w Washer 60 mm OD Hose MI**

Gross weight: 1 kg  
Volume: 0.000 m<sup>3</sup>  
Pack dimensions: 3 x 2 x 1 cm  
Approximate unit cost: £6.19

**Code G2.2      2" BSP (M) Hose Coupler MI**

Gross weight: 1 kg  
Volume: 0.000 m<sup>3</sup>  
Pack dimensions: 3 x 2 x 1 cm  
Approximate unit cost: £5.19



Code G2.4

2" Flexi Hose (30 m Coil)

Gross weight: 26 kg  
Volume: 0.191 m<sup>3</sup>  
Pack dimensions: 106 x 106 x 17 cm  
Approximate unit cost: £60.69



Code G2.6

2" BSP (F) Brass Gate Valve

Gross weight: 2 kg  
Volume: 0.000 m<sup>3</sup>  
Pack dimensions: 3 x 8 x 6 cm  
Approximate unit cost: £10.00

**G**

Code G2.11/2

2" Floating Valve Kit

Gross weight: 10 kg  
 Volume: 0.080 m<sup>3</sup>  
 Pack dimensions: 59 x 41 x 33 cm  
 Approximate unit cost: £170

**G**

Item	Qty	Description
1.	1	2" BSP M float equilibrium balance valve with copper float, to operate at closure pressure of 3 bar
2.	1	3" BSP M to 2" BSP F GI hex reducing bush

#### Users Notes

- This floating ballcock type valve may be used for automatically regulating water levels in Oxfam tanks. It should be installed on tank inlets fitted with a 3" Flange Assembly (Oxfam Code G3.1) or standard flanges supplied with the tanks
- The floating valve should not be used in systems with a positive displacement pump, and provision for a bypass or pressure cutout should be installed on closed pumping mains.
- The floating valve will significantly restrict flows when used with 90mm pipework
- An overflow should also be fitted to tanks fitted with this valve
- Care must be taken when handling and installing the copper ball float

#### Packing and Marking

Individually packed in a sturdy wooden packing case marked Oxfam Code G2.11

#### Local Purchasing Advice

Similar valves may be available locally but ensure closure pressure rating does not exceed 3 bar.

Specification date: 2<sup>nd</sup> April 2007  
 Prepared by: Public Health Engineering Team

**Code G2.12      2" Bolted Hose Clip – 60 mm OD Hose**

Unit cost              £1.56

**Code G2.19      63 mm Ø OD uPVC Compression Coupler**

Unit cost              £6.58

**G****Code G2.22      2" Hex Nipple GI**

Gross weight:      1 kg  
Volume:              0.000 m<sup>3</sup>  
Pack dimensions:    1 x 3 x 2 cm  
Approximate unit cost: £3



## Code G3.1

## 3" Flange Assembly

Gross weight: 6 kg  
 Volume: 0.002 m<sup>3</sup>  
 Pack dimensions: 12 x 16 x 12 cm  
 Approximate unit cost: £42



G

Item	Qty	Description
1.	2	Code G3.1a – 3" dia. BS Table D/E rubber flange gasket, 4 holes
2.	1	Code G3.1b – 3" (F) Table D/E threaded flange, 4 holes drilled for bolts (not threaded)
3.	4	Code G3.1b – M16 stud 100 mm long
4.	8	Code G3.1d – M16 washer, thin gauge
5.	8	Code G3.1e – M16 hex full nut
6.	1	Code G3.1f – 3" flange Table D/E duplicated welded to 90 mm steel 3" pipe, threaded 40 mm, 4 holes drilled for M16 bolts, 4 holes threaded for M16 studs. Weld should not to exceed 6 mm x 6 mm.

## Code G3.2 3" BSP (F) Hose Coupler for 90 mm OD Hose

Gross weight: 1 kg  
 Volume: 0.000 m<sup>3</sup>  
 Pack dimensions: 3 x 2 x 2 cm  
 Approximate unit cost: £10.12



**Code G3.3      3" BSP (M) Hose Coupler for 90 mm OD Hose**

Gross weight: 1 kg  
Volume: 0.000 m<sup>3</sup>  
Pack dimensions: 3 x 2 x 2 cm  
Approximate unit cost: £8.97

**Code G3.4      3" BSP (F) Gate Valve Brass 8 Bar**

Gross weight: 4 kg  
Volume: 0.001 m<sup>3</sup>  
Pack dimensions: 10 x 10 x 8 cm  
Approximate unit cost: £24

**Code G3.8      3" Hex Nipple GI**

Gross weight: 2 kg  
Volume: 0.000 m<sup>3</sup>  
Pack dimensions: 3 x 2 x 2 cm  
Approximate unit cost: £7.20

**G**

**Code G3.9 3" Compression Coupler uPVC**

Gross weight: 2 kg  
Volume: 0.000 m<sup>3</sup>  
Pack dimensions: 7 x 5 x 4 cm  
Approximate unit cost: £14.55

**G****Code G3.10 3" BSP (M) to 3" Compression Coupler uPVC**

Gross weight: 1 kg  
Volume: 0.000 m<sup>3</sup>  
Pack dimensions: 6 x 5 x 3 cm  
Approximate unit cost: £10.80

**Code G3.14 3" x 1" (F) Self-Tapping Ferrule Strap**

Gross weight: 2 kg  
Volume: 0.000 m<sup>3</sup>  
Pack dimensions: 3 x 3 x 1 cm  
Approximate unit cost: £18

Code G3.14.1

Ferrule Strap Key

Pack dimensions: 1 x 1 cm  
 Approximate unit cost: £5.40



Code G3.15/2

3" Suction Hose, Low Toxic (30 m Coil)

Gross weight: 51 kg  
 Volume: 0.539 m<sup>3</sup>  
 Pack dimensions: 134 x 134 x 30 cm  
 Approximate unit cost: £104.4

G



Item	Qty	Description
1	1	30metre roll of 3" low toxic reinforced suction hose, 7 bar rated

## Users Notes

May be used for both suction and delivery up to 7 bar

Specification date: 2<sup>nd</sup> March 2007  
 Prepared by: Public Health Engineering Team

Code G3.18

3" Bolted Hose Clip (86-91)

Approximate unit cost: £1.73



Code G3.19

3" Tee (F) GI

Gross weight: 3 kg  
Volume: 0.000 m<sup>3</sup>  
Pack dimensions: 6 x 5 x 5 cm  
Approximate unit cost: £13.92

**G**

Code G3.33

3" 90° Elbow (F) GI

Gross weight: 2 kg  
Volume: 0.000 m<sup>3</sup>  
Pack dimensions: 4 x 3 x 3 cm  
Approximate unit cost: £12.20



Code G3.35 3" Non-Return Valve (Clack Valve) (F) Brass

Gross weight: 3 kg  
Volume: 0.000 m<sup>3</sup>  
Pack dimensions: 5 x 4 x 4 cm  
Approximate unit cost: £12.90



**Code G3.36/1 3" Foot Valve and Strainer, Male Hose Stub**

Socla Model 2543

Gross weight: 12 kg  
 Volume: 0.002 m<sup>3</sup>  
 Pack dimensions: 16 x 12 x 12 cm  
 Approximate unit cost: £61

**G****Code G3.38 Bulk Water Meter**

Gross weight: 26 kg  
 Volume: 0.028 m<sup>3</sup>  
 Pack dimensions: 43 x 21 x 31 cm  
 Approximate unit cost: £484

Item	Qty	Description
1.	1	Helix 3000 bulk water meter (supplied with standard PN16 flanges), 80 mm Ø, rated to Q = 136 m <sup>3</sup> /hour
2.	2	80 mm flanges to 3" BSP (F) c/w gaskets and bolts

**Users Notes**

- The Helix bulk water meters can be installed horizontally, vertically or in an inclined direction. If the regular flows approach that of the meter Q max, head losses in the region of 10 metres will occur, and this should be borne in mind. Where these meters are not suitable, the anticipated pipe flow, along with max desirable head loss should be provided.
- Bulk water meters are very useful when installed at borehole head-works, outlets to Oxfam pumps and outlets of Oxfam tanks, as they can give a lot of information about how much water is being provided/used, as well as giving an indication of flow rates. However, the cost (£350) and use lend themselves to installation on more permanent water systems, and not in the first phase.

Head loss at 136 m<sup>3</sup>/hour = 4.2 m, at 50 m<sup>3</sup>/hour = 0.6 m. Min flow = 1.4 m<sup>3</sup>/hour.

**Code G4.1 4" Bolted Hose Clip (113–121 mm)**

Approximate unit cost £2

**G****Code G4.2 4" BSP (F) × 4" Hose Coupler c/w Washer MI**

Gross weight: 3 kg  
Volume: 0.000 m<sup>3</sup>  
Pack dimensions: 6 × 5 × 5 cm  
Approximate unit cost: £14.90

**Code G4.3 4" BSP (M) × 4" Hose Coupler MI**

Gross weight: 3 kg  
Volume: 0.000 m<sup>3</sup>  
Pack dimensions: 6 × 5 × 5 cm  
Approximate unit cost: £19



**Code G4.4/1 4" Foot Valve and Strainer, Male Hose Stub**

Socla Model 2546

Gross weight: 5 kg  
Volume: 0.002 m<sup>3</sup>  
Pack dimensions: 15 x 12 x 12 cm  
Approximate unit cost: £70.35

**G****Code G4.15 4" Suction Hose – Low Toxic x 30 m Coil**

Gross weight: 80 kg  
Volume: 0.767 m<sup>3</sup>  
Pack dimensions: 148 x 148 x 35 cm  
Approximate unit cost: £153.6



**Code G63.1** **63mm MDPE Equal T**

Unit GW: kg  
 Volume: m<sup>3</sup>  
 Pack dimensions: cm  
 Approximate unit cost: £27.47

Item	Qty	Description
1	1	63mm MDPE pupped equal Tee, PE 80 SDR 11, 12 bar rated

**Users Notes**

- For use with MDPE PE80 SDR 11 tube
- This item has long or "pupped" ends to permit use with butt fusion welding equipment

**Local Purchasing Advice**

May be available in some regions, ensure quality and consistency are adequate for purpose

Specification date: 2<sup>nd</sup> March 2007  
 Prepared by: Public Health Engineering Team

**Code G63.3** **63mm MDPE Elbow, 90°**

Gross weight: 80 kg  
 Volume: 0.767 m<sup>3</sup>  
 Pack dimensions: 148 x 148 x 35 cm  
 Approximate unit cost: £16.37

Item	Qty	Description
1	1	63mm MDPE pupped 90° elbow, PE 80 SDR 11, 12 bar rated

**Users Notes**

- For use with MDPE PE80 SDR 11 tube
- This item has long or "pupped" ends to permit use with butt fusion welding equipment

**Local Purchasing Advice**

May be available in some regions, ensure quality and consistency are adequate for purpose

Specification date: 2<sup>nd</sup> April 2007  
 Prepared by: Public Health Engineering Team

**Code G63.4** **63mm MDPE Elbow, 45°**

Unit GW: kg  
 Volume: m<sup>3</sup>  
 Pack dimensions: cm  
 Approximate unit cost: £16.37

Item	Qty	Description
1	1	63mm MDPE pupped 45° elbow, PE 80 SDR 11, 12 bar rated

**Users Notes**

- For use with MDPE PE80 SDR 11 tube
- This item has long or “pupped” ends to permit use with butt fusion welding equipment

**Local Purchasing Advice**

May be available in some regions, ensure quality and consistency are adequate for purpose

Specification date: 2<sup>nd</sup> April 2007  
 Prepared by: Public Health Engineering Team

**Code G63.5** **63mm MDPE End Cap**

Unit GW: kg  
 Volume: m<sup>3</sup>  
 Pack dimensions: cm  
 Approximate unit cost: £14.12

Item	Qty	Description
1	1	63mm MDPE pupped end cap, PE 80 SDR 11, 12 bar rated

**Users Notes**

- For use with MDPE PE80 SDR 11 tube
- This item has long or “pupped” ends to permit use with butt fusion welding equipment

**Local Purchasing Advice**

May be available in some regions, ensure quality and consistency are adequate for purpose

Specification date: 2<sup>nd</sup> April 2007  
 Prepared by: Public Health Engineering Team



**Code G63.7**      **63mm MDPE Stub Flange Assembly"**

Unit GW:                    kg  
 Volume:                    m<sup>3</sup>  
 Pack dimensions:        cm  
 Approximate unit cost: £18.00

Item	Qty	Description
1	1	MDPE pupped stub flange assembly, 63mm PE80 SDR 11 MDPE x 50PN16, with backing ring drilled to BS4504 PN16 and nitrile gasket

**Users Notes**

- To adapt from 63mm MDPE PE80 SDR 11 to 50mm flanged fittings such as valves, water meters, pump flanges etc
- This item has long or "pupped" ends to permit use with butt fusion welding equipment

**Local Purchasing Advice**

May be available in some regions, ensure quality and consistency are adequate for purpose

Specification date: 2<sup>nd</sup> April 2007  
 Prepared by:            Public Health Engineering Team

**Code G90.1**      **90mm HPPE Equal T**

Unit GW:                    kg  
 Volume:                    m<sup>3</sup>  
 Pack dimensions:        cm  
 Approximate unit cost: £29.56

Item	Qty	Description
1	1	90mm HPPE pupped equal Tee, PE 100 SDR 17, 10 bar rated

**Users Notes**

- For use with HPPE PE100 SDR 17 tube
- This item has long or "pupped" ends to permit use with butt fusion welding equipment

**Local Purchasing Advice**

May be available in some regions, ensure quality and consistency are adequate for purpose

Specification date: 2<sup>nd</sup> March 2007  
 Prepared by:            Public Health Engineering Team

**Code G90.2** 90mm x 63mm PE Reduced Branch T

Unit GW: kg  
 Volume: m<sup>3</sup>  
 Pack dimensions: cm  
 Approximate unit cost: £48.82

Item	Qty	Description
1	1	HPPE pupped reduced branch Tee, 90mm PE 100 SDR 17 x 63mm PE 80 SDR 11

**Users Notes**

- For use with 90mm HPPE PE100 SDR 17 and 63mm MDPE PE80 tube
- This item has long or "pupped" ends to permit use with butt fusion welding equipment

**Local Purchasing Advice**

May be available in some regions, ensure quality and consistency are adequate for purpose

Specification date: 2<sup>nd</sup> April 2007  
 Prepared by: Public Health Engineering Team

**Code G90.3** 90mm HPPE Elbow, 90°

Unit GW: kg  
 Volume: m<sup>3</sup>  
 Pack dimensions: cm  
 Approximate unit cost: £17.67

Item	Qty	Description
1	1	90mm HPPE pupped 90° elbow, PE 100 SDR 17, 10 bar rated

**Users Notes**

- For use with HPPE PE100 SDR 17 tube
- This item has long or "pupped" ends to permit use with butt fusion welding equipment

**Local Purchasing Advice**

May be available in some regions, ensure quality and consistency are adequate for purpose

Specification date: 2<sup>nd</sup> April 2007  
 Prepared by: Public Health Engineering Team



**Code G90.4** 90mm HPPE Elbow, 45°

Unit GW: kg  
 Volume: m<sup>3</sup>  
 Pack dimensions: cm  
 Approximate unit cost: £17.67

Item	Qty	Description
1	1	90mm HPPE pupped 45° elbow, PE 100 SDR 17, 10 bar rated

**Users Notes**

- For use with HPPE PE100 SDR 17 tube
- This item has long or “pupped” ends to permit use with butt fusion welding equipment

**Local Purchasing Advice**

May be available in some regions, ensure quality and consistency are adequate for purpose

Specification date: 2<sup>nd</sup> April 2007  
 Prepared by: Public Health Engineering Team

**Code G90.5** 90mm HPPE End Cap

Unit GW: kg  
 Volume: m<sup>3</sup>  
 Pack dimensions: x x cm  
 Approximate unit cost: £16.37

Item	Qty	Description
1	1	90mm HPPE pupped end cap, PE 100 SDR 17, 10 bar rated

**Users Notes**

- For use with HPPE PE100 SDR 17 tube
- This item has long or “pupped” ends to permit use with butt fusion welding equipment

**Local Purchasing Advice**

May be available in some regions, ensure quality and consistency are adequate for purpose

Specification date: 2<sup>nd</sup> April 2007  
 Prepared by: Public Health Engineering Team

**Code G90.6 90mm HPPE x 63mm MDPE Reducer**

Unit GW: kg  
 Volume: m<sup>3</sup>  
 Pack dimensions: cm  
 Approximate unit cost: £28.08

Item	Qty	Description
1	1	Pupped straight reducer, 90mm PE100 SDR 17 HPPE x 63mm PE80 SDR11

**Users Notes**

- To reduce from 90mm HPPE PE100 SDR 17 to 63mm PE80 SDR11 tube
- This item has long or "pupped" ends to permit use with butt fusion welding equipment

**Local Purchasing Advice**

May be available in some regions, ensure quality and consistency are adequate for purpose

Specification date: 2<sup>nd</sup> April 2007  
 Prepared by: Public Health Engineering Team

**Code G90.7 90mm HPPE Stub Flange Assembly**

Unit GW: kg  
 Volume: m<sup>3</sup>  
 Pack dimensions: cm  
 Approximate unit cost: £20.98

Item	Qty	Description
1	1	HPPE pupped stub flange assembly, 90mm PE100 SDR 17 HPPE x 80PN16, with backing ring drilled to BS4504 PN16 and nitrile gasket

**Users Notes**

- To adapt from 90mm HPPE PE100 SDR 17 to 80mm flanged fittings such as valves, water meters, pump flanges etc
- This item has long or "pupped" ends to permit use with butt fusion welding equipment

**Local Purchasing Advice**

May be available in some regions, ensure quality and consistency are adequate for purpose

Specification date: 2<sup>nd</sup> April 2007  
 Prepared by: Public Health Engineering Team



**Code G3.37****Automatic Air Release Valve****This item is non-stock**

Gross weight: 8 kg  
 Volume: 0.008 m<sup>3</sup>  
 Pack dimensions: 28 x 19 x 15 cm  
 Approximate unit cost: £98

**Item Qty Description**

1.	1	Automatic air release valve, min working pressure 6 bar, with 1" BSP thread (or if F outlet provide 1" BSP hex nipple)
2.	1	3" ferrule strap with 1" (F) outlet

**User's Notes****G**

- If an air release valve needs higher than the specified 6 bar operating pressure rating, or is going to be fitted to a non-3" pipeline, this should be specified during ordering.

The valve should be installed in a vertical position and needs occasional maintenance by cleaning out dirt.

**Code G3.39****Pressure Reducing Valve****This item is non-stock**

Gross weight: 12 kg  
 Volume: 0.019 m<sup>3</sup>  
 Pack dimensions: 35 x 23 x 23 cm  
 Approximate unit cost: £506.52

**Item Qty Description**

1.	1	3" ∅ pressure reducing valve, class T
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**Users Notes**

Ideally the field should provide the following information: inlet pressure, required outlet pressure and required outlet flow. Then the most appropriate valve can be selected.

This valve will give the following pressure reductions between inlet and outlet pressures for these flows:

3 bar difference 13 l/sec  
 20 bar difference 18 l/sec

If flows are required outside the 13-18 l/sec range then it may be useful to consider either the 2.5" or 2" ∅ valve, which operate at the following flows:

2.5" ∅ valve:

3 bar difference 10 l/sec  
 20 bar difference 15 l/sec

2" ∅ valve:

3 bar difference 7.5 l/sec  
 20 bar difference 11.5 l/sec

Note: flows do not vary linearly between the max and min pressure difference values given here. The above valves can all operate to pressure difference of down to 0.5 bar, but control to this extent is not likely to be useful.

## Category H

### Health and Hygiene

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<b><i>The items in italics are not Oxfam stock items</i></b>		
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\* These towels are supplied for the purposes for women's/girls' sanitary protection, though it is acknowledged that they may have other uses.



Code HAS/1

All Purpose Soap

Gross weight: 872 kg  
 Volume: 1.272 m<sup>3</sup>  
 Dimensions: 106 x 120 x 100 cm  
 Approximate unit cost: £579.20



Item	Qty	Description
1.	6400	All-purpose soap, 125 g bars

#### User's Notes

- Sphere minimum standards are set at 250 g per person per month. This includes soap for washing and laundry.
- 6400 bars of 125 g soap are therefore sufficient for 3200 people for one month. This may not be an appropriate standard for all situations and all cultures so professional judgement and programme experience should be used to estimate the right quantity required.



#### Local Purchasing Advice

For price comparison of the soap:

The fatty acid content indicates the cleaning efficiency (minimum 65%)

The NaOH (Soda) content indicates the level of purity of the soap; it is not harmful up to 0.5%. Soap with high content of Soda (NaOH) may irritate the skin. So check that the soap is known to be mild on the skin surface before buying.

Soap containing pork fat may be culturally unacceptable in some countries, so check out for type of fat used for soap making.

Ensure that the colour and odour will also be acceptable to beneficiaries before buying.

#### Packing and Marking

Soap is supplied in cases of 80 x 125 g bars (gross weight of one case 10.25 kg). Each case to be lined with plastic wrapping. 80 cases to be packed on to one pallet, marked "OXFAM CODE HAS/1" with gross weight and dimensions clearly shown.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the pallet.

One packing list to be enclosed in each case.

Specification date: 11 April 2007

Prepared by: Pubic Health Promotion Team

Code HBHK/1

Basic Hygiene Kit

Gross weight 2106kg  
 Volume: m<sup>3</sup>  
 Dimensions: cm  
 Approximate unit cost: £1973

Item	Qty	Description
1.	2000	Multi purpose soap
2.	200	3m Cotton (dark colour)
3.	200	3m Cotton (white)
4.	200	Water container without tap, 14 litres (TWC)
5.	200	Water container with tap, 14litres (TWCT)
6.	200	Basin, tough durable UV treated plastic, 20 litre capacity (HPB/1)

H

#### User's Notes

- The above items should be packaged together and at point of delivery reconstituted to basic family hygiene kit (10 bars of 125g of soap, 3m cotton (dark colour), 3m cotton (white colour), 1 Oxfam bucket with tap, 1 Oxfam bucket without tap, 1 basin).
- This kit should be distributed to promote hygiene within the family. Other items can also be added to promote general hygiene and restore dignity e.g . A jug for regular water use, cups for drinking, container for anal cleansing, Potty (HPO/1), Combs for hair, razor/shaving sticks for men, nail clippers, tooth paste and tooth brushes, shampoo, men, women and children underwear etc.
- All items and in particular the additional items, depend on what is already available at the household level, the expected length of displacement, local income opportunities and local expressed needs.

#### Local Purchasing Advice

Please see notes for individual items.

It is important to cross check that the colours, source and type of all materials are acceptable to beneficiaries.

#### Packing and Marking

All items to be palletised and marked with code HBHK/1 and item number and marked with gross weight information.  
 Cotton packed 30 to a bale.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of each pallet.

Specification date: 21<sup>th</sup> May 2007

Prepared by: Public Health Promotion Team

Code HCCK1/1

Child to child kit 1 (Puppets)

Gross weight           kg  
 Volume:                   m<sup>3</sup>  
 Dimensions:            cm  
 Approximate unit      £23.50  
 cost:



Item	Qty	Description
1.	1	5 black (also available in White or Asian) family puppet heads to fit hand, washable vinyl heads and colourful clothing. Set includes: mother, father, brother, sister and baby. Adult puppets are 250 mm tall.

#### User's Notes

- Puppets are usually used to catch attention of children especially under 8s
- It is important to find out if the above materials would fit the cultural context before ordering them. Where the characters are not appropriate, you can get more ideas on making your own puppets from the book titled "Making your own puppet".
- It is also possible to make hand puppets from socks, dolls etc
- Specify whether you want either Black or Asian or White family set.

#### Local Purchasing Advice

Puppets should be designed with non-toxic water resistant paint and soft materials that would enable users to easily manoeuvre the fingers and hands in demonstration play lets.

#### Packing and Marking

All items to be packed in a carton and carton to be marked "OXFAM CODE HCCK/1" with gross weight and dimensions clearly shown.

#### Packing List

One packing list to be securely fixed to the outside of the carton.  
 One packing list to be enclosed in the carton.

Specification date: 11<sup>th</sup> April 2007  
 Prepared by: Public Health Promotion Team

Code HLA/1

Laminator

Gross weight: 4kg  
 Volume: m<sup>3</sup>  
 Dimensions: cm  
 Approximate unit cost: £151.77

Item	Qty	Description
1.	1	A4, A3 and ID laminator, office range, able to laminate all standard pouches of variable thickness, composition or melting point

#### Users Notes



- It is a useful item for developing hygiene promotion materials. Pictures for hygiene promotion discussions can be photocopied, coloured and laminated for use in the communities
- Additionally it can be used to process ID cards for programme and field staff
- This item must be purchased with Laminator pouches (HLP/1), without which it won't be possible to laminate materials.
- For use in the production of health promotion materials (digital photos, flash cards, posters, PRA materials etc) for training and distribution in target communities

#### Packing and Marking

Items to be packed into sturdy carton . Carton to be marked with "Oxfam Code HLA" and Gw/Dims clearly marked on the sides.

#### Packing List

One packing list to be enclosed with the goods  
 One packing list to be placed in plastic bag firmly fixed to the outside of the carton

Specification date: 23<sup>rd</sup> May 2007  
 Prepared by: Public Health Promotion Team

Code HLP/1

Laminator pouches

Gross weight: 4kg  
Volume: m<sup>3</sup>  
Dimensions: cm  
Approximate unit cost: £23.52

Item	Qty	Description
1.	1pkt	Lamination pouches in A4, A3 and ID size, each size comes in packets of 100 pouches

**Users Notes**

- This product must be compatible and used with the Laminator (HLA/1)

**Packing and Marking**

Goods to be packed in a carton and marked clearly with "Oxfam Code HLP/1" with Gw/dims clearly shown

**Packing List**

One packing list to be placed in plastic bag and firmly fixed to the outside of the carton  
One packing list to be placed inside the carton

Specification date: 23<sup>rd</sup> May 2007  
Prepared by: Public Health Promotion Team

Code HMFLS/1

Latrine Stickers (Male and Female)

Gross weight 3 kg  
 Volume:  
 Dimensions:  
 Approximate unit cost: £200



Item	Qty	Description
1.	100	Stickers, A4 size, gloss, water resistant paper, shows universal picture of male, Oxfam logo, sticky back
2.	100	Stickers, A4 size, gloss, water resistant paper, shows universal picture of female, Oxfam logo, sticky back

**H**

#### User's Notes

- Used to label latrine facilities, especially in first phase emergency
- The universal picture used should be explained to beneficiaries to ascertain that it is acceptable and understood.
- It should be ordered with the self-supporting Plastic squatting slabs, which comes in pallet for a population of 5000 people. The ratio 1 to 50 people are used in first phase emergency. Thus the need for 50 male, 50 female stickers for latrines and 50 male and 50 female stickers for bath rooms.

#### Local Purchasing Advice

The latrine stickers is mainly relevant where local ones are not or will not be readily available in the first 6 weeks of emergency. It may be possible to actually engage beneficiaries in order forms of labelling the latrines e.g. painting and drawing the different gender groups as understood by beneficiaries.

Specification date: 11<sup>th</sup> April 2007  
 Prepared by: Public Health Promotion Team

**Code HMPRB/1 Megaphone with rechargeable batteries**

Gross weight 5 kg  
Volume: 0.11m<sup>3</sup>  
Dimensions: 36 x 17 x 15cm  
Approximate unit cost: £140.12



Item	Qty	Description
1.	1	Megaphone, minimum 20 watts, built in rechargeable battery, light weight, low cost, clear sound projection up to 700m, shoulder strap
2.	1	Charger

**Users Notes**

This is useful for campaigns especially during disease outbreak

**Local Purchasing Advice**

Ensure that the megaphone has a clear sound and can project up to 700m.

Specification date: 11<sup>th</sup> April 2007

Prepared by: Public Health Promotion Team

Code HMT/1

Multi Purpose Towelling\*

Gross weight: 228 kg  
 Volume: 2.484 m<sup>3</sup>  
 Dimensions: 207 x 120 x 100 cm  
 Approximate unit cost: £1223.00



Item	Qty	Description
1.	1000	Multi-purpose towelling: 100% cotton dark coloured towelling 50 x 90 cm, 360 g

#### User's Notes

**H**

- These towels are supplied for the purposes of women/girls sanitary protection, although it is acknowledged that people may use them for purposes other than this. However, in doing so this may free up alternative resources for sanitary protection.
- Two towels should be provided per average family size of five people as it will be difficult initially to target this assistance to menstruating women alone. Two thousand towels or two kits would then be required for a population of five thousand people.
- A supplementary distribution should take place when more detailed information on numbers and local preferences has been ascertained.

#### Packing and Marking

This product is supplied packed in cartons of 50 pieces each. 20 cartons to be packed on one pallet, shrunk wrapped, and marked "OXFAM CODE HMT/1" with gross weight and dimensions clearly shown.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the pallet.  
 One packing list to be enclosed in each carton.

#### Local Purchasing Advice

Product must be soft and water absorbent, so check the cotton absorbency before buying.

Specification date: 11<sup>th</sup> April 2007  
 Prepared by: Public Health Promotion Team

Code HORS/1

Oral Rehydration Salts

Gross weight 25 kg  
 Volume: 0.06 m<sup>3</sup>  
 Dimensions: 24 x 77 x 40 cm  
 Approximate unit cost: £121.91



Item	Qty	Description
1.	1000	Sachets of oral rehydration salts 20.5 g to make 1 litre of ORS. Contains: <ul style="list-style-type: none"> <li>• Glucose anhydrous cac 1979 13.5 g</li> <li>• Sodium chloride bp 2.6 g</li> <li>• Trisodium citrate dihydrate bp 2.9 g</li> <li>• Potassium chloride 1.5 g</li> </ul>



#### Users Notes

- In many instances medical agencies – governmental or NGO – may be providing HORS.
- It is **not** appropriate to distribute ORS without providing adequate information for its preparation.
- Its use and distribution to individual families should not be undertaken without first seeking the advice of Oxfam House or the Public Health Promoter.
- Distribution to clinics may be a more appropriate strategy if ORS is in short supply.
- The national policy for the provision of ORS must also be adhered to.
- It is estimated that 1000 sachets is sufficient for a population of 5000 people for 3 months.

**Warning:** the specified amount of ingredients must be diluted in the correct amount of boiled cooled water. A too diluted solution may be less effective and a too concentrated solution may be harmful.

Oral rehydration salts may be used as long as they are still in the form of a white powder. Moisture turns them into a compact mass, brownish-looking and insoluble. If this occurs, they are unfit for consumption whatever their expiry date.

#### Storage:

No special precautions as regards temperature.

Particularly sensitive to humidity.

Do not use if the powder has taken on a pasty consistency and turned yellowish-brown.

Use made-up solution the same day.

(In Guide “Essential Drugs”, MSF).

Oral rehydration salts can be ordered with HORS Accessory kit (Plastic spoon and 1 litre jug) that provides the needed supply in making up the solution in right quantities.

**Packing and Marking**

To be packed in 10 boxes of 100 sachets each. These are to be packed in a strong cardboard box, marked "OXFAM CODE HORS/1" with gross weight and dimensions clearly shown.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the box.  
One packing list to be enclosed in the box.

**Local Purchasing Advice**

- Ensure that the packaging is water impermeable especially if they are to be used in flood response, this is to ensure that content is intact even if the sachet mistakenly falls into water.
- Carefully check composition as it may differ from the WHO or country recommended one. (Some presentations exist to be diluted in 0.5L or 5L of water).
- Check that the content complies with specification above, which is in line with new WHO's recommendation. This has a lower glucose concentration to allow for quicker absorption of fluids, reducing the need for intravenous fluids and making it easier to treat children with acute diarrhoea without hospitalisation.

Specification date: 27<sup>th</sup> April 2007

Prepared by: Public Health Promotion Team

Code HORS/1

Oral Rehydration Salts Accessory Kit

Gross weight 33kg  
 Volume: 0.21m<sup>3</sup>  
 Dimensions: 59 x43x 27cm  
 Approximate unit cost: £152.80



Item	Qty	Description
1.	250	Spoon, plastic, sturdy like that can be used to feed babies. Should be able to transfer about 2.5 ml of prepared solution
2.	250	Jug, 1 litre, calibrated, transparent plastic



#### User's Notes

- This kit should be ordered with HORS/1 and 1 spoon and 1 jug distributed to each mother with children under the age of 5 years who has received ORS but do not have adequate materials for preparation. A kit with 250 spoons and 250 jugs will be required for 250 mothers/carers
- This must be distributed through Community Health workers/Health Promoters to ensure proper targeting and appropriate dissemination of information on how to prepare and use.

#### Packing and Marking

All items to be packed in one carton/crate, to be marked "OXFAM CODE HORS/1 with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the box.  
 One packing list to be enclosed in the box.

Specification date: 11<sup>th</sup> April 2007  
 Prepared by: Public Health Promotion Team

Code HPBA/1

Plastic Basin

Gross weight 250kg  
 Volume: 0.10m<sup>3</sup>  
 Dimensions: 58x30x58cm  
 Approximate unit cost: £2620



Item	Qty	Description
1.	1000	Basin /bowl, tough durable UV treated plastic, 20 litre capacity

H

#### User's Notes

This item is mainly for domestic purposes especially laundry and bathing so as to free up the standard 14 litre bucket with lid (code TWCT) for water storage. As such it is not ideal for water transportation and storage. 1000 will be required for a population of 5000 which is approximately 1000 families.

#### Packing and Marking

All items to be packed in one carton/crate, to be marked "OXFAM CODE HPB/1 with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the box.  
 One packing list to be enclosed in the box.

Specification date: 11<sup>th</sup> April 2007  
 Prepared by: Public Health Promotion Team

## Code HPIK/1

## Protective Items Kit

Gross weight 165kg  
 Volume: m<sup>3</sup>  
 Dimensions: 0.8 x 1 x 1.2 m  
 Approximate unit cost: £428.75



Item	Qty	Description
1.	50	Hand gloves, rubber, water proof, heavy duty, super grip, one size,
2.	750	Disposable mask, flexible adjustment string light weight, cone type, made from 100% polyester, fibre glass and latex free
3.	50	Wellington boots (different sizes), High grade blend of PVC and nitrile rubber, steel toe caps with 2000 joule rating, mild steel mid sole for penetration resistant, treated surface for easy cleaning.

## User's Notes

- These protective items are required for jobs that involves dust or spraying or generally heavy-duty or cleaning jobs.
- This kit is designed for 50 volunteers /casual workers who can work with a population of up to 1000 families



## Local Purchasing Advice

- The disposable masks would normally be used for about 4 to 5 hours at a time, and it is used to protect against dust, fibres, solid and liquid aerosols. So it should be preferably lightweight, cone shaped or designed in such a way that it is comfortable to wear with or without glasses or goggles.
- Do not buy surgical mask whose purpose is to help prevent biological particles from being expelled by the wearer into the environment.
- The Wellington boots should be made from PVC that is water proof and not penetrable to nails and broken glass.
- The hand gloves should be made of materials that can withstand handling rubbles; stones etc, water resistant, durable and can give good grip.

## Packing and Marking

All items to be packed in one carton/crate, to be marked "OXFAM CODE HPIK/1 with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

## Packing List

One packing list in a plastic bag to be securely fixed to the outside of the box.  
 One packing list to be enclosed in the box.

Specification date: 11<sup>th</sup> April 2007

Prepared by: Public Health Promotion Team

Code HSC/1

3m Cotton

Gross weight 425kg  
 Volume: 2.4m<sup>3</sup>  
 Dimensions: 40 x 50 x 75cm  
 Approximate unit cost: £5350

Item	Qty	Description
1.	500	3m cotton soft brushed, (light colour (unbleached))
2.	500	3m cotton soft brushed, (preferably navy blue, maroon or dark brown colour)

#### Users Notes



- The soft-brushed cotton is provided to meet the sanitary needs of women and girls.
- This item can have several purposes, such as child nappies or bath towels; it is therefore acknowledged that it can have various functions.
- When needs are better understood, more appropriate 'sanitary materials' can be sourced. Additionally depending on cultural context, sanitary towels can be requested.
- Cotton should be cut hygienically into 3m pieces.

#### Packing and Marking

Each roll to be marked with "OXFAM CODE HSC/1" with gross weights and dims clearly shown. Oxfam logo to be painted black on all sides.  
 Packed 30 to a bale.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the box.  
 One packing list to be enclosed in the box.

#### Local Purchasing Advice

Ensure that the cotton is soft and can easily absorb liquid.

Specification date: 21<sup>ST</sup> May 2007  
 Prepared by: Public Health Promotion Team

**Code HBPA/1****Bed Pan****This is a non-stock item**

Gross weight: 90kgs  
 Volume: 1.35 m<sup>3</sup>  
 Approximate unit cost: £736.56



<b>Item</b>	<b>Qty</b>	<b>Description</b>
1	108	Bed pan with cover and handle, plastic,

**User's Notes**

- Bed pans are useful especially for the elderly, very sick persons, bedridden and other vulnerable persons with movement impairment
- This is appropriate for both men and women

**Packing and Marking**

All items to be packed in one carton/crate, to be marked "OXFAM CODE HBPA/1 with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

12 Bed Pan's to one carton.

Specification date: 11<sup>th</sup> April 2007

Prepared by: Public Health Promotion Team

**Code HCCK2/1****Child to child kit 2****This is a non-stock item**

Gross weight:  
 Volume:  $m^3$   
 Approximate unit cost: £1176.80



<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	400	T shirt, children sizes (small – 86cm chest; large - 112cm chest), cotton, plain white
2.	4pkt	Textile marker pen, pack of 10 markers, different colours, non toxic, wash resistant up to 60°C, tip width 2-4mm
3.	4 pks	Permanent laundry marker, pack of 10 different colours including black, resistant to washing, fine 2mm tip, non toxic, ink wont spread or feather on cloth.

**User's Notes**

- In situations or for activities where you want to encourage children to write or draw their own messages to promote hygiene, the cloth markers and white t-shirts can be ordered. This is ideal especially for child-to-child activities, competitions, campaigns, etc
- The markers can also be used for painting /colouring hand made puppets
- This kit is designed for 400 children who are old enough to use them for learning.

**Local Purchasing Advice**

- Test the indelibility of the pen before purchase to ascertain that they are wash resistant
- Buy T- shirts that do not shrink after first wash.

**Packing and Marking**

The kit is packed and marked OXFAM CODE HCCK2/1 with gross weights and dimensions clearly shown.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the pallet.

Specification date: 11<sup>th</sup> April 2007

Prepared by: Public Health Promotion Team

**Code HCCK3/1 Child to Child Kit 3(drawing & painting materials)****This is a non-stock item**

Gross weight            5 kg  
 Volume:                    0.024m<sup>3</sup>  
 Dimensions:            42 x 32 x 18 cm  
 Approximate unit      £75  
 cost:



Item	Qty	Description
1	100pcs	Balloons assorted colours
2.	1	Tracing pad A4
3.	20pcs	Drawing card sheets, white A4
4	10pcs	Drawing card sheets A3, assorted colours
5.	4	Drawing pencils
6.	1	UHU glue stick, 50 ml
7	1	Drawing pen, colours, packs of 24
8	1	Erasers
9.	1pkts	Blue tack
10.	1	Glue, stick
11.	4doz	Markers, art, assorted colours in packs of 6 or 12
12.	1	Scissors
13.	1	of Acrylic paints, 474mls, (blue, black, white, red, yellow and green), non toxic
14.	5pcs	Paint brushes, different types (Flat, Bright, Round, Filbert), different sizes (2, 4, 6)
15.	1pcs	Foam paint brush
16.	1	Rucksack that will contain all the above items

**Users Notes**

- The list comprises of items that can be used to develop child-to-child materials for older and younger children. This list is by no means exhaustive, therefore programmes can add to it according to their needs.
- The kit is designed for 20 children
- This kit comes in a rucksack, which makes it handy to carry

**Local Purchasing Advice**

- All items should be made from non toxic materials e.g. crayon, markers, paints, etc

**Packing and Marking**

Pack in a rucksack and list of items should be included in the pack

**Packing List**

List items and quantity

Specification date: 11<sup>th</sup> April 2007

Prepared by: Public Health Promotion Team

**Code HCWOW/1**

**Commode without wheels**

**This is a non-stock item**

Gross weight: 6.75kg  
 Volume: 81 x 56 x 53 m<sup>3</sup>  
 Approximate unit cost: £60.50



**H**

Item	Qty	Description
1.	1	All in one Commode, should offer comfort and stability for person with disability, frame should be made of non rust, easy to clean material, at least 16 inch wide seat, seat opening depth at least 10", seat surface around 14 ", rugged, with warranty for more than 3 years. Preferably collapsible (or at least removable bucket or waste collector) or stackable. With arm rest, protective seat cover

**User's Notes**

- This is a toilet seat with a hole used with a container underneath, such as bucket. The contents of the container are then disposed of in the toilet. \*
- It is suitable for people unable to squat, but with some sitting balance e.g. wheel chair users, frail elderly people, poor coordination or balance, people with weak legs, and sometimes pregnant women.
- The chair can be made locally with the above specification either with wood or durable non-rust metal. And the materials should be easy to clean. You may consider providing cleaning materials.
- Commode made with metal should be adequately padded to prevent users from sliding off and feeling uncomfortable because of hardness.

**\* For more information read Water and Sanitation for disabled people and other vulnerable groups – Designing services to improve accessibility By Hazel Jones and Bob Reed. WEDC 2005**

Specification date: 11<sup>th</sup> April 2007

Prepared by: Public Health Promotion Team

**Code HCWW/1****Commode with wheels****This is a non-stock item**

Gross weight: 13kg  
 Volume: 0.290m<sup>3</sup>  
 Dimensions: 98 x52 x57 cm  
 Approximate unit cost: £172



Item	Qty	Description
1.	1	All in one Commode, should offer comfort and stability for person with disability, frame should be made of non rust, easy to clean material, at least 16 inch wide seat, seat opening depth at least 10", seat surface around 14 ", rugged, with warranty for more than 3 years. Preferably collapsible or stackable. With wheels and armrest. Protective seat cover

**User's Notes**

- This is a toilet seat with a hole used with a container underneath, such as bucket. The contents of the container are then disposed of in the toilet. \*
- It is suitable for people unable to squat, but with some sitting balance e.g. wheel chair users, frail elderly people, poor coordination or balance, people with weak legs, and sometimes pregnant women.
- The chair can be made locally with the above specification either with wood or durable non-rust metal. And the materials should be easy to clean. You may consider providing cleaning materials.
- Commode made with metal should be adequately padded to prevent users from sliding off and feeling uncomfortable because of hardness.

**Local Purchasing Advice**

- Do not order commode with wheels if the road is not accessible

**\* For more information read Water and Sanitation for disabled people and other vulnerable groups – Designing services to improve accessibility By Hazel Jones and Bob Reed. WEDC 2005**

Specification date: 11<sup>th</sup> April 2007  
 Prepared by: Public Health Promotion Team

**Code HIEC/1 Health Information, Education & Comms kit****This is a non-stock item**

Gross weight: 8kg  
 Volume: m<sup>3</sup>  
 Approximate unit cost: £695.88



Item	Qty	Description
1	1	<i>Oxfam Code ADC Digital Camera Kit, durable and easy to use. Smooth digital zoom, compact flash card, batteries, USB cable, serial cable for Windows, Macintosh serial adapter, video cable, user's guide, neck strap, software CD-ROM, carry case, charger with rechargeable batteries, universal plug, and spare memory card. The current market for digital cameras means that models of camera may vary. The cost could also be different to that specified. Please refer to the Information Systems intranet site for latest specification</i>
2a	1	<i>Oxfam Code APR Portable Inkjet Printer Kit. Can produce coloured prints. Lightweight and durable, and runs off own batteries or AC power. Paper sizes supported – A4, Transparencies, etc. Comes with additional rechargeable battery, spare ink cartridges, and a universal plug adapter</i>
2b.	1pk	<i>A4 photo quality paper for printer</i>
3.	1	<i>Oxfam Code HLA Laminator Kit. This is an A4, A3 and ID laminator, office range, able to laminate all standard pouches of variable thickness, composition or melting point, and contains lamination pouches in A4, A3 and ID size, packets of 10 pouches each</i>
4	1	<i>Kit bag for printer, laminator, and camera</i>

**Users Notes****Digital Camera**

- *The purchase of a digital camera, portable printer and laminator enables field practitioners to take photos, print them immediately, laminate them and use locally for IEC. Laminating them makes them more durable.*

**Laminator**

- *It is a useful item for developing hygiene promotion materials. Pictures for hygiene promotion discussions can be photocopied, coloured and laminated for use in the communities*
- *Additionally it can be used to process ID cards for programme and field staff*
- *This item must be purchased with Laminator pouches, without which it won't be possible to laminate materials.*
- *For use in the production of health promotion materials (digital photos, flash cards, posters, PRA materials etc) for training and distribution in target communities*

**Laminating pouches**

- *This product must be compatible and used with the Laminator*

**Local Purchasing Advice****Camera**

*The digital camera should be capable of carrying out basic functions, easy to use (ie field workers can easily be taught to use them and produce photos and materials for IEC), lightweight and durable. Ideally it should not be very expensive.*

*The USB cable must be compatible with printer (code APR).*

**Printer**

*This product should be compatible with Oxfam Laptop, Computers and Cameras.*

**Laminator**

*This should ideally be able to take pouches of up to 250 microns thick. Ensure local availability of pouches is compatible with laminator*

**Packing and Marking**

*All items to be packed in a kit bag with gross weight specified.*

**Packing List**

*One packing list in a plastic bag to be securely fixed to the outside of the box.*

*One packing list to be enclosed in the kit bag.*

*Specification date: 11<sup>th</sup> April 2007*

*Prepared by: Public Health Promotion Team*



**Code HMS/1****Mackintosh sheets****This is a non-stock item**

Gross weight: 8kg  
 Volume: 1.4m<sup>3</sup>  
 Dimensions: 180 x 130 x 60 cm  
 Approximate unit cost: £104.20

**Item Qty Part no. Description**

1. 25 DSHD Actifresh heavy duty PVC draw sheet, designed for full ventilation. Flexible & washable

**Users Notes**

- The draw sheet is ideal for bed ridden people. It is used as protective covering for beds or mats for those who may not quickly have means of using urinals and or toilets.

**Packing and Marking**

The product should be packed into 1 carton of 25 pieces and marked with "Oxfam Code HMS/1" with gross weights and dimensions clearly marked on each side of carton.

**Packing List**

One packing list to be securely fixed on the outside of carton

One packing list to be enclosed in each carton.

Specification date: 22<sup>th</sup> April 2007

Prepared by: Public Health Promotion Team

**Code HMUI/1****Male Urinals****This is a non-stock item**

Gross weight: 5kg  
 Volume: 0.12m<sup>3</sup>  
 Dimensions: 46 x38 x32cm  
 Approximate unit cost: £4.29



<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	100	Male Urinal, plastic, clear bottle with snap on lid and handle, flat base

**Users Notes**

- Urinals are useful especially for the elderly, very sick persons, bedridden and other vulnerable persons with movement impairment
- This is more appropriate for men who find it hard to get to the toilet in time
- They can also be of help to carers when lifting sick people is a problem.

**Local Purchasing Advice**

- It is sometimes called portable urinal or plastic urinal
- The urinal should be designed so that urine can't spill out.
- There are now female urinals with wide mouth design, so be careful not to buy them. Females can use bedpans.

**Packing and Marking**

All items to be palletised and marked with code HMUI/1 and item number and marked with gross weight information.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of each pallet.

Specification date: 11<sup>th</sup> April 2007  
 Prepared by: Public Health Promotion Team

**Code HPO/1****Potties****This is a non-stock item**

Gross weight: 100kg  
 Volume: m<sup>3</sup>  
 Approximate unit cost: £1499

<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	100	Potties, plastic, for toddlers, with easy grasp handle and lid

**Users Notes**

- Ideal for disposing children faeces,
- 1 per family with children under the age of 2 years
- Cross check that it is culturally acceptable before buying

**Local Purchasing Advice**

- Crosscheck what colour is appropriate to the cultural context before buying

**Packing and Marking**

All items to be palletised and marked with code HPO/1 and item number and marked with gross weight information.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of each pallet.

Specification date: 11<sup>th</sup> April 2007  
 Prepared by: Public Health Promotion Team

**Code HSWK/1 Solid waste kit 1 (cleaning materials)****This is a non-stock item**

Gross weight: 35kg  
 Volume: 0.96m<sup>3</sup>  
 Approximate unit cost: £57.87



Item	Qty	Description
1.	4	Contractors' rakes with handles, 12-tooth head with epoxy-coated finish. Head securely fixed to tubular steel handle. With black plastic hand grip with hang hole. Blade width 280 mm.
2.	4	Flat trenching spades with handles, pressed from high quality steel, fitted with 28" graded wooden shaft and PY-type hilt. Socket polished for comfort in use. Weatherproofed handle. Blade type: square mouth. Blade size: 12" x 10", size no. 2
3.	1	Pickaxes (chisel and point) with handles. 3.2 kg pick axe head. Eye size 70 x 50 mm. Will accept standard pick axe shafts. Weight 3.2 kg. Hardwood pick/mattock shaft, 900 mm, sanded and waxed. For pick axes and mattocks with eye size 78 x 54 mm.
4.	1	Wheelbarrows for heavy duty task, 90 – 150litre capacity, single wheel, sturdy galvanised tray and frame, approximately 120kg carrying capacity, weight </+15kg (empty), disc wheel with pneumatic tyre

**Users Notes**

- This list contains the basic items required for solid waste clean ups, and these would be needed in disasters like earth quakes, floods etc where lots of rubbles are to be cleared.
- The above kits would be ideal for a total of 10 volunteers involved in general clean up exercise.
- 5 kits should be adequate for a population of up to 1000 families

**Local Purchasing Advice**

- The kit content should be durable for at least one year. Each item should be very strong for clearing rubbles and other heavy-duty jobs. The wheelbarrow in particular should be sturdy, with pneumatic tyres (which aids comfort). Do not buy plastic tyres.
- Buy rakes, spades, and pickaxes with fixed heads on shaft so that they do not fall off after few weeks otherwise they will not serve their purpose.

**Packing and Marking**

All items to be palletised and marked with code HSWK/1 and item number and marked with gross weight information.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of each pallet.

Specification date: 11<sup>th</sup> April 2007

Prepared by: Public Health Promotion Team



## Category K Communications

Code KBGAN/1	Broadband Global Area Network (BGAN)	175
Code KEFC/1	Emergency Field Communication Kit	176
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Code KVHB/5	VHF Base/Mobile Station	191
Code KVHW/7	VHF Hand Portable Kit	193
Code KSATT/2	Thuraya Handheld Satellite Telephone	195
<b><i>The items in italics are not Oxfam stock items:</i></b>		
<i>The following kits are not commonly used, but the specifications have been prepared to facilitate the quick purchase and deployment of these items if required.</i>		
Code KFX/5	Office Fax Machine	197





## Code KBGAN/1 Broadband Global Area Network (BGAN)

Gross weight: 1.43 kg  
 Volume: 0.022 m<sup>3</sup>  
 Dimensions: 21 × 21 × 5 cm  
 Approximate unit cost: £1225.00



A portable device designed to provide high-speed voice and data communications almost anywhere in the world. The BGAN unit is connected to a laptop (not included), and then pointed to a satellite that provides the connection to the Internet. This will enable the user to use email and Peoplesoft as well as make an international telephone call using a standard analogue telephone connected to the BGAN. A User Guide for set-up and operation is included.



Item	Qty	Description
1.	1	Thrane and Thrane Explorer 500 Broadband Global Area Network (BGAN)

#### User Notes

- If uncertain about any aspect of this equipment, and particularly with running cost implications, please seek advice from the logistics team.
- This kit is fully tested by the Information Systems Department before issue.
- The Logistics Team must be kept informed of the current location of each kit.
- The Logistics team must be kept informed of the current budget code for the BGAN charges. All charges will be applied to the last known budget code.
- The components of the kit must be kept together as a single unit.

#### Marking

The BGAN will be asset tagged by the supplier.

Specification date: March 2007  
 Prepared by: Information Services Department (ISD)

**Code KEFC/1      Emergency Field Communication Kit**

Gross weight:	11.3 kg
Volume:	0.038 m <sup>3</sup>
Dimensions:	34 x 41 x 27 cm
Approximate unit cost:	£2969.00

A portable kit designed to provide high-speed voice and data communications almost anywhere in the world with limited or no power supply. The BGAN unit in the kit is connected to the laptop, and then pointed to a satellite that provides the connection to the Internet. This will enable the user to use email and Peoplesoft as well as make an international telephone call using a standard analogue telephone connected to the BGAN. Also, the kit includes a standard mobile phone enabled to operate in most countries in the world. The power adaptor kit ensures that the components can be powered from conventional mains and vehicle sources (wall and/or vehicle cigarette lighter) or from the sun using the solar charger included in the bag. A User Guide for set-up and operation is included in the kit.



Item	Qty	Description
1.	1	Standard Oxfam laptop
2.	1	Thrane and Thrane Explorer Broadband Global Area Network (BGAN)
3.	1	device
4.	1	Solar Power Pack
5.	1	Travel Power Adaptor Kit
6.	1	Standard Oxfam Tri-band Mobile Telephone
7.	1	Carrier bag

**User Notes**

- If uncertain about any aspect of this equipment, and particularly with running cost implications for the BGAN, please seek advice from the logistics team before ordering.
- This kit is fully tested by the Information Systems Department before issue.
- The Logistics Team must be kept informed of the current location of each kit.
- The Logistics team must be kept informed of the current budget code for the BGAN charges. All charges will be applied to the last known budget code.
- The components of the kit must be kept together as a single unit.

**Packing List**

The kit will be packed in the carrier bag (Item 7). One packing list will be enclosed in the kit.

**Marking**

A tag will be attached to the bag with the Asset Number of the kit.

Specification date: March 2007

Prepared by: Information Services Department (ISD)

Code KFSP/1

Folding Solar Panel

Gross weight: 1.72 kg  
 Volume: 0.31 m<sup>3</sup>  
 Dimensions: 36 x 22 x 4 cm  
 Approximate unit cost: £735.00



A portable solar panel that when unfolded measures 134 cm x 75 cm. The power specifications are:

Rated Peak Power: 48W  
 System Voltage Rating: 12V  
 Open Circuit Voltage: 28V  
 Nominal Operating Current: 2.5A



Item	Qty	Description
1.	1	P3 48 Watt Folding Solar Panel

#### User Notes

- This is for use with Code KBGAN/1 kits only.

#### Packing List

Items are to be packed in a sturdy triwall cartons. Cartons to be marked "OXFAM CODE KFSP with gross weight and dimensions clearly shown. Marks to be on the front and back of each carton.

#### Marking

The Solar Panel will be asset tagged by the IS Department.

Specification date: March 2007  
 Prepared by: Information Services Department (ISD)

Code KG6/1

6 kVa Generator Kit

Gross weight: 160kg  
 Volume: 0.79 m<sup>3</sup>  
 Dimensions: 93 x 112 x 76 cm  
 Approximate unit cost: £2050.00



**K**

Item	Qty	Description
1.	1	Venom 6000E generating set 6 kVA 4.8 kW 115-230 volts dual, single phase, 50 cycle self-exciting, self-regulating AC alternator with the following circuit-breaker protected output sockets: 1 x 230 v 16 amp, 1 x 230 x 32 amp, 1 x 115 v 16 amp and 1 x 115 v 32 amp. Flanged coupled to a Yanmar 4 stroke air-cooled diesel engine complete with 12 volt removable keytype electric start/stop, battery charging and 12 volt lead acid battery pack (dry charged), mounted 19.6 hour fuel tank, engine protection for low oil level, low tone exhaust and acoustic shield designed to reduce noise level down to 76 dba at 7 metres.

The whole unit mounted on anti-vibration mounts inside a robust steel crash frame. Supplied loose 2 wheel site trolley, 1 x 16 amp 230 v plug with 20 m of power cable and a 2 gang socket pad, 1 x 32 amp 230 v plug with 20 m of power cable and a 2 gang socket pad, 1 x 16 amp 115 v plug, 1 x 32 amp 115 v plug, set of engine spares for 1000 hours operation, 2 bottles of electrolyte for starter battery, 1 x 5 litre container of engine oil, 1 x 20 litre empty jerry fuel can, 1 x fuel funnel/filter, operators manuals and packing list.

#### Packing and Marking

Packed in a strong plywood case and secured with 2 steel bands, Case to be marked "OXFAM CODE KG6/1" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list to be securely fixed to the outside of the crate.  
 One packing list to be enclosed in the crate.

Specification date: 4<sup>th</sup> April 2007  
 Prepared by: Public Health Engineering Team

Code KG16/1

16 kVa Generator kit

Gross weight: 680kg  
 Volume: 2.05 m<sup>3</sup>  
 Dimensions: 183 x 80 x 140 cm  
 Approximate unit cost: £6010.00



Item	Qty	Description
1	1	SDMO Pacific T16K 16 kVA 12.8 kW Multi-voltage multi-phase 50 cycle diesel generating set with a weatherproof, sound-attenuated canopy, skid-mounted. Mitsubishi S4L2 SD water cooled diesel engine, running at 1500 RPM, with 12 volt starting and electrical system, tropical radiator, close-coupled to a Mecc Alte brushless alternator. 50 litre fuel tank (14 hours at 75% load). Weather proof, sound attenuated (60.7 dB(A) at 7m) canopy with lockable access doors for security. Multiphase circuit breaker protected socket panel comprising 1x 16a 115V, 1x 32a 115V, 1x 16a 230V, 1x 32a 230V, 1x 16a 400V, 1x 32a 400V and earth fault protection. Stop/start control panel with visual indication of engine speed, battery voltage and hours run. Engine protection for low oil pressure, high engine temperature and over speed.
2	1	Set of mating plugs for above sockets
3	1	1000 hours service kit
4	1	5 litres of engine oil for initial startup period
5	1	20 litre jerrycan
6	1	Filter funnel for fuel
7	1	Basic wiring kit for electric lighting and 230V power supply
8	1	Users manual and spare parts list



**Users Notes**

- Multi-purpose use for offices, accommodation, water supply borehole pumps and mechanical workshops, camp lighting, health facilities, warehouses.
- This generator is unusual in that no phase selection is required, so the generator can be used simultaneously on 400 Volts 3-phase, 115 and 230 volts single-phase, within the power limits available
- By special order this generator may be trailer-mounted, this will increase lead time by approximately 4 weeks.
- This motor runs at 1500 rpm and should prove reliable and relatively quiet – important for offices and houses.

- The generator is fitted with a weather proof canopy so a generator house is not essential, but may be desirable

#### Local Purchasing Advice

In some regions suitable alternatives may be found. When making comparisons ensure that comparisons are like-for-like, and that appropriate consideration is given to specification, reliability, lead time, warranty, and spare parts supply (some manufacturers products are region-specific so service consumables and spare parts may not be readily available through Oxford).

#### Packing and Marking

Each kit to be packed in a sturdy timber crate. Base timbers should be a minimum of 4" square for off-loading by jack or poles. Crate to be marked "OXFAM CODE KG16/1" with gross weight and dimensions clearly shown. Marks to be on the front and back of the crate, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.



#### Packing List

One packing list to be securely fixed to the outside of the crate.  
One packing list to be enclosed in the crate.

Specification date: 4<sup>th</sup> April 2007

Prepared by: Public Health Engineering Team

**Code KHB/6 High Frequency (HF) Radio Base Station**

Gross weight: 1 box of 10kg + 1 box of 9kg  
 Volume: 0.113m<sup>3</sup>  
 Dimensions: 1 box of 0.51 x 0.51 x 0.28  
 and,  
 1 box of 1.47 x 0.16 x 0.17m  
 Approximate unit cost: £1907.23



An office base station unit for in-country voice link to other high frequency (HF) radios. Combined with the Oxfam code KHDF/1 data modem kit, personal computer and e-mail software, data can be transmitted between HF radios.



Item	Qty	Description
1.	1	Codan NGT SRx Desktop transceiver <ul style="list-style-type: none"> <li>• 2012 RF Unit</li> <li>• Desk Console, incorporating 2020 Handset and Speaker Junction Connector with 6m Control Cable and Loudspeaker, hand PTT switch, goose-neck microphone and in-built headphone output and cables</li> </ul> <p><b>Features:</b> Innovative handset user interface, 400 channels, 1.6-30 MHz, 125 watts (PEP), 12 V DC, USB/LSB/AM in-built Easitalk speech processing, emergency call, selective call, phone call, message call (64 characters), scanning, handset programming, remote diagnostics, morse capability, GPS facility (optional), upgradeable for fax, high speed data and email (Oxfam code KHDF), Codan Automated Link Management (CALM) compatible with FED-STD-1045 ALE systems (optional), meets MIL-STD 810E for shock and vibration, can be used in remote control configurations.</p>
2.	1	Code 463 Multiwire Broadband Dipole Antenna, 250W PEP (125W Average). Requires minimum of 30m-mast spacing. Completely assembled. Comes with inverted "V" mounting arm, 30m Coaxial, UHF connector RG58 and full installation instructions.
3.	1	Code 443 Coaxial cable assembly (RG58) fitted with UHF type weatherproof connectors – 30 metres
4.	1	Code 702 cable kit for uninterrupted supply to battery from suitable charging unit. Suitable for un-interrupted power supply Codan 3020 (As provided with kit KP)

5. 1 Bulkhead mounting fuse holder for transceiver DC power cord – supplied with 32 A fuse. (P/No: 15-00711)

#### User's Notes

- This radio is compatible with the following equipment:  
Voice: Codan 8528 / 9323 / 9360 or other radios: Yaesu FT series, Q-Mac HF-90 etc.  
Selcall: Codan 8528 / 9323 / 9360 or Q-Mac HF-90
- When ordering this kit, the Logistics Team advises also ordering the Power Kit (Oxfam code KP).
- The Oxfam Communications Manual is available from the Logistics Team.
- For ease of antenna installation the KM/4 Lightweight Mast Kit is recommended.
- Frequencies and options are programmed via the RS232 socket using NSP software and a PC. Can be programmed manually by suitably qualified person.

#### Packing and Marking

Items are to be packed in two sturdy triwall cartons. One carton is to contain the transceiver and cable kit (C702), and the other is to contain the dipole antenna and coaxial cable. Cartons to be marked "OXFAM CODE KHB/6, part 1 of 2" (or part 2 of 2) with gross weight and dimensions clearly shown. Marks to be on the front and back of each carton.



#### Packing List

One packing list to be securely fixed to the outside of each carton.  
One packing list to be enclosed in each carton.

Specification date: May 2007

Prepared by: Logistics Team

**Code KHDF/1 High Frequency (HF) Data Modem Kit for KHB/6 (Codan NGT)**

Gross weight: 9 kg  
 Volume: 0.049 m<sup>3</sup>  
 Dimensions: 28 x 51 x 34 cm  
 Approximate unit cost: £1118.42



A kit to use in conjunction with a Codan NGT HF Radio Base Station (Oxfam code KHB/6) to enable data to be sent along HF radio.

Item	Qty	Description
1.	1	<b>3012 Data modem</b> , supplied with Codan 9102 communications software for PC control of modem. Features: <ul style="list-style-type: none"> <li>• 2400 bps. With internal data compression, can be equivalent to 6,000bps.</li> <li>• error-free data transmission</li> <li>• binary and text file transfer and 'chat' mode operation</li> <li>• data scrambled for security</li> </ul> P/No: 08-05877-001
2.	1	Interface cable, NGT transceiver to modem (1 m) P/No: 08-05712-001
3.	1	<b>Option F Retrofit</b> – fan for continuous data transmission for NGT series transceiver P/No: 15-10469



**Packing and Marking**

To be packed in one sturdy triwall carton, marked "OXFAM CODE KHDF/1" with gross weight and dimensions clearly shown.

**Packing List**

One packing list to be securely fixed to the outside of the carton.  
 One packing list to be enclosed in the carton.

Specification date: 19 February 2002  
 Prepared by: Logistics Team

**Code KHM/7 High Frequency (HF) Mobile Radio**

Gross weight: 1 box of 7 kg, 1 box of 8 kg  
 Volume: 0.132 m<sup>3</sup>  
 Dimensions: 1 box of 54 x 34 x 28 cm  
 1 box of 170 x 20 x 18 cm  
 Approximate unit cost: £1544.97



A High Frequency (HF) unit for installation within a vehicle, for in-country voice link to other HF radios.



**Item Qty Description**

- |    |   |  |
|----|---|--|
| 1. | 1 | Codan NGT SRx<br>Mobile transceiver: <ul style="list-style-type: none"> <li>• 2011 RF Unit</li> <li>• 2020 Handset and cradle</li> <li>• Handset and Speaker Junction Connector with 6m Control Cable and Loudspeaker</li> </ul> |
|----|---|--|

**Features:** Innovative handset user interface, 20 channels, 1.6–30 MHz, 125 watts (PEP), 12 V DC, SB/LSB/AM, In-built Easitalk speech processing, Emergency call, Selective call, Scanning, Handset programming, Remote diagnostics (Optional), Morse call capability, Meets MIL-STD 810E for shock and vibration.

- |    |   |  |
|----|---|--|
| 2. | 1 | 9350 automatic tuning whip antenna featuring fast tuning and ease of installation<br>Supplied with stainless steel and fiberglass whip tops, interface cable, coaxial cable and spring |
| 3. | 1 | Vehicle installation hardware, comprising of vehicle mounting cradle, DC power and interface control cables, installation kit, fuse holder with fuse                                   |

**User's Notes**

- This radio is compatible with the following equipment:  
 Voice: Codan 8528 / 9323 / 9360 or other radios: Yaesu FT series, Q-Mac HF-90, etc.  
 Selcall: Codan 8528 / 9323 / 9360 or Q-Mac HF-90
- The Oxfam Communications Manual is available from the Logistics Team.

**Packing and Marking**

Items are to be packed in two sturdy triwall cartons. One carton is to contain the transceiver, cradles, cables, fuseHolder/fuse, speaker and installation fixing kit. The other carton is to contain the antenna, coaxial cable and spring. Cartons to be marked "OXFAM CODE KHM/7, part 1 of 2" (or "part 2 of 2") with gross weight and dimensions clearly shown. Marks to be on the front and back of each carton.

**Packing List**

One packing list to be securely fixed to the outside of the carton.  
 One packing list to be enclosed in the carton.

Specification date: May 2007  
 Prepared by: Logistics Team

**Code KI/3 Inverter (12 V to 220 V AC/DC)**

Gross weight: 1 kg  
 Volume: 0.013 m<sup>3</sup>  
 Dimensions: 0.20 x 0.10 x 0.66cm  
 Approximate unit cost: £142.52



Item	Qty	Description
1.	1	12V DC to 230V AC Inverter. 300W portable type with 2 x 13A UK pin socket outlets. Input 10 to 15 Volts. Output 230 V @ 50hz. I/P Low Voltage Alarm @ 10.7V. I/P Low Voltage Shutdown @ 10V. Overload Shutdown.



Specification date: 22 May 2007  
 Prepared by: Logistics Team

Code KM/4

Lightweight Antenna Mast Kit

Gross weight: 48 kg  
 Volume: 0.415 m<sup>3</sup>  
 Dimensions: 320 x 36 x 36 cm  
 Approximate unit cost: £400.23

Recommended for use with KHB and/or KVHB

Easy to assemble lightweight telescopic antenna mast. Ideal mast for HF base antenna and/or VHF base antenna. Where circumstances permit can be used for mounting repeater antenna.

Item	Qty	Description
1.	1	35ft telescopic mast in seven sections, type MSM-35 with: <ul style="list-style-type: none"> <li>• Guys/ground stays</li> <li>• Base Plate</li> <li>• Spring loaded locking pins</li> </ul>
2.	1	Antenna adapter U-bolt for connection of VHF antenna SMC63 (AF/1)

**K**

#### Packing and Marking

To be packed in one heavy duty canvas bag, marked "OXFAM CODE KM/4" with gross weight and dimensions clearly shown.

#### User's Notes

- 1 mast required for standard inverted "V" HF configuration. 2 masts required for circumstances where horizontal configuration is required.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the heavy duty bag  
 One packing list in a plastic bag to be enclosed in the heavy duty bag.

Specification date: 31 April 2007

Prepared by: Logistics Team

Code KP/3

Power Kit

Gross weight: 50 kg  
 Volume: 0.071 m<sup>3</sup>  
 Dimensions: 42 x 42 x 40 cm  
 Approximate unit cost: £824.96



A kit to provide a reliable regulated 12 V DC, and 240 V AC power from a 240 V source. To accompany HF Base Station (code KHB).

Item	Qty	Description
1.	1	Sollatek Automatic Voltage Sensor AVS 13: 13 A, 230 V, with 13 A socket, lead fitted with 13 A plug, fused
2.	1	Codan 3020 power supply fitted with 13A, 3 pin UK plug. Comes with Codan 702 cable kit.
3.	1	12V 85Ah Battery, gel filled, deep-cycling, non hazardous.
4.	2	5 metre extension cable with 4 x 13 A sockets
5.	1	3-pin to 2-pin adapter plug

K

### Packing and Marking

To be packed in one sturdy plywood case, marked "OXFAM CODE KP/3" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift.

### Packing List

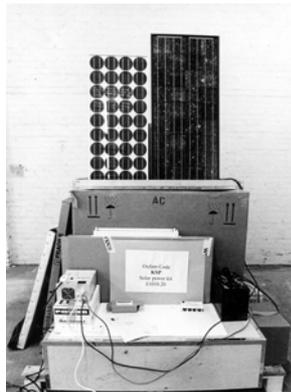
One packing list to be securely fixed to the outside of the case.  
 One packing list to be enclosed in the case.

Specification date: 24 May 2007  
 Prepared by: Logistics Team

Code KSP/2

Solar Power Kit

Gross weight: 60 kg  
 Volume: 0.242 m<sup>3</sup>  
 Dimensions: 126 x 60 x 32 cm  
 Approximate unit cost: £1060.00


**K**

A kit to provide solar power for 12 volt and 240 volt needs for HF and VHF equipment. Note that the power which this unit is capable of providing is limited. If a large quantity of equipment requires solar power, then a system should be designed to meet those particular needs.

Item	Qty	Description
1.	1	Solar panel, 12 volt, 60 watt peak
2.	1	Charge regulator
3.	1	12V, 85Ah Battery, gel filled, deep-cycling, non-hazardous.
4.	1	5 metre extension cable with 4 x 13 A sockets
5.	1	12V DC to 230V AC Inverter. 500 Watt Capacity
6.	1	Set of connection leads

#### Packing and Marking

To be packed in one sturdy plywood case, marked "OXFAM CODE KSP/2" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift.

#### Packing List

One packing list to be securely fixed to the outside of the case.  
 One packing list to be enclosed in the case.

Specification date: 14 September 1995  
 Prepared by: Public Health Team

Code KT/6

Communications Tool Kit

Gross weight: 32 kg  
 Volume: 0.1166 m<sup>3</sup>  
 Dimensions: 66 x 52 x 34 cm  
 Approximate unit cost: £290.70



A standard tool kit for use in installing communications equipment, and carrying out minor repairs.

Item	Qty	Part no.	Description
1.	1	58537	Screwdrivers, 7 piece set, including: <ul style="list-style-type: none"> <li>• Parallel – 2.5 x 85, 4.0 x 100, 5.5 x 125, 6.5 x 150 mm</li> <li>• Cross Point – 1 x 100, 2 x 200 mm</li> </ul> Supplied in clear plastic wallet
2.	1	14059	Watchmaker tool set, 11 piece set, including: <ul style="list-style-type: none"> <li>• Parallel – 1.0, 1.2, 1.4, 1.8, 2.4, 3.0 mm</li> <li>• Cross point – PHO-2, PH0, PH1</li> <li>• Fine Point Awl and Tweezers</li> </ul> Supplied in plastic case
3.	1	57660	Mains Tester Screwdriver, 100 mm, 150/250 V AC, neon indicator to show current present in the range 125–250 V
4.	1	14127	10-piece metric hexagon key set
5.	1	36530, 36605, 35638	Pliers Set (3 pieces): <ul style="list-style-type: none"> <li>• Combination Pliers</li> <li>• Snipe Nose Pliers</li> <li>• Diagonal Cutters</li> </ul>
6.	1	13657	4-way crimping tool
7.	2	50002	Terminal assortment pack: 50 (approx.) assorted terminals, colour coded. Contains 10 of V2, 6 of V-125, 4 each of MF125-7A, MF2-7A, V5.5, F2BS, F5.5B, 2 each of BF1.25, BG2, F1.25A, F5.5B, F1.25B and F2B
8.	1	64588	Engineers ball pein hammer ½ lb
9.	1	11529	Retractable trimming knife complete with 5 spare blades
10.	1	12042	Flat cold chisel 18 mm x 200 mm
11.	1	49650	Junior hacksaw
12.	1	19483	Grip wrench 255 mm (10") mole grip
13.	1	29545	11-piece metric combination wrench set
14.	1	19481	Adjustable wrench
15.	3	11982	Black PVC insulating tape 19 mm



Item	Qty	Part no.	Description
16.	1	60792	Digital multimeter with 9 volt battery
17.	1	62073	Weller 240 volt 25 watt soldering iron fitted 5 A 3-pin fused plug
18.	1	19225	Tube resin cored solder 60/40 1.0 mm
19.	1	65256	Extension cable reel 10 metre, 5 A, 1200 watt capacity, complete with BS1361A and BSEN61242 specifications, BSI approved, max. load 10 A
20.	2		13 A 3-pin black rubber plugs
21.	50		Cable ties 4.8 mm x 200 mm
22.	50		Cable ties 7.6 mm x 370 mm
23.	1	64220	15 compartment organiser
24.	1		Box Pozidriv wood screws
25.	1		Box assorted wall plugs
26.	1	36013	Cantilever tool box, 430 x 205 x 205 mm
27.	1	60177	40 mm standard brass padlock with keys
28.	1	19206	Masonry drill set 7 piece metric nos. 4,5,5.5,6,6.5,8 and 10 mm
29.	1	260859704	Masonry drill no. 24, 13 mm x 400 mm, 10 mm reduced shank
30.	1	19175	25-piece metric twist drill set, 1.00 mm to 10 mm x 0.5 mm
31.	10	11237	Junior hacksaw blades, 150 mm
32.	1	11955	Engineers file, 200 mm, flat, second cut
33.	1	11958	Engineers file, 200 mm, round, second cut
34.	1	66808	Hammer action drill, 240 volt AC, 13 mm chuck, 810 W motor. Drilling capacity: steel 13 mm, wood 30 mm, masonry 16 mm
35.	1		Shell albida grease 400 gram cartridge.
36.	4		12 way, 15 A PVC terminal block
37.	1		12 way, 30 A PVC terminal block
38.	1		13 A fuses for plugs, packet of 5
39.	1		6 mm cable clips, box of 100
40.	1		3- to 2-pin electrical plug adaptor

K

Part numbers given are from Draper Tools.

#### Packing and Marking

Individual items to be packed in item 26 (tool box), then in a plywood case. Case to be marked "OXFAM CODE KT/6" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift.

#### Packing List

One packing list to be securely fixed to the outside of the case.  
One packing list to be enclosed in the case.

Specification date: 16<sup>th</sup> May 2006  
Prepared by: Logistics Team

Code KVHB/5

VHF Base/Mobile Station

Gross weight: 13 kg  
 Volume: 0.102 m<sup>3</sup>  
 Dimensions: 136 x 30 x 25 cm  
 Approximate unit cost: £541.25



A VHF radio kit for voice links to other VHF radios for installation in an office, house or vehicle.

Item	Qty	Description
1.	1	Icom IC-F510, 25 watt programmable mobile/base transceiver with external SP-22 speaker, c/w fist microphone, and terminated fused power leads for 12 volt operation. Frequency range 136 – 174MHz, 256 Channel, 12.5KHz channel spacing, 5KHz steps, CTCSS tone capability, reverse polarity protection.. Key features of set up: <ul style="list-style-type: none"> <li>• Scan list 1-16 on NORMAL scan mode</li> <li>• User Pass Code 159357</li> <li>• Dealer Pass Code 159357</li> <li>• User Set Mode Access ENABLE</li> <li>• Dealer Set Mode Access ENABLE</li> <li>• Time Out Timer OFF</li> </ul>
2.	1	Kathrein No. 215465 VHF base antenna, with 2" OD mast mounting clamp
3.	30	Metres UR67 cable complete terminated with PL-259 plug and N-Type plugs
4.	20	Plastic cable ties, 370 mm long
5.	1	Gutter clip for vehicle antenna c/w allen key
6.	1	1/4 wave vehicle antenna for mounting on gutter clip c/w 4 metre length coaxial cable, terminated with PL-259 plug
7.	5	Metres single core 4 mm green earth wire
8.	1	Copper earth rod and clamp
9.	2	Spare fuses for power cable
10.	1	User Manual
11.	1	Programming Kit: CS-F500 PC Programming software (CD-ROM) with OPC-1122 PC>F510 cloning lead (RS-232C).



**User's Notes**

- This kit includes a VHF radio with accessories for installation in an office, house or vehicle.
- Additional equipment which should be considered for use with this kit include:
  - **Oxfam code KP Power Kit**, which produces a 12 volt power supply from a 220 volt source (e.g. mains or generator)
  - OR **Oxfam code KSP Solar Power Kit**, which supplies a 12 volt course from

the sun

**Oxfam code KG6 6kVA Generator Kit**, a 6 kVA diesel generator

**Oxfam code KM Mast Kit**, for erection of the antenna

**Oxfam code KT Tool Kit**

- This kit includes all necessary equipment and instructions for programming the radio using the PC software and cloning cable.
- The range of a VHF network will depend upon location but the base/mobile unit will have a better effective range than a walkie talkie. If it is felt that a repeater is required, please refer to the Logistics Team or to the Oxfam Communications Manual for more information.
- It is recommended that before alternative makes or models are considered, that the Logistics Team is consulted. Previous experience with locally supplied equipment has been poor, as radio compatibility is sometimes not achieved.

#### **Packing and Marking**

Items to be packed in one sturdy triwall carton, marked "OXFAM CODE KVHB/5" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift.



#### **Packing List**

One packing list to be securely fixed to the outside of the carton.

One packing list to be enclosed in the carton.

Specification date: May 2007

Prepared by: Logistics and Supply Team

**Code KVHW/7**

**VHF Hand Portable Kit**

Gross weight: 11 kg  
 Volume: 0.057 m<sup>3</sup>  
 Dimensions: 45 x 35 x 36 cm  
 Approximate unit cost: £1038.49



This kit includes four VHF walkie-talkies with a range of accessories including: four chargers, eight batteries, and two sets of accessories for using the walkie-talkies in a vehicle.

Item	Qty	Description
1.	4	Icom IC-F15: 16 Channel portable hand held VHF transceiver, 5 watt output, antenna, belt clip, (BP-232) 2,000mAh Li-Ion rechargeable battery pack. Frequency range 136MHz to 174MHz, 12.5KHz channel spacing, 5KHz steps, CTCSS tone capability. Main features of set up options are: <ul style="list-style-type: none"> <li>• RF Power Level HIGH on all channels</li> <li>• Power Save ON on all channels</li> <li>• Time Out Timer OFF on all channels</li> <li>• Scan List 1-16 on NORMAL mode</li> <li>• Dealer Pass Code 159357</li> </ul>
2.	4	BP-232 spare 2,000mAh Li-Ion rechargeable battery pack.
3.	4	BC160 Desktop battery charger for 220V operation with AC adapter fitted with 3 pin UK plug.
4.	2	12V Cigar lighter charger for use with BC160 above Item 3.
5.	2	¼ wave mobile whip antenna with gutter-clip mount, c/w 4 metre length antenna feeder coaxial cable with BNC plug
6.	2	IC-F3S-BNC antenna adapter (for use with item 5)
7.	1	CS-F14/15 PC programming software on CD-ROM with OPC-478U USB lead and adapter.
8.	1	4-way, 3-pin AC mains adapter, fitted with 3-pin plug
9.	1	Sollatek AVS 13 A 3-pin version with 2 x 2-pin adapters



**User's Notes**

- The battery BP-232, battery charger BC160 and programming software for the IC-F15 handset as supplied with this kit are NOT compatible with the battery BP209, battery charger BC144, and programming software for the IC-F3GS handset as supplied with the previous Oxfam kit (KVHW/6)
- This kit includes all the necessary equipment and instructions for field programming of the walkie-talkies using direct programming via a PC and cloning from one walkie-talkie to another.

- The range of the walkie-talkies will depend upon the location, but typically walkie-talkie to walkie-talkie communication in an open area is only possible with distances up to 5 miles (8km). In a built-up area the range will decrease significantly. The effective range of a VHF system can be enhanced through the use of a VHF base station (KVHB) or repeater station. OLT are currently considering inclusion of a standard repeater station in the catalogue. If uncertain about the capability of any communications equipment please consult with the logistics team for advice.
- It is recommended that the Logistics Team are consulted before alternative makes or models are considered. Previous experience with locally supplied equipment has often been poor.

#### **Packing and Marking**

Items to be packed in one sturdy triwall carton, marked "OXFAM CODE KVHW/7" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift.

#### **Packing List**

One packing list to be securely fixed to the outside of the carton.  
One packing list to be enclosed in the carton.



Specification date: May 2007

Prepared by: Logistics and Supply Team

## Code KSATT/2 Thuraya Handheld Satellite Telephone

Gross weight: 1.0 kg  
 Volume: 0.005 m<sup>3</sup>  
 Dimensions: 118 x 53 x 18.8mm  
 Approximate unit cost: £500



Item	Qty	Description
1.	1	Thuraya SO2510 handheld telephone, usable on GSM or satellite networks, incorporating fax/data modem, multi-function display and GPS functions (total weight 150 g with battery). Talk time up to 2.4 hours, standby time up to 50 hours dependent on phone usage
2.	2	3.7V rechargeable li-polymer battery
3.	1	SIM card
4.	1	AC travel charger with UK and European plug adapters
5.	1	DC charger with cigarette lighter connector
6.	1	USB data cable, operating system VX Works
7.	1	Carry bag, ear set
8.	4	CD & Manuals in English, French, Russian and Arabic
9.	1	Coverage list and call zone cost list

K

**User's Notes**

- This kit is fully operationally tested by the Logistics Team before issuing.
- The Logistics Team must be kept informed of the current budget code and budget holder for the phone. When a unit is moved from its original location the user must inform the appropriate Logistics Adviser (email [fieldlog@oxfam.org.uk](mailto:fieldlog@oxfam.org.uk)) of its new location even if it is in the same country.
- Any unit being returned to Oxford for repair/return should be complete to schedule. Any deficiencies will be charged to the last known user of the satphone. The Logistics Adviser must be informed of the satphone being returned and for what reason.
- Thuraya's coverage spans Europe, North and Central Africa, the Middle East, and Central and South Asia. For information on coverage in specific areas, please ask your Logistics Adviser or refer to the Oxfam Communications Manual or the Thuraya internet site ([www.thuraya.com](http://www.thuraya.com)).

- All Thuraya satphones supplied by the Oxford Logistics Team are enabled for data transmission.



**K**

Specification date: March 2007  
 Prepared by: Information Systems Department (ISD)

**Code KFX/5**

**Office Fax Machine**

**This item is Non-Stock**

Gross weight: 1 kg  
 Volume: 0.034 m<sup>3</sup>  
 Dimensions: 40 x 39 x 22 cm  
 Approximate unit cost: £332



*The i-SENSYS FAX-L100 is a fast, efficient laser fax offering reliability and ease-of-use. Benefit from rapid and Ultra High Quality transmission, a large fax memory plus a range of convenient features.*

Item	Qty	Description
1	1	A4 plain paper laser fax Fast Super G3 modem, 3sec./page* transmission 340-page* fax memory Canon's Ultra High Quality technology 30-page Automatic Document Feeder All-in-One cartridge
2	2	Replacement cartridges
3	1	AVS (Oxfam code AVS - Logistics warehouse stock item)
4	1	Universal 3 pin to 2 pin adaptor (Oxfam code AUP – Logistics warehouse stock item)



**User's Notes**

- Please note that since fax machine models are updated regularly, a similar model from one of the major manufacturers may replace this unit.

**Packing and Marking**

All items to be packed in a sturdy triwall carton at the Oxfam Logistics Warehouse. Carton to be marked "OXFAM CODE KFX/5" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list to be securely fixed to the outside of the carton.  
 One packing list to be enclosed in the carton.

Specification date: 16<sup>th</sup> March 2007  
 Prepared by: Logistics and Supply Team

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## Category L

### Latrines & Sanitation

Code LD/3	Latrine Digging Kit	201
Code LOP/2	Self-Supporting Plastic Squatting Slab (17)	203
Code LOPN/2	Self-Supporting Plastic Squatting Slab (35)	205
Code LOPNW/1	Plastic Pour – Flush Toilet Pan (140)	207
Code LSP/1	Sanplat Latrine Slab Mould	209
Code LST/2	Emergency Latrine Superstructure (Blocks of 4)	211
<b><i>The items in italics are not Oxfam stock items:</i></b>		
<i>The following kits are not commonly used, but the specifications have been prepared to facilitate the quick purchase and deployment of these items if required.</i>		
Code LS/3	<i>Latrine Slab Kit</i>	213





Code LD/3

Latrine Digging Kit

Gross weight: 208 kg  
 Volume: 0.939 m<sup>3</sup>  
 Dimensions: 167 x 76 x 74 cm  
 Approximate unit cost: £482.19



This kit is suitable for all hand digging exercises, including pipe trenches, levelling areas for tanks, etc., as well as digging latrines.

Item	Qty	Description
1.	10	Pointed trenching shovels with handles, pressed from high steel, fitted with graded wooden shaft. Stock polished for comfort in use. Weatherproofed handle. Size no. 2. Round mouth with T-type hilt, shovel size. 28" shaft x 12 x 9.1/2" blade.
2.	10	Flat trenching spades with handles, pressed from high quality steel, fitted with 28" graded wooden shaft and PY-type hilt. Socket polished for comfort in use. Weatherproofed handle. Blade type: square mouth. Blade size: 12" x 10", size no. 2
3.	10	Pickaxes (chisel and point) with handles. 3.2 kg pick axe head. Eye size 70 x 50 mm. Will accept standard pick axe shafts. Weight 3.2 kg. Hardwood pick/mattock shaft, 900 mm, sanded and waxed. For pick axes and mattocks with eye size 78 x 54 mm.
4.	500 m	Roll of site marking tape, red/white
5.	6	13.5 litre buckets (galvanised)
6.	6	Contractors' rakes with handles, 12-tooth head with epoxy-coated finish. Head securely fixed to tubular steel handle. With black plastic hand grip with hang hole. Blade width 280 mm.
7.	5	Miners' bars, one end chisel, one end point, 3 cm dia., length 1.5 m
8.	5	Cold chisels, length 225 mm, blade width 75 mm
9.	5	4 lb lump hammers, forged head from fine high carbon, correctly hardened and tempered. Shaft from first-quality straight-grained hickory. Weight 1.8 kg (4 lb).
10.	1	Measuring tape, length 30 m, width 13 mm
11.	2	8 mm polypropylene rope, 30 m coils



#### User's Notes

- This kit is intended to provide tools to set up defecation zones, Defecation Field/Trench Latrine Kit, which may be completed with Oxfam code LOP and LOPN, Self Supporting Plastic Squatting Plate Kit, and start a pit latrine programme. One

Oxfam code LD Kit is recommended for every 5000 people. Additional tools for a family latrine programme should be purchased locally.

- Marker tape is incorporated into this kit to be used as required, e.g. to mark out construction sites. It could also be used to mark out areas for defecation fields at the start of an emergency sanitation programme.
- Tools can be loaned to members of the community to dig their own latrine pits. Pits should be as deep as possible (up to 3 m). Round pits are more stable than square or oblong pits, so round pit digging should be encouraged.
- The tools in this kit are also suitable for digging pipe trenches, levelling areas for tank construction, and for general excavation and construction work.

#### Packing and Marking

All items to be packed in one plywood case, marked "OXFAM CODE LD/3" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list to be securely fixed to the outside of the case.

One packing list, including Oxfam User's Notes, to be enclosed in the case in a grip-seal plastic bag.



Specification date: 29 January 2003

Prepared by: Logistics Team

**Code LOP/2 Self-Supporting Plastic Squatting Slab (17)**

Gross weight: 228 kg  
 Volume weight: 424 kgs  
 Volume: 2.54 m<sup>3</sup>  
 Dimensions: 200 x 121 x 105 cm  
 Approximate unit cost: £414.12



This kit is to be used to provide a hygienic latrine slab in first phase emergencies, for communal and family latrines, health centres, feeding centres, etc.

Oxfam has the LOP and LOPN as self supporting squatting plates. The preferred item should always be the LOPN and any requests for LOP's will automatically be switched to LOPN's so long as we have sufficient stock of LOPN's

Item	Qty	Description
1.	17	Self-supporting plastic squatting plates, 1 m x 1.2 m Includes hinged hole cover Hole perforations are at each corner so that poles can be inserted for the superstructure.

**User's Notes**

- The squatting plate may be used on shallow or deep trenches or pits, up to 1 m wide so there is 10 cm of slab firmly on the ground at each side. They are self-supporting and therefore need no supporting members under the slab. Care should be taken to ensure that the pit edge is firm and stable before installing the slab. Good practice is to always put a lintel of concrete, bricks or blocks around the top of the pit.
- This kit is designed to be used in conjunction with the LST kit which is a rapid emergency superstructure kit including poles to slot into holes which can be made in the corners of the plastic slab and plastic sheeting.
- During the first phase of an emergency, for use in public pit latrines or trench latrines, one squatting plate should be allowed for every 50 people. For 5000 people, therefore, six squatting plate kits should be ordered. (The minimum standard is 20 people per latrine.)
- For longer term excreta disposal, slabs made from cheaper and more locally available materials should be used. Concrete slabs may be produced using the Oxfam Latrine Slab Making Kit (Oxfam code LS).

**Packing and Marking**

Items to be stacked and bound or shrink-wrapped on a Euro pallet. Stack to be marked "OXFAM CODE LOP/2" with gross weight and dimensions clearly shown. Marks to be on

the front and back of the stack, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list to be securely fixed to the outside of the stack.

One packing list, including Oxfam User's Notes, to be placed inside the packaging in a grip-seal plastic bag.

Specification date: 2 October 2003

Prepared by: Environmental Engineering  
Team



## Code LOPN/2 Self-Supporting Plastic Squatting Slab (35)

Gross weight: 431 kg  
 Volume: 2.03 m<sup>3</sup>  
 Dimensions: 120 x 80 x 212 cm  
 Approximate unit cost: £756



This kit is to be used to provide a hygienic latrine slab in first phase emergencies, for communal and family latrines, health centres feeding centres, schools e.t.c.

Oxfam has the LOP and LOPN as self-supporting squatting plates. The preferred item should always be the LOPN and LOP's will only be supplied if we have insufficient stock of the LOPN

Item	Qty	Description
1.	35	Plastic (LLDPE {UV}) squatting plates, each of dimension 1.2m long x 0.8m wide and 55mm thick, (red granite coloured) and includes HDPE (UV) hinged hole cover, and 5 no, M6 x15 brass moulded inserts at the bottom side of the slab as provision for bolting on a pan and trap to its underside.
2.	140	4no, 8mm diameter, 275 mm long, tent pegs made out of Steel, slotted on the underside of every slab.



## User's Notes

- This slab can be used as a direct drop self-supporting slab or a pour flush slab. As a direct drop slab, it may be used on shallow or deep trenches or pits, up to 90cm wide so that there is at least 10cm of slab firmly on the ground. The slab is self-supporting and therefore needs no supporting members under it. Care should be taken to ensure that the pit edge is firm and stable before installing the slab. The slab comes with 8mm thick and 275mm long metallic pegs that can be used to firmly fix the slab. Good practice is to always put a lintel of concrete, bricks or blocks around the top of the pit to receive/hold the slab.
- For pour-flush one needs to order 4 LOPN kits to 1 LOPNW kit for 140 pour-flush toilets.
- The slab is for use in public pit or trench latrines during the first phase of an emergency. Each squatting slab should be allowed for 50 people in first phase emergency but the number of users should gradually reduce to the minimum standard of 20 people per latrine. For 5,000 people therefore, 6 self-supporting slab kits should be ordered.
- For longer-term excreta disposal, slabs made from cheaper and more locally available materials should be used. Concrete slabs may be produced using the Oxfam latrine slab making kit, Oxfam Code LS.

**Packing and Marking**

The squatting slabs will be stacked and bound or shrink –wrapped on a Euro pallet and each pallet will carry 35 slabs. Stack to be marked “OXFAM CODE LOPN” with gross weight and dimensions clearly shown. Marks to be on the front and back of the stack, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the stack and wrapping.

One packing list, including Oxfam User’s Notes, to be placed inside the packaging in a grip-seal plastic bag.

Specification date: 25<sup>th</sup> January 2007

Prepared by: Public Health Engineering Team



Code LOPNW/1

Plastic Pour – Flush Toilet Pan (140)

Gross weight: 156 kg  
 Volume: 2.06 m<sup>3</sup>  
 Dimensions: 120 cm x 80 cm x 215 cm  
 Approximate unit cost: £378



This kit **can only** be used with a light weight self supporting slab (Code LOPN/2) to provide a hygienic pour-flush latrine slab in first phase emergencies where communities use water for flushing and anal cleansing. Order 1 LOPNW kit to 4 LOPN/2 kits for complete pour-flush slab kit.

Item	Qty	Description
1.	140	2mm thick plastic (PPCP) pour flash toilet pan with a slope of 35 degrees for easy flush and reduced usage of water and exit pipe size of 81mm (OD). Each Pan is of dimension 470mm long x 250mm wide x 345mm high and has five holes as provision for bolting on the underside of a LOPN slab. The pan is scratch, Hydrochloric acid and Uric acid resistant.
2.	140	2.5 mm thick plastic (PPCP-Polypropylene Copolymer) toilet P-Trap with a 20 mm water seal to minimise odours, 81.7 mm inlet pipe (ID) and 104.5mm exit pipe (OD). The exit pipe has a slope of 10 degrees for easy flushing and reduced usage of water. The trap has a flat base for easy assembly. The trap is of dimension 285mm long x 179mm height and diameter of 87mm at inlet end, 81mm in mid area and 104.5mm at exit.
3	140	5no kit of M6 x 15 Brass screws with brass plain washers to be used for bolting a pan on the underside of a LOPN slab.
4	140	500 mg, plastic ampoule adhesive to be used for joining the pan along with the trap.



#### User's Notes

- The pour-flush kit can be used by bolting the pan on the underside of a LOPN slab using the provided brass screws. The P-trap is joined to the pan, using adhesive. P-trap is then connected by piping (offset) to a septic tank, reception/holding tank, a stabilisation pond or existing sewer or it can exit directly into a tank below the slab (to work as a Goose-Neck Trap). It is good practice to give a slope of at least 2% to the connecting pipes to the tanks to facilitate easy flow and minimise silting and blockages. In situations where the pour flush system is connected to reception/holding tanks, ensure that means for desludging the tanks are put in place.
- The Water Seal slab can be used in situations where communities use water for flushing and anal washing. When installing this system, ensure there is enough water to flush the toilet and provision should also be made for storage or easy collection of water for flushing near the toilet. It is good practice to

allow at least 4 litres per person/day for pour-flushing and anal washing. For 5,000 users of a pour flash system allow for 20,000 litres of water per day for flushing and anal washing.

- Each pan and p trap should be allowed for 50 people in a first phase emergency but the number of users should gradually reduce to the minimum standard of 20 people per latrine.

#### Packing and Marking

Items to be packed in sets in four corrugated paper boxes and stacked and bound or shrink-wrapped on a Euro pallet. The pans and P-Traps will be stack into each other. Each corrugated paper box will carry a set of 35 pans, traps and brass screws and adhesive ampoules to match one LOPN kit. Four boxes will be stacked on a Euro pallet and each will carry 140 sets of pans and traps. Stack to be marked "OXFAM CODE LOPNW" with gross weight and dimensions clearly shown. Marks to be on the front and back of the stack, as determined by runners for a forklift. Oxfam logo to be painted on all sides.

#### Packing List

Brass screws with brass plain washers and adhesive ampoule all packed in a transparent plastic bag and included in the corrugated box.

One packing list to be securely fixed on each corrugated paper box and to the outside of the stack.

One packing list, including Oxfam User's Notes, to be placed inside the packaging in a grip-seal plastic bag.



Specification date: 21<sup>st</sup> March 2007  
Prepared by: Public Health Engineering Team

Code LSP/1

Sanplat Latrine Slab Mould

Gross weight: 4 kg  
 Volume: 0.048 m<sup>3</sup>  
 Dimensions: 73 x 73 x 9 cm  
 Approximate unit cost: £42

This mould is to be used to provide a hygienic latrine slab to upgrade typical types of traditional latrines made of timber and other local materials.

Item	Qty	Description
1.	1	SanPlat 'all in one' mould, normal. 4 mm UV protected impact resistant plastic
2.	1	SanPlat hole mould
3.	1	Oxfam's User's Notes

#### User's Notes

- Start by greasing the shiny side of the 'all in one' SanPlat Mould with clean motor oil or grease on a cloth, even on the outsides. The oil will protect the mould from being destroyed by the cement.
- Wash the sand and stone if you have any doubts about its purity and let it dry before mixing with the cement. Dust and impurities make the concrete weak. Mix cement with dry and clean sand and stone in the proportions 1+2+2 (or 1+2+3), add very little water and mix well. Divide in two parts and add extra water and cement to the softer one of the heaps to make it liquid. Stir well in bucket or laundry basket.
- Pour the liquid concrete in the mould and stir gently with a trowel or a twig, and hammer gently on the mould to release all air bubbles from the plastic surface. Be careful not to scratch the mould. Put in reinforced bars as required before adding the very stiff concrete to well cover the reinforcement. Extra reinforcement may be required for transport reasons. Allow the dry concrete to soak up the water and compact the concrete with a piece of wood until cement water comes up on the surface. (You may choose to start another slab while the water soaks up.)
- Write the date and the number of the SanPlat in the fresh concrete. Start with number 1 and continue with 2 on the next one, etc. You may need to sprinkle some cement at the place of writing. The date and number will help you to monitor the production and the progress. If it was too wet use less water for the next one. Put the mould on a flat surface and allow to harden for one or two days. By using two planks under the footrests, you can pile the ones that are ready and save space.
- When hard, turn the mould very gently over soft sand or grass to get the SanPlat out of the mould. Don't let it fall! It is still very weak. Clean the mould with a soft cloth and some oil and it is ready to be used again. Do not use sharp objects or stones to remove concrete rests.
- Put the SanPlat (and the moulds) in the shadow not to catch too much sun, cover with plastic and sand and keep the SanPlat wet for one week.



- A lid of concrete can be made using a special mould, but you can also use the back side of the 'all in one' mould as a mould for the lid.  
A piece of wet paper (from the cement bag) or some oil will protect the SanPlat from sticking to the fresh cement. The handle can be made of a piece of reinforcement bar well fixed in the concrete. Put in extra reinforcement to make it extra strong. Use a piece of polyethylene bag to smoothen the surface and keep it wet for one week to cure properly.

#### Packing and Marking

All items to be packed in a sturdy triwall carton, marked "OXFAM CODE LSP/1" with gross weight and dimensions clearly shown. Marks to be on the front and back of the carton, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list to be securely fixed to the outside of the carton.

One packing list, including Oxfam User's Notes, to be placed inside the carton in a grip-seal plastic bag.

Specification date: 15 September 1999  
Prepared by: Public Health Engineering Team



**Code LST/2      Emergency Latrine Superstructure (Blocks of 4)**

Gross weight:            265 kg as guide weight  
 Volume:  
 Dimensions:  
 Approximate Unit      £500 As guide price  
 Cost:

This kit is to be used in conjunction with the self-supporting plastic squatting slab (Oxfam slab LOP/1 and LOPN/2) to provide a superstructure for a block of four latrine stance/cubicles, in first phase emergencies, for communal and family latrines, health centres feeding centres, schools e.t.c.

**Item    Qty    Description**

1		Exact model to be decided but will conform to the criteria below: <ul style="list-style-type: none"> <li>• Cover a block of 4 latrine cubicles and weigh less than 265Kg.</li> <li>• Cost below £500 for a structure that covers four cubicles.</li> <li>• Be durable and stable enough to last in hot sunny conditions plus windy, sandy and rainy environments</li> <li>• Optional roof so that where culturally required/acceptable, a roof can be installed and where not required, the structure can still stand.</li> <li>• Go around 4 slabs of 1.2m by 0.8m providing 4 cubicles and 1.8 metres high</li> <li>• Rip proof and not opaque material.</li> <li>• Closable and a lockable door or flap for privacy</li> <li>• Easy and quick to put up, dismantle and flat packed.</li> </ul>
2	16 mm Ropes	
3		Tent Pegs for increased stability

**User's Notes**

Full instructions will come with the kit but the plastic squatting slabs are not included in the kit and should be ordered separately.

- The emergency superstructure kit is for use in public pit or trench latrines during the first phase of an emergency. Each latrine cubicle should be allowed for 50 people in first phase emergency but the number of users should gradually reduce to the minimum standard of 20 people per latrine. For 5,000 people therefore, 25 superstructure kits should be ordered.
- For longer-term excreta disposal, superstructure made from cheaper and more locally available materials should be used. Stabilised Soil blocks, concrete blocks, clay bricks or timber may be used with thatch or iron sheets for roof as may be appropriate.

**Packing and Marking**

The superstructure kit will be packed in a sturdy crate marked "OXFAM CODE LST/2" with gross weight and dimensions clearly shown. Marks to be on the front and back of the crate as determined by the runners for the forklift. Oxfam logo to be painted black on all sides of the crate.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the crate.  
One packing list, including Oxfam User's Notes, to be enclosed in the crate.

Specification date: 27 March 2007  
Prepared by: Public Health Engineering Team



**Code LS/3****Latrine Slab Kit****Non-stock item**

Gross weight: 213 kg  
 Volume: 1.180 m<sup>3</sup>  
 Dimensions: 56 x 186 x 113 cm  
 Approximate unit cost: £1713.93



<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	5	1.2 m $\varnothing$ steel circular slab former, 100 mm high (in two halves, complete with two clasps)
2.	10	Wooden cross and 0.5 m crate spikes
3.	2	Sand former (hardwood) – 1.2 m diameter
4.	2	Concrete tamper/former (hardwood)
5.	5	Squatting hole plug (hardwood)
6.	5	Footstand template (plywood – varnished with taper in opposite direction to the LS/2 model)
7.	5	1.2 m x 1.2 m square slab former (hardwood)
8.	2	5 lb lump hammers with wooden shaft
9.	2	Cement plastering floats (steel)
10.	2	Pointing trowels
11.	2	6" screwdrivers (crossheaded end)
12.	2	8" flatnose pliers
13.	4	15 litre bucket (heavy duty galvanised)
14.	1	Skewback handsaw (22") hardened steel with tooth guard
15.	2	Shovels (flat end)
16.	1	0.5 kg 2" nails
17.	1	Adjustable tubular frame hacksaw
18.	10	12" x 1/2" x 18 tpi HSS hacksaw blades
19.	1	5 m metal tape measure
20.	1	Carpenter tool bag (canvas)
21.	1	Approtech instructions 'How to make domed pit latrine slabs'
22.	1	Sanplat instructions
23.	1	BRE Overseas Information Paper (OIP1, 1989): A permeable lining for seepage pits (pit latrines, soakaways and shallow wells)
24.	1	UNICEF-Nepal brochure on 'How to build a simple pit latrine'
25.	1	Notes on onsite latrine designs



26. 1 *Technical options extract from 'A Guide to the Development of onsite sanitation' (1992)*
27. 1 *'Guide to Soil Identification' (WEDC, 1987)*
28. 1 *Packing list and copy of Oxfam User's Notes*

#### User's Notes

- *This kit contains the equipment to start making simple family pit latrines which may be suitable forms of excreta disposal facilities in refugee camps. The kit comprises two latrine slab options with sufficient moulds and plastering tools to be able to cast ten slabs each day. They are outlined as follows:*
- *Simple concrete domed slab mouldings for areas where timber and reinforcing iron bars are not available.*
- *Simple concrete reinforced slab mouldings for areas where timber is in short supply but where reinforcement bars are available.*
- *With this kit, facilities for 5000 people can be constructed within six weeks, where two families are prepared to share one latrine. Where more families (say, four) are prepared to share the same latrine, access to latrines may be provided more quickly still.*

*Latrine pits should be circular for maximum stability, and no more than 1.2 m in diameter, with vertical sides. Where soils are unstable (see attached guide to soil identification), latrine pits may need lining with stone, brick or blocks, at least over the top 0.5 to 1.0 metre. Moulds for casting concrete blocks for pit lining may be made locally, or purchased if necessary from Oxfam.*

- *Where sufficient timber or bamboo is available from renewable sources, concrete slabs may not be necessary. Wood or bamboo lashed together and covered with a layer of mud makes a strong slab which may last for several years. A longer slab life may be achieved by painting the timber with engine oil /diesel /kerosene prior to construction. This treatment discourages rotting by termites and other insects (See UNICEF-Nepal pamphlet on simple pit latrine construction). However, concrete slabs provide the more hygienic solution and may be cheaper in the long run than timber or bamboo slabs. Concrete slabs can also be re-used once the original pits fill up, whereas this is rarely possible with timber or bamboo.*
- *Conversion of the simple pit latrine slab into a ventilated improved one can be done relatively easily if required. A vent pipe hole must be constructed or cast into the slab in a position which will not interfere with the intended use of the slab. This can be done by casting a short length of 150 mm dia. PVC pipe into the slab at a suitable place, filling the pipe with concrete. This provides a plug which can be knocked out if the latrines are to be upgraded to VIPs at a later stage. A vent pipe for this type of latrine must have a minimum internal diameter of 150 mm. The length of pipe must be sufficient to protrude above the latrine house by at least 500mm and should be provided with a fly screen of mosquito mesh.*
- *Conversion of the simple pit latrine slab into a waterseal unit is also possible. Again this has not been included in the contents of this kit.*
- *Small, flat reinforced concrete slabs can be cast (60 x 60 cm). In order to span a typical hand-dug latrine pit, additional strong timber is required. This small slab only serves to provide a surface around the latrine hole which is easy to keep clean. A mould for this has not been included in this latrine kit, but can be made with the*



carpenters tools in this kit, and used together with the squatting hole plug and footplate template in the kit (items 5 & 6). A small slab may be ideal for construction over an augered 'borehole' latrine.

- Latrine housing materials are infinitely variable. Where local materials are available, these are preferable. In some circumstances plastic sheeting may be appropriate. Green sheeting is partially translucent in certain lighting conditions, whereas blue plastic or grey/white plastic has higher opacity. Plastic sheeting is not included in this kit and must be ordered separately.  
If brick or block superstructures are to be built, ensure that the soil is stable enough, or that pits are lined adequately and that they are provided with protective surface drainage to avoid collapse.
- Additional moulds can be made up locally as required, using the examples in the kits as models. Additional tools should be purchased locally.
- A 13.5 litre bucket will hold 20 kg of cement. Materials and labour needed for producing 1000 domed concrete slabs in Rwandan refugee camps in Tanzania as follows:

<b>Item / Material</b>	<b>Unit</b>	<b>Quantity</b>
Cement	50 kg bag	1000
Sand	tonne	60
Crushed stone	tonne	90
Labour	m/days	1800



#### **Packing and Marking**

All documentation to be placed in grip-seal plastic bags. All items to be packed in one plywood case, marked "OXFAM CODE LS/3" with gross weight and dimensions clearly shown. Marks to be on the front and back of the stack, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### **Packing List**

One packing list to be securely fixed to the outside of the case.  
One packing list, including Oxfam User's Notes, to be placed inside the case.

Specification date: 27 April 2000  
Prepared by: Public Health Engineering Team

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## Category M Warehousing

<i>The items in italics are not Oxfam stock items</i>		
<i>The following items are not commonly used, but the specifications have been prepared to facilitate the quick purchase and deployment of these items in the event of them being required</i>		
<i>Code MHPH</i>	<i>Heavy duty pallet truck</i>	219
<i>Code MHPT</i>	<i>Platform Truck</i>	219
<i>Code MHSH</i>	<i>Shelving Unit Heavy Duty</i>	220
<i>Code MHSP</i>	<i>Shelving Unit Plastic</i>	220
<i>Code MHST</i>	<i>Sack Truck</i>	221
<i>Code MSIA</i>	<i>First Aid Box Sign</i>	221
<i>Code MSIE</i>	<i>Fire Exit Keep Clear Sign</i>	222
<i>Code MSIF</i>	<i>Fire Exit Direction Sign</i>	222
<i>Code MSNA</i>	<i>No Admittance Sign</i>	223
<i>Code MSNS</i>	<i>No Smoking Sign</i>	223
<i>Code MSWC</i>	<i>Caution Corrosive Sign</i>	224
<i>Code MSWF</i>	<i>Danger Flammable Sign</i>	224
<i>Code MSWH</i>	<i>Trip Hazard Sign</i>	225
<i>Code MSWL</i>	<i>Danger Fork Lift Sign</i>	225
<i>Code MSWT</i>	<i>Toxic Danger Sign</i>	226
<i>Code MWBC</i>	<i>Bolt Cutter</i>	226
<i>Code MWPL</i>	<i>Padlocks Internal &amp; External</i>	227
<i>Code MWSK</i>	<i>Safety Knife</i>	227
<i>Code MWSL</i>	<i>Step Ladder</i>	228
<i>Code MWTD</i>	<i>Tape Dispenser</i>	228
<i>Code MWTO</i>	<i>Torch</i>	229
<i>Code MWWC</i>	<i>Wire Cutter</i>	229





**Code MHPH****Heavy duty pallet truck****This is a non-stock item**

Gross weight: 100 kg  
 Volume: 0.7 m<sup>3</sup>  
 Dimensions: 1150mm x 550mm x 400mm  
 Approximate unit cost: £155



Item	Qty	Description
1	1	Heavy-duty pallet truck, capacity 2500kg, minimum fork height 75mm, maximum fork height 190mm, size of fork 160mm x 60mm. Overall fork width 550mm. Fork length 1150mm.

**Packing and Marking**

To be marked "OXFAM code MHPH" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MHPT****Platform Truck****This is a non-stock item**

Gross weight: 28 kg  
 Volume: 0.31m<sup>3</sup>  
 Dimensions: 450mm x 1000mm x 700 cm  
 Approximate unit cost: £139.50

**M**

Item	Qty	Description
1	1	Platform Truck, 500kg load capacity. Push/pull, 2 fixed wheels, rear wheel swivel. 150mm rubber wheels. 880mm high handle. 450mm high platform.

**Packing and Marking**

To be marked "OXFAM code MHPT" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MHSH****Shelving Unit Heavy Duty****This is a non-stock item**

Gross weight: 50 kg  
 Volume: 0.4 m<sup>3</sup>  
 Dimensions: 915mm x 458mm x 100mm  
 Approximate unit cost:



Item	Qty	Description
1	1	Shelving Unit Heavy Duty, 900 kgs per shelf, max 4 shelves, each shelf adjustable at 40mm increments. Metal frame with 18mm high-density chipboard. Boltless shelving. Self assembly kit.

**Packing and Marking**

To be marked "OXFAM code MHSH" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MHSP****Shelving Unit Plastic****This is a non-stock item**

Gross weight: 25 kg  
 Volume: 0.2 m<sup>3</sup>  
 Dimensions: 900mm x 480mm x 15mm  
 Approximate unit cost: £110



Item	Qty	Description
1	1	Shelving Unit Plastic, 70kg max load per shelf, 5 shelves max. Flat pack self assembly. When assembled 900mm x 480mm x 1830mm.

**Packing and Marking**

To be marked "OXFAM code MHSP" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MHST****Sack Truck****This is a non-stock item**

Gross weight: 11kg  
 Volume: 0.2 m<sup>3</sup>  
 Dimensions: 1120 x 470 x 410mm  
 Approximate unit cost: £ 39.95



Item	Qty	Description
1	1	Sack Truck, 100kg load capacity, hardwearing lightweight.

**Packing and Marking**

To be marked "OXFAM code MHST" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MSIA****First Aid Box Sign****This is a non-stock item**

Gross weight: 0.2 kg  
 Volume: 0 m<sup>3</sup>  
 Dimensions: 200 x 300mm  
 Approximate unit cost: £3.82

**M**

Item	Qty	Description
1	1	First Aid Box Sign, self adhesive vinyl, 200 x 300mm

**User's Notes**

Information sign to identify the location of a first aid kit.

**Packing and Marking**

To be marked "OXFAM code MSIA" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MSIE****Fire Exit Keep Clear Sign****This is a non-stock item**

Gross weight: 0.2 kg  
 Volume: 0 m<sup>3</sup>  
 Dimensions: 450 x 200mm  
 Approximate unit cost: £5.68



Item	Qty	Description
1	1	Fire Exit Keep Clear Sign, self adhesive vinyl, 450 x 200mm

**Packing and Marking**

To be marked "OXFAM code MSIE" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MSIF****Fire Exit Direction Sign****This is a non-stock item**

Gross weight: 0.2 kg  
 Volume: 0 m<sup>3</sup>  
 Dimensions: 400 x 150mm  
 Approximate unit cost: £3.82

**M**

Item	Qty	Description
1	1	Fire Exit Direction Sign, self adhesive vinyl, 400 x 150mm

**User's Notes**

Please state direction of arrow when requesting this item, e.g. up, down, left, right.

**Packing and Marking**

To be marked "OXFAM code MSIF" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MSNA****No Admittance Sign****This is a non-stock item**

Gross weight: 0.2 kg  
 Volume: 0 m<sup>3</sup>  
 Dimensions: 300 x 100mm  
 Approximate unit cost: £1.77



Item	Qty	Description
1	1	No Admittance Sign, self adhesive vinyl, 300 x 100mm

**User's Notes**

- Prohibition sign for use in areas restricted to authorised personnel.

**Packing and Marking**

To be marked "OXFAM code MSNA" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MSNS****No Smoking Sign****This is a non-stock item**

Gross weight: 0.2 kg  
 Volume: 0 m<sup>3</sup>  
 Dimensions: 200 x 200mm  
 Approximate unit cost: £2.63



Item	Qty	Description
1	1	No Smoking Sign, self adhesive vinyl, 200 x 200mm

**User's Notes**

- Prohibition sign for use around warehouse and fuel stores.

**Packing and Marking**

To be marked "OXFAM code MSNS" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MSWC****Caution Corrosive Sign****This is a non-stock item**

Gross weight: 0.2 kg  
 Volume: 0 m<sup>3</sup>  
 Dimensions: 300 x 100mm  
 Approximate unit cost: £1.77



Item	Qty	Description
1	1	Caution Corrosive Sign, self adhesive vinyl, 300 x 100mm

**User's Notes**

Warning sign for use around corrosive substances e.g. acids

**Packing and Marking**

To be marked "OXFAM code MSWC" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MSWF****Danger Flammable Sign****This is a non-stock item**

Gross weight: 0.2 kg  
 Volume: 0 m<sup>3</sup>  
 Dimensions: 200 x 300mm  
 Approximate unit cost: £3.82



Item	Qty	Description
1	1	Danger Flammable Sign, self adhesive vinyl, 200 x 300mm

**User's Notes**

Warning sign for use near fuel stores.

**Packing and Marking**

To be marked "OXFAM code MSWF" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**M**

**Code MSWH****Trip Hazard Sign****This is a non-stock item**

Gross weight: 0.2 kg  
 Volume: 0 m<sup>3</sup>  
 Dimensions: 200 x 300mm  
 Approximate unit cost: £3.82



Item	Qty	Description
1	1	Trip Hazard Sign, self adhesive vinyl, 200 x 300mm

**User's Notes**

Warning sign for use where trip hazards are present.

**Packing and Marking**

To be marked "OXFAM code MSWH" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MSWL****Danger Fork Lift Sign****This is a non-stock item**

Gross weight: 0.2 kg  
 Volume: 0 m<sup>3</sup>  
 Dimensions: 200 x 300mm  
 Approximate unit cost: £3.82



Item	Qty	Description
1	1	Danger Fork Lift Sign, self adhesive, 200 x 300mm

**User's Notes**

Warning sign for use where pedestrians or vehicles may enter areas having forklifts operating.

**Packing and Marking**

To be marked "OXFAM code MSWL" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**M**

**Code MSWT****Toxic Danger Sign****This is a non-stock item**

Gross weight: 0.2 kg  
 Volume: 0 m<sup>3</sup>  
 Dimensions: 200 x 300mm  
 Approximate unit cost: £3.82



Item	Qty	Description
1	1	Toxic Danger Sign, self adhesive, 200 x 300mm

**User's Notes**

- Warning sign for use where toxic substances are present e.g. deltamethryn

**Packing and Marking**

To be marked "OXFAM code MSWT" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MWBC****Bolt Cutter****M****This is a non-stock item**

Gross weight: 8 kg  
 Volume: 0 m<sup>3</sup>  
 Dimensions: 900 x 35cm  
 Approximate unit cost: £19.00



Item	Qty	Description
1	1	Bolt Cutter, cuts through cables and bolts up to 3/8 inch thick, made from drop forge steel

**Packing and Marking**

To be marked "OXFAM code MWBC" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MWPL****Padlocks Internal & External****This is a non-stock item**

Gross weight: 0.2 kg  
 Volume: 0 m<sup>3</sup>  
 Dimensions: 25mm shackle with 6.35 diameter  
 Approximate unit cost: £19.50



Item	Qty	Description
1	1	Padlocks Internal & External, Chrome-plated shackle made from case hardened steel and a solid aluminium body with an anodised finish for durability. Each padlock contains a 5 pin re-keyable tumbler for added security and is supplied with 2 keys. Lightweight, corrosion resistant. 6.35mm Shackle (Dia.) Available in 4 colours - red, blue, gold or green

**Packing and Marking**

To be marked "OXFAM code MWPL" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MWSK****Safety Knife****M****This is a non-stock item**

Gross weight: 0.2 kg  
 Volume: 0 m<sup>3</sup>  
 Dimensions: 25 x 15cm  
 Approximate unit cost: £4.80



Item	Qty	Description
1	1	Safety Knife, retractable blade and spare blades. Quantity 1-4 £4.80, quantity 5+ £3.95

**Packing and Marking**

To be marked "OXFAM code MWSK" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MWSL****Step Ladder****This is a non-stock item**

Gross weight: 4 kg  
 Volume: 0 m<sup>3</sup>  
 Dimensions: 740mm open height  
 Approximate unit cost: £48.00



Item	Qty	Description
1	1	Step Ladder, heavy duty for industrial use, available in 3, 6 or 8 step, £48, £63, £70

**User note**

Please state number of steps required when ordering

**Packing and Marking**

To be marked "OXFAM code MWSL" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MWTD****Tape Dispenser****M****This is a non-stock item**

Gross weight: 1 kg  
 Volume: 0 m<sup>3</sup>  
 Dimensions: x x cm  
 Approximate unit cost: £5.49



Item	Qty	Description
1	1	Tape Dispenser, for 2 inch tape, with built in cutting edge.

**Packing and Marking**

To be marked "OXFAM code MWTD" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MWTO****Torch****This is a non-stock item**

Gross weight: 2 kg  
 Volume: 0 m<sup>3</sup>  
 Dimensions: x x cm  
 Approximate unit cost: £10



Item	Qty	Description
1	1	Torch, water and shock resistant. Takes 3 x C-cell batteries

**Packing and Marking**

To be marked "OXFAM code MWTO" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**Code MWWC****Wire Cutter****This is a non-stock item**

Gross weight: 1 kg  
 Volume: 0 m<sup>3</sup>  
 Dimensions: x x cm  
 Approximate unit cost: £16.80



Item	Qty	Description
1	1	Wire Cutter, wire and cable cutter 11mm capacity

**Packing and Marking**

To be marked "OXFAM code MWWC" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics and Supply Team

**M**

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# Category N

## Nutrition Kits

Code NKIT1/5	Oxfam Nutrition Kit – Anthropometric	233
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Code NKIT1/5

Oxfam Nutrition Kit – Anthropometric

Gross weight: 26 kg  
 Volume: 0.219 m<sup>3</sup>  
 Dimensions: 46 × 136 × 35 cm  
 Approximate unit cost: £251.34



Item	Code	Qty	Description
1.	NK3	2	Backpacks – Nylon
2.	NK6	2	Board – Height/Length & Head Block
3.	NK7	4	Book – Exercise
4.	NK20	2	Calculator – solar and battery
5.	NK26	4	Clipboard - A4, Folding, spring clip
6.	NK29	1 roll	Cord 10 m × 6 mm, poly-propylene, endless fibres
7.	NK30	2	Counter – manual/hand held, metal
8.	NK31	4	Eraser
9.	NK33A	1	Notes on the revised Oxfam Nutrition Kits – English
10.	NK33B	1	Notes on the revised Oxfam Nutrition Kits – French
11.	NK34	1	Forms – survey
12.	NK39	2 pads	Paper – 4 colours of paper, 100 pages per pad, 90 × 90 mm
13.	NK40	1 pad	Paper – Graph, A4 in mm
14.	NK41	10	Pens – Bic ballpoint, black, medium
15.	NK42	4	Pen – large, indelible, black marker.
16.	NK44	12	Pencil – HB
17.	NK45	4	Pencil Sharpener – metal, single hole
18.	NK51	4	Ruler – 30 cm, transparent, flat, plastic, shatterproof
19.	NK53	2	Scales – 25 kg hanging scale, with bar, 3 pants and sling, 100 g graduation
20.	NK55	1	Scissors – 17 cm, blended
21.	NK63	4	Tables – Random Number A4, plasticised
22.	NK64	4	Tables – % Weight-for-height NCHS/CDC/WHO Sex combined, plasticised
23.	NK65	4	Tables – Weight-for-height Z-score NCHS/CDC/WHO Sex combined, plasticised
24.	NK66	2	Tape measure – Fibreglass

N

25.	NK67	50	Tapes – MUAC: Red (<11 cm), Orange (11–12.5 cm), White (12.5–13.5 cm), Green (>13.5 cm)
26.	NK68	2 rolls	Tape – metric adhesive
27.	NK77	10	Wallets – A4 transparent plastic, open on two sides

**Publications / Books**

28.	NK80	2	Food Scarcity and Famine – Oxfam Practical Guide No 7
29.	NK83	1	MSF Nutrition Guidelines – English
30.	NK84	1	MSF Nutrition Guidelines – French
31.	NK85A	1	Refugee Health Care – Oxfam Practical Guide No 9 – English
32.	NK85B	1	Refugee Health Care – Oxfam Practical Guide No 9 – French
33.	NK87	1	Oxfam's Approach to Nutrition Surveys in Emergencies

**User's Notes**

- The Anthropometric Kit contains equipment for measuring the weight and height of children to assess their nutritional status, and other materials needed for nutritional surveys.
- The measuring equipment can be used in surveys, nutritional screening of all children, and for monitoring the nutritional status of children in feeding programmes.
- The kit provides measuring and survey materials for two survey teams, or measuring equipment for two feeding centres.

**N****Packing and Marking**

All items to be packed in a sturdy triwall carton at the Oxfam Logistics Warehouse. Carton to be marked "OXFAM NUTRITION KIT – NKIT1/5" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list to be securely fixed to the outside of the carton.  
One packing list to be enclosed in the carton.

Specification date: 23 January 2003

Prepared by: Health and Specialist Support Team

## Category O Tools

Code OB1/2	Tool Box	237
Code OB2/2	Tool Box	238
Code OBP/1	Barrel Pump Kit	239
Code OE/4	Engineers Tool Kit	240
Code OM/4	Mechanics Tool Kit	243
Code OP2/1	Padlock for Sealing Sea freight Containers	246
Code OS/3	Site Tool Kit	247
Code OL/1	Ladder for Tank Erection	250
Code OT/2	Scaffolding Tower	251
<b><i>The items in italics are not Oxfam stock items</i></b>		
<i>The following kits are not commonly used, but the specifications have been prepared to facilitate the quick purchase and deployment of these items if required.</i>		
Code OPBM/1	<i>Breathing Masks</i>	<i>252</i>
Code OPCA/1	<i>Coverall</i>	<i>252</i>
Code OPED/1	<i>Ear Defenders</i>	<i>253</i>
Code OPGL/1	<i>Protective Gloves, Heavy Duty</i>	<i>253</i>
Code OPHH/1	<i>Hard Hat</i>	<i>254</i>
Code OPSB/1	<i>Safety Boots</i>	<i>254</i>
Code OPSG/1	<i>Safety Goggles</i>	<i>255</i>
Code OPSS/1	<i>Safety Spectacles</i>	<i>255</i>
Code OPVV/1	<i>Hi Visibility Vest</i>	<i>256</i>

Part numbers referred to in this section are from Draper Tools.

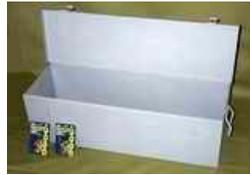




Code OB1/2

Tool Box

Gross weight: 28 kg  
 Volume: 0.168 m<sup>3</sup>  
 Dimensions: 98 × 38 × 45 cm  
 Approximate unit cost: £92.00



Item	Qty	Part no.	Description
------	-----	----------	-------------

- |    |   |       |   |
|----|---|-------|---|
| 1. | 1 |       | Heavy duty tool box 900 × 300 × 300mm, all steel construction with end lifting handles, full length hinged lid secured by two safety hasps and staples. Finished in blue hammerite-type stove enamel. |
| 2. | 2 | 14020 | Laminated steel warded spring padlock, with 1½" vertical shackle clearance, complete with two keys each. Size across box: 1½", Model 26, 1½"  |

#### Packing and Marking

Items to be packed in a sturdy plywood case, marked "OXFAM CODE OB1/2" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list to be securely fixed to the outside of the case.  
 One packing list to be enclosed in the case.

Specification date: 14 February 1997  
 Prepared by: Public Health Engineering Team



Code OB2/2

Tool Box

Gross weight: 38 kg  
 Volume: 0.2734 m<sup>3</sup>  
 Dimensions: 60 x 86 x 53 cm  
 Approximate unit cost: £96.43



Item	Qty	Part no.	Description
------	-----	----------	-------------

1.	1		Heavy duty tool box 700 x 450 x 400 mm deep, all steel construction with end lifting handles, full length hinged lid secured by two safety hasps and staples. Finished in blue hammerite-type stove enamel
2.	2	14020	Laminated steel warded spring padlock, with 1½" vertical shackle clearance, complete with two keys each. Size across box: 1½", Model 26, 1½"

#### Packing and Marking

Items to be packed in a sturdy plywood case, marked "OXFAM CODE OB2/2" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.



#### Packing List

One packing list to be securely fixed to the outside of the case.  
 One packing list to be enclosed in the case.

Specification date: 14 February 1997  
 Prepared by: Public Health Engineering Team

Code OBP/1

Barrel Pump Kit

Gross weight: kg  
 Volume: m<sup>3</sup>  
 Dimensions: x x cm  
 Approximate unit cost: £325

**Item Qty Description**

- |    |   |   |
|----|---|---|
| 1. | 1 | Hand operated rotary vane pump suitable for fuel transfer from 200 litre drums to vehicles or pumps. 40 litres per minute capacity. The pump is of robust construction and has both re-settable and cumulative meters for measuring fuel delivered. |
|----|---|---|

**Users Notes**

This hand-operated pump is suitable for transferring diesel fuel from barrels or larger tanks directly into vehicles or pumps.  
 The pump is fitted with a 3-meter hose and trigger nozzle to reduce spillage.  
 The pump features accurate re-settable and cumulative meters for measuring fuel delivered

**Local Purchasing Advice**

Suitable alternatives may be found in some regions/countries. The robustness of the pump, the accuracy and integrity of the fuel meters should be verified.

**Packing and Marking**

Items to be packed in a sturdy plywood case, marked "OXFAM CODE OBP/1" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list to be securely fixed to the outside of the case.  
 One packing list to be enclosed in the case.

Specification date: 4<sup>th</sup> May 2007  
 Prepared by: Public Health Engineering Team



Code OE/4

Engineers Tool Kit

Gross weight: 95 kg  
 Volume: 0.326 m<sup>3</sup>  
 Dimensions: 74 × 80 × 55 cm  
 Approximate unit cost: £821.45



Item	Qty	Part no.	Description
1.	1		Toolbox, 964 × 450 × 492 mm, heavy duty all-steel, with full length hinge and lifting handles, keyed-alike locking and stove enamel finish
2.	1	36013	4-tray cantilever toolbox, 430 × 200 × 200 mm, all steel
3.	1	14021	50 mm laminated steel double-locking padlocks
4.	1	13972	Measuring tape, 30 metre/100ft (graduated in cm/mm and 1/8")
5.	1	55814	Measuring tape, 5 metre/16ft (graduated in cm/mm and 1/16"), steel, chrome-plated case, with blade lock, power return and belt clip
6.	1	51281	Mason's club hammer, 2½ lb, with hickory handle
7.	1	13975	Claw hammer, 16 oz, chrome vanadium hardened and tempered head, hardened tubular steel shaft with shock absorbent vinyl grip
8.	1	64854	Wrecking bar, 24" × ¾"
9.	1	19564	General purpose saw, multi-position
10.	1		Spare blade for item 9
11.	1	69301	Hand saw, hardened and tempered carbon steel 550mm blade
12.	1	31131	Hacksaw frame, adjustable, tubular, for 300 mm blades, supplied with one 300 mm HSS blade
13.	10	19349	HSS hacksaw blades, 12" × ½" × 18 tpi, blade length 300 mm
14.	10	19350	HSS hacksaw blades, 12" × ½" × 24 tpi
15.	1	65646	Wire scratch brush, 4-row
16.	1	18974	41 piece metric and AF combined socket set, chrome vanadium steel, hardened and tempered chrome plated, packed in a blow-moulded plastic case, comprising: <ul style="list-style-type: none"> <li>• 22 Hi-torq 12 point metric sockets 8 – 32mm</li> <li>• 10 Hi-torq 12 point A/F sockets 7/16" – 1"</li> <li>• 3 Hi-torq spark plug sockets 10, 12 &amp; 14mm</li> <li>• reversible ratchet with quick release action</li> <li>• 3 extension bars 75, 125 and 250mm</li> <li>• sliding tee bar</li> <li>• universal joint</li> </ul>



17.	1	11879	Square drive bi-hex socket, 17 mm x ½"
18.	1	13255	Speed brace, ½", square drive, length 400 mm
19.	1	52682	Adjustable spanner, 300mm, chrome vanadium hardened and tempered steel with black phosphate finish, with graduated scale to fixed jaw
20.	1	52680	Adjustable spanner, 200mm, chrome vanadium steel hardened and tempered steel with black phosphate finish, with graduated scale to fixed jaw
21.	1	78917	Adjustable pipe wrench, length 300 mm, capacity 45 mm, forged hardened and tempered handle, with induction hardened jaws
22.	2		Strap wrench, 200 mm capacity, Gedore or Elora brand, with stitched and riveted strap
23.	1	35369	Self-grip pliers, curved jaw, hardened and tempered steel 220mm
24.	1	68885	Combination pliers, 200mm, heavy duty drop forged chrome vanadium steel and induction hardened cutting edges, with soft grip handles
25.	1	52031	Flat cold chisel, length 300 mm, blade width 25 mm
26.	1	52015	Flat cold chisel, 9" x 1"
27.	1	11174	Bolster chisel, 3" wide, with moulded handguard
28.	1		Ratchet bit and brace, 255 mm sweep, Stanley
29.	1	79540	Wood bit set, high carbon steel flat blades, sizes 13, 16, 19, 25 and 32mm, for use with bit and brace or power drill
30.	1	79365	HSS drills, set of 10 titanium tipped HSS twist drills sizes 1.5 – 10 mm
31.	1	14127	Hexagon key set, 10 pieces 1.5 – 10.0mm,
32.	1	14128	Hexagon key set, 10 pieces 1/16"-3/4" AF
33.	1	11529	Retractable trimming knife, complete with 5 blades
34.	5	13499	Spare blades for above
35.	1	13847	Multiras plane, diecast body with plastic handle, blade length 255 mm, with replaceable high carbon steel blade
36.	1	13851	Spare blade for above
37.	1	75327	Set of 4 second-cut files, 200mm, soft handles, consisting of flat, half-round, round and three-square profiles
38.	1	78919	Adjustable pipe wrench, length 450 mm, drop hardened and tempered handle, induction hardened jaws, capacity 65 mm
39.	1	18050	Safety goggles, CE approved to EN166B specification. Soft, lightweight frame, incorporating direct ventilation, soft face flange and spectacle recess, with one-piece polycarbonate lens.
40.	5		Riggers gloves, red leather
41.	1	52122/ 52164	Pair of steel line pins, drop-forged, 150 mm, with polypropylene brick line, 18 m (approx.)
42.	1	69541	Box section aluminium spirit level, 24" with three vials
43.	1	65603	Heavy-duty rubber torch, 200 mm long, heavy-duty impact and water-resistant rubber case, with carrying strap, bulb and holder. Uses 2 x D cell batteries.
44.	2	62042	D cell batteries, packet of 2



45.	3	11912/ 11910/ 11914	Rolls of insulating tape: one each of red, black and green
46.	1		Pipe cutter, 2" capacity, for steel tube, Rothenberger 7.0045
47.	1	69184	Waterpump pliers, 250mm, fully insulated, drop forged hardened and tempered chrome vanadium steel
48.	1	29547	Combination spanners, set of 14, 8–32 mm, forged hardened and tempered chrome vanadium steel
49.	1	PTK992	Combined ratchet pipe threader, ½"–2" BSPT, Sealey
50.	1		Thread cutting oil, ½ litre
51.	1	78993	Digital multimeter, transistor HFE test facility, illuminated display, DC voltage 200 mV, 2000 mV, 20 V, 200 V, 600 V (accuracy of ±1% max. @ 600 V), AC voltage (accuracy of ±1.2% max. @ 600 V)
52.	1		Chain pipe vice, ¼" to 4" capacity, with mounting bolts, Irwin Record manufacture
53.	1	58537	7-piece VDE approved insulated screwdriver set suitable for working on live circuits, and a mains tester. 4 plain slot sizes, 2.5 x 75, 4 x 100, 5.5 x 125 and 6.5 x 150mm. 2 PZ (Pozidriv) type, No 1 and 2. Mains tester

#### Packing and Marking

Items to be packed in a sturdy plywood case, marked "OXFAM CODE OE/4" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.



#### Packing List

One packing list to be securely fixed to the outside of the case.  
One packing list to be enclosed in the case.

Specification date: 26<sup>th</sup> April 2007  
Prepared by: Public Heath Engineering Team

Code OM/4

Mechanics Tool Kit

Gross weight: 96 kg  
 Volume: 0.227 m<sup>3</sup>  
 Dimensions: 103 x 38 x 58 cm  
 Approximate unit cost: £540.97



Item	Qty	Part no.	Description
1.	1	18974	42 piece ½" square drive socket set, hardened and tempered chrome vanadium. 22 metric, 10 AF high-torq sockets, 3 spark plug sockets, extension bars, ratchet, universal joint and sliding T bar
2.	1	29613	9 piece screwdriver set, hardened and tempered chrome vanadium steel blades, 3 plain slot sizes, 3 cross slot sizes and 3 Pozidriv sizes.
3.	1	19506	Cross slot screwdriver, 8mm tip, blade length 150 mm
4.	1	19501	Plain slot screwdriver, 9.5 mm tip, blade length 200 mm
5.	1	12579	Spark plug testing screwdriver, range 6–24 V DC
6.	1	10094	Set of 18 feeler gauges – metric 100 mm long
7.	1	74308	Tyre pressure gauge (pocket type)
8.	1	14128	Set of 8 hexagon keys, 1/16" to 3/4" AF
9.	1	14127	Set of 10 hexagon keys on a ring, 1.5 to 10 mm
10.	1	64589	¾ lb ball pein hammer
11.	1	13039	12-piece chisel and punch set
12.	1	69184	250 mm box joint fully insulated water pump pliers
13.	1	65646	4 row wire scratch brush
14.	1	75327	Set of 4 second cut engineers' files and rasps, 200mm, soft grip handles
15.	1	69292 / 72426	Junior hacksaw complete with 10 spare bi-metal blades
16.	1	52682	300 mm adjustable spanner, with 38mm jaw opening, hardened and tempered chrome vanadium steel with graduated scale to fixed jaw
17.	1	77584	100mm oil filter wrench, chain type
18.	1	51875	Booster cables 3 metres x 25mm cross section, heavy duty
19.	1		Toolbox, 964 x 450 x 492 mm, heavy duty all-steel, with full length hinge and lifting handles, keyed-alike locking and stove enamel finish
20.	2	14020	40 mm laminated steel padlock complete with 2 keys
21.	1	29547	14 piece metric combination wrench set: containing 8, 9, 10, 11, 12, 13, 14, 17, 19, 22, 24, 27, 30, 32 mm



Item	Qty	Part no.	Description
22.	1	29546	11 piece AF combination wrench set: containing ¼, 5/16, 3/8, 7/16, 5/8, 11/16, ¾, 13/16 and 7/8". Manufactured to ISO3318 and ISO1085.
23.	1	38999	4 piece circlip plier set, range 19–60 mm, two bent, two straight
24.	1	52680	200 mm adjustable spanner with 29mm jaw opening, hardened and tempered chrome vanadium steel with graduated scale to fixed jaw
25.	1	31131	10"–12" adjustable hacksaw, complete with 300 mm HSS blade
26.	1	19348	300 mm bi-metal 24tpi hacksaw blades, pack of 10
27.	1	13975	16 oz claw hammer, hardened and tempered chrome vanadium steel head, tubular steel shaft with shock-absorbing vinyl grip
28.	1	11529	Retractable knife complete with five blades
29.	1	13499	Set of five blades for item 29
30.	1	52394	200 cc lever action grease gun
31.	2	37814	Pair of large poly cotton workshop overalls
32.	2	37813	Pair of medium poly cotton workshop overalls
33.	1	13914	Ball joint separator, forged carbon steel. Jaw opening 19 mm, maximum opening capacity 38mm
34.	2	18050	Anti-mist safety goggles
35.	5		Pairs of heavy duty leather rigger gloves
36.	1	87066	240 volt inspection lamp, twin 11W fluorescent bulbs, 5m cable and 3-pin plug.
37.	3	26539	600mm heavy duty tyre levers
38.	1		Tube patch kit comprising 100 assorted rubber patches, buffing solution, vulcanising agent, rasp and stitcher (Tip Top 5079706 or equivalent)
39.	1	87392	Stirrup type hand air pump. Heavy duty stainless steel barrel, 45 mm diameter, 900 mm long hose with connectors suitable for Presta and Schrader valves used on most cars, vans, motorcycles and bicycles. Dial-type pressure gauge marked 0–160 psi and 0–11 bar.
40.	1	21716	125 cc force feed metal oil can
41.	2	76770	Nut, bolt, washer assortment
42.	1		Record No.3 bench vice, 4" jaw width, complete with mounting bolts and nuts
43.	1	51299	4 lb lump hammer
44.	1	31967	Flare nut wrench, 10 x 11 mm for diesel injection pipes and brake hoses
45.	1	14040	3-piece set of curved jaw, quick release type self-grip pliers, hardened and tempered carbon steel, 140, 190 and 220 mm
46.	2	50002	Terminal assortment pack: 50 (approx.) assorted terminals for making solderless electrical connections. All terminals are colour-coded. Contents: 10 of V2, 6 of V125, 4 each of MF125-7A, MF2-7A, V5.5, F2BS and F5.5B, 2 each of BF1.25, BG2, BF5.5, F1.25A, F5.5B, F1.25B and F2B
47.	1	13657	4-way electrical crimping tool, length 215 mm, heavy gauge hardened carbon steel.



Item	Qty	Part no.	Description
48.	1	69289	3-piece heavy duty soft grip pliers set, containing: 180 mm combination pliers, 180mm long nose pliers, 160mm diagonal side cutters

#### Packing and Marking

Items to be packed in a sturdy plywood case, marked "OXFAM CODE OM/4" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list to be securely fixed to the outside of the case.  
One packing list to be enclosed in the case.

Specification date: 30<sup>th</sup> April 2007  
Prepared by: Public Heath Engineering Team



**Code OP2/1 Padlock for Sealing Sea freight Containers**

Gross weight: 0.3 kg  
Volume: 0.000 m<sup>3</sup>  
Dimensions: 2 x 1 x 1 cm  
Approximate unit cost: £19.56

**Item Qty Part no. Description**

1. 1 64209 Close coupled stainless steel padlock complete with three keys

Specification date: 14 February 1997  
Prepared by: Public Heath Engineering Team



Code OS/3

Site Tool Kit

Gross weight: 78 kg  
 Volume: 0.181 m<sup>3</sup>  
 Dimensions: 45 x 103 x 39 cm  
 Approximate unit cost: £555.63



Item	Qty	Part no.	Description
1.	1		Toolbox, 964 x 450 x 492 mm, heavy duty all-steel, with full length hinge and lifting handles, keyed-alike locking and stove enamel finish
2.	1	36013	480 x 200 x 200 all steel 4-tray cantilever tool box
3.	2	14020	40 mm laminated steel double locking padlocks with two keys
4.	4	13255	Speed brace, ½" square drive, length 400 mm
5.	4	11879	17 mm x ½" square drive bi-hex socket
6.	2	54297	Combination spanner, 24 mm
7.	2	54290	Combination spanner, 17 mm
8.	1	29547	Combination spanners, metric set of 14 pieces, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22, 24, 27, 30 and 32mm.
9.	1	52680	Adjustable spanner, 200mm, hardened and tempered chrome vanadium steel, with graduated scale to fixed jaw
10.	1	78917	Stillson adjustable pipe wrench, 300mm with 45mm jaw, drop forged hardened and tempered handle with induction hardened jaws
11.	1	78919	Stillson adjustable pipe wrench, 450mm with 65mm jaw, drop forged hardened and tempered handle with induction hardened jaws
12.	2	78922	Stillson adjustable pipe wrench, 900mm with 100mm jaw, drop forged hardened and tempered handle with induction hardened jaws
13.	4		Strap wrench, 200 mm capacity, Gedore or Elora brand, with stitched and riveted strap
14.	2	30235	Square blade screwdriver, tip 9.0 mm, blade length 250 mm, square 8.0 mm
15.	2	30227	Square blade screwdriver, tip 9.0 mm, blade length 200 mm, square 8.0 mm
16.	1	30219	Square blade screwdriver, tip 9.0 mm, blade length 150 mm, square 8.0 mm
17.	1	75327	Set of 4 second-cut files, 200mm, soft handles, consisting of flat, half-round, round and three-square profiles
18.	1	13847	Multirasp plane, blade length 255 mm, with replacement high carbon steel blade
19.	2	13851	Spare blade for item 18
20.	1	14128	Allen keys, set of 10, 1/16"-3/8" AF, in plastic storage holder



Item	Qty	Part no.	Description
21.	1	14127	Allen keys, set of 9, 1.5–10 mm, in plastic storage holder
22.	1	10094	18-blade combination feeler gauge, with 8 metric and 10 imperial 75 mm long blades, hardened and polished or long life
23.	1	21716	125 cc force-feed metal oil can
24.	1	31131	Hacksaw frame, adjustable tubular, 10"–12", for 300 mm blades, supplied with a single 300 mm HSS blade
25.	10	19350	HSS hacksaw blades, 12" x ½" x 24 tpi, blade length 300 mm
26.	1	69292	Junior hacksaw
27.	1	69305	Pack of 10 Spare blades for junior hacksaw
28.	2	11529	Retractable blade trimming knife, complete with five blades
29.	2	55814	Measuring tape, 5 m/16ft (graduations of cm/mm and 1/16"), steel, with blade lock power return and belt clip
30.	1	69541	Box section spirit level, 600mm, aluminium, with three vials
31.	2	69562	Line level
32.	2	521225	Pair of line pins, steel, 150 mm, drop forged, with polypropylene brick line, 18 metres (approx.)
33.	1	20610	Pair of side bent scissors, 175 mm
34.	6		Red leather rigger gloves
35.	2	62887	Permanent black marker PEN
36.	3	13975	Claw hammer, 450g, hardened and tempered chrome vanadium steel head and shock absorbing vinyl handle
37.	2	69301	Handsaw, 550mm, hardened and tempered high carbon steel blade and cushioned handle.
38.	1 kg		Round nails with heads, zinc plated, size 2.65 x 50 mm
39.	1 kg		Round nails with heads, zinc plated, size 4.50 x 100 mm
40.	½ kg		Hank of plumbers hemp
41.	20	63389	PTFE tape, ½" x 12m
42.	1		400 g tin of white clean semi-setting non-poisonous pipe jointing compound
43.	2		3" hose coupling key spanner
44.	1	68885	Combination pliers, 200mm, drop forged hardened and tempered chrome vanadium steel with induction hardened jaws, soft grip handles
45.	1	68891	Diagonal side cutters, 160mm drop forged hardened and tempered chrome vanadium steel with induction hardened cutting edges
46.	1	69184	Box joint water pump pliers, 250mm with 38mm capacity jaw, drop forged hardened and tempered chrome vanadium steel, hardened fully insulated
47.	2	65646	Wire scratch brush, 4-row
48.	1	52681	Adjustable spanner, 250mm, chrome vanadium steel hardened and tempered steel with black phosphate finish, with graduated scale to fixed jaw
49.	2	13415	Long setting punch, 8"



**Item Qty Part no. Description**

50.	1	58537	7-piece VDE approved insulated screwdriver set suitable for working on live circuits, and a mains tester. 4 plain slot sizes, 2.5 x 75, 4 x 100, 5.5 x 125 and 6.5 x 150mm. 2 PZ (Pozidriv) type, No 1 and 2. Mains tester
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**Packing and Marking**

Items to be packed in a sturdy plywood case, marked "OXFAM CODE OS/3" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list to be securely fixed to the outside of the case.  
One packing list to be enclosed in the case.

Specification date: 27 April 2007  
Prepared by: Public Health Engineering Team



Code OL/1

Ladder for Tank Erection

Gross weight: 10 kg  
Volume: 0.189 m<sup>3</sup>  
Dimensions: 250 x 42 x 18 cm  
Approximate unit cost: £62.00



Item	Qty	Description
1.	1 set	Aluminium ladder, double extension push-up type for general use, closed length approximately 2.4 m, extended length approximately 4.2 m, to conform to BS2037 Class 2

#### Packing and Marking

The two ladders sections are to be tied together and marked "OXFAM CODE OL/1".

Specification date: 7 August 1995  
Prepared by: Public Heath Engineering Team



## Code OT/2

## Scaffolding Tower

Gross weight: 95 kg  
 Volume: 0.9 m<sup>3</sup>  
 Dimensions: 50 x 240 x 75 cm  
 Approximate unit cost: £826.98



Item	Qty	Description
1.	4	Rung Single Width Span Frame
2.	4	Rung Single Width Ladder Frame
3.	1	Hatch Deck
4.	6	2.5m Horizontal Brace
5.	5	2.7m Diagonal Brace
6.	2	2.5m Toeboard length
7.	2	0.85m End toeboard
8.	4	Standard Stabiliser Unit
9.	4	Base plates
10.	4	Adjustable legs

## Packing and Marking

Items to be securely packed in a bundle, marked "OXFAM CODE OT/2", with a packing list and installation instructions enclosed.

To be packed at the Oxfam Logistics Warehouse in a plywood case of dimensions 2200 x 650 x 320 mm with two 'gate' hinges, hasp and staple closures, and four 75 x 100 mm runners for the forklift. The case is to be suitable for repacking the tower system, for storage, after use in the field.

Case to be marked "OXFAM CODE OT/2" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list to be securely fixed to the outside of the case.  
 One packing list and installation instructions to be enclosed in the case.

Specification date: 17<sup>th</sup> March 2005  
 Prepared by: Public Heath Engineering Team



**Code OPBM/1****Breathing Masks****This is a non-stock item**

Gross weight:  
 Volume:  
 Dimensions:  
 Approximate unit cost: £11.00 (box of 50)

**Item Qty Description**

1. 1 Breathing masks, elastic straps disposable comfort.

To be marked "OXFAM code OPBM" with weights and dimensions clearly shown.

Specification date: 3rd April 2007  
 Prepared by: Logistics Team

**Code OPCA/1****Coverall****This is a non-stock item**

Gross weight:  
 Volume:  
 Dimensions:  
 Approximate unit cost: £10

**Item Qty Description**

1. 1 Coverall, royal blue, stud front fastening, easy to wash, chest sizes 40-41, 42-44, 46-48, 50-52 inches

**Packing**

To be marked "OXFAM code OPCA" with weights and dimensions clearly shown.

**User notes**

Please state chest size when ordering.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics Team

**Code OPED/1****Ear Defenders****This is a non-stock item**

Gross weight:  
 Volume:  
 Dimensions:  
 Approximate unit cost: £6

**Item Qty Description**

1. 1 Ear defenders, adjustable headband, soft padded cushion, suitable to be worn under hard hat,

**Packing**

To be marked "OXFAM code OPED" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics Team

**Code OPGL/1****Protective Gloves, Heavy Duty****This is a non-stock item**

Gross weight:  
 Volume:  
 Dimensions:  
 Approximate unit cost: £11.02 (pack 10 pairs)

**Item Qty Description**

1. 1 Protective heavy duty gloves, for general handling use, one size fits all, 10 pairs per pack.

**Packing**

To be marked "OXFAM code OPGL" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007  
 Prepared by: Logistics Team

**Code OPHH/1****Hard Hat****This is a non-stock item**

Gross weight:

Volume:

Dimensions:

Approximate unit cost: £3.80

cost:

**Item Qty Description**

- |    |   |   |
|----|---|---|
| 1. | 1 | Hard hat, fitted with a 4 point plastic harness with sweatband, adjustable head strap |
|----|---|---|

**Packing**

To be marked "OXFAM code OPHH" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007

Prepared by: Logistics Team

**Code OPSB/1****Safety Boots****This is a non-stock item**

Gross weight:

0.3 kg

Volume:

0.000 m<sup>3</sup>

Dimensions:

2 x 1 x 1 cm

Approximate unit cost:

£15

cost:

**Item Qty Description**

- |    |   |  |
|----|---|--|
| 1. | 1 | Safety boots, black, steel toe-cap protection, deep padded ankle collar. |
|----|---|--|

**Packing**

To be marked "OXFAN code OPSB" with weight and dimensions clearly shown

**User notes**

Please state size when ordering

Specification date: 3<sup>rd</sup> April 2007

Prepared by: Logistics Team

**Code OPSG/1****Safety Goggles*****This is a non-stock item***

Gross weight:

Volume:

Dimensions:

Approximate unit cost: £4.05 (min order 5)

cost:

**Item Qty Description**

- |    |   |   |
|----|---|---|
| 1. | 1 | Safety goggles, 4 indirect vents helps ventilation Adjustable elastic strap |
|----|---|---|

**Packing**

To be marked "OXFAM code OPSG" with weight and dimensions clearly shown

Specification date: 3<sup>rd</sup> April 2007

Prepared by: Logistics Team

**Code OPSS/1****Safety Spectacles*****This is a non-stock item***

Gross weight:

Volume:

Dimensions:

Approximate unit cost: £2.50

cost:

**Item Qty Description**

- |    |   |  |
|----|---|--|
| 1. | 1 | Safety spectacles, tough polycarbonate with moulded in-side-shields, can be worn over normal spectacles. |
|----|---|--|

**Packing**

To be marked "OXFAM OPSS" with weight and dimensions clearly shown.

Specification date: 3<sup>rd</sup> April 2007

Prepared by: Logistics Team

**Code** OPVV/1**Hi Visibility Vest****This is a non-stock item**

Gross weight:

Volume:

Dimensions:

Approximate unit cost: £5

cost:

**Item Qty Description**

- | Item | Qty | Description  |
|------|-----|--|
| 1.   | 1   | Hi visibility vest, breathable 100% polyester, reflective tape enhances visibility. M,L,XL, £15.95, XXL £16.95 |

**Packing**

To be marked "OXFAM code OPVV" with weight and dimensions clearly shown

**User notes**

Please state size required when ordering

Specification date: 3<sup>rd</sup> April 2007

Prepared by: Logistics Team



## Category P

### Pumping

Code PR2-ALBS/3	2" Pumpsets Kestrel 101/Briggs & Stratton, Petrol, Lightweight Pumpset Kit	259
Code P2-ALLO/3	2" Atalanta Swallow S50 Lombardini 15LD315 Diesel Pump Set with Hose	261
Code PSK2 ALLO/1	Atalanta Swallow Engine and Pump Service Kit	265
Code PES2-ALLO/2	Atalanta Swallow Engine and Pump Major Overhaul Kit	267
Code P4-ALLO/3	4" Atalanta Osprey 452 Lombardini 9D625-2, Diesel Pumpset with Hose	270
Code PSK4-ALLO/1	Atalanta Osprey Engine and Pump Service Kit	274
Code PES4-ALLO/1	Atalanta Osprey Engine and Pump Major Overhaul Kit	276
Code P4H-ALLO/2	4" x 3" Atalanta Condor 1005 Lombardini 11LD626-3 Diesel Pump Set with Hose	279
Code PSK4H-ALLO/1	Atalanta Condor Engine and Pump Service Kit	283
Code PES4H- ALLO/1	Atalanta Pump Service Kit	285
Code PF/1	Pump Fittings Kit	288
Code PO/2	Pump Oil Kit	290





**Code PR2-ALBS/3    2" Pumpsets Kestrel 101/Briggs & Stratton,  
Petrol, Lightweight Pumpset Kit**

Gross weight:            52 kg  
 Volume:                 0.249 m<sup>3</sup>  
 Dimensions:            80 x 51 x 61 cm  
 Approximate unit      £436.90  
 cost:

1 x KESTREL 101 – 2" Self-priming pump of thermoplastic construction fitted with long life carbide/carbon mechanical seal and BSP male steel outlet and inlet sockets, flanged coupled to a Briggs & Stratton 0854324 HP 'Vanguard' OHV petrol engine, complete with low oil protection, mounted inside a tubular steel roll over frame with anti-vibration mounts.

The pump is supplied with:

Item	Qty	Description
1.	1	6 m length of 50 mm lightweight vinyl suction hose
2.	1	15 m length of 50 mm layflat delivery hose
3.	1	2" BSP female high impact polypropylene hose coupling with a 90° bend
4.	1	2" BSP female high impact polypropylene hose coupling, straight
5.	1	50 mm push-on thermoplastic filter/footvalve
6.	3	2" hose clips
7.	1	Briggs and Stratton Operations manual
8.	1	Tool kit, comprising: spark plug spanner, screwdriver and oil drain plug spanner
9.	5	0.6 litre containers of start-up engine oil (each container allowing 1 complete refill)
10.	1	Empty 5 litre plastic petrol can
11.	1 set	Spares for 500 hours operation comprising: <ul style="list-style-type: none"> <li>• 1 spark plug, 1 air filter element, 1 air filter cartridge, 1 right angle female coupling, 1 straight female coupling, 2 x 2" BSPT/NPT barrel nipples, 3 x 2" hose clips</li> </ul>
12.	1	Oxfam Instruction Manual for the Water Pumping Pack (Oxfam code PPM)



#### User's Notes

This lightweight pump is intended for use in first phase situations, or where water facilities are set up and dismantled rapidly, e.g. transit camps. Its durability will not be as good as the heavy-duty diesel-engined pumps that Oxfam traditionally uses, and so its service life will be shorter.

#### Packing and Marking

Items to be packed in a 6 mm reusable plywood case, complete with lifting ropes. Case to be marked "OXFAM CODE PR2-ALBS/3" with gross weight and dimensions clearly

shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the case.

One packing list, including Oxfam User's Notes, to be enclosed in the case in a grip-seal plastic bag.

Specification date: 21 July 1998

Prepared by: Public Health Engineering Team



**Code P2-ALLO/3 2" Atalanta Swallow S50 Lombardini 15LD315 Diesel Pump Set with Hose**

Gross weight: 310 kg  
 Volume: 1.662 m<sup>3</sup>  
 Dimensions: 86 x 139 x 139 cm  
 Approximate unit cost: £2753



**Item Qty Description**

**Pump/Engine Set, Comprising:**

1. 1 Atalanta Swallow S50 2" x 2" single stage centrifugal self priming pump. Construction is all cast iron with 2 stage mechanical carbon/ceramic seal, stainless steel shaft sleeve, renewable steel wear plate, semi open clog resistant impeller, integral non-return valve, detachable discharge bend, casing clean out cover, prime and drain points and 2" BSP male suction and discharge connections. Pump is driven by a Lombardini 15LD315 single cylinder air – cooled diesel engine with recoil start, renewable element air, oil and fuel filters, 4.3 litre (4 hr.) fuel tank, automatic low oil shut down, throttle control, oil drain tap and exhaust silencer. Pump and engine are close coupled together and mounted on a common fabricated steel baseplate. Drilled for 4 x M10 holding down bolts. Pump set identification plate secured to baseplate with Oxfam Code 'P2 – ALLO/3' stamped on it.

**Connection Accessories, Comprising:**

2. 1 set SUCTION
- | Qty | Description  |
|-----|--|
| 1   | Length 30 m x3" hose – reinforced PVC flexible medium duty (Green low toxic) |
| 1   | 70 mm Foot valve SOCLA 2541 with 74mm hose tail (fitted to above)            |
| 1   | 3" hose band (fitted to above)   |
| 1   | 3" BSP (F) Hose Coupling MI (fitted to above)                                |
| 1   | 3" Hose clamp (fitted to above)  |
| 1   | 3" hose band (fitted to above)   |
| 1   | 3" (M) to 2" (F) BSP Reducer GS  |
| 10  | 3" Hose coupling washers   |
- DISCHARGE
- | Qty | Description |
|-----|-------------|
|-----|-------------|



Item	Qty	Description
		1 2" BSP (F) Gate Valve – brass
		1 3" (M) to 2" (M) BSP Nipple GS
		1 length 3 m x 3" hose - Transparent PVC Medium Duty (5 bar)
		2 3" BSP (F) Hose Couplings MI (fitted to both ends of above)
		2 3" Hose clamp (fitted to above)
		5 3" BSP Hex Nipple GS
		3 3" BSP (F) 90 Degree Bend GS
		2 3" BSP (F) Hose Coupling MI
		2 3" Hose clamp
		10 3" Hose Coupling Washers
		3 10 m Roll PTFE Tape (12mm wide)
3.	1 set	MOUNTING BOLTS
		<b>Qty Description</b>
		4 M10 x 100 mm rag bolts washers and nuts
		4 3/8" x 3" coach screws and washers
4.	1 set	PUMP SPARES FOR 1 YEAR OPERATION, COMPRISING:
		<b>Qty Part Number Description</b>
		1 41-3- Mechanical seal
		1 41-3- Gasket set
5.	1 set	ENGINE CONSUMABLE SPARE FOR 1 YEAR OPERATION, COMPRISING:
		<b>Qty Part Number Description</b>
		8 2175222 Air Filter Element
		8 2175155 Oil Filter Element
		8 1200234 'O' Ring for Oil Filter
		8 3730096 Fuel Filter Element
		2 8205105 Gasket set
6.	1	5 litre container of engine oil – 15w/40 multi-grade complying to specification API SJ/CF for diesel engines or MIL-L-46152 D/E. (Non-hazardous for air/sea freight)
7.	1.set	DOCUMENTATION
		1 Lombardini 15LD standard user manual and parts list
		1 PumpSets 'Atalanta' Swallow operating and maintenance manual
		1 Oxfam Instruction Manual for Water Pumping Equipment– Oxfam Code PPM
		Packing list with Oxfam Users' Notes (One in a 'document enclosed' envelope on outside of case)



## User's Notes

- The 5 litres of oil supplied in this kit should be used for running in the engine and discarded after 100 running hours and replaced with SAE 15W/40 lubricating oil (or equivalent) as in the Oxfam Kit PO.
  - This Pumpset Kit is part of the Pump Pack and is designed for use in conjunction with the Pump Fittings Kit (code PF) and the Pump Oil Kit (code PO). If required, these must be ordered separately.
  - For optimum performance, the pump design is based on using 2" suction/delivery pipework, although for simplicity 3" pipework is provided which is the size more commonly used in other Oxfam water equipment.
  - This kit contains all necessary fittings and pipework to assemble a complete pumping station. A 30 m length of 3" green hose and foot valve are supplied for the suction. In order to maximise pump efficiency the length of suction hose should be kept as short as practical, normally this should be no more than 10 m. A short length of 3" transparent hose is supplied with a gate valve, a non-return valve, and a number of 90 degrees elbows for connection into a 3" pumping main. The pressure rating of the 3" green hose is less than 2 bar, so it should not be used for pump delivery.
  - The standard range of fittings included is also sufficient for most uses illustrated in the Pump Pack Manual. The Pump Fittings Kit (code PF), when combined with this kit allows additional connections (uses) to be made. Refer to the specification on PF for details. It may not be necessary to order PF. Do not order PF automatically.
  - A 2" gate valve is included to allow optional throttling at outlet. It can also act as an isolation valve. Pumping against a fully closed valve must be avoided. The valve must always be open during priming.
  - The major repair kits for the pump and engine are no longer included. Therefore, if required, the following may be ordered:
  - Atalanta Swallow Engine and Pump Major Overhaul Kit, Oxfam code PES2-ALLO/1
  - Experience has shown that it is unnecessary to order a Major Repair or Overhaul Kit for every pumpset supplied.
  - On sites where a number of pumps are to be deployed, it is suggested that initially one Overhaul Kit be ordered for every five or more pumps supplied. Ultimately, the appropriate quantity of overhaul or specific spares to be ordered must be judged against the actual need and the site conditions such as competence of mechanics, workshop facilities, maintenance and repair practices, duration of project, etc.
- This kit includes sets of consumables and essential spares for minimum one year operation and maintenance of both the engine and the pump, based on operation in fairly unfavourable/dusty site conditions with minimal maintenance support/service. This period can be extended if site conditions are more favourable.



## Local Purchasing Advice

It may be possible to purchase suitable alternative pumps in the regions. However the following should be considered:

- Quality/durability of equipment, reliability
- Performance characteristics
- Full specification of kit – ensure comparisons are like-for-like
- Compatibility with other equipment including from other agencies
- Spare parts availability

**Packing and Marking**

All the above packed in one timber crate suitable for sea/air freight, lined with Kraft Union paper. Base timbers have minimum of 4" fork lift runners suitable for offloading by jack/poles etc. Pump set is secured to the floor of this case using steel spreaders with bolts push up, welded to the spreaders to prevent turning. Bolts are fitted with 'Nylock' type nuts. Case is to be finished with a minimum of 2 steel bands.

Pump serial number and Oxfam purchase order number to be clearly marked on case.

**Marking**

Crate outer to be marked **Oxfam Code P2-ALLO/3** with overall dimensions in CMS and gross weight in KG clearly shown. Marks to be both on the front and back determined by the fork lift runners. **Oxfam** logo to be painted black on all sides as per stencil supplied.

Specification date: 27 February 2007  
Prepared by: Public Health Engineering Team



Code PSK2 ALLO/1

Atalanta Swallow Engine and Pump  
Service Kit

Gross weight: 8kg  
 Volume: 0.07m<sup>3</sup>  
 Dimensions: 60x 51x 24cm  
 Approximate unit cost: £398

Item	Qty	Part No	Description
1.	1	41 - 3 - 613	Impeller
2.	1	41 - 3 - 452	Gasket group
3.	1	41 - 3 - 451	Seal group
4.	1	41 - 3 - 664	Pump operating and maintenance manual
5.	1	2175176	Air filter element
6.	1	4350007	Sump plug washer
7.	1	2175155	Oil filter element
8.	1	1200234	O' Ring Oil filter
9.	1	3730096	Fuel filter element
10.	1	4400058	Rocker cover gasket
11.	1	4670059	Injector washer
12.	2	4670001	Leak-Off pipe washer
13.	1	8205105	Gasket set
14.	1	1213361	F/W End oil seal
15.	1	1213345	Gear end oil seal
16.	1	5302467	Workshop manual

## User's Notes

- This kit is intended for the routine operational servicing of the Lombardini 15LD315 engine and 2" Atalanta Swallow S50 pump as part of the code P2-ALLO/3 pumpset kit.
- If a single P2-ALLO pump is ordered it is recommended that one PSK2-ALLO/1 Service Kit is ordered, but if several pumps are ordered it may not be necessary to order a kit per pump. On sites where a number of pumps are to be deployed, it is suggested that initially one kit be ordered for every 2 pumps supplied, to prevent overstocking. Ultimately, the appropriate number of Service Kits, Major Overhaul kits (PES2-ALLO) or specific spares to be ordered has to be judged against the actual need and the site conditions such as competence of mechanics, workshop facilities, maintenance and repair practices, duration of project, etc.



**Packing and Marking**

Items to be packed in a plywood box with 2 metal bands, to be marked "OXFAM CODE PSK2-ALLO/1 with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the carton.  
One packing list, including Oxfam User's Notes, to be enclosed in the carton.

Specification date: 26<sup>th</sup> September 2005

Prepared by: Public Health Engineering Team



Code PES2-ALLO/2

Atalanta Swallow Engine and Pump  
Major Overhaul Kit

Gross weight: 45kg  
 Volume: 0.25m<sup>3</sup>  
 Dimensions: 60x 51x 82cm  
 Approximate unit cost: £2979

Item	Qty	Part No	Description
1.	2	41 - 3 - 613	Impeller
2.	2	41 - 3 - 414	Wear plate
3.	5	41 - 3 - 608	Gasket set
4.	5	41 - 3 - 602	Mechanical seal
5.	50	2175222	Air filter element
6.	20	4350007	Sump plug washer
7.	20	2175155	Oil filter element
8.	20	1200234	O' Ring Oil filter
9.	20	3730096	Fuel filter element
10.	10	4400058	Rocker cover gasket
11.	10	4670059	Injector washer
12.	20	4670001	Leak-Off pipe washer
13.	5	8205105	Gasket set
14.	5	1213361	F/W End oil seal
15.	5	1213345	Gear end oil seal
16.	1	1400232	Dipstick
17.	2	1472033	Recoil start assembly
18.	1	1526155	Connecting rod
19.	1	1611185	Main bearing
20.	1	2750398	Air filter cover
21.	1	3002058	Roller bearing
22.	10	3430114	Cap
23.	10	4535015	Stem seal
24.	1	4545218	Valve guide
25.	1	4845219	Valve guide
26.	1	5010040	Injector
27.	1	5460496	Exhaust muffler
28.	2	5755117	Valve spring
29.	2	6410108	Cap & Collets
30.	1	6501250	Piston assy. (std.)
31.	1	6501251	Piston assy. (+0.5)
32.	1	6585096	Lift pump
33.	1	6590259	Injection pump



34.	1	6927368	Muffler guard
35.	1	6927369	Muffler guard
36.	1	7200165	Lift pump drive rod
37.	1	8000174	Valve seat
38.	1	8000175	Valve seat
39.	1	8103310	Fuel tank
40.	1	8211227	Piston rings (std)
41.	1	8211228	Piston rings (+0.5)
42.	3	9043096	Fuel tank cap
43.	1	9375807	High pressure pipe
44.	10	9375872	Fuel pipe
45.	2	965130	Inlet valve
46.	2	9685133	Exhaust valve
47.	1	5302467	Workshop manual

#### User's Notes

- This kit is intended for the major repair/overhaul of the Lombardini 15LD315 engine and 2" Atalanta Swallow pump as part of the code P2-ALLO/3 pumpset kit.
- Experience has shown that the need for overhauling the pump is rare, especially in the first year of operation. Users are reminded not to overstock this kit. It is unnecessary to order a Major Repair Kit for every pumpset supplied.
- On sites where a number of pumps are to be deployed, it is suggested that initially one kit be ordered for every five or more pumps supplied. Ultimately, the appropriate number of Overhaul Kits or specific spares to be ordered has to be judged against the actual need and the site conditions such as competence of mechanics, workshop facilities, maintenance and repair practices, duration of project, etc.
- In cases where major damages occur (e.g. cracked casing) it may be more appropriate to replace than to repair the pump.



#### Packing and Marking

Items to be packed in a sturdy triwall carton, to be marked "OXFAM CODE PES2-ALLO/1" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the carton.  
One packing list, including Oxfam User's Notes, to be enclosed in the carton.

Specification date: 22<sup>nd</sup> September 2005  
Prepared by: Public Health Engineering Team



**Code P4-ALLO/3     4" Atalanta Osprey 452 Lombardini 9D625-2,  
Diesel Pumpset with Hose**

Gross weight: 544kg  
 Volume: 2.552m<sup>3</sup>  
 Dimensions: 150 x 107 x 138 cm  
 Approximate unit cost: £2753

**Item Qty Description**

Pump/Engine Set, Comprising:

- 1     1     Atalanta Osprey 452 4" x 4" single stage centrifugal self-priming pump. Construction is all cast iron with a mechanical carbon/ceramic seal, separate steel pump shaft, renewable castwear plate/volute, semi open clog resistant impeller, integral non-return valve, detachable discharge bend, prime and drain points and 4" BSP male suction and discharge connections. Pump is driven by a Lombardini 9LD625-2 two cylinder air - cooled diesel engine with handle start (handle secured to engine by cable tie), oil bath cleaner with cyclonic pre-filter, renewable element oil and fuel filters, 14.5 litre (4.5 hr.) fuel tank, throttle control, oil drain tap, fuel filter/water separator (agglomerator), throttle control and exhaust silencer. Pump and engine are close coupled together and mounted on a common fabricated steel baseplate. Drilled for 4 x M10 holding down bolts. Pump set identification plate secured to baseplate with Oxfam Code 'P4 - ALLO/3' stamped on it.  
 CONNECTION ACCESSORIES, COMPRISING:

2.     1 set SUCTION

Qty	Description
1	Length 10 m x 4" hose - reinforced PVC flexible medium duty (Green low toxic)
1	100 mm Foot valve SOCLA 2546 with 104mm hose tail (fitted to above)
2	4" BSP (F) Hose Coupling MI (one fitted to hose)
2	4" Hose clamp (fitted)
1	4" Hose band (fitted)
1	4" (M)to 3" (F) BSP Reducer GS
1	3" BSP Hex Nipple GS
10	4" Hose coupling washers

DISCHARGE

Qty	Description
1	3" BSP (F) Gate Valve - brass with CI handle
1	3" Swing type check valve - Brass (PN16)
1	4" (M)to 3" (F) Reducer GS
3	3" Hose clamp



Item	Qty	Description
	5	3" BSP Hex Nipple GS
	2	3" (F) 90 Degree Bend GS
	1	3" BSP (F) Hose Coupling MI
	10	3" BSP Hose Coupling Washers
	4	10 m Roll PTFE Tape (12mm wide)
	1	Length 4 m x 3" rubber reinforced hose suitable for potable water
	2	3" BSP (F) Hose coupling MI (fitted to both ends of above)
	2	3" Hose clamp (fitted to above)
3.	1 set	MOUNTING BOLTS
		<b>Qty Description</b>
	4	M10 x 100 mm rag bolts, nuts and washers
4.	1 set	PUMP SPARES SET FOR ONE YEAR OPERATION, COMPRISING:
		<b>Qty Part No Description</b>
	1	24-3-413/416 Mechanical shaft seal
	1	24-3-528 Inlet Gasket/Clack valve
	1	24-3-458 Outlet Gasket
	1	24-3-497 Body Gasket
	1	24-3-502 O Ring
	2	20-3-303 Plug
	2	07-3-307 Plug Washer
5.	1 set	ENGINE CONSUMABLE SPARES SETS EACH TO COVER 2,000 HOURS OPERATION, COMPRISING:
		<b>Qty Part No Description</b>
	12	2175042 Fuel Filter Element
	12	2175107 Oil Filter Element
6.	1	5 Litre container of engine oil – 15w/40 multi-grade complying to specification API SJ/CF for diesel engines or MI—46152 D/E (Non-hazardous for air/sea freight)
7.	1 set	DOCUMENTATION
		<ul style="list-style-type: none"> <li>• Lombardini 9LD standard user manual and parts list</li> <li>• PumpSets 'Atalanta' Osprey operating and maintenance manual</li> <li>• Oxfam Instruction Manual for Water Pumping Equipment – Oxfam Code PPM</li> <li>• 2 Packing list with Oxfam User's Notes (one in a 'document enclosed' envelope on outside of case)</li> </ul>



#### User's Notes

- The 5 litres of oil supplied in this kit should be used for running-in the engine and discarded after 100 running hours and replaced with SAE 15W/40 lubricating oil (or equivalent) as in the Oxfam Kit PO.

- This Pumpset Kit is part of the Pump Pack and is designed for use in conjunction with the Pump Fittings Kit (code PF), the Pump Oil Kit (code PO), and the Site Tool Kit (code OS). These, if required, have to be ordered separately.
  - For optimum performance, the pump design is based on using 4" suction pipework although a reducer is included to enable connection with 3" suction pipework. Reduction in size in the suction pipework will result in a significant drop in pump performance.
  - The P4-ALLO pumpset kit is supplied with the basic service filters and field service items for 12 months operation. This should provide the basics for operating the pump under moderate conditions but does not include spare parts for repairs or breakdowns.
  - There are now 2 optional kits available for more comprehensive pump fleet management: Service Kit Code PSK4-ALLO for both the pump and the engine. This is intended for situations where a single pumpset or small numbers (less than 5 kits) are used, and covers basic servicing and minor repairs. On sites where larger number of pumps are to be deployed, and where pumps are used for longer periods under harsh conditions, a more comprehensive Overhaul Kit or workshop package of spare parts, the PES4-ALLO kit, is available. It is suggested that initially one PES4-ALLO kit be ordered for every 5 - 10 pump sets supplied.
  - It should also be remembered that individual spare parts can be supplied and that a complete spares package is not always necessary (part Numbers and descriptions should be included in requisition orders). Ultimately, the appropriate number of Service Kits, Overhaul Kits or specific spares to be ordered has to be judged against the actual need and the site conditions such as competence of mechanics, workshop facilities, maintenance and repair practices, duration of project, etc.
  - This kit comes complete with all necessary fittings and pipework to assemble a complete pumping system; starting from a 4" strainer on the suction side and ending with a 4 m length of 3" hose on the delivery side. See attached Arrangement Drawing.
- P**
- The standard range of fittings included is also sufficient for most uses illustrated in the Pumping Pack Manual. The Pump Fittings Kit (code PF), when combined with this kit allows additional connections (uses) to be made. Refer to the specification on PF for details. It may not be necessary to order PF. Do not order PF automatically.
  - A 3" gate valve is included to allow optional throttling at outlet. It can also act as an isolation valve. Pumping against a fully closed valve must be avoided. The valve must always be open during priming. In some cases, the gatevalve is not necessary.
  - It is recommended that, when pumping long distances or to higher elevations, a non-return valve or clack valve is fitted to the delivery side of the pump to reduce risk of surge damage.
  - This self-priming pump has a built in non-return valve to aid priming. A low-friction footvalve (included in the kit) will make priming easier, but will also reduce the dynamic suction head. Where conditions permit, such as pumping water from a tank, the footvalve can be excluded from the pumping configuration.

**Packing and Marking**

All the above packed in one timber crate suitable for sea/air freight, lined with Kraft Union paper. Base timbers have minimum of 4" fork lift runners suitable for offloading by jack/poles etc. Pump set is secured to the floor of this case using steel spreaders with bolts push up, welded to the spreaders to prevent turning. Bolts are fitted with 'Nylock' type nuts. Case is to be finished with a minimum of 2 steel bands.

Pump serial number and Oxfam purchase order number to be clearly marked on case.

**Packing List**

Crate outer to be marked Oxfam Code P4-ALLO/3 with overall dimensions in CMS and gross weight in KG clearly shown. Marks to be both on the front and back determined by the fork lift runners. Oxfam logo to be painted black on all sides as per stencil supplied.

Specification date: 25<sup>th</sup> April 2006

Prepared by: Public Health Engineering Team



Code PSK4-ALLO/1

Atalanta Osprey Engine and Pump  
Service Kit

Gross weight: 10kg  
 Volume: 0.07m<sup>3</sup>  
 Dimensions: 60x 51x 24cm  
 Approximate unit cost: £605

Item	Qty	Part No	Description
1.	1	24-3-413/416	Seal complete
2.	1	24 - 3 - 528	Inlet gasket/clack valve
3.	1	24 - 3 - 458	Outlet gasket
4.	1	24 - 3 - 497	Body gasket
5.	1	24 - 3 - 502	O ring
6.	1	24 - 3 - 384	Impeller
7.	3	24 - 3 - 937	Shim
8.	1		Pump operating and maintenance manual
9.	1	4670016	Washer - sump plug
10.	1	2175107	Oil filter element
11.	1	2175042	Fuel filter element
12.	1	3730015	Fuel filter assembly
13.	2	4670005	Washer – injector nozzle
14.	2	4670006	Washer – injector nozzle
15.	4	4670058	Washer – leak off
16.	2	4400061	Rocker cover gasket
17.	1	4601041	Sump gasket
18.	1	4775196	Washer – fuel pipe
19.	2	4670060	Washer – fuel pipe
20.	4	4670059	Washer – fuel pipe
21.	1	8205099	Gasket set
22.	2	8211209	Piston rings (std)
23.	2	6531265	Injector nozzle
24.	1		Engine workshop manual

P

## User's Notes

- This kit is intended for the routine operational servicing of the Lombardini 9LD625 - 2 engine and 4" Atalanta Osprey pump as part of the code P4-ALLO/3 pumpset kit.
- If a single P4-ALLO pump is ordered it is recommended that one PSK4-ALLO/1 Service Kit is ordered, but if several pumps are ordered it may not be necessary to order a kit per pump. On sites where a number of pumps are to be deployed, it is suggested that initially one kit be ordered for every 2 pumps supplied, to prevent

overstocking. Ultimately, the appropriate number of Service Kits, Major Overhaul kits (PES4-ALLO) or specific spares to be ordered has to be judged against the actual need and the site conditions such as competence of mechanics, workshop facilities, maintenance and repair practices, duration of project, etc.

#### Packing and Marking

Items to be packed in a plywood box, complete with 2 metal bands to be marked "OXFAM CODE PSK4-ALLO/1 with gross weight in KGs and dimensions in CMs clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides as per stencil provided.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the carton.  
One packing list, including Oxfam User's Notes, to be enclosed in the carton.

Specification date: 26th September 2005  
Prepared by: Public Health Engineering Team



Code PES4-ALLO/1

Atalanta Osprey Engine and Pump  
Major Overhaul Kit

Gross weight: 56 kg  
 Volume: 0.25 m<sup>3</sup>  
 Dimensions: 60x 51x 82 cm  
 Approximate unit cost: £4538

Item	Qty	Part No	Description
1.	10	24-3-413/416	Seal complete
2.	5	24 - 3 - 528	Inlet gasket/clack valve
3.	5	24 - 3 - 458	Outlet gasket
4.	10	24 - 3 - 497	Body gasket
5.	10	24 - 3 - 502	O ring
6.	10	20 - 3 - 303	Plug
7.	10	07 - 3 - 307	Plug washer
8.	4	24 - 3 - 384	Impeller
9.	20	24 - 3 - 937	Shim
10.	4	07 - 3 - 316	Impeller washer
11.	4	85 - 3 - 043	Injector bolt
12.	10	4670016	Washer - sump plug
13.	10	2175107	Oil filter element
14.	8	2175042	Fuel filter element
15.	2	3730015	Fuel filter assembly
16.	10	4670005	Washer - injector nozzle
17.	10	4670006	Washer - injector nozzle
18.	20	4670058	Washer - leak off
19.	10	4400061	Rocker cover gasket
20.	2	4601041	Sump gasket
21.	2	4775196	Washer - fuel pipe
22.	4	4670060	Washer - fuel pipe
23.	8	4670059	Washer - fuel pipe
24.	1	8205099	Gasket set
25.	4	8211209	Piston rings (std)
26.	4	6531265	Injector nozzle
27.	2	1610082	Main bearing
28.	10	1200087	O-ring
29.	4	1213338	Seal
30.	1	1400395	Dipstick
31.	2	1526111	Con.rod

P

32.	10	1557019	Nut
33.	10	1557020	Nut
34.	2	1611160	Main bearing
35.	2	1630014	Small end bearing
36.	2	1640059	Big end bearing
37.	10	3430067	Seal
38.	1	3440056	QSD Assembly
39.	2	3616085	Strap
40.	1	3700334	Air filter assembly
41.	1	3730072	Fuel filter assembly -agglomerator
42.	2	4845247	Valve guide
43.	2	4845248	Valve guide
44.	1	5460293	Exhaust
45.	4	5755004	Spring
46.	2	5455006	Handle
47.	4	6410112	Caps & collets
48.	2	6500272	Piston assembly (Std)
49.	2	6500273	Piston assembly (+0.5)
50.	1	6585096	Lift pump
51.	1	6590375	Injection pump
52.	2	6615018	Injector
52.	1	8102085	Fuel tank
53.	2	8211210	Piston rings (+0.5)
54.	1	9043092	Tank cap
55.	1	9371101	Hose
56.	10	9600057	Spacer
57.	2	9652153	Inlet valve
58.	2	9685146	Exhaust valve
59.	10	9730139	Capscrew
60.	1		Workshop manual



#### User's Notes

- This kit is intended for the major repair/overhaul of the Lombardini 9LD625 - 2 engine and 4" Atalanta Osprey pump as part of the code P4-ALLO/3 pumpset kit.
- Experience has shown that the need for overhauling the pump is rare, especially in the first year of operation. Users are reminded not to overstock this kit. It is unnecessary to order a Major Overhaul Kit for every pumpset supplied. On sites where a number of pumps are to be deployed, it is suggested that initially one kit be ordered for every five or more pumps supplied. Ultimately, the appropriate number of Overhaul Kits or specific spares to be ordered has to be judged against the

actual need and the site conditions such as competence of mechanics, workshop facilities, maintenance and repair practices, duration of project, etc.

- In cases where major damages occur (e.g. cracked casing) it may be more appropriate to replace than to repair the pump.

#### Packing and Marking

Items to be packed in a plywood box, complete with 2 metal bands to be marked "OXFAM CODE PES4-ALLO/1 with gross weight in KGs and dimensions in CMs clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides as per stencil provided.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the carton.  
One packing list, including Oxfam User's Notes, to be enclosed in the carton.

Specification date: 26 September 2005  
Prepared by: Public Health Engineering Team



Code P4H-ALLO/2 4" x 3" Atalanta Condor 1005 Lombardini  
11LD626-3 Diesel Pump Set with Hose

Gross weight: 668 kg  
Volume: 2.451 m<sup>3</sup>  
Dimensions: 170 x 103 x 140 cm  
Approximate unit cost: £6172

**Item Qty Description**

**Pump/Engine Set, Comprising:**

1. 1 Atalanta Condor 1005-D275 4" x 3" single stage centrifugal self-priming pump. Construction is all cast iron with a mechanical carbon/ceramic seal, stainless steel pump shaft running in 2 "sealed-for-life" ballbearings for rigidity, high efficiency enclosed impeller, integral non-return valve, detachable discharge bend with hardware support bracket, prime and drain points and 4" BSP male suction and discharge connections. Pump is driven by a Lombardini 11LD626-3 three cylinder air – cooled diesel engine with 12 volt key-type electric start, charging alternator and lead acid battery pack (dry charged for shipment), oil bath cleaner with rain cap, renewable element oil and fuel filters, 15 litre (3.5 hr.) fuel tank, throttle control, oil drain tap, fuel filter/water separator (agglomerator), throttle control and exhaust silencer.  
Pump and engine are flexibly close coupled together and mounted on a common fabricated steel baseplate. Drilled for 4 x M10 holding down bolts. Pump set identification plate secured to baseplate with Oxfam Code 'P4H – ALLO/2' stamped on it.

**Connection Accessories, Comprising:**

2. 1 set SUCTION

**Qty Description**

- 1 Length 10 m x 4" hose – reinforced PVC flexible medium duty (Green low toxic)  
1 100 mm Foot valve SOCLA 2546 with 104mm hose tail (fitted to above)  
2 4" BSP (F) Hose Coupling MI (one fitted to hose)  
2 4" Hose clamp (fitted)  
1 4" Hose band (fitted)  
1 4" (M) to 3" (F) BSP Reducer GS  
2 3" BSP Hex Nipple GS  
10 4" Hose coupling washers

DISCHARGE

**Qty Description**

- 2 3" BSP (F) Gate Valve – brass with CI handle  
1 3" Swing type check valve – Brass (PN16)  
3 3" Hose clamp  
5 3" BSP Hex Nipple GS



Item	Qty	Description
	2	3" (F) 90 Degree Bend GS
	3	3" BSP (F) Hose Coupling MI
	1	3" (M) Hose Coupling MI
	1	3" (F) Equal Tee GS
	10	3" BSP Hose Coupling Washers
	4	10 m Roll PTFE Tape (12mm wide)
	1	Length 4 m x 3"10 bar rated rubber reinforced hose suitable for potable water
	2	3" BSP (F) Hose coupling MI (fitted to both ends of above)
	2	3" Hose clamp (fitted to above)
		<u>Pre-assembly of outlet fittings:</u> Equal Tee is screwed to pump outlet, hex. nipples fitted to both parts of the open tee and then gate valves are screwed on to the nipples. Clamp for discharge support bracket also attached. If room in the case this assembly is secured to pump.
3.	1 set	MOUNTING BOLTS
		<b>Qty Description</b>
	4	M10 x 100 mm rag bolts washers and nuts
4.	1 set	PUMP SPARES FOR 1 YEAR OPERATION, COMPRISING:
		<b>Qty Part Number Description</b>
	1	35 – 3 - 124 Mechanical shaft seal
	2	35 – 3 - 107 Body gasket
5.	1 set	ENGINE CONSUMABLE SPARES FOR 1 YEAR OPERATION, COMPRISING:
		<b>Qty Part Number Description</b>
	12	2175042 Fuel filter element
	12	2175040 Oil filter element
	1	4670016 Sump washer
6.	1	5 litre container of engine oil – 15w/40 multi-grade complying to specification API SJ/CF for diesel engines or MIL-L-46152 D/E. (Non-hazardous for air/sea freight)
7.	1.set	DOCUMENTATION
		<ul style="list-style-type: none"> <li>• Lombardini 11LD standard user manual and parts list</li> <li>• PumpSets 'Atalanta' Condor operating and maintenance manual</li> <li>• Oxfam Instruction Manual for Water Pumping Equipment– Oxfam Code PPM</li> <li>• 2 Packing lists with Oxfam Users' Notes (One in a 'document enclosed' envelope on outside of case)</li> </ul>



#### User's Notes

- The 5 litres of oil supplied in this kit should be used for running-in the engine and discarded after 100 running hours and replaced with SAE 15W/40 lubricating oil (or equivalent) as in the Oxfam Kit PO.

- This Pumpset Kit is part of the Pump Pack and is designed for use in conjunction with the Pump Fittings Kit (code PF), the Pump Oil Kit (code PO), and the Site Tool Kit (code OS). These, if required, have to be ordered separately.
- For optimum performance, the pump design is based on using 4" suction pipework although a reducer is included to enable connection with 3" suction pipework. Reduction in size in the suction pipework will result in a significant drop in pump performance.
- The P4H-ALLO pumpset kit is supplied with the basic service filters and field service items for 12 months operation. This should provide the basics for operating the pump under moderate conditions but does not include spare parts for repairs or breakdowns.
- There are now 2 optional kits available for more comprehensive pump fleet management: Service Kit Code PSK4H-ALLO for both the pump and the engine. This is intended for situations where a single pumpset or small numbers (less than 5 kits) are used, and covers basic servicing and minor repairs.  
On sites where larger number of pumps are to be deployed, and where pumps are used for longer periods under harsh conditions, a more comprehensive Overhaul Kit or workshop package of spare parts, the PES4H-ALLO kit, is available. It is suggested that initially one PES4H-ALLO kit be ordered for every 5 - 10 pumpsets supplied.
- It should also be remembered that individual spare parts can be supplied and that a complete spares package is not always necessary (Part Numbers and descriptions should be included in requisition orders). Ultimately, the appropriate number of Service Kits, Overhaul Kits or specific spares to be ordered has to be judged against the actual need and the site conditions such as competence of mechanics, workshop facilities, maintenance and repair practices, duration of project, etc.
- This kit comes complete with all necessary fittings and pipework to assemble a complete pumping system; starting from a 4" strainer on the suction side and ending with a 4 m length of 3" hose on the delivery side. See attached Arrangement Drawing.
- The standard range of fittings included is also sufficient for most uses illustrated in the Pumping Pack Manual. The Pump Fittings Kit (code PF), when combined with this kit allows additional connections (uses) to be made. Refer to the specification on PF for details. It may not be necessary to order PF. Do not order PF automatically.
- A 3" gate valve is included to allow optional throttling at outlet. It can also act as an isolation valve. Pumping against a fully closed valve must be avoided. The valve must always be open during priming. In some cases, the gatevalve is not necessary.
- It is recommended that, when pumping long distances or to higher elevations, a non-return valve or clack valve is fitted to the delivery side of the pump to reduce risk of surge damage.
- This self-priming pump has a built in non-return valve to aid priming. A low-friction footvalve (included in the kit) will make priming easier, but will also reduce the



dynamic suction head. Where conditions permit, such as pumping water from a tank, the footvalve can be excluded from the pumping configuration.

#### Packing

All the above packed in one timber crate suitable for sea/air freight, lined with Kraft Union paper. Base timbers have minimum of 4" fork lift runners suitable for offloading by jack/poles etc. Pump set is secured to the floor of this case using steel spreaders with bolts push up, welded to the spreaders to prevent turning. Bolts are fitted with 'Nylock' type nuts. Case is to be finished with a minimum of 2 steel bands.

Pump serial number and Oxfam purchase order number to be clearly marked on case.

#### Marking

Crate outer to be marked **Oxfam Code P4H-ALLO/2** with overall dimensions in CMS and gross weight in KG clearly shown. Marks to be both on the front and back determined by the fork lift runners. **Oxfam** logo to be painted black on all sides as per stencil supplied.

Specification date: 26<sup>TH</sup> September 2005  
Prepared by: Public Health Engineering Team



Code PSK4H-ALLO/1

Atalanta Condor Engine and Pump  
Service Kit

Gross weight: 10kg  
 Volume: 0.07 m<sup>3</sup>  
 Dimensions: 60 x 51 x 24 cm  
 Approximate unit cost: £1808

Item	Qty	Part No.	Description
1.	1	35 - 3 - 124	Seal complete
2.	1	35 - 3 - 107	Body gasket
3.	1	35 - 3 - 117	Impeller CI Ø275
4.	1	35 - 3 - 181	Impeller locking nut
5.	1	35 - 3 - 182	Spring lock
6.	1	35 - 3 - 183	Locking nut joint
8.	1	35 - 3 - 121	Bearing NDE
9.	1	35 - 3 - 122	Bearing DE
10.	1	35 - 3 - 108	Non return valve
11	1		Pump operating and maintenance manual
12	1	1200087	O Ring – lift pump
13.	4	4670059	Washer – lift pump
14.	1	4670016	Washer – sump plug
15.	1	2175040	Oil filter element
16.	1	2175042	Fuel filter element
17.	3	4670005	Washer – injector nozzle
18.	3	4670006	Washer – injector nozzle
19.	6	4670058	Washer – leak off
20.	3	4650037	Washer – Injector inlet
21.	3	4400061	Rocker cover gasket
22.	1	2440358	Fan belt
23.	2	4490017	O Ring – fuel tank
24.	2	4430071	O Ring – fuel tank
25.	2	1202052	O Ring – fuel tank
26.	1	8205101	Gasket set
27.	1	6585079	Lift pump
28.	10	4670061	Washer
29.	3	8211209	Piston rings (std)
30.	3	6531426	Injector nozzle
31.	1	1640059	Big end bearing (std)
32.	1	8676077	Main bearing – gear end (std)
33.	1	1611089	Main bearing – flywheel end (std)



34.	2	1611082	Main bearing – centre (std)
35	1		Engine Workshop manual

#### User's Notes

- This kit is intended for the routine operational servicing of the Lombardini 11LD626 – 3 engine and 4"x3" Atalanta Condor pump as part of the code P4H-ALLO/2 pumpset kit.
- If a single P4H-ALLO pump is ordered it is recommended that one PSK4H-ALLO/1 Service Kit is ordered, but if several pumps are ordered it may not be necessary to order a kit per pump. On sites where a number of pumps are to be deployed, it is suggested that initially one kit be ordered for every 2 pumps supplied, to prevent overstocking. Ultimately, the appropriate number of Service Kits, Major Overhaul kits (PES4H-ALLO) or specific spares to be ordered has to be judged against the actual need and the site conditions such as competence of mechanics, workshop facilities, maintenance and repair practices, duration of project, etc.

#### Packing and Marking

Items to be packed in a plywood box, complete with 2 metal bands to be marked "OXFAM CODE PSK4H-ALLO/1 with gross weight in KGs and dimensions in CMs clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides as per stencil provided.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the carton.  
One packing list, including Oxfam User's Notes, to be enclosed in the carton.

Specification date: 26<sup>TH</sup> September 2005  
Prepared by: Public Health Engineering Team



Code PES4H- ALLO/1

Atalanta Pump  
Service Kit

Gross weight: 58kg  
 Volume: 0.25m<sup>3</sup>  
 Dimensions: 60x 51x 82cm  
 Approximate unit cost: £9297

Item	Qty	Part No	Description
1.	10	35 - 3 - 124	Seal complete
2.	10	35 - 3 - 107	Body gasket
3.	2	35 - 3 - 117	Impeller CI Ø275
4.	2	35 - 3 - 181	Impeller locking nut
5.	2	35 - 3 - 182	Spring lock
6.	2	35 - 3 - 183	Locking nut joint
7.	4	35 - 3 - 160	Shaft key
8.	2	35 - 3 - 121	Bearing NDE
9.	2	35 - 3 - 122	Bearing DE
10.	5	35 - 3 - 108	Non return valve
11.	30	1200087	O Ring – lift pump
12.	80	4670059	Washer – lift pump
13.	22	4670016	Washer – sump plug
14.	20	2175040	Oil filter element
15.	20	2175042	Fuel filter element
16.	30	4670005	Washer – injector nozzle
17.	30	4670006	Washer – injector nozzle
18.	60	4670058	Washer – leak off
19.	30	4650037	Washer – Injector inlet
20.	30	4400061	Rocker cover gasket
21.	10	2440358	Fan belt
22.	4	4490017	O Ring – fuel tank
23.	4	4430071	O Ring – fuel tank
24.	4	1202052	O Ring – fuel tank
25.	2	8205101	Gasket set
26.	2	6585079	Lift pump
27.	20	4670061	Washer
28.	9	8211209	Piston rings (std)
29.	9	6531426	Injector nozzle
30.	6	1640059	Big end bearing (std)
31.	2	8676077	Main bearing – gear end (std)
32.	3	1611089	Main bearing – flywheel end (std)
33.	6	1611082	Main bearing – centre (std)



34.	1	1157158	Alternator
35.	10	1213338	Seal complete
36.	1	1400135	Dipstick
37.	3	1526111	Con rod
38.	3	1630014	Bearing
39.	3	1640059	Bearing
40.	2	2440034	Belt
41.	10	3430067	Seat
42.	1	3440056	QSD Assembly
43.	1	3700324	Air filter assembly
44.	1	3730072	Fuel filter assembly
45.	3	4845247	Valve guide
46.	3	4845248	Valve guide
47.	1	5460291	Silencer
48.	6	5755004	Spring
49.	1	5840067	Starter motor
50.	6	6410112	Cap & collets
51.	3	6500272	Piston assembly (Std)
52.	3	6500273	Piston assembly (+0.5)
53.	1	6585096	Lift pump
54.	3	6590372	Injection pump
55.	3	6615049	Injector nozzle
56.	1	6727024	Prefilter
57.	1	6927172	Guard
58.	1	7245417	Panel
59.	1	6745050	Oil pressure switch
60.	1	7362228	Regulator
61.	3	8211210	Piston rings (+0.5)
62.	1	8676077	Bearing housing
63.	1	9032079	Filler cap
64.	1	9375349	Pipe
65.	3	9652153	Valve
66.	3	9685146	Valve
67.	1		Workshop manual



#### User's Notes

- This kit is intended for the major repair/overhaul of the Lombardini 11LD626 - 3 engine and 4" x 3" Atalanta Condor pump as part of the code P4H-ALLO/2 pumpset kit.
- Experience has shown that the need for overhauling the pump is rare, especially in the first year of operation. Users are reminded not to overstock

this kit. It is unnecessary to order a Major Overhaul Kit for every pumpset supplied.

- On sites where a number of pumps are to be deployed, it is suggested that initially one kit be ordered for every five or more pumps supplied. Ultimately, the appropriate number of Overhaul Kits or specific spares to be ordered has to be judged against the actual need and the site conditions such as competence of mechanics, workshop facilities, maintenance and repair practices, duration of project, etc.
- In cases where major damages occur (e.g. cracked casing) it may be more appropriate to replace than to repair the pump.

#### Packing and Marking

Items to be packed in a plywood box, complete with 2 metal bands to be marked "OXFAM CODE PES4H-ALLO/1 with gross weight in KGs and dimensions in CMs clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides as per stencil provided.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the carton.  
One packing list, including Oxfam User's Notes, to be enclosed in the carton.

Specification date: 26<sup>th</sup> September 2005  
Prepared by: Public Health Engineering Team



Code PF/1

Pump Fittings Kit

**This kit is for pumps in parallel and bypass for pumping into distribution.**

Gross weight: 10 kg  
 Volume: 0.020 m<sup>3</sup>  
 Dimensions: 34 x 25 x 23 cm  
 Approximate unit cost: £77.55

Item	Qty	Description
1.	1	3" Ø BSP (M) hose coupling, malleable iron
2.	1	3" bolted hose clip (86–91 mm)
3.	2	3" Ø BSP (F) tee, GS
4.	2	3" (M) x 1" (F) hex reducing bush, GS
5.	1	1" Ø BSP (F) brass ball valve, NP16
6.	1	1" Ø BSP (M) hex nipple, GS
7.	2	1" Ø BSP (M) x 32 mm PVC compression coupling (FIP NOT ASTORI)
8.	4	12 m rolls PTFE tape (12 mm wide)

#### User's Notes

- The P2 and P4 Pumpset Kits are supplied with a standard range of suction and discharge fittings, which is sufficient for most uses illustrated in the manual, as well as connecting a pair of pumps in series, except for the additional connections described in Note (2). Therefore this kit may not be necessary when a pumpset is ordered.
- This kit is normally used in conjunction with the P2 and P4 Pumpset Kits. The fittings in this kit, **combined with the standard discharge fittings from the Pump Kit**, are designed primarily for the following connections:
  - **Parallel connection of a pair of P2 or P4 pumps** – This arrangement allows one pump to be used as duty pump and the other a stand-by. It also allows doubling of flow rate when both are pumping simultaneously.
  - **Connection into a 3" distribution network with a 32 mm MDPE pressure-relief bypass pipe** – This arrangement may be necessary where distribution by gravity is not practical. The short length of 32 mm MDPE pipe required is not provided in this kit, in order to avoid complicating packing. Generally there should be surplus lengths available. If in doubt, order Oxfam code DP – 50 m length 32 mm MDPE pipe separately. The 3" Y strainer illustrated in the Manual is provided in the Distribution Fittings Kit (code DF3). It is not necessary to order separately unless the DF3 is not ordered.



#### Packing and Marking

Items to be packed in one timber crate, to be marked "OXFAM CODE PF/1" with gross weight and dimensions clearly shown. Marks to be on the front and back of the crate, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the crate.  
One packing list, including Oxfam User's Notes, to be enclosed in the crate in a plastic bag.

Specification date: 31<sup>st</sup> January 2007  
Prepared by: Public Health Engineering Team



Code PO/2

Pump Oil Kit

Gross weight: 68 kg  
 Volume: 0.213 m<sup>3</sup>  
 Dimensions: 53 x 38 x 106 cm  
 Approximate unit cost: £128.44

Item	Qty	Description
1.	2	Plastic 25 litre drums SAE 15W/40 Multigrade Lubricating oil to specification API SJ/CF for diesel engines or MIL – L – 46152D/E
2.	1	Funnel and strainer
3.	1	20 litre steel jerry can with lockable top and two spare washers

#### User's Notes

- This kit is intended as a 'starter' kit to permit commissioning and operation of all Oxfam diesel-engine pumps and generators
- One kit provides sufficient lubricating oil for running 6–8 pumps or generators simultaneously for 2 months.
- The ambient temperature operating range for this engine oil is -20°C – 40°C.

#### Local Purchasing Advice

It should be possible to purchase suitable alternative oil in most regions/countries. Engine oil is vitally important to ensuring the longevity of engines so only the correct grade from a reputable manufacturer should be used. See the manufacturer's documentation for details.

**P**

#### Packing and Marking

Items to be packed in a plywood case, to be marked "OXFAM CODE PO/2" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the case.  
 One packing list, including Oxfam User's Notes, to be enclosed in the case in a grip-seal plastic bag.

Specification date: 19<sup>th</sup> March 2007  
 Prepared by: Public Health Engineering Team

## Category R Resources

<b><i>The items in italics are not Oxfam stock items:</i></b>		
<i>The following kits are not commonly used, but the specifications have been prepared to facilitate the quick purchase and deployment of these items if required.</i>		
<i>Code RBF001 – RMF004</i>	<i>Public Health, Food Security and and Livelihoods</i>	293
<i>Code RBG001 - RMG002S</i>	<i>Gender</i>	294
<i>Code RML001 - RML005</i>	<i>Logistics and Supply</i>	295
<i>Code RBPH001 - RMH009</i>	<i>Public Health</i>	296
<i>Code RBE001 - RVE001F</i>	<i>Public Health Engineering</i>	299
<i>Code RS001 - RBP005</i>	<i>Security and Protection</i>	301





*Code RBF001 – RMF004      Public Health, Food Security and  
and Livelihoods*

**These are non – stock items**

<b>Code</b>	<b>ISBN</b>	<b>Price</b>	<b>Description</b>
RBF001	0855983833	£8.50	Book: <i>Distributing Seeds and Tools in Emergencies</i>
RBF002	0855981458	£7.50	Book: <i>Food Scarcity and Famine</i>
RBF003	85339243X	£10.02	Book: <i>Nutrition Matters</i>
RBF004	0855985631	£8.50	Book: <i>Cash-Transfer Programming in Emergencies. Oxfam Skills and Practice</i>
RMF001	No ISBN	£5.34	Manual: <i>Guidelines for Emergency Food Security Assessment Response</i>
RMF002	No ISBN	0	Manual: <i>Oxfam Approach to Nutrition Surveys in Emergencies</i>
RMF003	0850030722	£5	Manual: <i>Food Economy Approach (Network Paper RRN26)</i>
RMF004	0850035260	£2.60	Manual: <i>Food Security Assessments in Emergencies: a livelihoods approach (Network HPN36)</i>



Specification date: 2 May 2007  
Prepared by: Logistics Team

**Code RBG001 - RMG002S****Gender****These are non – stock items**

<b>Code</b>	<b>ISBN</b>	<b>Price</b>	<b>Description</b>
RBG001	0855982675	£37.50	Book: Gender Training Manual
RBG001P	0855984171	£35	Book: Gender Training Manual (Portuguese)
RBG001S	0855983809	£35	Book: Gender Training Manual (Spanish)
RBG002	0855984074	£13.95	Book: Gender Works
RBG003	No ISBN	£0.001	Book: Guidelines on Gender Based Violence - Intervention in Humanitarian Settings & CD
RBG004	0520237919	£15.95	Book: Sites of Violence - Gender & Conflict Zones
RMG001	No ISBN	£5.36	Manual: Gender Induction Pack
RMG001F	No ISBN	£5.36	Manual: Gender Induction Pack (French)
RMG001P	No ISBN	£5.36	Manual: Gender Induction Pack (Portuguese)
RMG001S	No ISBN	£5.36	Manual: Gender Induction Pack (Spanish)
RMG002	No ISBN	£0.30	Manual: Little Gender Handbook for Emergencies
RMG002F	No ISBN	£0.30	Manual: Little Gender Handbook for Emergencies (French)
RMG002P	No ISBN	£0.30	Manual: Little Gender Handbook for Emergencies (Portuguese)
RMG002S	No ISBN	£0.30	Manual: Little Gender Handbook for Emergencies (Spanish)

**R**

Specification date: 2 May 2007

Prepared by: Logistics Team

**Code RML001 - RML005****Logistics and Supply****These are non – stock items**

<b>Code</b>	<b>Price</b>	<b>Description</b>
RML001	£4.24	Manual: FACTS Basic Guide
RML002	£8.08	Manual: Logistics Purchasing & Supply Procedures Manual
RML002F	£8.08	Manual: Logistics Purchasing & Supply Procedures Manual (French)
RML002P	£8.08	Manual: Logistics Purchasing & Supply Procedures Manual (Portuguese)
RML002S	£8.08	Manual: Logistics Purchasing & Supply Procedures Manual (Spanish)
RML003	£5.72	Manual: Equipment Catalogue
RML004	£2.50	Manual: Supplier List Oxfam GB Equipment
RML005	£5.29	Manual: Communications Manual

Specification date: 2 May 2007

Prepared by: Logistics Team



**Code RBPH001 - RMH009****Public Health****These are non – stock items**

<b>Code</b>	<b>ISBN</b>	<b>Price</b>	<b>Description</b>
RBPH001	1899825002	£22.55	Book: Participatory Learning & Action
RBPH001P	1899825002	£22.55	Book: Participatory Learning & Action (Portuguese)
RBPH002	0333666224	£3	Book: Buzzing Children (Living Health)
RBPH003	New combined edition due	0	Book: Child to Child (Resource Book 1 - Implementing the Child to Child Approach)
RBPH004	New combined edition due	0	Book: Child to Child (Resource Book 2 - Activity Sheets)
RBPH005	2906498351	0	Book: Clinical Guidelines (Diagnostic Treatment Manual)
RBPH006	1405028831	£7.5	Book: Communicating Health (An Action Guide to Health Education and Health Promotion)
RBPH007	1841870269	£15	Book: Communicating With Children (Helping Children in Distress)
RBPH008	0875530346	£15	Book: Control of Communicable Disease Manual
RBPH008S	9275315647	£11.45	Book: Control of Communicable Diseases Manual (Spanish) - Manual para el Control de las Enfermedades Transmisibles
RBPH009	085598306x	£7.50	Book: Disease Prevention Through Vector Control (Guidelines for Relief Organisations) Oxfam Practical Health Guide No. 10
RBPH010	0119518597	£5	Book: New Emergency Health Kit
RBPH010F	No ISBN	£5	Book: New Emergency Health Kit (French) - Nouveau Kit Sanitaire D'Urgence
RBPH010S	No ISBN	£5	Book: New Emergency Health Kit (Spanish) - El nuevo botiquin de urgencia
RBPH011	0952615916	£4.50	Book: Health on Air
RBPH012	0942364104	£11.5	Book: Helping Health Workers Learn

**R**

RBPH013	90668701251	£4.89	Book: <i>Hygiene Education in Water Supply &amp; Sanitation Programs</i>
RBPH015	085598418x	£12.5	Book: <i>Impact Assessment for Development Agencies</i>
RBPH016	9066870168	£19.55	Book: <i>Just Stir Gently</i>
RBPH017	No ISBN	£0.001	Book: <i>Malaria</i>
RBPH017F	924254491 4	£4.24	Book: <i>Malaria (French) - Paludisme, Le</i>
RBPH018	No ISBN	£6.28	Book: <i>Making the Links (Guidelines for Hygiene Education in Community)</i>
RBPH019	No ISBN	£4.24	Book: <i>P.H.A.S.T Step by Step Guide</i>
RBPH019F	No ISBN	£4.24	Book: <i>P.H.A.S.T Step by Step Guide (French) - Manuel pas a pas sur PHAST</i>
RBPH020	08213-2477-2	£13.74	Book: <i>Participatory Evaluation</i>
RBPH021	033422619	£5.40	Book: <i>Partners in Evaluation</i>
RBPH022	0333600444	£7.40	Book: <i>Pictures, People &amp; Power</i>
RBPH023	9241845151	£8.20	Book: <i>Rapid Health Assessment Protocols for Emergencies</i>
RBPH024	0333722108	£5.16	Book: <i>Refugee Health (MSF)</i>
RBPH025	0946688443	£10.02	Book: <i>Copy Book, The</i>
RBPH026	1841870641	£12.95	Book – <i>Toolkits</i>
RBPH027	No ISBN	0	Book: <i>Vector &amp; Pest Control in Refugee Situations</i>
RBPH028	1853396133	£20	Book: <i>Where there is no Artist</i>
RBPH029	0333516516	£4.50	Book: <i>Where there is no Doctor</i>
RBPH029F	92913001x	£15.79	Book: <i>Where there is no Doctor, (French) - La ou il n'y a pas de Docteur</i>
RBPH029S	0942364015	£11.50	Book: <i>Where there is no Doctor (Spanish) - Donde no hay Doctor</i>
RBPH030	0333516524	£9	Book: <i>Where there is no Doctor (for Africa)</i>



RBPH031F	No ISBN	£10	Book: P.H.A.S.T Initiative (French) - Participation a la Transformation de l'Hygiene aet de l'Assainissement
RBPH031S	No ISBN	£10	Book: P.H.A.S.T Initiative (Spanish)
RMH001	No ISBN	£0.001	Manual: Guidelines for Public Health Promotion in Emergencies
RMH002	08559fs305	£8.50	Manual: Mainstreaming HIV in Humanitarian Emergencies
RMH003	No ISBN	£0.001	Manual: Malaria Control in Emergencies
RMH004	No ISBN	£0.001	Manual: Training Manual for Public Health Promotion in Emergencies
RMH005	No ISBN	£3.66	Manual: Indoor Residual Spraying (IRS) Guidelines & Training Guides
RMH006	92 4 154449x	£1.28	Manual: Guidelines for Cholera Control
RMH006F	924 254449 2	£0.001	Manual: Guide pour la lutte contre le Cholera
RMH007	0850035813	£2.60	Manual: HIVAIDS & Emergencies (Network Paper 38 HPN)
RMH008	No ISBN	£5.56	Manual: Insecticide treated Mosquito net interventions ( A manual for national control programe managers)
RMH009	No ISBN	£0.88	Manual: P.H.A.S.T Initiative (Participatory Hygiene & Sanitation Trans)

R

Specification date: 2 May 2007  
Prepared by: Logistics Team

<i>Code RBE001 - RVE001F</i>	<i>Public Health Engineering</i>
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*These are non – stock items*

<b>Code</b>	<b>ISBN</b>	<b>Price</b>	<b>Description</b>
RBE001	0855981938	£12.95	Book: <i>Developing &amp; Managing Community Water Supplies (Oxfam Development Guidelines No. 8)</i>
RBE002	1843800055	£29.95	Book: <i>Emergency Sanitation</i>
RBE003	0906055652	£19.95	Book: <i>Emergency Vector Control Using Chemicals</i>
RBE004	1853395218	£20.07	Book: <i>Engineering in Emergencies</i>
RBE005	0471938858	£31.96	Book: <i>Environmental Health Engineering in the Tropics (Intro)</i>
RBE006	0946688508	£10.02	Book: <i>Gravity Flow Water Systems (Handbook)</i>
RBE007	0903031272	£10.02	Book: <i>Hand Dug Wells and Their Construction</i>
RBE008	9780855963789	£9.56	Book: <i>Managing Water Supply &amp; Sanitation in Emergencies</i>
RBE009	No ISBN	£6.25	Book: <i>On Site Sanitation (Building on Local Practice)</i>
RBE010	No ISBN	£10.43	Book: <i>Public Health Engineering in Emergency Situations</i>
RBE011	0333391403	£5.69	Book: <i>Sanitation without water</i>
RBE012	9291390976	£11.95	Book: <i>Sphere Project (2004)</i>
RBE012F	0855985119	£11.95	Book: <i>Sphere Project (2004 French) - Le Project Sphere</i>
RBE012P	0855984627	£10.95	Book: <i>Sphere Project (2000 Portuguese) - O Projecto Esfera</i>
RBE012S	0855985127	£11.95	Book: <i>Sphere Project (2004 Spanish) - El Proyecto de la Esfera</i>
RBE013	0855985097	£30	Book: <i>Sphere Training Manual &amp; CD</i>
RBE014	No ISBN	£0.001	Book: <i>Sphere Project - Practitioner's Reference Guide in the Field</i>



RCE001	No ISBN	0	CD: Public Health Engineering
RCE002	No ISBN	0	CD: Emergency Response Manual CD
RME001	No ISBN	£3.70	Manual: Hand Well Dug Equipment
RME002	No ISBN	£0.70	Manual: Guidelines for Solid Waste Management in Emergencies
RME003	No ISBN	0	Manual: Guidelines for Excreta Disposal in Emergencies
RME004	No ISBN	£3.14	Manual: Guidelines for Post-Disaster Housing Reconstruction
RME005	No ISBN	£3.70	Manual: Water Distribution Equipment
RME006	No ISBN	£3.70	Manual: Water Filtration Equipment
RME007	No ISBN	£3.70	Manual: Water Pumping Equipment Manual
RME008	No ISBN	£3.70	Manual: Water & Storage Equipment
RME009	No ISBN	£3.70	Manual: Coagulation & Disinfection Equipment
RME010	No ISBN	£2.60	Manual: Hand Pumps Specification & Selection Guideline Manual
RME011	No ISBN	£2.20	Manual: Oxfam Water testing Kits Support Manual
RME012	No ISBN	£1.30	Manual: Emergency Response Manual
RME012F	No ISBN	£1.30	Manual: Emergency Response Manual (French)
RME012P	No ISBN	£1.30	Manual: Emergency Response Manual (Portuguese)
RME012S	No ISBN	£1.30	Manual: Emergency Response Manual (Spanish)
RVE001	184187065x	£11.70	Video: Sphere Project (2000) – Video
RVE001F	No ISBN	£11.70	Video: Sphere Project (2000 French) - Video - Le Project Sphere

Specification date: 2<sup>nd</sup> May 2007  
 Prepared by: Logistics Team

**Code RS001 - RBP005****Security and Protection****These are non – stock items**

<b>Code</b>	<b>ISBN</b>	<b>Price</b>	<b>Description</b>
RS001	No ISBN	£8	<i>Book: Operational Security Management in Violent Environments</i>
RS002	0850034574	£10.46	<i>Book: Safety First - a Field Security Handbook for NGO staff</i>
RBP001	9280637622	0	<i>Book: Growing the Sheltering Tree</i>
RBP002	No ISBN	£4.40	<i>Book: Humanitarian Negotiation, a Handbook for Securing Access, Assistance and Protection for Civilians in Armed Conflict</i>
RBP003	No ISBN	0	<i>Book: International Humanitarian Law - Answers to you Questions</i>
RBP004	9211010055	0	<i>Book: Protecting Refugees: A Field Guide for NGOs</i>
RBP005	0855985720	£9.95	<i>Book: Protection - An ALNAP guide for Humanitarian Agencies</i>

Specification date: 2 May 2007  
 Prepared by: Logistics Team



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## Category S

### Site Selection, Planning and Shelter

Code SGPS/4	GPS (Global Positioning System)	305
Code SR/1	Poly Rope	306
Code SESL/4	Family Shelter (Large)	307
Code SPE-1/3	Woven Flexible Tarpaulin	308
Code SST1/1	Abney Level	309
Code SST3/1	Measuring Tape 30m/ 100ft	310
Code SST5/1	Measuring Tape – 50m/ 165ft	311
<b><i>The items in italics are not Oxfam stock items:</i></b>		
<i>The following kits are not commonly used, but the specifications have been prepared to facilitate the quick purchase and deployment of these items if required.</i>		
Code SPE-2/3	<i>Reinforced (Braided) Flexible Tarpaulin</i>	312

\* This item will be supplied only if the Woven Flexible Tarpaulin (Oxfam code SPE-1) is temporarily unavailable.





Code SGPS/4

GPS (Global Positioning System)

Gross weight: 0.5 kg  
 Volume:  
 Dimensions:  
 Approximate unit cost: £220



Item	Qty	Description
1.	1	Garmin eTrex VISTA hand held GPS Handheld 12 channel GPS receiver with mapping upload capacity (MapSource CDs). Features include: <ul style="list-style-type: none"> <li>- 24 megabyte built in memory;</li> <li>- 1000 waypoints with names &amp; graphic symbols;</li> <li>- 20 reversible routes and automatic track log;</li> <li>- high resolution greyscale display screen;</li> <li>- barometric altimeter; electronic compass; area calculator; trip computer;</li> <li>- uses (2) AA batteries; approximate battery life 12+ hrs (less with rechargeable batteries);</li> </ul> USB PC interface
2.	1	Garmin PC USB interface cable
3.	1	Wrist Strap
4.	1	Users Manual / Quick Reference Guide / GPS Software Utility CD
5.	1	Rapid AA Battery Charger (110/230 AC input w/UK plug)
6.	4	2000 mAh / 1.2 volt high performance rechargeable AA batteries

Specification date: 27<sup>th</sup> March 2007  
 Prepared by: Public Health Engineering Team



Code SR/1

Poly Rope

Gross weight: 3 kg  
Volume: 0.008 m<sup>3</sup>  
Dimensions: 23 x 23 x 16 cm  
Approximate unit price: £5.90



Item	Qty	Description
1.	1 roll	6 mm diameter x 220 m long poly rope

Specification date: 1995  
Prepared by: Public Health Engineering Team

**S**

Code SESL/4

Family Shelter (Large)

Gross weight: 40.5 kg  
 Volume: 0.266 m<sup>3</sup>  
 Dimensions: 78 x 37 x 37 cm  
 Approximate unit price: £110  
 Lead Time 21 Days

**Lightweight Emergency Family Shelter / Tent (6-8 persons):**

Item	Qty	Description
1	1	Main tent: <ul style="list-style-type: none"> <li>- polyester rip-stop nylon;</li> <li>- fire retardant;</li> <li>- full width heavy duty (#10) zipper openings at both ends;</li> <li>- zippered window screens with weather flaps (2 on each side);</li> <li>- integrated pole sleeves; and</li> <li>- stove flue flap.</li> </ul> Inner tent /room divider: <ul style="list-style-type: none"> <li>- polyester and cotton mix (breathable);</li> <li>- fire retardant.</li> </ul> Floor: <ul style="list-style-type: none"> <li>- Woven High Density Polyethelyene;</li> <li>- 200 g/m2</li> <li>- fire retardant</li> </ul>
1	5	Fibreglass tent poles with metal end caps
1	10	Corrugated steel tent pegs
1	10	Polyester guy ropes
1	1	Carry bag with fabric handles
1	1	Instruction booklet.

**User's Notes**

1. This tent is suitable as an emergency family shelter to temporarily accommodate up to 8 people in temperate or tropical climates PROVIDED proper attention is paid to site selection, drainage, and access to water and sanitation.
2. While all materials in this tent meet fire retardant standards, adequate spacing between tents is crucial in camp situations to avoid risk of fire spreading.
3. Please refer to HD Public Health Engineering Team *Minimum Standards for Emergency Shelters* for additional guidance, or contact the PHE team at the Humanitarian Department for technical advice on other emergency shelter options.

**S****Packing and Marking**

Packed in a protective plastic covering. Covering to be marked: "OXFAM CODE SES/4" with gross weights and dimensions shown and Oxfam logo to be painted black.

Specification date: 24 August 2006  
 Prepared by: Public Health Engineering Team

## Code SPE-1/3

## Woven Flexible Tarpaulin

Gross weight: 55 kg  
 Volume: 0.189 m<sup>3</sup>  
 Dimensions: 210 x 30 x 30 cm  
 Approximate unit price: £93.62

Item	Qty	Description
1.	1	200 g/m <sup>2</sup> , 60 x 4m roll of reinforced woven flexible tarpaulin white, with UN grey bands

**Material**

Woven high-density polyethylene (HDPE) black fibres fabric laminated on both sides with low density polyethylene (LDPE) coating; 6 woven reinforcement bands (7.5 cm width). Specifications include:

- **weight:** 200 g/m<sup>2</sup> +5%, plus 10% for the reinforcement bands.
- **tensile & tear strength:** main fabric: minimum 50 DaN with minimum 70 DaN in reinforcement bands. Tear strength: min10 DaN in main fabric.
- **peeling strength:** Minimum 3 DaN, maximum 12 DaN resistance to peeling for the bands and welded seam.
- **elongation:** 10-25% in wrap & weft in main fabric.
- **welding:** One welded seam only (middle of the sheet, lengthways) with minimum resistance of 80% of the original tarpaulin tensile strength in weft.
- **UV resistance:** Maximum 5% loss on original tarpaulin tensile strength after 1500 hours UV exposure.
- **temperature resistance:** -20 to +80°C
- **flammability:** Flash point above 200°C.
- **colour:** White sun reflective both sides. Bands to be UN grey. Inner black film to ensure non transparency.

**Printing**

Manufacturer name, month and year of production every six metres. Length indicator marks every metre.



The Oxfam logo may be included if required. This must be specified at the time of ordering, and will result in a lead-time of at least three months for manufacture of the product.

**Packing and Marking**

Packed in a roll with protective plastic covering. Rolls to be marked "OXFAM CODE SPE-1/3" at the Oxfam Logistics Warehouse.

**Packing List**

One packing list/description in a plastic bag to be securely fixed to the outside of the roll.

Specification date: 24 January 2002  
 Prepared by: Public Health Engineering Team

Code SST1/1

Abney Level

Gross weight: 1 kg  
 Volume: 0.0009 m<sup>3</sup>  
 Dimensions: 180 x 10 x 5 cm  
 Approximate unit price: £72.00  
 Lead time 5 days



Item	Qty	Description
1	1	Survey tool to determine heights and angle / percentage/ gradient of slopes. Features include: <ul style="list-style-type: none"> <li>- 171mm/6.5 inch long for ease of use and improved accuracy from smaller models;</li> <li>- 0-90 degree semi-circular arc graduated in both directions permits vernier reading up to 10 minutes; grade 0-100%;</li> <li>- locking thumbscrew for scale pointer;</li> <li>- heavy duty construction;</li> </ul>
2	1	Leather case with belt loop.
3	1	User's Guide

#### User's Notes

A variety of other instruments used to transfer, measure and set levels are available as special orders. These include: *dumpy levels*, *automatic levels*, and *builders levels*. Contact the Public Health Engineering Advisor Team at the Humanitarian Department in Oxford for specifications on these instruments, or other survey tools.

Specification date: 27<sup>th</sup> March 2007  
 Prepared by: Public Health Team

Code SST3/1

Measuring Tape 30m/ 100ft

Gross weight:  
Volume:  
Dimensions:  
Approximate unit price: £16.00



Item	Qty	Description
1.	1	Fisco Futura steel measuring tape 30m/100 ft length. Features include: <ul style="list-style-type: none"><li>- Heavy duty ABS case with belt clip;</li><li>- 13mm blade with extra thick nylon coating claw-type end loop</li></ul>

Specification date: 27<sup>th</sup> March 2007  
Prepared by: Public Health Team

**S**

Code SST5/1

Measuring Tape – 50m/ 165ft

Gross weight:  
Volume:  
Dimensions:  
Approximate unit price: £42.00  
Lead time



Item	Qty	Description
1.	1	Fisco Pacer steel measuring tape 50m/165 ft length. Features include: <ul style="list-style-type: none"><li>- Heavy duty ABS open frame with spade handle;</li><li>- 13mm blade with extra thick nylon coating claw-type end loop</li></ul>

Specification date: 27<sup>th</sup> March 2007  
Prepared by: Public Health Team

**S**

**Code SPE-2/3 Reinforced (Braided) Flexible Tarpaulin**

**Non-stock item – This will be supplied only if the Woven Flexible Tarpauling (Oxfam code SPE-1) is temporarily unavailable.**

Shelter and Housing 1998 inter-agency specification reinforced (braided) flexible tarpaulin, mainly for temporary human shelter or other personal protection purposes.

Item	Qty	Description
1.	1	200 g/m <sup>2</sup> , 60 x 4m roll of reinforced (braided) flexible tarpaulin white, with UN grey bands

**Material:**

Low density polyethylene (LDPE) sheet, non transparent, reinforced with a scrim of multifilament threads made of high density polyethylene (HDPE) or polyester (PES) or polypropylene (PP). 6 woven reinforcement bands (7.5 cm width). Specifications include:

- **weight:** 200 g/m<sup>2</sup> +5%, plus 10% for the reinforcement bands.
- **tensile & tear strength:** main fabric: minimum 50 DaN with minimum 70 DaN in reinforcement bands. Tear strength: min10 DaN in main fabric.
- **peeling strength:** Minimum 3 DaN, maximum 12 DaN resistance to peeling for the bands and welded seam.
- **elongation:** 10-25% in wrap & weft in main fabric.
- **welding:** One welded seam only (middle of the sheet, lengthways) with minimum resistance of 80% of the original tarpaulin tensile strength in weft.
- **UV resistance:** Maximum 5% loss on original tarpaulin tensile strength after 1500 hours UV exposure.
- **temperature resistance:** -20 to +80°C
- **flammability:** Flash point above 200°C.
- **colour:** White sun reflective both sides. Bands to be UN grey. Inner black film to ensure non transparency.

**Printing**

Manufacturer name, month and year of production every six metres. Length indicator marks every metre.

The Oxfam logo may be included if required. This must be specified at the time of ordering, and will result in a lead-time of at least three months for manufacture of the product.

**S**

**Packing and Marking**

To be packed in a roll with protective plastic covering. Rolls to be marked "OXFAM CODE SPE-2/3" at the Oxfam Logistics Warehouse.

**Packing List**

One packing list/description in a plastic bag to be securely fixed to the outside of the roll.

Specification date: 24 January 2002

Prepared by: Public Health Engineering Team

## Category T

### Water Storage

Code T11/6	11 m <sup>3</sup> Tank Steels, Liner, Roof and Accessories	315
Code T45L/3	45 m <sup>3</sup> Tank Liner and Accessories	318
Code T45S/2	45 m <sup>3</sup> Tank Steels	320
Code T70L/3	70 m <sup>3</sup> Tank Liner and Accessories	321
Code T70S/2	70 m <sup>3</sup> Tank Steels	323
Code T95L/3	95 m <sup>3</sup> Tank Liner and Accessories	324
Code T95S/2	95 m <sup>3</sup> Tank Steels	326
Code TUR/1	Tank Universal Roof	327
Code TF/3	Tank Fittings Kit	329
Code TBT10/3	10 m <sup>3</sup> PVC Ground Bladder Tank	330
Code TP1/1	Tank Plinth Kit	332
Code TRR10/3	10 m <sup>3</sup> Onion PVC Tank	333
Code TRR30/3	30 m <sup>3</sup> Onion PVC Tank	335
Code TRT6/3	6 m <sup>3</sup> Trucking Bladder PVC Tank	337
Code TSR1/1	Tank Steel Roof	339
Code TWCT/1	14 Litre Water Container with Tap (Pallet of 200 Units)	341
Code TWC/2	14 Litre Water Container (Pallet of 200 Units)	343





Code T11/6 11 m<sup>3</sup> Tank Steels, Liner, Roof and Accessories

Gross weight: 344 kg  
 Volume: 0.983 m<sup>3</sup>  
 Dimensions: 163 x 90 x 67 cm  
 Approximate unit cost: £1236.01



Item	Qty	Description
1.	15	Corrugated, 0.8mm galvanised steel sheets curved to radius 1.3 m, measuring 1.51m long (1.36 m effective length) x 0.81 m high. Drilled with single row of 14 mm Ø holes down both shorter (vertical) sides of sheet, set at 60 mm from centre of hole to edge of sheet, and with single row of 14 mm Ø holes on both longer sides of sheet.
2.	2	Sheets as Item 1, but one hole drilled 95 mm Ø for receiving a 3" Ø Table D/E flanged spigot, i.e. with 4 No 17 mm Ø bolt holes on 146 mm bolt circle diameter, at mid point of long side of sheet 175 mm from edge to centre of hole.
3.	1	Sheet as Item 1, but one hole drilled 95 mm Ø for receiving 3" Ø Table D/E flanged spigots, i.e. with 4 No 17 mm Ø bolt holes on 146mm bolt circle diameter, centre of holes set at mid point of sheet. Hole blanked off with plate of corrugated steel bolted through from inside.
4.	1	8.5 m length of 25 mm Ø split plastic secondary wall capping
5.	1	8.5 m length of 12 mm Ø split plastic primary wall capping
6.	25	25 mm Ø steel spring clips
7.	1	Bag containing: <ul style="list-style-type: none"> <li>• 300 M10 Ø x 20 mm zinc plated round head bolts</li> <li>• 300 M10 zinc plated nuts</li> <li>• 300 M10 zinc plated washers</li> </ul>
8.	2	3" Ø BSP (F) brass gate valve
9.	1	55 m roll 50 mm wide cloth-based, self-adhesive tape
10.	1	3" M to 1" F GS reducing bush
11.	3	3" (F) threaded flange, 4 holes drilled for bolts (not threaded), Table D/E.
12.	3	3" Table D/E flange welded to 90 mm long 3" Ø pipe threaded 40 mm. 4 holes drilled for M16 bolts and 4 holes threaded for M16 studs. Weld shoulder not to exceed 6 mm x 6 mm
13.	12	M16 Ø steel studs 100mm long each complete with 2 x M16 Hex full nuts and 2 x M16 washers Type B (thin)
14.	6	3" Ø BS Table D/E full face synthetic rubber gaskets with 4 holes
15.	1	1.25 mm thick (tolerance -2% to +10%) scrim reinforced EPDM synthetic rubber tank liner, suitable for potable water use, welded to closely fit 2.6 m

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Item	Qty	Description
		∅ x 2.3 m tank ring and allowing minimum 300 mm turndown on outside
16.	1	Repair kit for item 15 comprising: <ul style="list-style-type: none"> <li>• 1 m<sup>2</sup> EPDM material</li> <li>• 10 m roll of 50 mm wide patching tape</li> </ul>
17.	2	12 m rolls PTFE jointing tape (12 mm wide)
18.	2	17 mm open ended podger/spanners
19.	1	3" ∅ BSP (F) malleable iron hose connector to fit 90 mm hose, with washer.
20.	1	Hose clip, bolt type, for 90 mm hose (86–91 mm)
21.	4m	90 mm reinforced, non-collapsible flexible hose
22.	50m	6 mm polypropylene rope ultra-violet stabilised
23.	6	Pegs 450 mm x 10 mm
24.	1	Oxfam Water Storage Pack Manual (Oxfam code TSM) and User's Notes to be placed inside a grip-seal (plastic) bag
25.	100m	6 mm ∅ polypropylene rope, uv-stabilised
26.	12	Eye nuts, eye metal having circular cross section, with 20–25 mm internal diameter to accept M10 ∅ bolts
27.	1	3.2 m ∅ reinforced, conically shaped to suit roof pitch, uPVC cover with hem. 12 brass eyelets spaced equidistantly 50 mm in from perimeter clamped through two layers of uPVC material and one brass eyelet positioned in centre of cover which is reinforced with extra layer of uPVC at this central point. Inspection opening provided by having a 400 mm diameter hole just above the tank edge with a 600 mm square flap top hinged above the hole with an eyelet at both bottom corners, for tying down to the roof cover eye nuts.
28.	1	Repair kit for uPVC cover comprising: <ul style="list-style-type: none"> <li>• 1 m<sup>2</sup> uPVC cover material</li> <li>• 1 roll waxed whipping twine</li> <li>• 1 packet of 3 needles</li> </ul>
29.	2	1.4 m length 50 x 6 mm galvanised steel with inverted "U" section having 30 mm wide base, welded one end and 2 x 14 mm ∅ holes drilled at other end
30.	2	1.4 m length 50 x 6 mm galvanised steel with inverted "U" section having 30 mm wide base, welded one end, a right angle bend formed 150 mm from the other end with 2 x 14 mm holes drilled at this end
31.	1	0.2 m length 50 x 6 mm galvanised steel with 2 x 14 mm ∅ holes drilled and perpendicular tube, 550mm long, welded at end
32.	1	200 mm ∅ galvanised steel disc, 3 mm thick, drilled 14 mm ∅ at centre and supplied with M10 bolt
33.	4	M10 ∅ x 50 mm zinc plated round head bolts, each complete with nut and washer

T

#### User's Notes

This kit may be used in conjunction with the Distribution Kit (code DS) and Distribution Pipe (code DP), which, if required, must be ordered separately.

**Packing and Marking**

All items to be packed in one sturdy timber crate with minimum 100 mm risers, for off-loading with jack poles. Items 11, 12, 13 and 14 to be pre-assembled. All items to be adequately protected against damage in transit.

Crate to be marked "OXFAM CODE T11-x/6 (x denotes supplier's code)" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

Steel sheets to be colour coded on external surface to one end to identify supplier (colour codes allocated subsequent to tender).

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the crate.  
One packing list, including Oxfam User's Notes, to be enclosed in the crate.

Specification date: 27<sup>th</sup> July 2006  
Prepared by: Public Health Engineering Team



Code T45L/3

45 m<sup>3</sup> Tank Liner and Accessories

Gross weight: 233 kg  
 Volume: 1.177 m<sup>3</sup>  
 Dimensions: 147 x 92 x 87 cm  
 Approximate unit cost: £1310.00



Item	Qty	Description
1.	1	21 m length of 12 mm Ø split plastic primary wall capping
2.	1	21 m length of 25 mm Ø split plastic secondary wall capping
3.	60	25 mm Ø steel spring clips
4.	1	Bag containing: <ul style="list-style-type: none"> <li>• 350 M10 Ø x 20 mm zinc plated round head bolts</li> <li>• 350 M10 zinc plated nuts,</li> <li>• 350 M10 zinc plated washers</li> </ul>
5.	2	3" Ø BSP (F) brass gate valve
6.	2	55 m roll 50 mm wide cloth-based self-adhesive tape
7.	3	3" Ø BSP (F) Table D/E flange, 4 plain holes drilled for bolts
8.	3	3" Ø Table D/E flange welded to 90 mm long 3" Ø pipe threaded 40mm at the free end, 4 holes drilled for M16 bolts and 4 holes threaded for M16 studs. Weld shoulder not to exceed 6 mm x 6 mm
9.	12	M16 Ø steel studs 100 mm long each complete with 2 M16 hex full nuts and 2 x M16 washers type B (thin)
10.	6	3" Ø Table D/E synthetic rubber gaskets – 4 holes, 2 mm thick
11.	1	1.25 mm thick (tolerance -2% to +10%) scrim reinforced EPDM synthetic rubber tank liner, suitable for potable water use, welded to fit 6.4 m Ø x 1.5 m high tank ring and allowing minimum 300 mm turndown on outside
12.	1	Repair kit for Item 11, comprising: <ul style="list-style-type: none"> <li>• 1 m<sup>2</sup> EPDM material</li> <li>• 10 m roll of 50 mm wide patching tape</li> </ul>
13.	2	12 m roll PTFE jointing tape, 12 mm wide
14.	100 m	6 mm polypropylene rope, ultra-violet stabilised
15.	14	Steel pegs 450 mm long x 10 mm Ø
16.	2	17 mm open ended podger/spanner
17.	1	Oxfam Water Storage Pack Manual, to be placed inside a grip-seal (plastic) bag

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**User's Notes**

- Where linkage with other storage tanks is intended, the Tank Fittings Kit (code TF) should be ordered separately.
- Where chlorination is intended, either the SDD Chlorine Granules (code FCH) used in conjunction with the chlorine constant rate dosing device (code FCCD), and/or the Chlorine Tablets (code FCT) used in conjunction with the Floating Pot Chlorinator (code FFP) should be ordered.
- Do not forget to order the Site Tool Kit (code OS), which is designed for all site installations.
- The Ladder Kit (code OL) is also recommended for tank erection.

**Packing and Marking**

All items to be packed in one sturdy timber crate with minimum 100 mm risers, for off-loading with jack poles. Items 7, 8, 9 and 10 to be pre-assembled.

Crate to be marked "OXFAM CODE T45L/3" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the crate.

One packing list, including Oxfam User's Notes, to be enclosed in the crate in a grip-seal plastic bag.

Specification date: 3<sup>rd</sup> October 2006

Prepared by: Public Health Engineering Team



Code T45S/2

45 m<sup>3</sup> Tank Steels

Gross weight: 266 kg  
 Volume: 1.460 m<sup>3</sup>  
 Dimensions: 295 x 90 x 55 cm  
 Approximate unit cost: £344.12



Item	Qty	Description
1.	11	6.4 m $\varnothing$ x 0.8 mm corrugated galvanised steel sheets measuring 3.0 m long x 0.8 m high, drilled with 14 mm holes on all sides (plain). Minimum tensile strength of all panels should be 90kN including a safety margin of 25% over maximum required design strength – this permits the sheets to be interchangeable and used in tanks up to 95m <sup>3</sup> .
2.	2	Sheet as Item 1, but one hole drilled 95 mm $\varnothing$ for receiving a 3" $\varnothing$ Table D/E flanged spigot, i.e. with 4 No 17 mm $\varnothing$ bolt holes on 146 mm bolt circle diameter, at mid point of long side of sheet 175 mm from edge to centre of hole.
3.	1	Sheet as Item 2 drilled identically, but with centre of hole at centre of sheet. Hole to be blanked off with 225 mm square plate made from same material and fixed in place with 4 No M10 x 20 mm round head bolts and nuts.

#### User's Notes

- Where linkage with other storage tanks is intended the Tank Fittings Kit (code TF) should be ordered separately.
- Where chlorination is intended, either the SDD Chlorine Granules (code FCH) for batch dosing, or the Chlorine Tablets (code FCT) slow dissolving, used in conjunction with the Floating Pot Chlorinator (code FFP) should be ordered.
- Do not forget to order the Site Tool Kit (code OS), which is designed for all site installations.
- The Ladder Kit (code OL) is also recommended for tank erection.

**T**

#### Packing and Marking

All items to be packed in one substantial pallet with minimum clearance of 100 mm for forklift. The whole to be securely strapped together with steel bands and the ends protected with timber. Crate to be marked "OXFAM CODE T45S/2" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

Steel sheets to be colour coded on external surface to one end to identify supplier (colour codes allocated subsequent to tender).

Specification date: 3<sup>rd</sup> October 2006  
 Prepared by: Public Health Engineering Team

Code T70L/3

70 m<sup>3</sup> Tank Liner and Accessories

Gross weight: 257 kg  
 Volume: 0.835 m<sup>3</sup>  
 Dimensions: 147 x 71 x 80 cm  
 Approximate unit cost: £1521.67



Item	Qty	Description
1.	1	21 m length of 12 mm $\varnothing$ split plastic primary wall capping
2.	1	21 m length of 25 mm $\varnothing$ split plastic secondary wall capping
3.	60	25 mm $\varnothing$ steel spring clips
4.	1	Bag containing: <ul style="list-style-type: none"> <li>• 560 M10 <math>\varnothing</math> x 20 mm zinc plated round head bolts,</li> <li>• 560 M10 zinc plated nuts</li> <li>• 560 M10 zinc plated washers</li> </ul>
5.	2	3" $\varnothing$ BSP (F) brass gate valve
6.	3	55 m roll 50 mm wide cloth-based self-adhesive tape
7.	3	3" $\varnothing$ BSP (F) Table D/E flange, 4 plain holes drilled for bolts
8.	3	3" Table D/E flange welded to 90 mm long 3" $\varnothing$ pipe threaded 40 mm, at the free end, 4 holes drilled for M16 bolts and 4 holes threaded for M16 studs. Weld shoulder not to exceed 6 mm x 6 mm
9.	12	M16 $\varnothing$ steel studs 100 mm long each complete with 2 x M16 hex full nuts and 2 x M16 washers type B (thin)
10.	6	3" $\varnothing$ Table D/E synthetic rubber gaskets – 4 holes, 2 mm thick
11.	1	1.25 mm thick (tolerance -2% to +10%) scrim reinforced EPDM synthetic rubber tank liner, suitable for potable water use, welded to fit 6.4 m $\varnothing$ x 2.3 m high tank ring and allowing minimum 300mm turndown on outside, with eyelets spaced at 1 m centres around edge
12.	1	Repair kit for Item 11 comprising: <ul style="list-style-type: none"> <li>• 1 m<sup>2</sup> EPDM material</li> <li>• 10 m roll of 50 mm wide patching tape</li> </ul>
13.	3	12 m roll PTFE jointing tape, 12 mm wide
14.	100 m	6 mm polypropylene rope ultra-violet stabilised
15.	14	Steel pegs 450 mm long x 10 mm $\varnothing$
16.	2	17 mm open ended podger/spanners
17.	1	Oxfam Water Storage Pack Manual, to be placed in a grip-seal (plastic) bag

T

**User's Notes**

- Where linkage with other storage tanks is intended the Tank Fittings Kit (code TF) should be ordered separately.
- Where chlorination is intended, either the SDD Chlorine Granules (code FCH), used in conjunction with the chlorine constant rate dosing device (code FCCD), and/or the Chlorine Tablets (code FCT) slow dissolving tablets used in conjunction with the Floating Pot Chlorinator (code FFP), should be ordered.
- Do not forget to order the Site Tool Kit (code OS), which is designed for all site installations.
- In the absence of suitable erection platforms readily available on site, the Scaffolding Tower Kit (code OT) and the Ladder Kit (code OL) are recommended.

**Packing and Marking**

All items to be packed in one sturdy timber crate with minimum 100 mm risers. Items 7, 8, 9 and 10 to be pre-assembled.

Crate to be marked "OXFAM CODE T70L/3" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the crate.

One packing list, including Oxfam User's Notes, to be enclosed in the crate in a grip-seal plastic bag.

Specification date: 3<sup>rd</sup> October 2006

Prepared by: Public Health Engineering Team



Code T70S/2

70 m<sup>3</sup> Tank Steels

Gross weight: 390 kg  
 Volume: 1.336 m<sup>3</sup>  
 Dimensions: 55 x 300 x 81 cm  
 Approximate unit cost: £523.32

Item	Qty	Description
1.	18	6.4 m $\varnothing$ x 0.8 mm corrugated galvanised steel sheets measuring 3.0 m long x 0.8 m high, drilled with 14 mm holes on all sides (plain) Minimum tensile strength of all panels should be 90kN including a safety margin of 25% over maximum required design strength – this permits the sheets to be interchangeable and used in tanks up to 95m <sup>3</sup> .
2.	2	Sheets as Item 1, but one hole drilled 95 mm $\varnothing$ for receiving a 3" $\varnothing$ Table D/E flanged spigot, i.e. with 4 No 17 mm $\varnothing$ bolt holes on 146 mm bolt circle diameter, at mid point of long side of sheet 175 mm from edge to centre of hole.
3.	1	Sheet as Item 2 drilled identically, but with centre of hole at centre of sheet. Hole to be blanked off with 225 mm square plate made from same material and fixed in place with 4 No M10 x 20 mm round head bolts and nuts.

#### User's Notes

- Where linkage with other storage tanks is intended the Tank Fittings Kit (code TF) should be ordered separately.
- Where chlorination is intended, either the SDD Chlorine Granules (code FCH) for batch dosing, or the Chlorine Tablets (code FCT), slow dissolving, used in conjunction with the Floating Pot Chlorinator (code FFP), should be ordered.
- Do not forget to order the Site Tool Kit (code OS), which is designed for all site installations.
- In absence of suitable erection platforms readily available on site, the Scaffolding Tower Kit (code OT) and the Ladder Kit (code OL) are recommended.

#### Packing and Marking

All items to be packed in one substantial pallet (with minimum clearance of 100 mm for forklift) with item 3 at the bottom. The whole to be securely strapped together with steel bands and the ends protected with timber. Pallet to be marked "OXFAM CODE T70S/2" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

Steel sheets to be colour coded on external surface to one end to identify supplier (colour codes allocated subsequent to tender).

Specification date: 17 November 1997  
 Prepared by: Public Health Engineering Team



Code T95L/3

95 m<sup>3</sup> Tank Liner and Accessories

Gross weight: 306 kg  
 Volume: 1.191 m<sup>3</sup>  
 Dimensions: 147 x 91 x 89 cm  
 Approximate unit cost: £1699.19

Item	Qty	Description
1.	1	21 m length of 12 mm Ø split plastic primary wall capping
2.	1	21 m length of 25 mm Ø split plastic secondary wall capping
3.	60	25 mm Ø steel spring clips
4.	1	Bag containing: <ul style="list-style-type: none"> <li>• 780 M10 Ø x 20 mm zinc plated round head bolts,</li> <li>• 780 M10 zinc plated nuts</li> <li>• 780 M10 zinc plated washers</li> </ul>
5.	2	3" Ø BSP (F) brass gate valve
6.	3	55 m roll 50 mm wide cloth-based self-adhesive tape
7.	3	3" Ø BSP (F) Table D/E flange, 4 plain holes drilled for bolts
8.	3	3" Ø Table D/E flange welded to 90 mm long 3" pipe threaded 40 mm at the free end, 4 holes drilled for M16 bolts and 4 holes threaded for M16 studs. Weld shoulder not to exceed 6 mm x 6 mm
9.	12	M16 Ø steel studs 100 mm long each complete with 2 x M16 hex full nuts and 2 x M16 washers type B (thin)
10.	6	3" Ø Table D/E synthetic rubber gaskets – 4 holes, 2 mm thick
11.	1	1.25 mm thick (tolerance –2% to +10%) scrim reinforced EPDM synthetic rubber tank liner, suitable for potable water use, welded to fit 6.4 m Ø x 3.0 m high tank ring and allowing minimum 300 mm turndown on outside with eyelets spaced at 1 m centres around edge
12.	1	Repair kit for Item 11 comprising: <ul style="list-style-type: none"> <li>• 1 m<sup>2</sup> EPDM material</li> <li>• 10 m roll of 50 mm wide patching tape</li> </ul>
13.	3	12 m roll PTFE jointing tapes, 12 mm wide
14.	100 m	6 mm polypropylene rope, ultra-violet stabilised
15.	14	Steel pegs 450 mm long x 10 mm Ø
16.	2	17 mm open ended podger/spanners
17.	1	Oxfam Water Storage Pack Manual, to be placed inside a grip-seal (plastic) bag



## User's Notes

- Where linkage with other storage tanks is intended the Tank Fittings Kit (code TF) should be ordered separately.
- Where chlorination is intended, either the SDD Chlorine Granules (code FCH), used in conjunction with the chlorine constant rate dosing device (code FCCD), and/or the Chlorine Tablets (code FCT), slow dissolving, used in conjunction with the Floating Pot Chlorinator (code FFP), should be ordered.

- Do not forget to order the Site Tool Kit (code OS), which is designed for all site installations.
- In absence of suitable erection platforms readily available on site, the Scaffolding Tower Kit (code OT) and the Ladder Kit (code OL) are recommended.

#### Packing and Marking

All items to be packed in one sturdy timber crate with minimum 100 mm risers. Items 7, 8, 9 and 10 to be pre-assembled.

Crate to be marked "OXFAM CODE T95L/3" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the crate.

One packing list, including Oxfam User's Notes, to be enclosed in the crate in a grip-seal plastic bag.

Specification date: 3<sup>rd</sup> October 2006

Prepared by: Public Health Engineering Team



Code T95S/2

95 m<sup>3</sup> Tank Steels

Gross weight: 481 kg  
 Volume: 1.497 m<sup>3</sup>  
 Dimensions: 298 x 81 x 62 cm  
 Approximate unit cost: £593.20

Item	Qty	Description
1.	25	6.4 m $\varnothing$ x 0.8 mm corrugated galvanised steel sheets measuring 3.0 m long x 0.8 m high, drilled with 14 mm holes on all sides (plain). Minimum tensile strength of all panels should be 90kN including a safety margin of 25% over maximum required design strength – this permits the sheets to be interchangeable and used in tanks up to 95m <sup>3</sup> .
2.	2	Sheet as Item 1, but one hole drilled 95 mm $\varnothing$ for receiving a 3" $\varnothing$ Table D/E flanged spigot, i.e. with 4 No 17 mm $\varnothing$ bolt holes on 146 mm bolt circle diameter, at mid point of long side of sheet 175 mm from edge to centre of hole.
3.	1	Sheet as Item 2 drilled identically, but with centre of hole at centre of sheet. Hole to be blanked off with 225 mm square plate made from same material and fixed in place with 4 No M10 x 20 mm round head bolts and nuts.

#### User's Notes

- Where linkage with other storage tanks is intended the Tank Fittings Kit (code TF) should be ordered separately.
- Where chlorination is intended, either the SDD Chlorine Granules (code FCH) for batch dosing, or the Chlorine Tablets (code FCT), slow dissolving, used in conjunction with the Floating Pot Chlorinator (code FFP), should be ordered.
- Do not forget to order the Site Tool Kit (code OS), which is designed for all site installations.
- In absence of suitable erection platforms readily available on site, the Scaffolding Tower Kit (code OT) and the Ladder Kit (code OL) are recommended.



#### Packing and Marking

All items to be packed in one substantial pallet (with minimum clearance of 100 mm for forklift) with item 3 at the bottom. The whole to be securely strapped together with steel bands and the ends protected with timber. Pallet to be marked "OXFAM CODE T95S/2" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

Steel sheets to be colour coded on external surface to one end to identify supplier (colour codes allocated subsequent to tender).

Specification date: 3<sup>rd</sup> October 2006  
 Prepared by: Public Health Engineering Team

Code TUR/1

Tank Universal Roof

Gross weight: 83kg  
 Volume: m<sup>3</sup>  
 Dimensions: 134 x 65 x 51cm  
 Approximate unit cost: £570

Item	Qty	Description
1.	1	7.5 m $\varnothing$ reinforced, conically shaped to suit roof pitch, uPVC cover with hem. 28 brass eyelets equi-spaced 50 mm in from perimeter clamped through two layers of uPVC material and one brass eyelet positioned in centre of cover. Inspection opening provided by a 500 mm diameter hole just above the tank edge with a 750 mm square flap top hinged above the hole with an eyelet at both bottom corners for tying down to the roof cover eye nuts.
2.	250 m	6 mm $\varnothing$ uv-stabilised Polypropylene rope. Cut into 28 x 7.5 m lengths (fitted to ridge plate) with ends heat-treated to avoid fraying, and 1 x 40 m coil of rope
3.	2	1.31 lengths x 4" $\varnothing$ uPVC pipe
4.	2	0.75 m lengths x 4" $\varnothing$ uPVC pipe
5.	3	4" plain uPVC sockets.
6.	28	Eye nuts, eye metal having circular cross section, with 25 mm internal diameter eye, tapped to accept M10 bolt
7.	1	Repair kit for uPVC cover comprising 1 m <sup>2</sup> uPVC material, 1 roll of twine and 3 needles
8.	1	PR3 coated base stand 600 mm $\varnothing$ with 4" $\varnothing$ uPVC socket attached
9.	1	PR3 coated ridge stand 450 mm $\varnothing$ with 4" $\varnothing$ uPVC socket attached and drilled with 28 holes to accept polypropylene ropes, located pe.g. fitted to ridge. 28 lengths of rope to be pre-tied to ridge stand

#### User's Notes

This universal roof kit fits all T45, T70 and T95 tank kits.  
 When used with a T95 tank all centre poles and sockets will be required.  
 When used with a T70 tank one of the 0.75 poles and one 4" socket can be discarded.  
 When used with a T45 tank both 0.75 poles and two of the 4" sockets can be discarded.  
 For general hygiene and to reduce algae growth, a Tank Roof Kit is recommended where the tank is used for water storage. Where the tank is used for general treatment purpose (e.g. sedimentation, filtration, etc.), a Tank Roof Kit may not be necessary.  
 The Tank Roof Kit is not designed to withstand snow falls which will cause substantial damage to both the roof and the tank. The roof cover should be removed during the snow fall seasons.  
 The overall fall of the roof should be 1.26 m. Poles should **not** be cut on site to reduce roof pitch, as this may cause ponding of water on the roof and subsequent damage of tank sheets.  
 The uPVC roof cover should be positioned so that the cover eyelets are **not** above the eyenuts, but rather are positioned above and between adjacent eyenuts. The rope from the ridge stand will then pass over the tank edge and be tied off at the eyenut, leaving



about 2.5 metres surplus. Then once the roof cover has been positioned, the surplus rope should be taken diagonally up to the cover eyelet and then diagonally back down to the adjacent eyelet and tied off.

An inspection hatch has been added to avoid having to loosen the roof each time the inside of the tank needs to be examined or where chemical dosing needs to be undertaken.

#### Packing and Marking

All items to be packed in one sturdy timber crate with minimum 100 mm risers. Crate to be marked "OXFAM CODE TUR/1" with gross weight and dimensions clearly shown.

Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the crate.

One packing list, including Oxfam User's Notes, to be enclosed in the crate in a grip-seal plastic bag.

Specification date: 26<sup>th</sup> July 2006

Prepared by: Public Health Engineering Team



Code TF/3

Tank Fittings Kit

Gross weight: 54 kg  
 Volume: 0.118 m<sup>3</sup>  
 Dimensions: 62 x 42 x 44 cm  
 Approximate unit cost: £347.98



Item	Qty	Description
1.	2	3" Ø BSP (F) GS equal tee
2.	13	3" Ø BSP (M) GS hexagonal nipple
3.	2	3" Ø BSP (F) GS cap
4.	10	3" Ø BSP (F) malleable iron hose connector to fit 90 mm hose (1 spare)
5.	12	3" Ø bolted hose clip for 90 mm hose (86–91 mm)
6.	2	3" Ø BSP (M) to 3" compression joint uPVC coupling, FIP
7.	1	3" Ø BSP (F) GS 90° elbow
8.	1	3" Ø uPVC pipe, 500mm long, threaded 3" Ø BSP (M) over 75 mm at one end
9.	2	3" Ø BSP (F) brass gate valves
10.	5	12 m rolls PTFE tape, 12 mm wide

#### User's Notes

**1 coil of 3" 30 m Suction Hose (Oxfam code G3.15) must be ordered for use with this kit.**

#### Packing and Marking

All items to be packed in one sturdy timber crate, marked "OXFAM CODE TF/3" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the crate.  
 One packing list to be enclosed in the crate in a grip-seal plastic bag.

Specification date: 16 February 2000  
 Prepared by: Public Health Engineering Team

Code TBT10/3

10 m<sup>3</sup> PVC Ground Bladder Tank

Gross weight: 95 kg  
 Volume: 0.439 m<sup>3</sup>  
 Dimensions: 125 x 65 x 54 cm  
 Approximate unit cost: £675.93

A good quality PVC bladder tank 10 m<sup>3</sup> with 4" captive screwed cap for storage of treated water.

Fitted with:

Item	Qty	Description
1.	1	10m <sup>3</sup> bladder tank, manufactured from UV resistant, food grade PVC coated polyester fabric (minimum 1100 g/m <sup>2</sup> ). All materials used should be suitable for chlorinated drinking water. All seams to be either heat or high frequency welded. Tank to be fitted with the following items: <ul style="list-style-type: none"> <li>• 1 x 3" External BSP Male stub fitting manufactured from LM25 (or equivalent) aluminium, with anti-chafe patch and flap</li> <li>• 1 x 4" (internal measurement) screwed filler cap with captive cord</li> </ul>
2.	1	3" Female Gate Valve, PN16
3.	1	3" (M) to 1" (F) BSP Hex Reducing Bush, GI
4.	1	32mm to 1" BSP (M) coupler for MDPE tube
5.	1	32mm equal T compression coupling for MDPE tube
6.	1	Protective groundsheet extending to 1m all round tank dimensions when empty
7.	1	Repair kit – no glue supplied
8.	1	Set of instructions

#### User's Notes

This bladder tank is designed specifically for use on the ground, not for transporting water. It is essential that the ground is reasonably level, otherwise the tank will roll away when filled. A groundsheet is supplied to protect the tank

The kit comes with the *fittings* to install 2 Oxfam tapstands, but the tapstands (Oxfam Code DS) and 32mm tube (Oxfam Code DP) must be ordered separately

Where possible the tank should be elevated to 1.5m above the level of the tapstands to provide sufficient head for gravity feed.

If trucking of water is required, use the Oxfam code TRT6 Trucking Bladder Tank

If water treatment (with the exception of simple chlorination) is required, use the Oxfam code TRR30, 30m<sup>3</sup> Onion Tank

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#### Packing and Marking

All items to be packed in one sturdy plywood case, securely strapped and sealed. Case to be marked "OXFAM CODE TBT10/2" with gross weight and dimensions clearly shown. Markings to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the case.  
One packing list in a plastic bag to be enclosed in the case.

**Local Purchasing Advice**

Suitable alternatives may be available in some locations but it is advised that food grade, UV resistant materials are used.

Specification date: 10 January 2007  
Prepared by: Public Health Engineering Team



## Code TP1/1

## Tank Plinth Kit

Gross weight: 460 kg  
 Volume: m<sup>3</sup>  
 Dimensions: 300 x 82 x 60 cm  
 Approximate unit cost: £818.00

Item	Qty	Description
1.	18	Galvanized steel segments each 75cm wide x 310 cm long x 1.2mm thick, rolled to 4.12m radius and drilled appropriately to produce a ring 8.23m diameter. Colour coded red.
2.	450	M10 round head bolts with nuts and washers
3.	50	Sandbags, 50KG size from UV resistant, rotproof material
4.	1	Plinth assembly instruction booklet

## User's Notes

- This kit is designed for use with all 6.4 diameter Oxfam tanks, the T45, T70 and T95, to provide a suitable means of rapidly elevating tanks to improve gravity flow.
- **Tank plinths constructed with this kit must not exceed a total height of 1.5m**
- The kit may be divided in two to create two plinths of approximately 75cm
- The plinth kit should only be erected on compact, level ground.
- The tank plinth must be dug in to approx. 10cm, and filled with dry or slightly damp earth in layers, compacted every 15cm. Earth types which swell when wet should be avoided.
- Filled sandbags must be placed in an interlocking pattern around the exterior of the tank plinth and compacted
- Particular attention must be paid to drainage around the plinth, any risk of flooding or undermining is to be avoided.
- Tanks erected on plinths must have effective overflows fitted and any risk of water spillage minimised
- The sheets will be colour coded red to avoid confusion with other steel sheets

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## Packing and Marking

All items to be packed in one sturdy timber crate with minimum 100 mm risers. Crate to be marked "OXFAM CODE TP-1/1" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

## Packing List

One packing list in a plastic bag to be securely fixed to the outside of the crate.  
 One packing list, including Oxfam User's Notes, to be enclosed in the crate in a grip-seal plastic bag.

Specification date: 14<sup>th</sup> May 2007  
 Prepared by: Public Health Engineering Team

Code TRR10/3

10 m<sup>3</sup> Onion PVC Tank

Gross weight: 124kg  
 Volume: m<sup>3</sup>  
 Dimensions: 127 x 88 x 84 cm  
 Approximate unit cost: £1425

An Onion Tank, 10 m<sup>3</sup>, self-supporting open-topped, manufactured from food quality PVC.

Fitted with:

Item	Qty	Description
1.	1	10m <sup>3</sup> self-supporting onion tank. Manufactured from UV resistant, food grade PVC coated polyester fabric (minimum 1100 g/m <sup>2</sup> ). All materials used should be suitable for chlorinated drinking water. All seams to be either heat or high frequency welded. Tank to be fitted with the following: <ul style="list-style-type: none"> <li>• 2 x 3" BSP Male external stubs fitted (opposite each other) fitting manufactured from LM25 (or equivalent) aluminium. Anti-chafe patches and flaps (PVC)</li> <li>• 2 x 3" BSP Female internal stubs (fitted back to back with Item 1). Stubs manufactured from aluminium (LM25 Grade)</li> </ul>
2.	2	Each external stub to be fitted with 3" BSP Female gate valve PN16
3.	1	Cover, food quality PVC with fixing hasps, to extend to 15cm down the sides of the tank
4.	1	Groundsheet
5.	1	Holdall
6.	2	3" M x 1" F BSP Hex Reducing Bush – GI
7.	2	32mm to 1" BSP (M) coupler for MDPE tube
8.	2	32mm equal T compression coupling for MDPE tube
9.	1	Repair kit – no glue
10.	1	Set of instructions

## User's Notes

This onion tank is designed specifically for use on the ground, not for transporting water. It is essential that the ground is level, otherwise the tank will roll away when filled. A groundsheet is supplied to protect the tank.

This tanks is for use when it is necessary to treat water, and has a removeable top to facilitate cleaning.

The kit comes with the *fittings* to install 2 Oxfam tapstands, but the tapstands (Oxfam Code DS) and 32mm tube (Oxfam Code DP) must be ordered separately

Where possible the tank should be elevated to 1.5m above the level of the tapstands to provide sufficient head for gravity feed.

If trucking of water is required, use the Oxfam code TRT6 Trucking Bladder Tank



If water storage or simple chlorination is required, use the Oxfam code TBT10, 10m<sup>3</sup> Ground Bladder Tank.

#### Packing and Marking

All items to be packed in one sturdy plywood case, securely strapped and sealed. Case to be marked "OXFAM CODE TRR10/2" with gross weight and dimensions clearly shown. Markings to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the case.  
One packing list in a plastic bag to be enclosed in the case.

#### Local Purchasing Advice

Suitable alternatives may be available in some locations but it is advised that food grade, UV resistant materials are used.

Specification date: 21st May 2007  
Prepared by: Public Health Engineering Team



Code TRR30/3

30 m<sup>3</sup> Onion PVC Tank

Gross weight: 173 kg  
 Volume: 1.298 m<sup>3</sup>  
 Dimensions: 95 x 122 x 112 cm  
 Approximate unit cost: £1682.34

An Onion Tank, 30 m<sup>3</sup>, self-supporting open-topped, manufactured from food quality PVC.

Measuring 5.5 m base dia. x 4.6 m top dia. x 1.5 m high

Item	Qty	Description
1.	1	30m <sup>3</sup> self-supporting onion tank measuring 5.5m base dia. x 4.6m top dia. Manufactured from UV resistant, food grade PVC coated polyester fabric (minimum 1100 g/m <sup>2</sup> ). All materials used should be suitable for chlorinated drinking water. All seams to be either heat or high frequency welded. Tank to be fitted with the following: <ul style="list-style-type: none"> <li>• 2 x 3" BSP Male external stubs fitted (opposite each other) fitting manufactured from LM25 (or equivalent) aluminium. Anti-chafe patches and flaps (PVC)</li> <li>• 2 x 3" BSP Female internal stubs (fitted back to back with Item 1). Stubs manufactured from aluminium (LM25 Grade)</li> <li>• 2 extra welded patches for additional stubs</li> </ul>
2.	2	Each external stub will be fitted with 3" BSP Female gate valve PN16
3.	1	Cover, food quality PVC with fixing hasps
4.	1	Groundsheet
5.	1	Holdall
6.	1	3" M x 1" F BSP Hex Reducing Bush – GI
7.	1	32mm to 1" BSP (M) coupler for MDPE tube
8.	1	32mm equal T compression coupling for MDPE tube
9.	1	Repair kit – no glue
10.	1	Set of instructions



#### User's Notes

This onion tank is designed specifically for use on the ground, not for transporting water. It is essential that the ground is level, otherwise the tank will roll away when filled. A groundsheet is supplied to protect the tank.

This tanks is for use when it is necessary to treat water, and has a removeable top to facilitate cleaning.

The kit comes with the *fittings* to install 2 Oxfam tapstands, but the tapstands (Oxfam Code DS) and 32mm tube (Oxfam Code DP) must be ordered separately

Where possible the tank should be elevated to 1.5m above the level of the tapstands to provide sufficient head for gravity feed.

If trucking of water is required, use the Oxfam code TRT6 Trucking Bladder Tank

If water storage or simple chlorination is required, use the Oxfam code TBT10, 10m<sup>3</sup> Ground Bladder Tank.

#### Packing and Marking

All items to be packed in one sturdy plywood case, securely strapped and sealed. Case to be marked "OXFAM CODE TRR30/3" with gross weight and dimensions clearly shown. Markings to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the case.  
One packing list in a plastic bag to be enclosed in the case.

#### Local Purchasing Advice

Suitable alternatives may be available in some locations but it is advised that food grade, UV resistant materials are used.

Specification date: 10 January 2007  
Prepared by: Public Health Engineering Team



Code TRT6/3

6 m<sup>3</sup> Trucking Bladder PVC Tank

Gross weight: 90 kg  
 Volume: 0.463 m<sup>3</sup>  
 Dimensions: 117 x 67 x 59 cm  
 Approximate unit cost: £960.00



One bladder tank, 6m<sup>3</sup> for trucking, manufactured from food quality PVC, fitted with 3¾" outlet and cap on top of tank.

Measuring 4 m length x 2.2 m width x 0.65 m high (6 tonne maximum)

Fitted with:

Item	Qty	Description
1.	1	6m <sup>3</sup> trucking bladder tank, measuring 4 m length x 2.2 m width x 0.65 m high (6 tonne maximum) manufactured from UV resistant, food grade PVC coated polyester fabric (minimum 1100 g/m <sup>2</sup> ). All materials used should be suitable for chlorinated drinking water. All seams to be either heat or high frequency welded. Tanks to be fitted with the following: <ul style="list-style-type: none"> <li>• 1 x 4" (internal measurement) screwed filler cap with captive cord</li> <li>• 2 x 3" BSP male stub fitting (both at the same end) manufactured from LM25 aluminium fitted with anti-chafe patch and flaps</li> <li>• 2 x Overpressure relief valves (2 psi) automatic c/w rubber attached plug</li> <li>• Heavy duty 50 mm polyester webbing with becketed eye loops and 2 x 50 mm heavy duty webbing straps (two each end) with becketed eye loops for securing basis – 14 per unit</li> </ul>
2.	2	Each stub to be fitted with a 3" BSP female gate valve PN16
3.	2	3" M to 2" M reducers BSP, plastic
4.	2	2" BSP equal Tees (F), plastic
5.	4	2" (M) to 1" (F) reducers, plastic
6.	4	1" (M) hose tail connector, plastic
7.	4	3 m lengths of 1" flexible hose pipe, to fit over hose tail connectors
8.	2	Anti chafe patches and flaps
9.	1	Groundsheet
10.	1	Holdall
11.	1	Set of instructions
12.	1	Repair kit – no glue

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**User's Notes**

This bladder tank is designed specifically for use on trucks, not for ground use. If a bladder is needed for laying on the ground use the Oxfam code TBT10, 10 m<sup>3</sup> bladder tank, or TRR30, 30 m<sup>3</sup> Onion PVC Tank  
Loosely tie the bladder down before filling. Fill with a pump using a 3" inlet.  
An inlet at the top is provided to add chlorine.  
Fittings have been included to make up a manifold arrangement so that water can be supplied directly from the back of the truck via 4 lines of 1" hose where this is required.

**Packing and Marking**

All items to be packed in one sturdy plywood case, securely strapped and sealed. Case to be marked "OXFAM CODE TRT6/3" with gross weight and dimensions clearly shown. Markings to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the case.  
One packing list in a plastic bag to be enclosed in the case.

**Local Purchasing Advice**

Suitable alternatives may be available in some locations but it is advised that food grade, UV resistant materials are used.

Specification date: 10 January 2007  
Prepared by: Public Health Engineering Team



Code TSR1/1

Tank Steel Roof

Gross weight: 460 Kg  
 Volume: m<sup>3</sup>  
 Dimensions: 312 x 117 x 45 cm  
 Approximate unit cost: £1313.00

Item	Qty	Description
1.	20	Roof panel plain, 3073mm long, galvanized
2.	1	Roof panel with access hole, 3073mm long, galvanized
3.	1	Centre plate outer, drilled to match segments, galvanized
4.	1	Centre plate inner fabrication, galvanized
5.	1	Water tank hatch with hasp for padlock, top hinged, galvanized
6.	1set	Central support poles, UPVC 110mm diameter, in 3 sections with 2 connectors
7.	1	Baseplate, 248mm diameter with location lugs and butyl rubber pad plate
8.	1	Top of tube top hat section
9.	12 rolls	Preformed mastic strips
10.	1	DANGER DEEP WATER transfer
11.	21	Drilled formed support brackets
12.	240	M8 bolts, galvanised
13.	240	M8 nuts, galvanized
14.	240	M8 washers, galvanized
15.	1	Roof assembly instruction booklet

#### User's Notes

- This fully galvanized universal steel roof kit fits all T45, T70 and T95 tank kits. It is intended for situations where tanks will become semi-permanent or where there are exceptional wind or snow loads to consider.
- This roof is considerably heavier and more expensive than the standard TUR kit so consideration should be given to the overall costs of using this kit.
- When used with a T95 tank all centre poles and sockets will be required.
- When used with a T70 tank one of the 0.75 poles and one 110mm socket can be discarded.
- When used with a T45 tank both 0.75 poles and two of the 110mm sockets can be discarded.
- For general hygiene and to reduce algae growth, a Tank Roof Kit is recommended where the tank is used for water storage. Where the tank is used for general treatment purpose (e.g. sedimentation, filtration, etc.), a Tank Roof Kit may not be necessary.
- Insulated roofs are available to special order.



**Packing and Marking**

All items to be packed in one sturdy timber crate with minimum 100 mm risers. Crate to be marked "OXFAM CODE TSR-1/1" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the crate.  
One packing list, including Oxfam User's Notes, to be enclosed in the crate in a grip-seal plastic bag.

Specification date: 14<sup>th</sup> May 2007  
Prepared by: Public Health Engineering Team



Code TWCT/1	14 Litre Water Container with Tap (Pallet of 200 Units)
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Gross weight: 220 kg  
 Volume: 1.440 m<sup>3</sup>  
 Dimensions: 120 x 120 x 100 cm  
 Approximate unit cost: £469.00

Item	Qty	Description
1.	1 pallet	200 stackable 14 litre water containers with taps. Specialised features are: <ul style="list-style-type: none"> <li>• 14 litre capacity, removable tight-fit lid</li> <li>• Opening in lid with a cap attached</li> <li>• 210 plastic taps – one at the bottom of each container and 10 spare</li> <li>• Plastic handle attached</li> <li>• Bottom ridge ovaling</li> <li>• Reinforced top</li> <li>• Tough durable UV treated plastic (suitable for food &amp; drinking water)</li> <li>• Curved inside base to wall join for easy cleaning</li> </ul>

#### User's Notes

- On separation of the columns a tap will be found in the bottom of each container. Put the tap in the hole in the container from the outside and screw the locking nut on the inside. There are 10 spare taps in each pallet just in case any taps are lost.
- The lids should be put on the containers before they are distributed in the field.
- Please try to obtain feedback on the use of the water container and send comments to Andy Bastable ([abastable@oxfam.org.uk](mailto:abastable@oxfam.org.uk)).

**See information below – price for sale to other agencies is £529.00 per pallet of 200 units.**

The price of the water container is £2.32 to Oxfam or £2.62 to other agencies, plus £5.00 for the spare taps (i.e. £469/£529 per pallet of 200 water containers). Pallets cannot be split.

Contact: Bicester Supply Team  
 Tel: +44 (0)1865 302070  
 Fax: +44 (0)1865 242325  
 Email: [logadvise@oxfam.org.uk](mailto:logadvise@oxfam.org.uk)



#### Packing and Marking

200 water containers to be stacked on one pallet, marked "OXFAM CODE TWCT/1" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list to be attached to the outside of the pallet.

Specification date: 14<sup>th</sup> April 2000  
 Prepared by: Public Health Engineering Team

**The Oxfam 14 Litre Water Container with Tap****Oxfam code TWCT**

The importance of having a water container in an emergency situation cannot be over estimated. Often, refugees fleeing from conflict will arrive in a refugee camp or a village with virtually no possessions. One of the first activities they will need to carry out is the collection of water. Therefore, the rapid distribution of water containers in emergency situations is crucial, which is why Oxfam's Technical Unit has developed a more appropriate design of water container than previously used.



The three driving forces behind the design were:

1. Cleanliness: Studies have shown that while it is important to have a clean water source, the majority of water contamination takes place at the household level where water is stored and distributed. The Oxfam water container addresses this problem with the following features:
  - A push on cap for a hygienic seal, the cap is attached to the lid of the bucket so that people do not need to improvise caps, using pieces of wood etc, after the original cap is lost.
  - The lid of the bucket can be taken off so that the inside of the container can be cleaned periodically.
  - Where the wall meets the base it is curved to prevent dirt and bacteria lodging in the corners and enables better cleaning.
2. Stackability: Normally, in the first phase of an emergency many jerry cans are transported to the site. With traditional jerry cans this means most of the volume is air that is being transported. One pallet, which would have contained 40 twenty-litre jerry cans, can take 200 Oxfam buckets. This means there is a considerable saving on freight costs.
3. Durability: The bucket, if treated correctly, should last many years. Many of the collapsible plastic types of water containers only last about 1 week in the arduous refugee camp conditions.

**T**

When the containers are unloaded in the field the lids should be snapped on before they are distributed. Beneficiaries should be encouraged not to take the lids off and use them as simple buckets. Although they are designed for first phase emergency situations they would be extremely useful in any water carrying operation.

A 14 litre container was decided upon from comments of women refugees in Tanzania. They felt that 20 litres was too heavy and 10 litres too small. Another consideration was the actual size of the bucket for transport.

**Code TWC/2      14 Litre Water Container (Pallet of 200 Units)**

Gross weight: 196 kg  
 Volume: 1.320 m<sup>3</sup>  
 Dimensions: 120 x 100 x 110 cm  
 Approximate unit cost: £364.00



Item	Qty	Description
1.	1 pallet	200 stackable 14 litre water containers. No tap but all other features of the water container are the same as the TWCT/1 kit

**User's Notes**

- The lids should be put on the containers before they are distributed in the field.
- Please try to obtain feedback on the use of the water container and send comments to Andy Bastable ([abastable@oxfam.org.uk](mailto:abastable@oxfam.org.uk)).

**See information below – price for sale to other agencies is £424.00 per pallet of 200 units.**

The price of the water container is £1.82 to Oxfam or £2.12 to other agencies (i.e. £364.00/£424.00 per pallet of 200 water containers). Pallets cannot be split.

Contact: Bicester Supply Team  
 Tel: +44 (0)1865 302070  
 Fax: +44 (0)1865 242325  
 Email [logadvise@oxfam.org.uk](mailto:logadvise@oxfam.org.uk)

**Packing and Marking**

200 water containers to be stacked on one pallet, marked "OXFAM CODE TWC/1" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list to be attached to the outside of the pallet.

Specification date: 31 January 2000  
 Prepared by: Public Health Engineering Team



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## Category V

### Vehicles and Accessories

Code VF/1	Vehicle Flag	347
Code VOX	Vehicle Stickers	347
Code VS/1	Vehicle Sticker 'No Guns'	348
Code VFA/2	Vehicle First Aid Kit	348
Code VLB/1	Vehicle Log Book	350
Code VT/5	Vehicle Tool Kit	351
<b>The items in italics are not Oxfam stock items:</b>		
<i>The following kits are not commonly used, but the specifications have been prepared to facilitate the quick purchase and deployment of these items if required.</i>		
<i>Code VCS/1</i>	<i>Toyota Corolla Sedan</i>	<i>353</i>
<i>Code VCSSA/1</i>	<i>Toyota Corolla Spares Pack A</i>	<i>357</i>
<i>Code VCSSB/1</i>	<i>Toyota Corolla Spares Pack B</i>	<i>358</i>
<i>Code VHCB/1</i>	<i>Toyota Hiace Commuter Bus</i>	<i>360</i>
<i>Code VHCBSA/1</i>	<i>Toyota Hiace Commuter Bus Spares Pack A</i>	<i>363</i>
<i>Code VHCBSB/1</i>	<i>Toyota Hiace Commuter Bus Spares Pack B</i>	<i>364</i>
<i>Code VHMB/1</i>	<i>Honda Motorbike for On/Off-Road Use</i>	<i>366</i>
<i>Code VLCHT6/1</i>	<i>Toyota Land Cruiser 3 Door with 6 seat</i>	<i>367</i>
<i>Code VLCHT10/1</i>	<i>Toyota Land Cruiser 3 Door with 10 seat</i>	<i>370</i>
<i>Code VLCHT13/1</i>	<i>Toyota Land Cruiser 3 Door with 13 seat</i>	<i>373</i>
<i>Code VLCHT5D/1</i>	<i>Toyota Land Cruiser 5 Door Hardtop with 10 seat</i>	<i>376</i>
<i>Code VLCPU/4</i>	<i>Standard Toyota Land Cruiser Pickup</i>	<i>379</i>
<i>Code VLCSA/3</i>	<i>Toyota Land Cruiser Spares Pack A</i>	<i>382</i>
<i>Code VLCSB/3</i>	<i>Toyota Land Cruiser Spares Pack B</i>	<i>383</i>





**Code VF/1****Vehicle Flag****General Specifications**

Account Code: 47433  
 Approximate unit cost: £10.95

1 m x 0.70 m Vehicle Flag, printed black on white featuring Oxfam logo, with tunnel hem and eyelet.

**Code VOX****Vehicle Stickers****General Specifications**

Description: Self-adhesive vinyl Oxfam logo vehicle sticker.  
 White logo on a black background.  
 Available in two sizes (see table below).



Code	Size	Approximate unit cost
VOL/1	Large – 18.0 x 62.5 cm	£0.76
VOS/1	Small – 4.5 x 15.5 cm	£0.38

Note: Vehicles purchased by the Oxfam Logistics & Supply Team in Oxford will be supplied with this sticker on each front door.

Specification date: 01 May 2005  
 Prepared by: Logistics & Supply Team



**Code VS/1 Vehicle Sticker 'No Guns'****General Specifications**

Approximate unit cost: £0.73

Self-adhesive vinyl (Rifle Design) 'No Guns' Vehicle Sticker printed in three colours (red, white and black) onto clear self- adhesive vinyl (ink colour 032(1788), opa.white/black)

Specification date: 01 May 2005  
Prepared by: Logistics & Supply Team

**Code VFA/2 Vehicle First Aid Kit****General Specifications**

Gross weight: 1.1 kg  
Volume: 0.004 m<sup>3</sup>  
Dimensions: 27 x 22 x 10 cm  
Approximate unit cost: £20.90



Item	Qty	Description
1.	1	Green Plastic First Aid Case
2.	1	First aid Windscreen sticker
3.	1	Rescue Hammer
4.	1	Scissors
5.	1	Light Stick – high intensity 30mins
6.	1	Life Aid resuscitation mouth shield
7.	1	Foil blanket- Adult size
8.	1	First Aid Leaflet
9.	1	Sterile dressing no.8
10.	1	Sterile dressing no.9
11.	1	Sterile dressing no.16
12.	1	Ambulance dressing no.1
13.	1	Contour bandage 7.5cm
14.	1	Sterile Non-woven triangular bandage
15.	20	Hypoallergenic tape 2.5cm
16.	10	Waterproof assorted dressings



17.	4	Alcohol free wipes
18.	6	Latex free gloves pairs
19.	10	Assorted safety pins
20.	1	Zetuvit Pads 10cm
21.	1	Sterie eye wash 500ml

#### User's Notes

- The Vehicle First Aid Kit should be carried in all Oxfam vehicles.
- All drivers and other potential users of the kit should read the manual included in the kit. A translation may be required.
- All staff should receive first aid instruction related to the manual and contents of the kit. The local Red Cross/Red Crescent Society may be able to provide trainers.
- The availability and maintenance of the kits is the responsibility of the Programme Manager or person designated by him/her. The Project Manager is also responsible for organising first aid training locally.
- Please remember that correct use of the kits could save lives. Please take care of them.

Specification date: 16 August 2006

Prepared by: Staff Health Service





Code VT/5

Vehicle Tool Kit

**General Specifications**

Gross weight: 55 kg  
 Volume: 0.193 m<sup>3</sup>  
 Dimensions 133 x 33 x 44 cm  
 Approximate unit cost: £260



Item	Qty	Part no.	Description
1.	3	26539	30" long heavy duty type lever
2.	1	51299	Hickory shaft club hammers, 4 lb
3.	1	AP2052	Workshop puncture repair kit with an assortment of 100 patches, vulcanising fluid, liquid buffer, rasp and patch stitcher
4.	1	87392	Heavy duty hand pump, stirrup type, stainless steel barrel, 30 mm diameter with hardwood pump handle. Hose length 900 mm (approx.) with connectors suitable for Presta and Schreder valves used on most cars, vans, motorcycles and bicycles. Dial-type pressure gauge marked 0–300 psi and 0–20 bar.
5.	1	65314	Fluorescent tube type inspection lamp, 12 V DC, with 3 m (approx.) cable and crocodile clips for attachment to the terminals of a 12 V car battery. Supplied with 8W tube
6.	1	52681	Expert quality 250mm adjustable wrench, 33 mm span
7.	1	MP120	Fold down reflective red breakdown warning triangle with metal stand
8.	1	72999	Heavy duty tool bag, manufactured from water-resistant canvas with nylon zipper and canvas-covered rope handles
9.	1		Nylon webbing tow strap, 6 m x 3 tonne duplex link, with D shackles at both ends to accommodate towball diameter
10.	1	19152	Extending wheel nut wrench, ½" square drive reversible sockets, size 17 x 19 and 21 x 22 mm, manufactured from chrome vanadium steel, extending bar with hand grip.
11.	1	74308	Tyre pressure gauge, manufactured to BS4613 part 3 specification. Dual-reading pencil type, graduated 6–50 psi (increments of 1 psi) and 0.4–3.4 bar (increments of 0.1 bar).
12.	1	FJ48	Sealey high-lift jack, 3 tonne capacity
13.	1 set	51875	Battery booster cables, 25mm cross section, 3m length, suitable for 12 V systems on car and light commercial vehicles
14.	1	12579	Car electric circuit tester, range 6–24 V DC, supplied complete with 750 mm of insulated cable with alligator clip



- |     |        |       |  |
|-----|--------|-------|--|
| 15. | 1 set  | 14127 | 10 piece metric hexagon key set chrome vanadium hardened and tempered. Sizes 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8, 10mm.  |
| 16. | 1      | 29613 | Screwdriver set, 9-piece   |
| 17. | 1      | 29545 | Combination wrench set, 11-piece, metric (6 mm–19 mm), manufactured to ISO3318 and ISO1085 specifications. Forged from chrome vanadium steel, hardened, tempered and chrome-plated for corrosion protection. |
| 18. | 1      | 68885 | Combination pliers, 200mm heavy duty, soft grip  |
| 19. | 1      | 11529 | Retractable trimming knife, with 5 blades  |
| 20. | 1      | 13499 | 5 spare blades for trimming knife  |
|     |        | pack  |  |
| 21. | 1 roll | 11909 | Black insulation tape, manufactured to BS3924 and BS4J10 specifications  |

#### Packing and Marking

Items to be packed in a plywood case, marked "OXFAM CODE VT" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list to be securely fixed to the outside of the case.  
One packing list to be enclosed in the case.

Specification date: 20 April 2007

Prepared by: Logistics & Supply Team



**Code VCS/1****Toyota Corolla Sedan****This item is non-stock****General Specifications**

Kerb Weight: 1030 kg  
 Gross Weight 1630 kg  
 Volume: 11.0 m<sup>3</sup>  
 Approx dimensions: 436.5 x 169.5 x 149 cm  
 Approximate unit cost: £8,394 ex-works,  
 Gibraltar



Tyres: Front and Rear: 175 x 14  
 Colour: White

Toyota Corolla 1.8GL.i Sedan – ZZE122-AEMNK

**1.8 litre petrol engine, fitted with:**

**LHD Standard Features:**

<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	1	27 amp-hour battery (12v)
2.	1	Anti-lock braking system (ABS)
3.	1	Engine oil cooler - Power steering
4.	1	Dust protection
5.	1	Severe usage package
6.	2	SRS air bag
7.	1	Rear armrest
8.	1	Front and rear ashtray
9.	1	Front and rear assist grips
10.	1	Central locking
11.	1	Cigarette Lighter
12.	1	Digital clock
13.	2	Coat hooks x 2 (fixed)
14.	1	Front console box
15.	1	Cup holders
16.	1	Rear window defogger
17.	1	Electric windows
18.	1	Carpet floor covering
19.	1	Fuel lid opener switch (no key)



20.1	Glove box
21.1	Front and rear headrests
22.1	Front heater
23.1	High mount stop lamp
24.1	Luggage room light
25.1	Interior rear view mirror (day and night)
26.1	Pre-wiring for audio with 2 speakers and antenna
27.3	Rear seat belts (2 x 3 point and 1 x 2 point)
28.2	Front seat belts (2 x 3 point)
29.1	2nd Row rear seat 60/40 split
30.1	Front door side pockets
31.1	Speedometer km/h
32.1	Steering Wheel: 4-Spoke Synthetic Leather with ornament
33.1	Tilt steering column
34.2	Sun visors
35.1	Sun visor with vanity mirror: passenger side
36.1	Tachometer (rpm)
37.1	Light reminder warning with buzzer
38.1	Brake fluid level warning
39.1	Fuel level warning light
40.1	Owners manual in English
41.1	Body rust protection
42.1	Touch-up paint
43.1	Separate folding rear seats
44.1	Front and rear bumper
45.1	Semi-sealed halogen headlamps
46.1	Power Mirrors
47.1	Front and rear mudguards
48.1	Side protection moulding
49.1	Front and rear stabiliser bars
50.1	Rear towing eye
51.1	High/Low 2-speed windshield wipers (inc. intermittent)
52.1	air conditioning

**RHD Standard Features:**

<b>Item</b>	<b>Qty</b>	<b>Description</b>
1	1	27 amp-hour battery (12v)
2	1	Anti-lock braking system (ABS)
3	1	Engine oil cooler
4	1	Engine immobiliser
5	1	Power steering

6	1	<i>Dust protection</i>
7	1	<i>Severe usage package</i>
8	2	<i>SRS air bag</i>
9	1	<i>Rear armrest</i>
10	1	<i>Front and rear ashtray</i>
11	1	<i>Front and rear assist grips</i>
12	1	<i>Remote central locking</i>
13	1	<i>Cigarette Lighter</i>
14	1	<i>Digital clock</i>
15	1	<i>Coat hooks x 2 (fixed)</i>
16	1	<i>Front console box</i>
17	1	<i>Cup holders</i>
18	1	<i>Rear window defogger</i>
19	1	<i>Front door side pockets</i>
20	1	<i>Electric windows</i>
21	1	<i>Carpet floor covering</i>
22	1	<i>Fuel lid opener switch (no key)</i>
23	1	<i>Glove box</i>
24	1	<i>Front and rear headrests</i>
25	1	<i>Front heater</i>
26	1	<i>High mount stop lamp</i>
27	1	<i>Luggage room light</i>
28	1	<i>Interior rear view mirror (day and night)</i>
29	1	<i>Pre-wiring for audio with 2 speakers and antenna</i>
30	3	<i>Rear seat belts (2 x 3 point and 1 x 2 point)</i>
31	2	<i>Front seat belts (2 x 3 point)</i>
32	1	<i>2nd Row rear seat 60/40 split</i>
33	1	<i>Speedometer km/h</i>
34	1	<i>Steering Wheel: 4 Spoke Wood &amp; Natural Leather with ornament</i>
35	1	<i>Tilt steering column</i>
36	2	<i>Sun visors</i>
37	1	<i>Sun visor with vanity mirror: passenger side</i>
38	1	<i>Tachometer (rpm)</i>
39	1	<i>Brake fluid level warning</i>
40	1	<i>Fuel level warning light</i>
41	1	<i>Light reminder warning with buzzer</i>
42	1	<i>Owners manual in English</i>
43	1	<i>Body rust protection</i>
44	1	<i>Touch-up paint</i>
45	1	<i>Separate folding rear seats</i>
46	1	<i>Front and rear bumper</i>
47	1	<i>External door handle, coloured</i>



48	1	Semi-sealed halogen headlamps
49	1	Power Mirrors
50	1	Front and rear mudguards
51	1	Side protection moulding
52	1	Front and rear stabiliser bars
53	1	Rear towing eye
54	1	High/Low 2-speed windshield wipers (inc. intermittent) – air conditioning

**Dealer Options Fitted:**

- Anti-theft package including locking wheel nuts, and Mul-T-Lock
- Engine immobiliser switch
- Seat belts – all locations
- Oxfam stickers to front doors – Oxfam code VOL
- Spares pack A (initial running spares) - Oxfam code VCSSA
- Fire Extinguisher 1 KG
- Vehicle First Aid Kit
- Oxfam code VT – vehicle tool kit

**Standard Additional Extras Available On Request:**

- SPARES B      Toyota Corolla spares pack B Oxfam code VCSSB

**User's Notes**

When ordering or asking for quote please indicate:

- LEFT or RIGHT Hand drive
- Any of the standard additional extras which are required
- Any other requirements of the vehicle

Specification date: 25<sup>th</sup> April 2007

Prepared by:      Logistics and Supply Team



**Code VCSSA/1 Toyota Corolla Spares Pack A*****This item is non-stock***

Gross weight: 20 kg  
 Approximate unit cost: £226 ex-works, Gibraltar

***When ordering please provide chassis number of vehicle so that the correct parts are despatched.***

<b>Item</b>	<b>Qty</b>	<b>Description</b>
1	2	FILTER, OIL
2	2	ELEMENT SUB-ASSY,
3	1	BELT, V-RIBBED
4	1	BRIDGESTONE B391 (84H)
5	1	BULB/FUSE KIT H4 C
6	4	GEAR OIL 75W90 1L
7	2	BRAKE FL. DOT4 750ML
8	1	GASKET
9	1	WHEEL, DISC
10	1	INNER TUBE

*Because brake fluid are hazardous goods they will not be included in any spares packs which are shipped via air.*

*This kit is sent automatically when a new Corolla Sedan is purchased.*

*The exact contents of the kit are routinely reviewed and changed by the vehicle manufacturers.*

**Packing**

*Items to be packed in a sturdy triwall carton, marked "OXFAM CODE VCSSA" with gross weight and dimension clearly shown.*

**Packing List**

*One packing list to be securely fixed to the outside of the carton.  
 One packing list to be enclosed in the carton.*

**Marking**

OXFAM CODE VCSSA  
 Gross weight  
 Dimensions

Specification date: 25<sup>th</sup> April 2007  
 Prepared by: Logistics and Supply Team



**Code VCSSB/1 Toyota Corolla Spares Pack B****This item is non-stock**

Gross weight: 80 kg  
 Approximate unit cost: £655 ex-works, Gibraltar

**When ordering please provide chassis number of vehicle so that the correct parts are despatched.**

<b>Item</b>	<b>Qty</b>	<b>Description</b>
1	10	FILTER, OIL
2	10	GASKET
3	8	ELEMENT SUB-ASSY – AIR FILTER
4	2	PAD KIT, DISC BRAKE
5	1	PAD KIT, DISC BRAKE
6	1	BELT, V-RIBBED
7	1	ABSORBER SET, FR RH
8	1	ABSORBER FR LH
9	2	ABSORBER SET, SHOCK,
10	1	HOSE, RADIATOR, NO.1
11	1	HOSE, RADIATOR, NO.2
12	1	THERMOSTAT
13	1	GASKET
14	8	PLUG, SPARK
15	1	BLADE, FR WIPER, RH
16	1	BLADE, FR WIPER, LH
17	1	PUMP ASSY, WATER
18	1	WHEEL, DISC
19	1	GASKET, CYLINDER HEA
20	1	END SUB-ASSY, TIE
21	1	END SUB-ASSY, TIE
22	1	DISC ASSY, CLUTCH
23	1	COVER ASSY, CLUTCH
24	1	BEARING ASSY, CLUTCH
25	1	INSULATOR, ENGINE
26	1	INSULATOR SUB-ASSY,
27	1	INSULATOR, ENGINE
28	1	INSULATOR, ENGINE
29	1	BULB/FUSE KIT H4 C
30	1	BRIDGESTONE (175 x 14)
31	1	INNER TUBE



*This kit is an optional extra and will not be sent with a new vehicle unless specifically requested.*

*The exact contents of the kit are routinely reviewed and changed by the vehicle manufacturers.*

*If the kit needs to be modified to your specific needs, please specify when ordering.*

#### *Packing*

*Items to be packed in a sturdy triwall carton, marked "OXFAM CODE VCSSB" with gross weight and dimension clearly shown.*

#### *Packing List*

*One packing list to be securely fixed to the outside of the carton.  
One packing list to be enclosed in the carton.*

#### *Marking*

*OXFAM CODE VCSSB  
Gross weight  
Dimensions*

*Specification date: 25<sup>th</sup> April 2007  
Prepared by: Logistics and Supply Team*



**Code VHCB/1 Toyota Hiace Commuter Bus****This item is non-stock****General Specifications**

Kerb Weight: 1840 kg  
 Gross weight: 3000 kg  
 Volume: 15.8 m<sup>3</sup>  
 Dimensions 469.5 x 169.5 x 198 cm  
 Approximate unit cost: £9,774 ex-works, Gibraltar



Tyres: Front and Rear: 195 x 15  
 Colour: White

**Toyota Hiace Commuter Bus, 15 seater – LH202-REMDE**

3.0 litre diesel engine, fitted with standard features:

<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	1	Cyclone and pre-cleaner type air cleaner
2.	1	120 amp alternator (12v)
3.	1	Semi-floating rear axle
4.	2	55 amp-hour batteries (12 v)
5.	1	Power steering
6.	1	Severe usage package
7.	2	Front door armrests
8.	1	Front ashtray
9.	1	Front and rear assist grips
10.	1	Cigarette Lighter
11.	1	Digital clock
12.	1	Front door side pockets
13.	1	Vinyl floor covering
14.	1	Fuel lid opener switch (no key)
15.	1	Fuel gauge
16.	1	Water temperature gauge
17.	1	Glove box
18.	3	Front headrests
19.	1	Front heater



20.	1	<i>Front and centre interior lights</i>
21.	1	<i>Interior rear view mirror (day and night)</i>
22.	1	<i>Pre-wiring for audio with 2 speakers and antenna</i>
23.	3	<i>Front seat belts (2 x 3 point &amp; 1 x 2 point)</i>
24.	12	<i>Rear seat belts</i>
25.	1	<i>Speedometer km/h</i>
26.	1	<i>Steering wheel lock</i>
27.	2	<i>Sun visors</i>
28.	1	<i>Trip Meter</i>
29.	1	<i>Brake fluid level warning</i>
30.	1	<i>Fuel level warning light</i>
31.	1	<i>Parking brake warning light</i>
32.	1	<i>Timing belt replacement warning light</i>
33.	1	<i>Fuel sedimenter warning</i>
34.	1	<i>Cold area package</i>
35.	1	<i>Owners manual in English</i>
36.	1	<i>Body rust protection</i>
37.	1	<i>Tool kit and Jack</i>
38.	1	<i>Touch-up paint</i>
39.	1	<i>Tubeless tyres</i>
40.	1	<i>Front and rear bumper</i>
41.	1	<i>Lift-up type back door</i>
42.	1	<i>Sliding rear passenger side door</i>
43.	1	<i>Semi-sealed halogen headlamps</i>
44.	1	<i>Exterior rear view mirrors</i>
45.	1	<i>Spare wheel under body</i>
46.	1	<i>Front stabiliser bar</i>
47.	1	<i>Front towing eye</i>
48.	1	<i>Green laminated windshield</i>
49.	1	<i>High/Low 2-speed windshield wipers (intermittent/washer ink)</i>
50.	1	<i>Air conditioning</i>



**Dealer Options Fitted:**

- *Anti-theft package including locking wheel nuts*
- *Engine immobiliser switch*
- *Seat belts – all locations*
- *Oxfam stickers to front doors – Oxfam code VOL*
- *Spares pack A (initial running spares) - Oxfam code VHCBSA*
- *Fire Extinguisher 1 KG*
- *Vehicle First Aid Kit*
- *Oxfam code VT – vehicle tool kit*

**Standard Additional Extras Available On Request:**

- *SPARES B Toyota Hiace spares pack B Oxfam code VHCBSB*

**User's Notes**

*When ordering or asking for quote please indicate:*

- *LEFT or RIGHT Hand drive*
- *Any of the standard additional extras which are required*
- *Any other requirements of the vehicle*

*Specification date: 25 April 2007*

*Prepared by: Logistics & Supply Team*



**Code VHCBSA/1 Toyota Hiace Commuter Bus  
Spares Pack A**

**This item is non-stock**

Gross weight: 20 kg  
Approximate unit cost: £277 ex-works, Gibraltar

**When ordering please provide chassis number of vehicle so that the correct parts are despatched.**

Item	Qty	Description
1.	2	FILTER, OIL
2	2	ELEMENT ASSY,
3	2	ELEMENT SUB-ASSY,
4	1	BELT,V
5	1	TYRE BRIDGESTONE (106R)
6	1	BULB/FUSE KIT H4 B
7	4	GEAR OIL 75W90 1L
8	2	BRAKE FL. DOT4 750ML
9	1	GASKET
10	1	WHEEL, DISC
11	1	TYRE BRIDGESTONE (195 x 15)
12	1	INNERTUBE

- Because brake fluid are hazardous goods they will not be included in any spares packs which are shipped via air.
- This kit is sent automatically when a new Hiace Commuter Bus is purchased.
- The exact contents of the kit are routinely reviewed and changed by the vehicle manufacturers.

**Packing**

Items to be packed in a sturdy triwall carton, marked "OXFAM CODE VHCBSA" with gross weight and dimension clearly shown.

**Packing List**

One packing list to be securely fixed to the outside of the carton.  
One packing list to be enclosed in the carton.

**Marking**

OXFAM CODE VHCBSA, Gross weight, Dimensions.  
Specification date: 25<sup>TH</sup> April 2007  
Prepared by: Logistics and Supply Team



**Code VHCBSB/1 Toyota Hiace Commuter Bus  
Spares Pack B**

**This item is non-stock**

**General Specifications**

Gross weight: 80 kg  
 Volume:  
 Dimensions  
 Approximate unit cost: £816 ex-works, Gibraltar

**When ordering please provide chassis number of vehicle so that the correct parts are despatched.**

<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	10	FILTER, OIL
2	10	GASKET
3	8	ELEMENT ASSY – FUEL FILTER
4	5	ELEMENT SUB-ASSY – AIR FILTER
5	2	PAD KIT,FR DISC
6	1	SHOE KIT, BRAKE, RR
7	1	BELT
8	1	BELT SET, V
9	1	BELT, V
10	2	ABSORBER, SHOCK, FR
11	2	ABSORBER, SHOCK, RR
12	2	BUSH
13	2	CYLINDER ASSY, WHEEL
14	1	HOSE, RADIATOR
15	1	HOSE, RADIATOR, NO.2
16	2	BLADE, FR WIPER, RH
17	2	BLADE, FR WIPER, LH
18	1	THERMOSTAT ASSY,
19	2	BLADE, RR WIPER
20	1	GASKET
21	1	WHEEL, DISC
22	4	PLUG ASSY, GLOW
23	4	NOZZLE ASSY
24	1	PUMP ASSY, WATER
25	1	GASKET, CYLINDER
26	1	BELT, TIMING
27	5	SUPPORT, EXHAUST
28	2	END SUB-ASSY, TIE



29	4	BUSH
30	1	CYLINDER KIT, FR
31	1	PISTON KIT, BRAKE
32	1	CYLINDER KIT, CLUTCH
33	1	GASKET KIT, ENGINE
34	1	BULB/FUSE KIT H4 B
35	1	TYRE BRIDGESTONE (195 x 15)
36	1	INNERTUBE

#### User Notes

*This kit is an optional extra and will not be sent with a new vehicle unless specifically requested.*

*The exact contents of the kit are routinely reviewed and changed by the vehicle manufacturers.*

*If the kit needs to be modified to your specific needs, please specify when ordering.*

#### Packing

*Items to be packed in a sturdy triwall carton, marked "OXFAM CODE VHCBSB" with gross weight and dimension clearly shown.*

#### Packing List

*One packing list to be securely fixed to the outside of the carton.  
One packing list to be enclosed in the carton.*

#### Marking

*OXFAM CODE VHCBSB  
Gross weight  
Dimensions*

*Specification date: 25<sup>th</sup> April 2007  
Prepared by: Logistics and Supply Team*



**Code VHMB/1 Honda Motorbike for On/Off-Road Use**

**This item is non-stock**

**General Specifications**

Gross weight: 140 kg  
 Volume: 0.790 m<sup>3</sup>  
 Dimensions 100 x 84 x 94 cm  
 Approximate unit cost: £1810



**Honda XL125 On/Off-Road Motorbike**

**General specifications for use on and off-road in extreme climates:**

**Standard Features:**

1. 125cc air-cooled 4-stroke engine
2. Heavy duty front and rear suspension
3. Off road tyres, tubed
4. Two seats
5. Kick start

**Dealer Options Fitted:**

1. Rear carry frame and two side panniers
2. Helmet
3. 1 pair leather gloves
4. Puncture repair kit, including pump
5. Spares pack A (initial running spares)

**Standard Options Available on Request:**

Spares Pack B (2 years spares pack including workshop manual & spare parts catalogue)

**User's Notes**

When ordering please indicate whether spares Pack B is required, plus any other requirements of the vehicle.

Specification date: 4 July 1995  
 Prepared by: Logistics and Supply Team

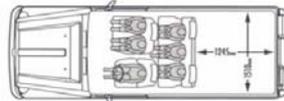


## Code VLCHT6/1 Toyota Land Cruiser 3 Door with 6 seat

**This item is non-stock**

### General Specifications

Kerb weight: 2185 kg  
 Gross weight: 3200 kg  
 Volume: 17.576 m<sup>3</sup>  
 Dimensions 500 x 169 x 208 cm  
 Approximate unit cost: £12,951 ex-works, Gibraltar



**6 Seats**

Tyres: Front and Rear:  
 7.50 x 16  
 Colour: White

**4.2 litre diesel engine to general spec for use in extreme climates, fitted with:**

### Standard Features:

Item	Qty	Description
1.	1	Cyclone type air cleaner with snorkel
2	1	80 amp alternator (12v)
3	1	Full-floating rear axle
4	1	70 amp-hour battery (12v)
5	1	Brake control valve (Load Sensing Pressure Valve)
6	1	Engine oil cooler integral
7	1	Fuel sedimenter with fuel filter
8	1	90 litre extra fuel tank
9	1	High altitude compensator
10	1	Power steering
11	1	Transfer box protection
12	1	Front ashtray
13	3	Assist grips
14	1	Cigarette Lighter
15	1	Vinyl floor covering



16	1	Footrest
17	1	Fuel gauge
18	1	Sub fuel gauge
19	1	Water temperature gauge
20	1	Glove box
21	2	Front headrests
22	2	Rear headrests
23	1	Front heater
24	1	Front and rear interior lights
25	1	Interior rear view mirror (day and night)
26	1	Odometer (digital)
27	1	Pre-wiring for audio with 2 speakers and antenna
28	3	Rear seat belts (2 x 3 point and 1 x 2 point)
29	3	Front seat belts (2 x 3 point & 1 x 2 point)
30	1	Floor silencer (around front pedals)
31	1	Dash silencer (interior only)
32	1	Speedometer km/h
33	1	Steering column tilt and collapsible
34	1	Steering wheel lock
35	2	Sun visors
36	1	One touch 2-4WD selector
37	1	Trip Meter
38	1	Door ajar warning
39	1	Oil pressure warning light
40	1	Air cleaner warning
41	1	Brake fluid level warning
42	1	Parking brake warning light
43	1	Timing belt replacement warning light
44	1	Fuel level warning light
45	1	Owners manual in English
46	1	Body rust protection
47	1	Tool kit and Jack
48	1	Touch-up paint
49	1	Tubed tyres
50	1	Front bumper
51	1	Rear step bumper
52	1	Swing-out type back door
53	1	Lockable fuel lid
54	1	Semi-sealed halogen headlamps
55	1	Manual free wheel hubs
56	1	Exterior rear view mirrors
57	1	Front mudguards



58	1	Side steps
59	1	Lockable spare wheel mounted on back door
60	1	Front and rear stabiliser bars
61	1	Front and rear towing eye
62	4	Sliding rear quarter windows
63	1	Green laminated windshield
64	1	High/Low 2-speed windshield wipers (inc. mist)
65	1	Air conditioning

**Dealer Options Fitted:**

- Anti-theft package including locking wheel nuts, and Mul-T-Lock
- Engine immobiliser switch
- Heavy duty bull bar
- Seat belts – all locations
- Heavy duty roof rack with step
- Oxfam stickers to front doors – Oxfam code VOL
- Spares pack A (initial running spares) - Oxfam code VLCSA
- Fire Extinguisher 1 KG
- Vehicle First Aid Kit
- Oxfam code VT – vehicle tool kit

**Standard Additional Extras Available On Request:**

- *Fit KHM*            *Fit Oxfam code KHM, HF mobile radio*
- *FLAGS*            *Fit flag pole on roof rack, and pack two Oxfam flags (Oxfam code VF)*
- *SPARES B*        *Spares pack B (2 years spares pack) – Oxfam code VLCSB*
- *WINCH*            *Fit front winch and provide winch accessories kit (recovery blanket, bow shackles, gloves, recovery bag, block snatch 8 tonne, snatch strap 8 tonne, tree trunk protector, 20 metre winch strap)*

**User's Notes**

When ordering or asking for quote please indicate:

- *LEFT or RIGHT Hand drive*
- *Any of the standard additional extras which are required*
- *Any other requirements of the vehicle*

Specification date: 25<sup>th</sup> April 2007

Prepared by:            Logistics and Supply Team

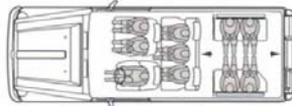


## Code VLCHT10/1 Toyota Land Cruiser 3 Door with 10 seat

**This item is non-stock**

### General Specifications

Kerb Weight 2185 kg  
 Gross weight: 3200 kg  
 Volume: 17.576 m<sup>3</sup>  
 Approx dimensions: 500 x 169 x 208 cm  
 Approximate unit cost: £13,511 ex-works, Gibraltar cost:



**10 Seats**

Tyres: Front and Rear:  
 7.50 x 16  
 Colour: White

Toyota Land Cruiser 70 Series Hardtop - HZJ78 RJMRS

4.2 litre diesel engine to general spec for use in extreme climates, fitted with:

### Standard Features:

Item	Qty	Description
1.	1	Cyclone type air cleaner with snorkel
2	1	80 amp alternator (12v)
3	1	Full-floating rear axle
4	1	70 amp-hour battery (12v)
5	1	Brake control valve (Load Sensing Pressure Valve)
6	1	Engine oil cooler integral
7	1	Fuel sedimenter with fuel filter
8	1	90 litre extra fuel tank
9	1	High altitude compensator
10	1	Power steering
11	1	Transfer box protection
12	1	Front ashtray
13	3	Assist grips x 3
14	1	Cigarette Lighter



15	1	Vinyl floor covering
16	1	Footrest
17	1	Fuel gauge
18	1	Sub fuel gauge
19	1	Water temperature gauge
20	1	Glove box
21	2	Front headrests
22	2	Rear headrests
23	1	Front heater
24	1	Front and rear interior lights
25	1	Interior rear view mirror (day and night)
26	1	Odometer (digital)
27	1	Pre-wiring for audio with 2 speakers and antenna
28	3	Rear seat belts (2 x 3 point and 1 x 2 point)
29	3	Front seat belts (2 x 3 point & 1 x 2 point)
30	1	Floor silencer (around front pedals)
31	1	Dash silencer (interior only)
32	1	Speedometer km/h
33	1	Steering column tilt and collapsible
34	1	Steering wheel lock
35	2	Sun visors x 2
36	1	One touch 2-4WD selector
37	1	Trip Meter
38	1	Door ajar warning
39	1	Oil pressure warning light
40	1	Air cleaner warning
41	1	Brake fluid level warning
42	1	Parking brake warning light
43	1	Timing belt replacement warning light
44	1	Fuel level warning light
45	1	Owners manual in English
46	1	Body rust protection
47	1	Tool kit and Jack
48	1	Touch-up paint
49	1	Tubed tyres
50	1	Front bumper
51	1	Rear step bumper
52	1	Swing-out type back door
53	1	Lockable fuel lid
54	1	Semi-sealed halogen headlamps
55	1	Manual free wheel hubs
56	1	Exterior rear view mirrors



57	1	Front mudguards
58	1	Side steps
59	1	Lockable spare wheel mounted on back door
60	1	Front and rear stabiliser bars
61	1	Front and rear towing eye
62	4	Sliding rear quarter windows
63	1	Green laminated windshield
64	1	High/Low 2-speed windshield wipers (inc. mist)
65	1	Air conditioning

**Dealer Options Fitted:**

- *Anti-theft package including locking wheel nuts, and Mul-T-Lock*
- *Engine immobiliser switch*
- *Heavy duty bull bar*
- *Seat belts – all locations*
- *Heavy duty roof rack with step*
- *Oxfam stickers to front doors – Oxfam code VOL*
- *Spares pack A (initial running spares) - Oxfam code VLCSA*
- *Fire Extinguisher 1 KG*
- *Vehicle First Aid Kit*
- *Oxfam code VT – vehicle tool kit*

**Standard Additional Extras Available On Request:**

- *Fit KHM           Fit Oxfam code KHM, HF mobile radio*
- *FLAGS           Fit flag pole on roof rack, and pack two Oxfam flags (Oxfam code VF)*
- *SPARES B       Spares pack B (2 years spares pack) – Oxfam code VLCSB*
- *WINCH           Fit front winch and provide winch accessories kit (recovery blanket, bow shackles, gloves, recovery bag, block snatch 8 tonne, snatch strap 8 tonne, tree trunk protector, 20 metre winch strap)*

**User's Notes**

*When ordering or asking for quote please indicate:*

- *LEFT or RIGHT Hand drive*
- *Any of the standard additional extras which are required*
- *Any other requirements of the vehicle*

*Specification date: 25<sup>th</sup> April 2007*

*Prepared by:           Logistics and Supply Team*

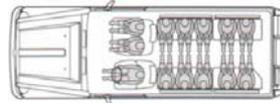


## Code VLCHT13/1 Toyota Land Cruiser 3 Door with 13 seat

**This item is non-stock**

### General Specifications

Kerb Weight 2185 kg  
 Gross weight: 3200 kg  
 Volume: 17.576 m<sup>3</sup>  
 Approx dimensions: 500 x 169 x 208 cm  
 Approximate unit cost: £12,941 ex-works, Gibraltar cost:



**13 Seats**

Tyres: Front and Rear:  
 7.50 x 16  
 Colour: White

Toyota Land Cruiser 70 Series Hardtop - HZJ78 RJMRS

**4.2 litre diesel engine to general spec for use in extreme climates, fitted with:**

### Standard Features:

Item	Qty	Description
1.	1	Cyclone type air cleaner with snorkel
2	1	80 amp alternator (12v)
3	1	Full-floating rear axle
4	1	70 amp-hour battery (12v)
5	1	Brake control valve (Load Sensing Pressure Valve)
6	1	Engine oil cooler integral
7	1	Fuel sedimenter with fuel filter
8	1	90 litre extra fuel tank
9	1	High altitude compensator
10	1	Power steering
11	1	Transfer box protection
12	1	Front ashtray
13	3	Assist grips
14	1	Cigarette Lighter



15	1	Vinyl floor covering
16	1	Footrest
17	1	Water temperature gauge
18	1	Sub fuel gauge
19	1	Fuel gauge
20	1	Glove box
21	2	Front headrests
22	1	Front heater
23	1	Front and rear interior lights
24	1	Interior rear view mirror (day and night)
25	1	Odometer (digital)
26	1	Pre-wiring for audio with 2 speakers and antenna
27	8	Rear seat belts
28	3	Front seat belts (2 x 3 point & 1 x 2 point)
29	1	Floor silencer (around front pedals)
30	1	Dash silencer (interior only)
31	1	Speedometer km/h
32	1	Steering column tilt and collapsible
33	1	Steering wheel lock
34	2	Sun visors x 2
35	1	One touch 2-4WD selector
36	1	Trip Meter
37	1	Door ajar warning
38	1	Oil pressure warning light
39	1	Air cleaner warning
40	1	Brake fluid level warning
41	1	Parking brake warning light
42	1	Timing belt replacement warning light
43	1	Fuel level warning light
44	1	Owners manual in English
45	1	Body rust protection
46	1	Tool kit and Jack
47	1	Touch-up paint
48	1	Tubed tyres
49	1	Rear step bumper
50	1	Front bumper
51	1	Swing-out type back door
52	1	Lockable fuel lid
53	1	Semi-sealed halogen headlamps
54	1	Manual free wheel hubs
55	1	Exterior rear view mirrors
56	1	Front mudguards



57	1	Side steps
58	1	Lockable spare wheel mounted on back door
59	1	Front and rear stabiliser bars
60	1	Front and rear towing eye
61	4	Sliding rear quarter windows
62	1	Green laminated windshield
63	1	High/Low 2-speed windshield wipers (inc. mist)
64	1	air conditioning

**Dealer Options Fitted:**

- Anti-theft package including locking wheel nuts, and Mul-T-Lock
- Engine immobiliser switch
- Heavy duty bull bar
- Seat belts – all locations
- Heavy duty roof rack with step
- Oxfam stickers to front doors – Oxfam code VOL
- Spares pack A (initial running spares) - Oxfam code VLCSA
- Fire Extinguisher 1 KG
- Vehicle First Aid Kit
- Oxfam code VT – vehicle tool kit

**Standard Additional Extras Available On Request:**

- *Fit KHM*            *Fit Oxfam code KHM, HF mobile radio*
- *FLAGS*            *Fit flag pole on roof rack, and pack two Oxfam flags (Oxfam code VF)*
- *SPARES B*        *Spares pack B (2 years spares pack) – Oxfam code VLCSB*
- *WINCH*            *Fit front winch and provide winch accessories kit (recovery blanket, bow shackles, gloves, recovery bag, block snatch 8 tonne, snatch strap 8 tonne, tree trunk protector, 20 metre winch strap)*

**User's Notes**

When ordering or asking for quote please indicate:

- *LEFT or RIGHT Hand drive*
- *Any of the standard additional extras which are required*
- *Any other requirements of the vehicle*

Specification date: 25<sup>th</sup> April 2007

Prepared by:            Logistics and Supply Team

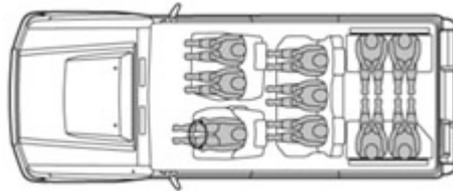


**Code VLCHT5D/1 Toyota Land Cruiser 5 Door  
Hardtop with 10 seat**

**This item is non-stock**

**General Specifications**

Kerb Weight 2180 kg  
 Gross weight: 3000 kg  
 Volume: 16.3 m<sup>3</sup>  
 Approx dimensions: 472 x 177 x 195.5 cm  
 Approximate unit cost: £13,168 ex-works, Gibraltar



**10 Seats**

Tyres: Front and Rear:  
7.50 x 16  
 Colour: White

**Toyota Land Cruiser 70 Series 5 door Hardtop - HZJ76 RKMRS**

The primary differences between this model and other Land Cruisers in the catalogue are:-

5 Doors

Only one fuel tank with a capacity of 150 litres compared with two 90 litre capacity fuel tanks on other Land Cruisers.

The vehicle is 30cm shorter than the 6, 10 and 13 seaters.

The rear suspension has 6 leaf springs instead of 8 making for a smoother ride.

4.2 litre diesel engine to general spec for use in extreme climates, fitted with:

**Standard Features:**

Item	Qty	Description
1.	1	Cyclone type air cleaner with snorkel
2	1	80 amp alternator (12v)
3	1	Full-floating rear axle



4	1	70 amp-hour battery (12v)
5	1	Brake control valve (Load Sensing Pressure Valve)
6	1	Engine oil cooler integral
7	1	Fuel sedimenter with fuel filter
8	1	High altitude compensator
9	1	Power steering
10	1	Transfer box protection
11	1	Front ashtray
12	3	Assist grips
13	1	Cigarette Lighter
14	1	Vinyl floor covering
15	1	Footrest
16	1	Fuel gauge
17	1	Water temperature gauge
18	1	Glove box
19	2	Front headrests
20	2	Rear headrests
21	1	Front heater
22	1	Front and rear interior lights
23	1	Interior rear view mirror (day and night)
24	1	Odometer (digital)
25	1	Pre-wiring for audio with 2 speakers and antenna
26	3	Rear seat belts (2 x 3 point and 1 x 2 point)
27	3	Front seat belts (2 x 3 point & 1 x 2 point)
28	1	Floor silencer (around front pedals)
29	1	Dash silencer (interior only)
30	1	Speedometer km/h
31	1	Steering column tilt and collapsible
32	1	Steering wheel lock
33	2	Sun visors
34	1	One touch 2-4WD selector
35	1	Trip Meter
36	1	Oil pressure warning light
37	1	Door ajar warning
38	1	Air cleaner warning
39	1	Brake fluid level warning
40	1	Parking brake warning light
41	1	Timing belt replacement warning light
42	1	Fuel level warning light
43	1	Owners manual in English
44	1	Body rust protection
45	1	Tool kit and Jack



46	1	Touch-up paint
47	1	Tube tyres
48	1	Front bumper
49	1	Rear step bumper
50	1	Swing-out type back door
51	1	Lockable fuel lid
52	1	Semi-sealed halogen headlamps
53	1	Manual free wheel hubs
54	1	Exterior rear view mirrors
55	1	Front mudguards
56	1	Side steps
57	1	Lockable spare wheel mounted on back door
58	1	Front and rear stabiliser bars
59	1	Front and rear towing eye
60	1	Rear towing eye
61	1	Swing-out type rear window
62	1	Green laminated windshield
63	1	High/Low 2-speed windshield wipers (inc. mist)
64	1	Air conditioning

**Dealer Options Fitted:**

- Anti-theft package including locking wheel nuts, and Mul-T-Lock
- 150 litre fuel tank
- Engine immobiliser switch
- Heavy duty bull bar
- Seat belts – all locations
- Heavy duty roof rack with step
- Oxfam stickers to front doors – Oxfam code VOL
- Spares pack A (initial running spares) - Oxfam code VLCSA
- Fire Extinguisher 1 KG
- Vehicle First Aid Kit

Oxfam code VT – vehicle tool kit

**Standard Additional Extras Available On Request:**

- *Fit KHM*            *Fit Oxfam code KHM, HF mobile radio*
- *FLAGS*            *Fit flag pole on roof rack, and pack two Oxfam flags (Oxfam code VF)*
- *SPARES B*        *Spares pack B (2 years spares pack) – Oxfam code VLCSB*
- *WINCH*            *Fit front winch and provide winch accessories kit (recovery blanket, bow shackles, gloves, recovery bag, block snatch 8 tonne, snatch strap 8 tonne, tree trunk protector, 20 metre winch strap)*

**User's Notes**

When ordering or asking for quote please indicate:

- LEFT or RIGHT Hand drive

- Any of the standard additional extras which are required
- Any other requirements of the vehicle

Specification date: 25 April 2007

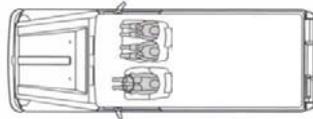
Prepared by: Logistics & Supply Team

## Code VLCPU/4 Standard Toyota Land Cruiser Pickup

**This item is non-stock**

### General Specifications

Kerb weight: 2095 kg  
 Gross weight: 3200 kg  
 Volume: 15.950 m<sup>3</sup>  
 Approx dimensions: 489 x 169 x 193 cm  
 Approximate unit cost: £12,597 ex-works, Gibraltar



Tyres: Front and Rear:  
7.50 x 16  
 Colour: White

Toyota Land Cruiser 70Series Pickup - HZJ79 TJMRS Pickup

**4.2 litre diesel engine to general spec for use in extreme climates, fitted with:**

### Standard Features:

Item	Qty	Description
1	1	Cyclone type air cleaner with snorkel
2	1	80 amp alternator (12v)
3	1	Full-floating rear axle
4	1	70 amp-hour battery (12v)
5	1	Brake control valve (Load Sensing Pressure Valve)
6	1	Engine oil cooler integral
7	1	Fuel sedimenter with fuel filter
8	1	90 litre extra fuel tank
9	1	High altitude compensator
10	1	Power steering



11	1	<i>Front ashtray</i>
12	3	<i>Assist grips</i>
13	1	<i>Cigarette Lighter</i>
14	1	<i>Vinyl floor covering</i>
15	1	<i>Footrest</i>
16	1	<i>Fuel gauge</i>
17	1	<i>Sub fuel gauge</i>
18	1	<i>Water temperature gauge</i>
19	1	<i>Glove box</i>
20	2	<i>Front headrests</i>
21	1	<i>Front heater</i>
22	1	<i>Front interior light</i>
23	1	<i>Interior rear view mirror (day and night)</i>
24	1	<i>Odometer (digital)</i>
25	1	<i>Pre-wiring for audio with 2 speakers and antenna</i>
26	3	<i>Front seat belts x 3 (2 x 3 point &amp; 1 x 2 point)</i>
27	1	<i>Floor silencer (under front seat)</i>
28	1	<i>Dash silencer (interior only)</i>
29	1	<i>Speedometer km/h</i>
30	1	<i>Steering column tilt and collapsible</i>
31	1	<i>Steering wheel lock</i>
32	2	<i>Sun visors</i>
33	1	<i>One touch 2-4WD selector</i>
34	1	<i>Trip Meter</i>
35	1	<i>Door ajar warning</i>
36	1	<i>Oil pressure warning light</i>
37	1	<i>Air cleaner warning</i>
38	1	<i>Brake fluid level warning</i>
39	1	<i>Parking brake warning light</i>
40	1	<i>Timing belt replacement warning light</i>
41	1	<i>Fuel level warning light</i>
42	1	<i>Owners manual in English</i>
43	1	<i>Body rust protection</i>
44	1	<i>Tool kit and Jack</i>
45	1	<i>Touch-up paint</i>
46	1	<i>Tubed tyres</i>
47	1	<i>Rear step bumper</i>
48	1	<i>Front bumper</i>
49	1	<i>Lockable fuel cap</i>
50	1	<i>Deck guard frame</i>
51	1	<i>Semi-sealed halogen headlamps</i>
52	1	<i>Manual free wheel hubs</i>



53	1	Exterior rear view mirrors
54	1	Front mudguards
55	1	Rear pintle hook
56	1	Side steps
57	1	Lockable spare wheel mounted behind the cabin -
58	1	Front stabiliser bar
59	1	Drop-down tail-gate with TOYOTA mark –
60	1	Front towing eye
61	1	Green laminated windshield
62	1	High/Low 2-speed windshield wipers (inc. mist)
63	1	Air conditioning

**Dealer Options Fitted:**

- Anti-theft package including locking wheel nuts, and Mul-T-Lock
- Engine immobiliser switch
- Heavy duty bull bar
- Seat belts – all locations
- Heavy duty roof rack with step
- Oxfam stickers to front doors – Oxfam code VOL
- Spares pack A (initial running spares) - Oxfam code VLCSA
- Fire Extinguisher 1 KG
- Vehicle First Aid Kit
- Oxfam code VT – vehicle tool kit

**Standard Additional Extras Available On Request:**

- *Fit KHM*            *Fit Oxfam code KHM, HF mobile radio*
- *FLAGS*            *Fit flag pole on roof rack, and pack two Oxfam flags (Oxfam code VF)*
- *SPARES B*        *Spares pack B (2 years spares pack) – Oxfam code VLCSB*
- *WINCH*            *Fit front winch and provide winch accessories kit (recovery blanket, bow shackles, gloves, recovery bag, block snatch 8 tonne, snatch strap 8 tonne, tree trunk protector, 20 metre winch strap)*

**User's Notes**

When ordering or asking for quote please indicate:

- LEFT or RIGHT Hand drive
- Any of the standard additional extras which are required
- Any other requirements of the vehicle

Specification date: 25<sup>th</sup> April 2007

Prepared by:            Logistics and Supply Team



**Code VLCSA/3****Toyota Land Cruiser Spares  
Pack A****This item is non-stock****General Specifications**

Unit GW: 20 kg  
 Approximate unit cost: £381 ex-works, Gibraltar

Item	Qty	Description
1.	2	OIL FILTER FOR DIESEL
2	2	FILTER ELEMENT FUEL
3	2	ELEMENT, AIR
4	1	V-BELT (AIR CON)
5	1	INNER TUBE
6	1	BULB/FUSE KIT H4A
7	4	GEAR OIL 80W90 1L
8	2	BRAKE FL. DOT4 750ML
9	1	GASKET
10	4	15W40 DIESEL 5L
11	1	WHEEL ASSY, DISC
12	1	INNER TUBE
13	1	DUNLOP QUALIFIER 750x16
14	1	FLAP 750X16

- Because brake fluid are hazardous goods they will not be included in any spares packs which are shipped via air.
- This kit is sent automatically when a new Toyota Land Cruiser is purchased.
- The exact contents of the kit are routinely reviewed and changed by the vehicle manufacturers.

**Packing**

Items to be packed in a sturdy triwall carton, marked "OXFAM CODE VLCSA" with gross weight and dimension clearly shown.

**Packing List**

One packing list to be securely fixed to the outside of the carton.  
 One packing list to be enclosed in the carton.

**Marking**

OXFAM CODE VLCSA, Gross weight, Dimensions

Specification date: 25 April, 2007  
 Prepared by: Logistics and Supply Team

**Code VLCSB/3 Toyota Land Cruiser Spares Pack**  
**B**

**This item is non-stock**

**General Specifications**

Gross weight: 140 kg  
 Volume: 0.790 m<sup>3</sup>  
 Dimensions 100 x 84 x 94 cm  
 Approximate unit cost: £1810.00

<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	10	OIL FILTER FOR DIESEL
2.	20	GASKET
3.	5	ELEMENT, AIR
4.	2	PAD KIT, DISC BRAKE
5.	1	SHOE KIT, BRAKE, RR
6.	1	BELT SET, V
7.	1	V-BELT
8.	12	BUSH
9.	1	HOSE, RADIATOR, NO.1
10.	1	THERMOSTAT
11.	1	GASKET, THERMOSTAT
12.	6	PLUG ASSY, GLOW
13.	6	NOZZLE ASSY
14.	1	PUMP ASSY, WATER
15.	1	WHEEL ASSY, DISC
16.	1	GASKET, CYLINDER
17.	1	BELT, TIMING
18.	3	CUSHION, EXHAUST
19.	10	NUT, HUB
20.	2	CYLINDER KIT, DISC
21.	2	CYLINDER KIT, WHEEL
22.	2	BEARING, TAPERED ROL
23.	2	BEARING, TAPERED ROL
24.	2	GASKET, FR AXLE
25.	2	SEAL, TYPE S OIL
26.	2	BEARING, TAPERED ROL
27.	2	BEARING, TAPERED ROL
28.	2	SEAL
29.	2	SEAL, TYPE S OIL
30.	2	GASKET, FR AXLE
31.	1	GASKET KIT, ENGINE



32.	1	WHEEL ASSY, DISC
33.	1	DUNLOP QUALIFIER 750 x 16
34.	1	INNER TUBE
35.	1	FLAP 750 x 16
36.	1	SHOCK ABSORBERS – FULL SET FRONT AND REAR 1
37.	2	WIPER BLADES
38.	1	BULB AND FUSE KIT
39.	2	END SUB-ASSY TIE
40.	1	DAMPER ASSY

*This kit is an optional extra and will not be sent with a new vehicle unless specifically requested.*

*The exact contents of the kit are routinely reviewed and changed by the vehicle manufacturers.*

*If the kit needs to be modified to your specific needs, please specify when ordering.*

*Please note, there is no Clutch Kit in this spares pack, these should be ordered separately depending on the location and proximity to Toyota dealerships. Based on the above recommendations are: 1 vehicle purchased = 1 Clutch Kit. 5 vehicles purchased = 1 Clutch Kit etc. Not necessary to have one for every vehicle.*

#### **Packing**

*Items to be packed in a sturdy triwall carton, marked "OXFAM CODE VLCSB/2" with gross weight and dimension clearly shown.*

#### **Packing List**

*One packing list to be securely fixed to the outside of the carton.  
One packing list to be enclosed in the carton.*

#### **Marking**

*OXFAM CODE VLCSB  
Gross weight  
Dimensions*

*Specification date: 25 April, 2007  
Prepared by: Logistics and Supply Team*



## Category W

### Well Digging

Code WEF/2	Engineers First Aid Kit	387
Code WSDP/6	Submersible Electrical Dewatering/Desludging Pump with Generator	389
Code WT6/1	Well Tripod Kit	391
Code WAS/2	Survey Auger Kit	392
<b>The items in italics are not Oxfam stock items:</b>		
The following kits are not commonly used, but the specifications have been prepared to facilitate the quick purchase and deployment of these items if required.		
Code WDHP/1	<i>Deep Well Hand Pump (for Wells 12–45 m)</i>	394
Code WET/1	<i>Tool Kit for Well Excavation</i>	397
Code WL+P/3	<i>Hand Dug Steel Well Liner (5 m of Perforated &amp; Non-Perforated Sheets)</i>	399
Code WM+P/3	<i>Well Mould for Non-Perforated &amp; Perforated Concrete Rings</i>	400
Code WSHP/1	<i>Shallow Well Hand Pump (for Wells 12 m Maximum)</i>	402





Code WEF/2

Engineers First Aid Kit

Gross weight: 6 kg  
 Volume: 0.027 m<sup>3</sup>  
 Dimensions: 35 x 45 x 17 cm  
 Approximate unit cost: £79.07



This Engineers First Aid Kit is part of the suggested equipment outlined in the Well Digging Pack Manual.

Item	Qty	Description
1.	5	Sam splints
2.	6	Extra large field dressings
3.	2	Medium field dressings – No.14
4.	1	Triangular bandage
5.	2	Conforming lightweight bandages BP 5 cm
6.	2	Conforming lightweight bandages BP 7.5 cm
7.	2	Packets cotton wool 25 g
8.	6	Tisept sachets antiseptic 25 ml
9.	2	Eye pads c/w bandage – No.16
10.	6	Normasol sachets Sod Chor 25 ml
11.	2	Eye baths – plastic
12.	6	Gloves latex exam – medium
13.	6	Gloves latex exam – large
14.	1	Mouth-to-mouth device shield – 'Isolaide'
15.	6	Alkotip pre-injection swabs
16.	12	Assorted Safety pins
17.	1	Haemostop dressing – 3 in 1 Bloodstopper
18.	40	Washproof plasters – assorted
19.	1	Washproof dressing strip – 7.5 cm x 1 m
20.	2	Foil blankets – adult
21.	1	Pair scissors – 5" Stainless Steel
22.	1	Pair heavy-duty rubber gloves
23.	1	St John's Ambulance First Aid Manual



24. 1 Oxfam emergency suture & injection pack in mini-grip bag containing:
- 1 x 5 ml Hypodermic syringe
  - 1 x 2 ml Hypodermic syringe
  - 2 x Alkotip injection swabs
  - 2 x Hypodermic needles 23 g x 1"
  - 2 x Hypodermic needles 25 g x 5/8"
  - 2 x Emergency sutures c/w needles
  - 2 x Butterfly cannulas winged infusion set
26. 1 Super multi dressing case c/w wall bracket

#### Packing and Marking

Items to be packed in a sturdy triwall carton, to be marked "OXFAM CODE WEF/2" with gross weight and dimensions clearly shown. Marks to be on the front and back of the carton. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the carton.  
One packing list to be enclosed in the carton.

Specification date: 19<sup>th</sup> March 2007

Prepared by: Public Health Engineering Team



**Code WSDP/6      Submersible Electrical Dewatering/Desludging  
Pump with Generator**

Gross weight: 210 kg  
 Volume: 0.8256 m<sup>3</sup>  
 Dimensions: 112 x 76 x 97 cm  
 Approximate unit cost: £2922.00



This is a lightweight electrical dewatering pump kit for handling heavily contaminated water with solids up to 50 mm in diameter. Maximum head 20 m.

Item	Qty	Description
1.	1	'PUMPSETS' Heron SH – 2QTP pump set comprising 2" (50 mm) immersible/submersible pump type SH with cast iron casing, screw type impeller and tandem mechanical seals running in oil bath. Direct driven by 1.5 kW, 400 V phase 50 Hz IP68 electric motor. Free standing on its own feet. Complete with male hose tail outlet and 25 metres of cable with 16 A plug fed from the generator set. The lead will be looped and cleated around the pump handle to prevent pulling on the internal connections.
2.	1	A removable anti-dive plate will be attached to the base of the pump to prevent 'boring' in muddy conditions.
3.	1	6000 watt 400 volt 3 phase 50 cycle brushless generator fitted with hours counter, 1 x 16 amp output socket protected by a power circuit breaker (ground fault detector) earth leakage trip to prevent fatal electric shocks, should the power lead or pump develop a fault or be damaged. Flanged coupled to a Briggs & Stratton OHV petrol engine type 245432 governed to run at 3000 rpm complete with recoil starter, 3 hour fuel tank, low oil protection, exhaust system, air and oil filters. The whole unit mounted on anti vibration mounts inside a robust tubular roll frame. Supplied with: <ul style="list-style-type: none"> <li>• 40 m Pump supporting rope (16 mm)</li> <li>• 20 m Electrical extension cable with socket connectors</li> <li>• 25 m 2" layflat canvas delivery hose &amp; 2" hose clip</li> <li>• Toolkit, comprising spark plug spanner, screwdriver and oil drain spanner, 5 x 1.4 litre containers of engine oil (allowing four complete refills plus spillage)</li> <li>• 1 Sliding collar to fit over the layflat where it exits the well</li> <li>• 1 2" BSPT Male hose coupling</li> </ul>
4.	1	Operator's manual
5.	1	Two-wheel site trolley for generator set
6.	1 set	Spares (for 1000 hrs operation): <ul style="list-style-type: none"> <li>• 2 Spark plugs</li> <li>• 2 Air filter elements</li> </ul>



- 1 16 A plug
  - 1 2" hose clip
7. 20 m Cable protection hose (fitted)

#### User's Notes

- The maximum head of the Heron pump is 20 m, this package is designed to dewater wells at around a depth of 15 m. If higher heads are required, then two WSDP/6s can be coupled together to give a maximum head of 40 m (7 m<sup>3</sup>/hr at 35 m head).
- This pump does not pump air, it does not need to be submersed to pump, as in the second pump when pumping in series, but when switching on there should always be water in the pump chamber or the seals will burn out after 1–2 minutes.
- The purpose of the base plate is to prevent the legs of the pump sinking into the mud causing the impeller to try and drill itself downwards, which results in the pump becoming clogged up. If the base plate is not present either suspend the pump just above the muddy bottom, turn it on its side or put it in a large perforated bucket.
- If the pump is near its maximum pumping depth the canvas layflat may need to be attached to a stake at the top of the well to prevent sliding back into the well. A hose connector can be attached to the end of the layflat to make it easier to tie to a stake.
- The Heron pump can be used for desludging latrine pits.

#### Instructions for coupling 2 × WSDP/6s together in series:

- Using the rope provided, the lower pump should be suspended (by a loop around the handle) at the bottom of the well. The second pump should be suspended some 15 m above the first pump. If two pumps are being used suspend each pump with a separate rope. Great care should be taken when lowering the pumps, and gloves should be worn.
- Remove the base plate on the second pump and connect the layflat distribution hose from the first pump into the bottom of the second pump, the kit contains a male connector for this.
- The electrical extension lead should be attached to the cable from the first pump. The connector is splash proof but not waterproof, so avoid submerging this connection under water.

#### Packing and Marking

Items to be packed in a sturdy plywood case, suitable for sea freight. Case to be marked "OXFAM CODE WSDP/6" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list to be securely fixed to the outside of the case.  
One packing list to be enclosed in the case.



Specification 2 October 2003  
date:  
Prepared by: Public Health Engineering Team

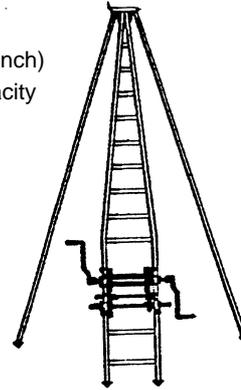
Code WT6/1

Well Tripod Kit

Gross weight: 485 kg  
 Volume: 1.344 m<sup>3</sup>  
 Dimensions: 280 x 80 x 60 cm  
 Approximate unit cost: £2291.32



Item	Qty	Description
1.	1	Steel tripod, length 6 metres, in parts of 2.40, 1.50 and 2.10 metres
2.	1	Spare head for tripod
3.	1	Handwinch with gear 1:4, with two handles
4.	1	50 metres galvanised steel wire 10 mm Ø, (for winch)
5.	1	Pulley Block with swivel hook, 8" Ø – 2 tons capacity
6.	1	Pulley Block with flapdoor, 5" Ø
7.	1	Double pulley block, 5" Ø
8.	4	Steel footplates 330 x 330 mm
9.	3	D-shackles 26 mm
10.	6	Thimbles for 10 mm wire
11.	12	Clamps for 10 mm wire
12.	1	Swivel hook, capacity 3 tons, with safety latch
13.	1	Swivel hook, capacity 3 tons, with ball bearing



#### Orange Colour Pulleys – extra for 20 mm Ø rope

14.	1	Pulley block 6" Ø, with glacier bush, capacity 2 tons
15.	1	Pulley block with flapdoor 6" Ø with glacier bush, capacity 2 tons
16.	1	Double pulley block, 6" Ø with glacier bush, capacity 3 tons

#### Packing and Marking

Items to be packed in a sturdy plywood case, suitable for sea freight. Case to be marked "OXFAM CODE WT6/1" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list to be securely fixed to the outside of the case.  
 One packing list to be enclosed in the case.

Specification date: 17 November 1997  
 Prepared by: Public Health Engineering Team

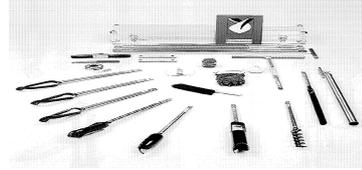


Code WAS/2

Survey Auger Kit

## Non-stock item

Gross weight: 215 kg  
 Volume: 0.384 m<sup>3</sup>  
 Dimensions: 120 x 80 x 40 cm  
 Approximate unit cost: £2331.06



Item	Qty	Description
1.	1	Pumphead jolly jumper
2.	1	Riser pipes 1½" Ø x 500 mm
3.	15	Riser pipes 1½" Ø x 1000 mm
4.	1	Riser clamp 1½" Ø
5.	1	Flexible hose 32/42 mm x 600 mm
6.	4	Hose clips 5/4" Ø
7.	2	Footvalves with strainers
8.	1	Water level meter 10 m
9.	1	Steel head for casing 90/76 mm Ø
10.	1	Casing plain ABS with steel thread connector 90/76 mm Ø x 500 mm
11.	12	Casing plain ABS with steel thread connector 90/76 mm Ø x 1000 mm
12.	3	Casing slotted with steel thread connector 90/76 mm Ø x 1000 mm
13.	1	Steel shoe for casing 90/76 mm Ø
14.	1	Tommy bar
15.	2	Clamps for casing 90 mm Ø
16.	1	Retriever for casing 90 mm Ø
17.	2	Spanners/catchers for screw connection
18.	1	Auger cleaner
19.	2	Pipe wrenches 3" Ø
20.	1	Flight auger 70 mm Ø
21.	1	Flight auger 100 mm Ø
22.	1	Spiral auger 40 mm Ø
23.	1	Stone auger 70 mm Ø
24.	1	Stone catcher 70 mm Ø
25.	1	Handle 26 mm Ø x 1000 mm
26.	1	Handle 26 mm Ø x 500 mm
27.	20	Extension rods 26 mm Ø x 1000 mm
28.	5	Sets spare conical thread connectors
29.	1	Open clay auger 70 mm Ø
30.	1	Open clay auger 100 mm Ø
31.	1	Riverside auger 70 mm Ø
32.	1	Spare ring with teeth 70 mm Ø
33.	1	Riverside auger 100 mm Ø



Item	Qty	Description
34.	1	Spare ring with teeth 100 mm Ø
35.	1	Bailer 63 mm Ø
36.	1	Spare valve for bailer 63 mm Ø
37.	1	Oxfam instruction manual for the Well Digging Pack (Oxfam code WDPM)

#### Packing and Marking

Items to be packed in a sturdy timber case suitable for air or sea freight. Case to be marked "OXFAM CODE WAS/2" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

#### Packing List

One packing list in a plastic bag to be securely fixed to the outside of the case.  
One packing list to be enclosed in the case.

Specification date: 17 November 1997

Prepared by: Public Health Engineering Team



**Code WDHP/1      Deep Well Hand Pump (for Wells 12–45 m)****Non-stock item**

Deep Well Handpump – Afridev

The following specification for deep well handpump is based on SKAT design and any supply of the same pump should conform to SKAT design and dimensions.

<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	1	<p>Pumphead assembly with adjustable handle consisting of:</p> <ul style="list-style-type: none"> <li>• Base flange, locking tabs, Fulcrum bracket, stopper plate, spout hexagonal bolts &amp; nuts.</li> <li>• Pump head cover – cover plate, side plate, shroud, deflector.</li> <li>• Pumphead bearing set – inner bearing bush, outer bearing bush, fulcrum and hunger pin assemblies, fulcrum pin, sleeve, lock pin washer, rodhanger pin, sleeve, hex nut, hex nut special, complete rear and front handle assembly)</li> </ul>
2.	1	<p>Pumpstand assembly complete, consisting of:</p> <ul style="list-style-type: none"> <li>• Stand flange, stand pipe, leg and gasket – pedestal arrangement as requested (steel version with three legged pedestal, or Concrete version, or all in steel version with cast-in foundation bolts).</li> </ul>
3.	1	<p>Pump rod assembly set consisting of:</p> <ul style="list-style-type: none"> <li>• 10 mm <math>\varnothing</math> Rods with hook and eye connectors, spacer, washer, plunger rod, plunger rod connector, U-hook (pick up hook) and footvalve connector.</li> <li>• Hot-dip galvanised iron – for non corrosive waters</li> <li>• Stainless steel for corrosive water (number of pump rods has to be determined depending on the depth of the well)</li> </ul>
4.	1	<p>Cylinder assembly set consisting of:</p> <ul style="list-style-type: none"> <li>• Of suction pipe, reducer cylinder pipe, liner, footvalve receiver, valve bobbin, plunger u-seal, O-ring receiver, O-ring footvalve, plunger/footvalve lower, plunger/footvalve upper, plunger/footvalve body, washer, sleeve, and rope.</li> </ul>
5.	1	<p>Rising main assembly – uPVC pipe (63 mm <math>\varnothing</math> external) – push fit, 3 m length each pipe (based on the well depth, number of pipes required to be specified ) Consists of:</p> <ul style="list-style-type: none"> <li>• Flapper, top sleeve, compression cone, rising main pipe, rod centraliser, rising main pipe centraliser, cementing glue and fluid cleaner. (No. of uPVC pipes will be determined depending on the well depth )</li> </ul>
6.	1	Fishing Tool. Fishing tool rod, cover plate, side plate, pin and fishing hook.
7.	1	Foldable Spanner. Spanner socket, handle, handle extension, pin.
8.	1	<p>Set of Spare Parts consisting of</p> <ul style="list-style-type: none"> <li>• Plastic bush bearing set</li> <li>• Rubber bobbin</li> <li>• U seal</li> <li>• O ring</li> </ul> <p>(Note: No. of spare parts required will be determined according to the number of years the spares are required for.)</p>



Note: Quality control of supplies by certified agents or their partners is necessary (e.g. In East Africa and India by Crown Agents).

#### User's Notes

#### **Afridev Handpumps for wells 12–45 m deep**

There are many types of handpumps which are VLOM (Village level operation & maintenance) one of which is the Afridev handpump. Basically, all VLOM handpumps are based on SKAT design which is available freely to all. One handpump, the Aquadev, which is also VLOM has a slight difference from the SKAT design, in that the couplings of the pump rods are by means of a plastic couplings.

The five major pump components of Afridev pumps are:

- Pump-head assembly
- Pump-stand
- Pump rod assembly
- Cylinder assembly
- Rising main and Fishing tool & spanner & spare parts for fast moving items.

#### **Pump-head assembly**

This is the top part of the pump which includes the cover, the fulcrum, the handle etc. Pump-stand assembly – is the part of the pump which supports the pump head above ground level.

The pump-stand pedestal design varies according to the specific requirement in the ground.

- All steel version with three legged pedestal designed for setting into the pump apron and concreted together, suitable for boreholes.
- Concrete version, suitable for casting integral with the pump apron - suitable for boreholes.
- All 'in steel' version, suitable for mounting directly onto pump aprons with cast-in foundation bolts suitable for boreholes and hand-dug wells.

For all these three pump-stand options, the pump-head design is the same, except the length of the spout which will have to be specified between 560 mm max. and 280 mm min.

#### **Pump rod assembly**

The pump rod assembly provides linkage between the handle and the plunger. The connection between rods is by means of a hook and eye system. It consists of the rods and rod centralisers.

The rods can be manufactured in three different materials with cost implications.

- for non-corrosive groundwaters **mild steel rods and mild steel fabricated connectors** are used. This is for waters with pH greater than 6.5 as a guide other parameters for determining corrosivity of water should be considered.
- for increased corrosion resistance **hot-dip galvanised mild steel pump rods and forged connectors** are used.
- **stainless steel rods and connectors** for waters with pH value less than 6.5, situations where corrosion conditions are particularly severe.



**Cylinder Assembly**

The cylinder assembly consists of washer, plunger, foot-valve, O-ring foot-valve, O-ring receiver, u-seal, plunger valve, bobbin, footvalve receiver brass liner, cylinder pipe, reducer and suction pipe. Suction pipe – requires provision to carry out modification as necessary in the case of the pump for use in dug wells.

**Rising Main**

Delivers water from the cylinder to the pumpstand. The rising main parts are: uPVC rising main pipe, pipe centraliser, compression cone and top sleeve. Pipe centraliser size depends on the casing dimension. For the case of dug wells, pipe centraliser is not that important. Cementing glue and fluid cleaner should also be part of the rising main.

**Fishing Tool**

This is a part of the handpump kit and is used to fish out the foot valve for maintenance or replacement. It consists of fishing hook, side plate and cover plate, and rod.

**Foldable spanner**

Foldable spanner is included with the pump. It is made up of spanner socket, handle and handle extension. This is the only tool required or needed for the installation of Afridev pumps. All the hexagonal bolts and nuts which are part of the hand pump are of the same dimensions, fitting the spanner.

**Common problems with Afridev pumps**

- buckling of rising main and eventual breaking
- breaking of rising main pipes at joints, due to weight or poor cementing glue
- difficulty connecting hook and eye of the pump rods, mainly due to poor forging of these parts
- snagging of foot valve inside the cylinder, due to poor quality of u rings and sometimes due to poor standard of cylinder lining, or due to the pump sucking sand particles because of improper location of suction pipe, or due to lack of gravel layer at the bottom of the well in the case of hand dug wells.

**Shallow well handpumps for wells up to 12m deep (see Oxfam code WSHP)**

These are direct action hand pumps which work under the simple principle of direct displacement. They are meant for shallow wells use, 12 m maximum. Usually the amount of water that can be raised in the rising main specially by elderly women and children is not more than 10 m of water column, and thus the pumps are commonly used with in 10 m well depth.

**Packing and Marking**

Items to be packed in a sturdy timber crate, suitable for sea freight. Crate to be marked "OXFAM CODE WDHP/1" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the case.  
One packing list to be enclosed in the case.

Specification date: 24 April 1998  
Prepared by: Public Health Engineering Team

**Code** WET/1**Tool Kit for Well Excavation****Non-stock item**

Gross weight: 179 kg  
 Volume: 1.066 m<sup>3</sup>  
 Dimensions: 146 x 57 x 114 cm  
 Approximate unit cost: £567.50



<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	2	Chisel and point pickaxe with hard wood handle
2.	2	Filling shovels 60 cm long shaft
3.	2	Mixing shovels 90 cm long shaft
4.	2	Iron pulley, malleable galvanised double sheave, block 200 kg capacity
5.	2	Miner's bar, one end chisel one end point, 3 cm dia., 1.5 m long
6.	1	Sledge hammer 3 kg weight
7.	1	Polypropylene rope, 20 mm dia. x 70 metres long
8.	4	Plastic helmet with chin strap
9.	4	Steel bucket, galvanised heavy duty
10.	1	10 mm sieve
11.	1	5 mm sieve
12.	1	3 mm sieve
13.	4	Trowels 20 cm blade
14.	2	Pliers side cutting 20 cm long
15.	4	Hacksaw 30 cm long 24 TPI with 10 spare blades
16.	1	Mason's bricklayer's level
17.	1	Cutters suitable for cutting sieves
18.	1	Plumb bob
19.	2	5 m tape measure
20.	1	30 m tape measure
21.	10 pairs	Gloves heavy duty
22.	2	Hardwood pickaxe handle
23.	4	Shovel handle
24.	1	Hammer handle
25.	1	Safety harness
26.	2 pairs	Wellington boots size 7



- 27. 3 pairs Wellington boots size 8
- 28. 3 pairs Wellington boots size 9
- 29. 2 pairs Wellington boots size 10
- 30. 12 pairs All purpose gloves
- 31. 1 Plastic fencing 50 m roll

**Packing and Marking**

*Items to be packed in a sturdy timber case, to be marked "OXFAM CODE WET/1" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.*

**Packing List**

*One packing list to be securely fixed to the outside of the case.  
One packing list to be enclosed in the case.*

Specification 2 September 1996  
date:

Prepared by: Public Health Engineering Team



**Code WL+P/3**      **Hand Dug Steel Well Liner (5 m of Perforated & Non-Perforated Sheets)**

**Non-stock item**

Gross weight: 1089 kg  
 Volume: 1.506 m<sup>3</sup>  
 Dimensions: 108 x 166 x 84 cm  
 Approximate unit cost: £965.22



Corrugated iron sheet liner (non-perforated & perforated), 60 cm depth, for hand dug wells comprising:

Item	Qty	Description
1.	12	Sheets, plain (non-perforated), galvanised corrugated MP68 bolted steel well lining, 67.7 mm x 12.7 mm corrugations (3 sheets form one ring of 1.3 m internal diameter)
2.	12	Sheets, (perforated with holes), galvanised corrugated MP68 bolted steel well lining, 67.7 mm x 12.7 mm corrugations (3 sheets form one ring of 1.3 m internal diameter)
3.	1	Tub with 250 standard nuts and bolts for above, M12 x 32 mm
4.	1	MP68 Tool Kit comprising: <ul style="list-style-type: none"> <li>• 2 22 mm A/F Box Spanner</li> <li>• 1 22 mm Open Ended Spanner/Podger</li> </ul>
5.	1	Oxfam instruction manual for Well Digging Pack (Oxfam code WDPM)

**Packing and Marking**

Items to be packed in a sturdy wooden crate, suitable for sea freight. Weight to be distributed evenly within the crate. Crate to be marked "OXFAM CODE WL+P/3" with gross weight and dimensions clearly shown. Marks to be on the front and back of the crate, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list to be securely fixed to the outside of the crate.  
 One packing list to be enclosed in the crate.

Specification date: 5 December 1997  
 Prepared by: Public Health Engineering Team



*Code WM+P/3 Well Mould for Non-Perforated & Perforated Concrete Rings*

**Non-stock item**

Gross weight: 451 kg  
 Volume: 1.141 m<sup>3</sup>  
 Dimensions: 127 x 107 x 84 cm  
 Approximate unit cost: £1315.58

1.5 m  $\varnothing$  steel well ring mould to standard specification – perforated, hand-dug well ring mould for concrete pre-cast rings. 1.5 m external, 1.3 m internal diameter, 0.6 m deep.

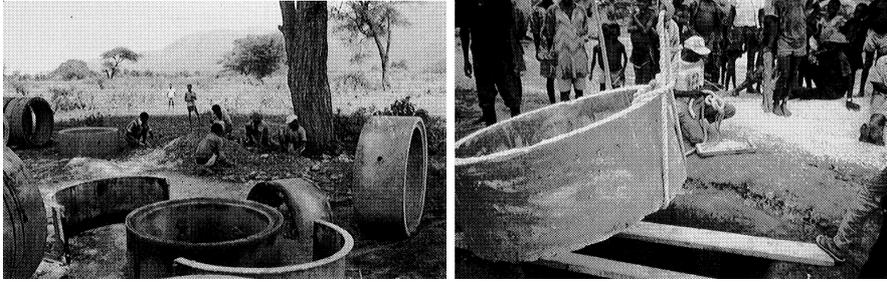
**Item Qty Description****Re-Usable Items**

1.	4	Base unit
2.	4	Outer mould panel with 48 No 14 mm dia. holes for perforations
3.	4	Inner mould panel with 48 No 14 mm dia. holes for perforations
4.	4	Inner mould infill channel
5.	1	Lifting beam
6.	2	Dowel bar fixing plate
7.	8	Clamping down plate
8.	4	Dowel hole cone
9.	8	Dowel hole cone unit (for timber or concrete base – 2 sets)
10.	15	Standard 12 mm dia. bolt x 30 mm length
11.	10	Standard 12 mm dia. nuts (2 spare)
12.	10	Fast thread 'L' bolt with nut (2 spare)
13.	16	Fast thread 12 mm dia. bolt x 105 mm length plus nut (2 spare)
14.	16	Fast thread 12 mm dia. bolt x 50 mm length plus nut (2 spare)
15.	48	10 mm dia. steel rods for forming perforations
16.	500	14 mm dia. plastic bungs for use in plugging perforation holes
17.	2	Spanners (open ended)
18.	1	Oxfam instruction manual for Well Digging Pack (Oxfam code WDPM)

**Expendable Items**

19.	40	Dowel/lifting bars (for 10 castings)
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#### *User's Notes*

*Whilst this ring mould is perforated, the use of the plastic plugs supplied (by placing these in the mould perforation holes) will enable the production of concrete rings without perforations. The plugs can be used many times but will eventually wear out, so five complete sets have been provided.*

**This is a non-stock item and isn't available from Oxford. This specification is to show what may be available locally.**

#### *Packing and Marking*

*Items to be packed in sturdy timber case(s), suitable for sea freight. Case(s) to be marked "OXFAM CODE WM+P/3" with gross weight and dimensions clearly shown. Marks to be on the front and back of the case(s), as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.*

#### **Packing List**

*One packing list in a plastic bag to be securely fixed to the outside of the case(s).  
One packing list to be enclosed in the case(s).*

*Specification date: 5 December 1997  
Prepared by: Public Health Engineering Team*



Code WSHP/1

Shallow Well Hand Pump  
(for Wells 12 m Maximum)**Non-stock item****Shallow Well Direct Action Handpump – Tara**

These are direct action handpumps which work under the simple principle of direct displacement. They are meant for shallow well use, 12 m maximum. Usually the amount of water that can be raised in the rising main, especially by elderly women and children, is not more than 10 m of water column, and thus the pumps are commonly used within 10 m well depth.

Item	Qty	Description
1.	1	Pumphead assembly consisting of: <ul style="list-style-type: none"> <li>• Hot-dip galvanised pump head grommet, handle cushions, top guide bush &amp; nut bolts.</li> </ul>
2.	1	Pump rod assembly consisting of: <ul style="list-style-type: none"> <li>• set of 4 no. of 32 mm NB uPVC pump rod 3 m long, each with solvent cemented knuckle threaded male/female adapter at one end and piston assembly with nitrile rubber cup seal at the other end.</li> </ul>
3.	1	32 mm uPVC piston rod of 1 m length having solvent cemented coupler at one end and piston assembly with nitrile rubber cup at the other end.
4.	1	Pump cylinder assembly consisting of: <ul style="list-style-type: none"> <li>• 50 mm NB uPVC cylinder of 3 m length having solvent cemented coupler at one end and foot valve retainer at the other, complete with foot valve assembly and rubber seat.</li> </ul>
5.	1	Rising main assembly consisting of: <ul style="list-style-type: none"> <li>• A set of 4 no. of 50 mm NB uPVC riser 3 m length with threaded coupler, solvent cemented at the ends.</li> </ul>
6.	1	A mild steel, electrogalvanised fishing rod 12 mm dia. x 2 m
7.	1	250 g of solvent cement in sealed containers
8.	1	Set of spare parts consisting of: <ul style="list-style-type: none"> <li>• O ring for foot valve assembly</li> <li>• Nitrile cup seal</li> <li>• Check nut (M12) for top end connector and piston grapple</li> <li>• Check nut (M8) for grapple assembly</li> <li>• Rubber flap valve for foot valve</li> <li>• Rubber flap valve for piston assembly</li> <li>• Electro galvanised M12x 40 Bolt with nut</li> <li>• Top handle cushion</li> <li>• Bottom handle cushion</li> <li>• Piston follower plate</li> </ul> (Note: Quantities of spare parts have to be determined depending on the number of years the spare parts are required for.)



Note: Quality control of supplies by certified agents or their partners is necessary (e.g. in East Africa and India by Crown Agents).

**Packing and Marking**

*Items to be packed in a sturdy timber crate, suitable for sea freight. Crate to be marked "OXFAM CODE WSHP/1" with gross weight and dimensions clearly shown. Marks to be on the front and back of the crate, as determined by the runners for the forklift. Oxfam logo to be painted black on all sides.*

**Packing List**

*One packing list to be securely fixed to the outside of the crate.  
One packing list to be enclosed in the crate.*

*Specification date: 28 April 1998*

*Prepared by: Public Health Engineering Team*



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## Category X

### Vector Control

Code XBN/4	Bale of 75 Impregnated Bednets	407
<b><i>The following items in italics are not Oxfam stock items</i></b>		
<i>The following kits are not commonly used, but the specifications have been prepared to facilitate the quick purchase and deployment of these items if required.</i>		
<i>For IRS campaigns see Oxfam IRS Guidelines and Training Guide for full details plus calculation guides for insecticide orders</i>		
Code XFT/2	<i>Fly Traps (50 in box)</i>	409
Code XI1/3	<i>Insecticide for Bednet Impregnation and IRS – Delthamethrin</i>	410
Code XI3/2	<i>Insecticide for Bednet Impregnation and IRS – Lambda-Cyhalothrin</i>	412
Code XRB/1	<i>25 Rubbish Disposal Bags (1 m<sup>3</sup>) for 2500 people</i>	414
Code XS/2	<i>Insecticide Sprayer</i>	415
Code XSM/2	<i>Insecticide Sprayer for IRS</i>	416
Code XSO/3	<i>Vector/Chemical Safety Outfit (for 2 people)</i>	418





Code XBN/4

Bale of 75 Impregnated Bednets

Gross weight: 39 kg  
 Volume: 0.128 m<sup>3</sup>  
 Dimensions 80 x 40 x 40 cm  
 Approximate unit £294.63  
 cost:



Item	Qty	Description
1.	1 bale	75 light blue Bednets, 130 x 180 x 150 cm, knitted from multifilament polyester fibres mesh (12 x 13 holes per inch) and impregnated with Permethrin and conforming to WHOPES certification
2.	1	Oxfam Information Sheet No 1 (General Information)

#### User's Notes

- These bednets are impregnated with photostable insecticides. There will be loss of efficacy if they are left open to air and light. Therefore they should be unpacked only at the time of distribution.
- Insecticides for re-impregnation should be ordered separately.

#### Information on Impregnated Bednets

This bednet is treated with Permethrin – Public Health Grade to give extra protection against bites from mosquito species during night-time use. The advantages of this impregnated net are: it repels mosquitoes, it also kills them when within or in contact with the net. In addition the bednet provides some protection to the user from fleas, bed-bugs, sandflies etc. The impregnated net can be used by adults and children for protection against mosquito- borne diseases and is recommended for use in areas with reported diseases such as malaria, dengue, encephalitis, etc.

- Bednet Material: knitted polyester
- Denier: 75
- Mesh: 156
- Size: 130 x 180 x 150 cm
- Impregnation: Permethrin Public Health Grade

Note: Where there is danger of disease transmission always sleep under a treated mosquito bednet. Use the net correctly: tuck edges under mattress, repair holes, do not approach net with naked flames e.g. candles. Re-treat the net with Registered Trademark Permethrin after 2–4 washings. It is recommended not to wash the bednet often and avoid using detergents.

Long-lasting bed nets with WHOPES certification are able to withstand more than 20 washes and last several years.

Allow x2 cost of nets for IEC activities to ensure correct use and to prevent re-sale. Also remember transport costs.



**Packing and Marking**

Each individual net to be packed in a plastic bag. 75 nets to be packed in a bale, marked "OXFAM CODE XBN/4" with gross weight and dimensions clearly shown.

**Packing List**

One packing list to be securely fixed to the outside of the bale.

One packing list to be enclosed in the bale.

Specification date: 31st March 2007

Prepared by: Public Health Promotion Team



**Code XFT/2****Fly Traps (50 in box)****Non-stock item**

Gross weight: 0 kg  
 Volume: 0.020 m<sup>3</sup>  
 Dimensions 20 x 50 x 20 cm  
 Approximate unit cost: £90.50 (per box of 50)



50 fly traps individually sealed in bags – each comprising:

Item	Qty	Description
1.	1	Clear plastic sachet containing 45 g of non-poisonous bait which is a blend of protein meals
2.	1	Clear tapering plastic bag with green plastic cover which has 18 mm hole on top and opening all along the circumference. A string for hanging the trap is attached to the cover
3.	1	A self-adhesive disc 5 cm in diameter for covering the hole after the mixture is poured in
4.	1	Instruction leaflet with details on how to prepare and use the trap

**Packing and Marking**

Each individual trap to be packed in a plastic bag. 50 traps to be packed in a cardboard box, marked "OXFAM CODE XFT/2" with gross weight and dimensions clearly shown.

**Packing List**

One packing list to be enclosed in the box.

Specification date: 31<sup>st</sup> January 2007  
 Prepared by: Public Health Promotion Team



**Code X11/3** *Insecticide for Bednet Impregnation and IRS – Delthamethrin*

**Non-stock item**



Item	Qty	Description
1.	10	One litre opaque white bottle containing 'K-Othrine Moustiquaire' 1% SC (Delthamethrin) insecticide for impregnation of bednets Order Wettable powder sachets for Indoor Residual Spraying (IRS)
2.	10	Pairs of plastic gloves (elbow length), medium size (for net impregnation staff - see section XSO/2 for IRS protective gear)

**User's Notes**

- Gloves **must** be used when dealing with Delthamethrin as it is known to cause skin irritation.
- For procedure of bednet impregnation see below:
- Choice of Deltamethrin or lambda-cyhalothrin (see next page) depends on Sensitivity of mosquitoes in that location – check with MOH or WHO over choice of insecticides.
- Liquid insecticides **cannot be transported by Air**. Wettable powders **can** be transported by air.
- Wettable powders are used for Indoor Residual Spraying (IRS) and are easier to handle in the field – see Oxfam IRS Guidelines

**Impregnation of bednets with Deltamethrin at a dosage of 20 mg per m<sup>2</sup> of net**  
**Materials needed:**

1. 'K-Othrine Moustiquaire' 1% SC Delthamethrin based insecticide.
2. Two plastic or aluminium bowls with 15–20 litres capacity, marked 1 and 2
3. 3 pairs of plastic gloves (elbow length), heavy rubber
4. A piece of plastic sheeting spread over the ground for drying nets

**Procedure**

Three people are needed when re-treating several bednets.

1. Measure 11 litres of water and add into bowl marked 1.
2. Add one litre of 'K-Othrine Moustiquaire' 1% SC to the water and mix well by stirring.



3. *Wearing plastic gloves dip one net in bowl marked 1 for 2 minutes ensuring all areas are thoroughly wetted. Squeeze gently and pass on to a second person also wearing plastic gloves, to hold over the bowl marked 2 to drip for 1½ minutes.*
4. *The second person then passes the bednet on to the third person (again wearing gloves) who lays it on the plastic sheeting spread on the ground in the shade. The bednet needs to be turned over every 1–2 hours and left to dry overnight.*
5. *Repeat the procedure for other bednets topping up with the same strength solution every time the volume falls down to about 4 litres.*
6. *Fold the dried bednets neatly and place them in individual plastic bags until required for use.*

**For Indoor Residual Spraying - IRS see Oxfam IRS Guidelines 2005 booklet for calculations of insecticide requirements and of full order lists and training needs etc**

#### *Packing and Marking*

*Items to be packed in a cardboard box, marked "OXFAM CODE X11/3" with gross weight and dimensions clearly shown.*

#### **Packing List**

*One packing list in a plastic bag to be securely fixed to the outside of the box.*

Specification date: 29 March 2007

Prepared by: Public Health Promotion Team



**Code X13/2**      *Insecticide for Bednet Impregnation and IRS –  
Lambda-Cyhalothrin*

**Non-stock item**

<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	6	One litre 'autodose' plastic bottles containing lambda-cyhalothrin insecticide for impregnating bednets and curtains. Order Wettable powder sachets for Indoor Residual Spraying (IRS)
2.	6	Pairs of hard rubber gloves, elbow length, medium size (for net impregnation staff - see section XSO/2 for IRS protective gear)

**User's Notes**

Make sure to use gloves when dealing with this product. Overdose of lambda-cyhalothrin may cause people using treated nets to sneeze. To reduce this effect nets should be rinsed in clean water. This product can be harmful to fish and should not be allowed to pollute aquatic habitats.

- Choice of Deltamethrin or lambda-cyhalothrin (see previous page) depends on Sensitivity of mosquitoes in that location – check with MOH or WHO over choice of insecticides.
- Liquid insecticides **cannot be transported by Air**. Wettable powders **can** be transported by Air.
- Wettable powder sachets are used for Indoor Residual Spraying (IRS) and are easier to handle in the field – see Oxfam IRS Guidelines

**Impregnation of bednets with Lambda-Cyhalothrin at a dosage of 10 mg per m<sup>2</sup> of net**  
**Materials needed**

1. 'ICON' 2.5 CS lambda-cyhalothrin 2.5% capsule suspension (microencapsulated)
2. Two plastic or aluminium bowls of about 30 litre capacity, marked 1 and 2.
3. Three pairs of plastic gloves, elbow length heavy duty.
4. A piece of plastic sheeting spread over the ground for drying the nets.

**Procedure**

Three people are needed when re-treating several bednets

1. Measure 24.5 litres of water and add into bowl marked 1.
2. Add half a litre of 'ICON' 2.5 CS to the 24.5 litres of water and mix well by stirring.

3. *Wearing plastic gloves, dip one net in bowl marked 1 for two minutes ensuring all areas are thoroughly wetted. Squeeze gently and pass on to a second person also wearing plastic gloves, to hold it over the bowl marked 2 to drip for 1½ minutes.*
4. *The second person then passes the net to the third person (again wearing gloves) who lays it on the plastic sheeting spread on the ground in the shade. The treated bednet should be turned over every 1–2 hours and left to dry overnight.*
5. *Repeat this procedure for other nets topping up with the same strength solution every time the volume falls down to about four litres.*
6. *If the nets are not to be used immediately, fold the dried nets neatly and place them in individual plastic bags until required for use.*

**For Indoor Residual Spraying - IRS see Oxfam IRS Guidelines 2005 booklet for calculations of insecticide requirements and of full order lists and training needs etc**

#### *Packing and Marking*

*Items to be packed in a cardboard box, marked "OXFAM CODE X13/2" with gross weight and dimensions clearly shown.*

#### **Packing List**

*One packing list in a plastic bag to be securely fixed to the outside of the box.*

*Specification date: 14 March 2007*

*Prepared by: Public Health Promotion Team*



**Code XRB/1 25 Rubbish Disposal Bags (1 m<sup>3</sup>) for 2500 people****Non-stock item**

Gross weight: 30 kg  
 Volume: 0.203 m<sup>3</sup>  
 Dimensions 89 x 125 x 110 cm  
 Approximate unit cost: £123.75



Item	Qty	Description
1.	25	FIBC (flexible intermediate bulk carrier) woven Polypropylene bags 90 x 90 x 90 cm open top, plain base, 1000 kg, 4 lifting loops, uncoated.

**User's Notes**

- These bags offer a quick method for setting up a solid waste disposal system. Some form of frame made of locally available sticks would be useful to keep the mouth of the bag open. As a guideline it is suggested that 1 bag is provided for every 100 people. Care should be taken to ensure that rat and other vector breeding is not encouraged by using sacks in this way by ensuring regular emptying of the sacks.
- Woven polypropylene is resistant to degradation by sunlight and should last at least 1 year. Also it is not prone to rotting when wet.
- The sacks will self drain if rain and water enters the top of an open bag, though water may have a rotting/degrading effect on the contents of the bags.
- While the bag is not intended to store raw sewage/excreta, it is thought that the sacks may have a working life of up to 2 years before they start to rot.

**Packing and Marking**

Each individual trap to be packed in a sturdy triwall carton, marked "OXFAM CODE XRB/1" with gross weight and dimensions clearly shown.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the carton.  
 One packing list, including Oxfam User's Notes, to be enclosed in the carton.

Specification date: 2 March 2007  
 Prepared by: Public Health Promotion Team



**Code XS/2****Insecticide Sprayer****Non-stock item**

Gross weight: 6 kg  
 Volume: 0.043 m<sup>3</sup>  
 Dimensions 42 x 18 x 57 cm  
 Approximate unit £66.00  
 cost:

<b>Item</b>	<b>Qty</b>	<b>Description</b>
1.	1	15 litre capacity Backpack Polyethylene Tank made of HDPE ultra violet resistant plastic fitted with strap, 135 cm pressure hose and piston type pump with working pressure from 1–6 bars (15–90 psi) left or right hand operation and mechanical paddle agitator to keep the chemicals well mixed (Allman product code 192-052)
2.	1	Metallic pumping lever with plastic covered handle
3.	1	Trigger valve
4.	1	60 cm length of 10 mm diameter Brass Extension Tube
5.	1	Plastic bag with spare nozzles and accessories
6.	1	JD-12p plastic nozzle

**User's Notes**

- This kit is for spraying various types of insecticides for the control of vectors of Public Health importance. However, other types of sprayers conforming to WHO specifications must be used for residual spraying in malaria control. (presently only Hudson and Sumitomo sprayers have met WHO specifications required - March 2007)
- Safety outfits Oxfam code XSO must always be used with them and a separate order should be placed. Order 1 x Oxfam code XSO (each 2 Safety Outfits) for each sprayer as the Sprayer will last longer.
- Order insecticides separately (Oxfam code XI – Insecticide for Bednet Impregnation). Alternatively, insecticides that may be locally available could be used.
- Remember liquid insecticides cannot be transported by air.

**Packing and Marking**

Items to be packed in a sturdy triwall carton, marked "OXFAM CODE XS/2" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the carton.  
 One packing list, including Oxfam User's Notes, to be placed inside the carton in a grip-seal plastic bag.

Specification date: 31 January 2007  
 Prepared by: Public Health Promotion Team



Code XSM/2

Insecticide Sprayer for IRS

**Non-stock item**

Gross weight: 5 kg  
 Volume: 0.030 m<sup>3</sup>  
 Dimensions 21 x 20 x 72 cm  
 Approximate unit £140.00  
 cost:



Item	Qty	Description
1.	1	11.4 litre capacity cylindrical tank made of high quality chromium nickel stainless steel that is most resistant to corrosion and pesticides. The tank is fitted with shoulder strap made of heavy-duty polypropylene web, 51 mm wide, 3 mm thick and 1016 mm long, that is adjustable to a desired fitting. Wide spring steel clips attach the strap to extra strong loops. (Allman product code 192-061)
2.	1	Pump cylinder made of extruded brass tubing that can withstand 1035 kPa pressure. Zinc-coated cold-rolled steel tubing plunger with extra big to-handle for easy and comfortable two-hand pumping.
3.	1	Pressure regulator pre-set at factory to deliver 172 kPa within the discharge line regardless of pressure variation within the operational range. Nozzle flow regulator maintains even discharge at uniform pressure of 68.9 kPa to 82.7 kPa throughout the permissible pressure range.
4.	1	Tubular brass spray extension, 610 mm long, attached to seamless supply tube
5.	1	Nozzle assembly consisting of brass nozzle, body and nozzle cappolyethelene gasket and a hardened stainless steel nozzle tip

**User's Notes**

This kit is suitable for residual spraying, particularly in malaria control (IRS) programmes. It complies with WHO specification no. WHO/VBC/89.970. It is recommended for use with solutions or wettable powders. See [http://www.hdhudson.com/PDF files/Xpert E.pdf](http://www.hdhudson.com/PDF_files/Xpert_E.pdf) for details.

- Hudson sprayers come in 2 or 3 gallon sizes. 2 gallons (11.4 litres) is preferable, especially for women operatives. Hudson sprayers do **NOT come with tools or spares**. These must therefore be ordered separately – see IRS guidelines for suggested spares (nozzles and washers) depending on size of campaign.
- Sumitomo sprayers, the other WHO approved sprayers for IRS - and more easily available in Asia - comes in 8 and 10 litre sizes, & always **come with a set of tools and spares**. Both makes are highly robust and should last for decades – with some spares as required!
- Order insecticides separately (Oxfam code XI – Insecticide for Bednet Impregnation). Alternatively, insecticides that may be locally available could be used.
- Remember liquid insecticides **cannot be transported by air**. Wettable powders **can** be transported by air.



- *Safety outfits Oxfam code XSO must always be used with them and a separate order should be placed. Order 1 x Oxfam code XSO (each 2 Safety Outfits) for each sprayer as the Sprayer will last longer.*

#### *Packing and Marking*

*Items to be packed in a sturdy triwall carton, marked "OXFAM CODE XSM/2" with gross weight and dimensions clearly shown. Oxfam logo to be painted black on all sides.*

#### **Packing List**

*One packing list in a plastic bag to be securely fixed to the outside of the carton.*

*One packing list, including Oxfam User's Notes, to be placed inside the carton in a grip-seal plastic bag.*

Specification date: 25 March 2007

Prepared by: Public Health Promotion Team



**Code XSO/3 Vector/Chemical Safety Outfit (for 2 people)****Non-stock item**

Gross weight: 6 kg  
 Volume: 0.012 m<sup>3</sup>  
 Dimensions 38 x 29 x 11 cm  
 Approximate unit £39.84  
 cost:



Item	Qty	Description
1.	2	Face shield
2.	2	Pairs of goggles
3.	10	Disposable face mask
4.	2	Disposable polypropylene coated coverall
5.	2	Pairs of nitrile gloves
6.	2	Saranex apron

**User's Notes**

- The items in this kit **must be used** when handling insecticides either during spraying activities, or during the re-impregnation of bednets.
- Order 1 x Oxfam code XSO/3 Vector/Chemical Safety Outfit (which contains two sets of protective items) for every 1 x Oxfam code XS/2, Insecticide Sprayer that you order, as the sprayers will last longer.
- Also provide short Wellington boots for the IRS team – sizes for men and women in the team.

**Packing and Marking**

Items to be packed in a cardboard box, marked "OXFAM CODE XSO/3".

**Packing List**

One packing list in a plastic bag to be securely fixed to the outside of the box.  
 One packing list to be enclosed in the box.

Specification date: 25 March 2007  
 Prepared by: Public Health Promotion Team



## Glossary

### Units of Measurement

#### Length

m	metre	1 m = 100 cm = 1000 mm = 3.28 ft
cm	centimetre	1 cm = 10 mm = 0.394"
mm	millimetre	
ft	foot	1 ft = 12" = 0.305 m
"	inch	1" = 25.4 mm

#### Volume

m <sup>3</sup>	cubic metre	1 m <sup>3</sup> = 1000 L = 1 000 000 cc
L	litre	1 L = 1000 cc
cc	cubic centimetre	

#### Weight

MT	metric tonne	1 MT = 1000 kg
kg	kilogram	1 kg = 1000 g = 2.20 lb
g	gram	1 g = 1000 mg = 0.035 oz
mg	milligram	
lb	pound	1 lb = 16 oz = 0.454 kg
oz	ounce	1 oz = 28.3 g

#### Pressure

psi	pounds per square inch	1 psi = 0.069 bar
bar	bar	1 bar = 14.5 psi

#### Power

kW	kilowatt	1 kW = 1000 W = 1.34 HP
W	watt	
HP	horsepower	1 HP = 0.746 kW
kWh	kilowatt hour	1 kWh = 1 kW × 1 hour

#### Electrical

A	ampere
V	volt

#### Common Abbreviations

AC	alternating current – electricity from the mains supply
DC	direct current – electricity from a battery
dia.	diameter
HF	high frequency radio wave
NiCad	nickel cadmium battery – with memory effect
NiMH	nickel metal hybrid battery – without memory effect
ppm	parts per million
VHF	very high frequency radio wave

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