

WASH Cluster Stockpile

Kit and Equipment Procurement Specifications

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WASH Procurement Specification

Item code:	Title:
W1/T1	Pumping, Petrol pump set with hose 2", portable lightweight, 21m³/hr

Description

Lightweight, petrol powered water pump, used to draw at a depth of less than 7 metres. Pump suitable for non-continuous operation and frequent installation/dismantling.

Specification

PUMP

- 2" Self priming centrifugal pump of thermoplastic construction fitted with long life carbide/carbon mechanical seal.
- 2" BSP(M) threaded inlet and outlet connections.
- Single cylinder engine, OHV, petrol engine, complete with low oil protection.
- Pump and engine mounted on a tubular steel roll over frame with anti-vibration mounts.
- Maximum weight:30kg
- *Performance:*
- Minimum suction head: 5m
- Minimum total head: 25m
- Minimum yield: 21m³/hr

Hoses and fittings

- 2" Rigid Flexible hose, PVC, rating 3 bar (minimum)
- Guillemin Symmetric rapid fitting DN50 connections, aluminium with locking ring and sealing washer (except where noted)

Spares and consumables

- Parts for 500 hours operation in a harsh environment, to include: air filters (x4), oil filters (x2), fuel filters (x2), spark plugs (x2), priming plug and gasket (x5), engine oil
- Tools to enable replacement of all filters and plugs, and simple servicing

Components included

	Quantity	Item
1	1	Pump with petrol engine. Guillemin coupling DN50, threaded female, (without locking ring) fitted to the inlet/outlet
2	2	2" Rigid flexible hose, PVC, 8m, with Guillemin couplings DN50 fitted and secured with a bolted hose clip
3	1	2" BSP(F-M) 90° Sweep bend, PVC/PE
4	1	2" Rigid flexible hose, PVC, 8m, with a non-return/strainer foot valve and Guillemin coupling DN50 fitted and secured with a bolted hose clip
5	2	Hook Spanner/wrench, for Guillemin coupling DN50 to DN80
6	5	Thread Seal tape, Teflon, roll
7	1	Spanner/wrench to suit bolted hose clips
8	1	Spares pack for 500hrs, including engine oil
9	1	Tool kit
10	1	Funnel, with water retention filter (approx. Size: dia. 220mm, H 250mm)
11	1	Jerry can, 20L, steel
12	6	Oil, Engine, 15W40, 1L

Resources included

Operator's guide and maintenance manual

Parts list to enable ordering of spares

Packaging and marking

- All items packed into a plywood crate with forklift runners and banded. Forklift runners to be 10cm high, minimum. All wood to be ISPM15 certified where required.
- Code **WASH W1:T1**, purchase order number, and gross weight & dimensions should be clearly displayed externally on the crate.
- One packing list packed internally and another securely attached externally in a grip seal plastic bag.

WASH Procurement Specification

Item code:	Title:
T2	Transport, Bladder tank, PVC for trucking, 6m³

Description

Flexible 'pillow shaped' bladder tank of 5-6 m³ and accessories, for the transport of drinking water on a trailer or flat bed truck. The kit can also be used for the storage, chlorination and distribution of drinking water.

Specification

TANK

- Flexible, heavy duty, food quality PVC coated polyester (minimum 1100g/m²)
- UV resistant and suitable for chlorinated drinking water
- Specifically designed for high pressure resistance for use on a tanker truck
- Fitted with a minimum of 2 heavy-duty polyester webbing straps per side, plus 2 straps per end. Strap ends terminate with eyeholes and /or loops to secure the tank. Set of tie-down straps with hooks and tighteners.
- Dimensions when empty (**approx**): 4.5 x 2.0m
- Maximum width 2.2m
- Height when full (approx): 1.1m
- Capacity 5000 - 6000 litres
- Central inlet opening with lid - on top of the tank for filling
- 1 outlet, 2" BSP(M) PVC/aluminium, located on the short side of the bladder, in the centre and close to the horizontal central line.
- Over-pressure release valves with rubber plugs
- Repair set (NOTE: If glue is included it must be non-hazardous for air freight)
- Groundsheet – 1m larger than the tank dimensions
- Hold-all bag – for tank storage and transport

Accessories

- 2" DN50 Rigid-flexible hose, PVC, rating 3 bar (minimum)
- Guillemin couplings with locking ring and sealing washer, aluminium

Components

	Quantity	Item
1	1	Bladder tank, with harness, Guillemin DN50 coupling fitted to the outlet
2	1	Tank repair kit
3	1	Ground sheet
4	1	Hold-all bag – for bladder
5	12	Tie-down straps with hooks and tighteners
6	1	2" Rigid-flexible hose, 8m, PVC with Guillemin couplings fitted and secured with a bolted hose clip
7	1	2" BSP(F) Gate valve, brass with (x2) Guillemin DN50 couplings fitted
8	1	Hook spanner/wrench for Guillemin DN50 coupling
9	2	Guillemin DN50 coupling sealing ring - spares

Packaging and marking

- All items packed into a wooden crate with forklift runners and banded. Forklift runners to be 10cm high. All wood to be ISPM15 certified where required.
- Code **WASH T2**, gross weight & dimensions should be clearly displayed externally on the crate.
- One packing list packed internally and another securely attached externally in a grip seal plastic bag.

WASH Procurement Specification

Item code:	Title:
D1/T7	Storage, Bladder tank, PVC for ground, 10m³

Description

Flexible 'pillow shaped' bladder tank of 10-15 m³ and accessories, for the storage, chlorination and distribution of drinking water.

Kit is suitable for emergency or short term water provision for a large displaced population.

Specification

TANK

- Flexible, heavy duty, food quality PVC coated polyester (minimum \geq 900g/m²)
- UV resistant and suitable for chlorinated drinking water
- Dimensions when empty (**approx**): 4x7m
- Capacity 10,000 – 15,000 litres
- Central inlet opening with lid on top of the tank for filling
- 2 outlets, 2" BSP(M) PVC/aluminium, located on one short side of the bladder, close to the horizontal central line.
- Repair set (NOTE: If glue is included it must be non-hazardous for air freight)
- Groundsheet – 1m larger than the tank dimensions

Accessories

- 2" DN50 Rigid-flexible hose, PVC, rating 3 bar (minimum)
- Lay flat hose minimum pressure rating 5 bar
- Guillemin couplings with locking ring and sealing washer, aluminium

Components included

	Quantity	Items
1	1	Bladder tank
2	1	Groundsheet
3	1	Tank repair kit
4	50m	Rope, 5mm, polypropylene
5	2	Guillemin DN50 to 2"BSP(F) coupling – for tank outlets
6	1	2" BSP(F) Elbow 90°, PVC/GI
7	1	2" BSP(F) Tee, GI
8	7	Guillemin DN50 to 2"BSP(M) coupling, without locking ring
9	1	Guillemin Symm.half Coupling DN50) Plug with Chain
10	1	Coupling Reducer, 2" BSP(F) to 3/4" push fit, PVC
11	1	2" BSP(F) Gate valve, brass
12	3	2" Rigid-flexible hose, 8m, PVC fitted with Guillemin DN50 couplings secured with a bolted hose clip
13	1	2" Lay flat hose, 25m, fitted with Guillemin DN50 couplings secured with a bolted hose clip
13	2	Thread jointing tape, Teflon, rolls
14	2	Hook spanner for Guillemin fittings DN50
15	4	Sealing washers for Guillemin DN50 couplings - spares

NOTE: Tee (item 7), Valve (item 11) and Elbow (item 6) to be pre-assembled with Guillemin fittings (item 8) using Teflon thread sealing tape

Packaging and marking

- All items packed into a wooden crate with forklift runners and banded. Forklift runners to be 10cm high. All wood to be ISPM15 certified where required.
- Code **WASH D1/T1**, purchase order number, gross weight & dimensions should be clearly displayed externally on the crate.
- One packing list packed internally and another securely attached externally in a grip seal plastic bag.

WASH Procurement Specification

Item code:	Title:
W10	Storage, 'Fast' tank, Complete, 30m³

Description

'Fast' 'Rapid' or 'Quick' Tank, constructed of steel tube frame, with PVC coated polyester fabric or PES main bag, 20-30m³ capacity - for the storage, chlorination and distribution of drinking water or for the treatment of raw water. Supplied with hoses and fittings. Easy and rapid to erect and dismantle.

Specification

TANK

- Flexible, heavy duty, food quality PVC coated polyester ($\geq 900\text{g/m}^2$)
- Galvanised steel tube frame with cast aluminium fittings
- UV resistant and suitable for chlorinated drinking water
- Dimensions (**approx**):
Base diameter >7m
Height 0.75m
- Capacity 20,000 - 30,000 litres
- 2 outlets, 3" BSP(M) PVC/aluminium, located on opposite sides of the tank. One fitted with threaded connector inside the tank
- Repair set (NOTE: If glue is included it must be non-hazardous for air freight)
- Groundsheet - 1m larger than the tank dimensions

Accessories

- 2" DN50 Rigid-flexible hose, PVC, rating 3 bar (minimum)
- Guillemin couplings with locking ring and sealing washer, aluminium
- Allen key and other tools required to assemble the tank

Components included

	Quantity	Items
1	1	'Fast' Tank
2	1	Groundsheet
3	1	Tank repair kit
4	100m	Rope, 5mm, polypropylene
5	2	Guillemin DN80 to 3" BSP(M) coupling
6	1	Guillemin DN80 to 3" BSP(F) coupling
7	2	Guillemin DN80 coupling with plug and chain
8	2	Guillemin DN80-50 Reducing coupling
9	2	3" BSP(F) Gate valve, brass
10	1	3" BSP(M-F) Elbow, GI
11	2	2" Rigid-flexible hose, 8m, PVC fitted with Guillemin DN50 couplings secured with a bolted hose clip
12	2	Thread jointing tape, Teflon, rolls
13	2	Hook spanner for Guillemin fittings DN50/80

Packaging and marking

- All items packed into a wooden crate with forklift runners and banded. Forklift runners to be 10cm high. All wood to be ISPM15 certified where required.
- Code **WASH W10**, purchase order number, gross weight & dimensions should be clearly displayed externally on the crate.
- One packing list packed internally and another securely attached externally in a grip seal plastic bag.

WASH Procurement Specification

Item code:	Title:
W2	Storage, Onion tank, Complete, 30m³

Description

Flexible, self-supporting 'Onion' tank, 30m³ with cover and accessories - for the storage, chlorination and distribution of drinking water or for the treatment of raw water.

Easy and rapid to erect and dismantle.

Specification

TANK

- Flexible, heavy duty, food quality PVC coated polyester (minimum \geq 900g/m²)
- UV resistant and suitable for chlorinated drinking water
- Tank fitted with fixings to hold cover
- Tank cover
- Dimensions (**approx**):
Base diameter 5.5m
Height 1.5m
- Capacity 30,000 litres
- 2 outlets, 3" BSP(M) PVC/aluminium, located on opposite sides of the tank.
- Repair set (NOTE: If glue is included it must be non-hazardous for air freight)
- Groundsheet – 1m larger than the tank dimensions

Accessories

- 2" ND50 Rigid-flexible hose, PVC, rating 3 bar (minimum)
- Guillemin couplings with locking ring and sealing washer, aluminium

Components included

	Quantity	Items
1	1	Onion tank
2	1	Groundsheet
3	1	Cover
4	1	Tank repair kit
5	100m	Rope, 5mm, polypropylene
6	2	Guillemin DN80 to 3" BSP(M) coupling
7	1	Guillemin DN80 to 3" BSP(F) coupling
8	2	Guillemin DN80 coupling with plug and chain
9	2	Guillemin ND80-50 Reducing coupling
10	2	3" BSP(F) Gate valve, brass
11	2	2" Rigid-flexible hose, 8m, PVC fitted with Guillemin ND50 couplings secured with a bolted hose clip
12	2	Thread jointing tape, Teflon, rolls
13	2	Hook spanner for Guillemin fittings ND50/80

Packaging and marking

- All items packed into a wooden crate with forklift runners and banded. Forklift runners to be 10cm high. All wood to be ISPM15 certified where required.
- Code **WASH W2**, purchase order number, gross weight & dimensions should be clearly displayed externally on the crate.
- One packing list packed internally and another securely attached externally in a grip seal plastic bag.

WASH Procurement Specification

Item code:	Title:
W3	Treatment, Equipment, System, Alum suction side dosing kit

Description

Module used for the instant mixing of chemical solutions to raw water at a constant flow rate and exact dosage in order to improve assisted sedimentation (aluminium sulphate), for pH correction (lime), or for disinfection (chlorine).

For use with WASH Item code: W1/T1 2" Pump.

Specification

- The kit contains all the material (regulation valve, flow meter, all pipes and fittings) required for the quick and exact dosing and instant mixing of chemical solutions with (raw) water that is pumped with a standard 2" motor pump.
- Minimum dosing flow rate :15 l/h
- Maximum dosing flow rate : 150l/h
- The suction side dosing module can be used with a motor pump to supply several assisted sedimentation tanks in parallel.

Components included

	Qty	Item
1	1	125-210 litre (approx) MDPE round tank with lid (large, round opening with removable lid to allow access for mixing solution and cleaning the tank). Outlet located on the side of the tank near the base. Fitted with an on/off PVC ½" valve with threaded sockets (F). Tank fitted with an internal filter/strainer, (to cover the outlet).
2	6m	12mm dia. clear flexible pipe, with 4 jubilee clips
3	2	½" BSP(M) to 12mm, Hose coupler, brass – fitted to item 2
4	1	½" Georg Fischer type 323 (or equivalent) PVC metering ball valve, with threaded sockets (F)
5	1	1" to ½" BSP(M) Reducing nipple, GI
6	1	1" BSP(F) Elbow, GI
7	1	1" BSP(M) Nipple, GI
		Connect to 2" suction main
8	1	2" to 1" BSP(F) Reduced branch tee, GI
9	1	2" BSP(M) Nipple, GI
10	1	2" BSP(F) Gate valve, brass
11	2	Guillemin DN50 to 2" BSP(M) couplings
12	1m	2" Rigid flexible hose, PVC fitted with Guillemin (LR) hose tails secured with bolted hose clips
13	2	Thread jointing tape, Teflon, rolls
14	2	Guillemin coupling wrench DN50/80
15	1	Roll of Gaffer tape, 50mm wide, 50m

NOTE: Items 11,8,9,10,11 to be supplied pre-assembled (in that order) with Teflon thread sealing tape

Packaging and marking

- All items packed into a wooden crate with forklift runners and banded. Forklift runners to be 10cm high. All wood to be ISPM15 certified where required.
- Code **WASH W3**, purchase order number, gross weight & dimensions should be clearly displayed externally on the crate.
- One packing list packed internally and another securely attached externally in a grip seal plastic bag.

WASH Procurement Specification

Item code:	Title:
W7/T3/D9	Distribution, Suction hose, Low toxicity, 2"

Definition

Complementary pipes for motor pump and water tanks, used to transport water in emergency and short term programmes.

Specification

- 150 metres of 2" DN50 hose, 30m lengths
- Minimum pressure rating: 3 bar
- Fitted with Guillemin DN50 rapid fittings with locking ring and sealing washer

Components included

	Quantity	Item
1	5	30m, 2" rigid flexible hose, PVC, fitted each end with 50mm Guillemin hose tail secured with a bolted hose clip
2	12	2" BSP(M) to 50mm Guillemin coupling without locking ring
3	4	2" BSP(F) Tee, GI
4	4	Guillemin 2", DN50, hose tail
5	2	Guillemin coupling ring wrench, 50mm
6	5	Thread jointing tape, Teflon, rolls
7	6	Gaskets for 50mm Guillemin fittings - spares
8	4	Bolted hose clips for 50mm rigid flexible hose
9	2	Combination wrench - for bolted hose clips

NOTE: Items 2 and 3 to be pre-assembled with Teflon thread to make (x4) Guillemin Rapid-fittings Tees

Packaging and marking

- All items packed onto a Euro pallet, banded and plastic wrapped. Forklift runners to be 10cm high minimum. Wood to be ISPM15 certified. Small items in a carton mounted and fixed in centre of the pallet.
- Item marked with code **WASH W7:T2:D9**, Purchase Order number, and gross weight and dimensions. Marks to be on the front and back of the case, as determined by the forklift runners.
- One packing list to be securely fixed to the outside of the crate, in a grip-seal plastic bag. One packing list to be enclosed in the carton.

WASH Procurement Specification

Item code:	Title:
W8/D2/T5	Distribution, Lay flat / Rapid fittings kit

Definition

Complementary pipe system for motor pump and water tank kits, used to transport water in emergency and short term programs.

Description

- 150 metres of 2" and 3" hose (25m Rigid-flexible, 125m flat) with rapid fitting connections
- Lay flat hose minimum pressure rating 5 bar
- Rigid Flexible hose, PVC, minimum pressure rating 3 bar
- Guillemin fittings, aluminium with locking ring and sealing washer (except where stated)

Components included

	Quantity	Items
1	1	100 metre coil, nominal 3"/75mm lay flat pipe, min 6 bar. Fitting each end with Guillemin DN80 aluminium couplings/ washer, locking ring and hose clip
2	1	25 metre coil, nominal 3"/75mm lay flat pipe, min 6 bar. Fitted each end with Guillemin DN80 aluminium coupling c/w washer, locking ring and hose clip
3	5	5m coil, 2" Rigid flexible hose, PVC, fitted each end with a Guillemin DN50 coupling and hose clip
4	4	Guillemin DN80 x DN50 reducer coupling
5	4	Guillemin DN80 to 3" BSP (M) coupling
6	2	Guillemin DN50 to 2" BSP (F) coupling
7	2	50mm Rapid coupling ring key
8	2	80mm Rapid coupling ring key
9	2	2" BSP(F) Tee, GI
10	6	Guillemin DN50 to 2" BSP(M) threaded coupling (without locking ring and seal)
11	1	50mm Rapid fitting aluminium plug with locking ring
12	5	Thread jointing tape, Teflon, rolls

NOTE: Item 9 and item 10 to be pre-assembled with Teflon thread jointing tape, to make (x2) Rapid fitting Tee

Packaging and marking

- All items packed into a wooden crate and banded. Forklift runners to be 10cm high minimum. Wood to be ISPM15 certified
- Case marked with code **WASH W8:D2:T5**, Purchase Order number, and gross weight and dimensions. Marks to be on the front and back of the case, as determined by the forklift runners.
- One packing list to be securely fixed to the outside of the crate, in a grip-seal plastic bag. One packing list to be enclosed in the crate.

WASH Procurement Specification

Item code:	Title:
D3/T6	Distribution, Fittings, Adaption Kit

Definition

Set of various 2" and 3" fittings, couplings and adaptors suitable for the connecting of WASH equipment to other water systems (water tanker, local distribution system, equipment from other organizations and agencies).

Components included

	Quantity	Items
1	2	Guillemin half coupling DN50 to 2"BSP(F) with seal and locking ring
2	2	Guillemin half coupling DN50 2"BSP(M) with seal and locking ring
3	2	Guillemin half coupling DN50, hose shank, with seal and locking ring
4	1	Guillemin half coupling DN80 to 3"BSP(F) with seal and locking ring
5	1	Guillemin half coupling DN80 to 3"BSP(M) with seal and locking ring
6	1	Guillemin half coupling DN80, hose shank, with seal and locking ring
7	2	Guillemin reducer coupling DN50/DN80 and locking ring and seal
8	2	Storz x 2" BSP(M) coupling
9	2	Storz x 3" BSP(M) coupling
10	1	2" BSP(F) Gate valve, brass
11	1	3" BSP(F) Gate valve, brass
12	2	2" BSP(M) Nipple, GI
13	2	3" BSP(M) Nipple, GI
14	1	2½ BSP(M) - 2" BSP(F) Reducer, GI
15	4	2" BSP(F) coupling, GI
16	2	3" BSP(F) coupling, GI
17	2	Hook Spanner, for Guillemin couplings DN50 to DN100
18	5	Threaded seal tape, Teflon roll
19	5	NBR sealing washer for Guillemin DN50 coupling
20	5	NBR sealing washer for Guillemin DN80 coupling

Packaging and marking

- All items packed into a wooden crate and banded. Forklift runners to be 10cm high minimum. Wood to be ISPM15 certified
- Case marked **WASH D3:T6**, gross weight and dimensions. Marks to be on the front and back of the case, as determined by the forklift runners.
- One packing list to be securely fixed to the outside of the crate, in a grip-seal plastic bag. One packing list to be enclosed in the crate.

WASH Procurement Specification

Item code:	Title:
D4	Distribution, Tap stand

Definition

Kit of parts to make one water distribution tap stand with 6 self closing taps, plus accessories for connecting to piped water supply.

Specification

- Assembled unit dimensions **approx.** 80 – 90cm high, 80cm wide, 120cm long
- Four legs with footplates to prevent the tap-stand from sinking into soft ground. Legs to be splayed - for stability
- Six horizontal outlets pipes with ¾" BSP(M) thread – for taps.
- Single inlet down pipe with adaptor/coupling, threaded to Guillemin DN50 – to allow connection of a delivery pipe close to ground level.
- All metal parts are hot dipped galvanised
- Internal threading is carried out after galvanising process using potable grade cutting oil.
- Tap stand to be supplied ready for immediate use, all debris, from the machining process to be removed from the water ways before packing
- Tap to be, durable and robust (i.e. steel or aluminium construction), and automatic closing at low pressure (1m head).

Components included

	Qty	Item
1	1	Kit of component parts to make a tap-stand, GI
2	7	¾" self closing tap (one spare)
		<i>Supplied with the following fittings</i>
3	1	Adaptor/Reducer to enable Item 4 to be connected to the tap stand inlet
4	2	Guillemin DN50 to threaded connector with locking ring and sealing ring
5	2	Thread jointing tape, Teflon, rolls

Packaging and marking

- All items packed into a wooden crate and banded. Wood to be ISPM15 certified
- Case marked with code **WASH D4**, Purchase Order number, and gross weight & dimensions.
- One packing list to be securely fixed to the outside of the crate, in a grip-seal plastic bag. One packing list to be enclosed in the crate.

WASH Procurement Specification

Item code:	Title:
W4	Treatment, Chemicals, System, Aluminium sulphate

Definition

Chemicals for the coagulation and flocculation of turbid water.

Description

- 17% ground aluminium sulphate granules, iron free
- Pallet of 200kg - in smaller units (i.e. 8 polybags of 25kg)

Components included

Quantity	Item
8	25 kg bags of aluminium sulphate granules

Packaging and marking

- Item to be securely packed onto a Euro pallet. Runners to be minimum 10 cm high. All wood to be ISPM15 certified.
- Code **WASH W4**, Purchase Order number, and gross weight & dimensions should be clearly displayed externally on each unit
- One packing list securely attached externally to each unit in a grip seal plastic bag.

WASH Procurement Specification

Item code:	Title:
D5	Treatment, Chemicals, System, Chlorine granules, Sodium Dichloroisocyanurate Dihydrate

Definition

Chlorine in granular form used for the treatment of water intended for human consumption. Safe for air-freight.

Description

- 25kg of sodium dichloroisocyanurate dehydrate, NaDCC granules
- 55% Active chlorine
- NSF/ANSI Standard 60
- JECFA Specification
- EN12932: Chemicals used for treatment of water intended for human consumption – chemicals for emergency use – sodium dichloroisocyanurate dehydrate.

Components included

Quantity	Item
2	Chlorine granules, NaDCC, 25kg tub

Resources included

Information on each tub - Instructions for use.
Material Safety Data Sheet (to be provided by supplier)

Packaging and marking

- Tubs (x2) supplied on a ½ Euro Pallet (0.8x0.6m) and plastic wrapped.
- Item code **WASH D5**, purchase order number, weights and dimensions clearly visible
- Packing list attached externally in a grip-seal plastic bag.

WASH Procurement Specification

Item code:	Title:
D6	Testing, Equipment, Pool tester for chlorine and pH, Turbidity tube

Definition

Hand held, colour comparator, water quality tester - to measure chlorine concentration and PH level.

Turbidity tube, 5-500 NTU range: a two-part clear plastic tube to enable simple, visual measurement of Nephelometric Turbidity Units.

Description

- Pool tester Chlorine / pH comparator:
Chlorine range - 0,1 to 3 mg/l
pH range - 6,8 to 7,2
- Rapid test tablets for 250 tests

Components included

	Quantity	Item
1	5	Pooltester - for pH and chlorine testing
2	250	DPD1 tablets
3	250	DPD3 tablets
4	250	Phenol red tablets
5	1	Turbidity tube (26" - two part)

Packaging and marking

- All items packed in a carton
- Carton marked with code **WASH D6**, purchase order number, weights and dimensions

WASH Procurement Specification

Item code:	Title:
W5	Testing, Equipment, Measuring and testing kit

Definition

Kit to enable various water quality tests to be conducted, including: the measurement of chlorine, PH, aluminium, total iron, TDS, and Turbidity.

Description

- Pooltester (Chlorine / PH comparator)
- Aluminium test kit
- Total iron test kit
- pH checker
- Total Dissolved Solids Sensor
- Turbidity tube
- Thermometer
- Stopwatch

Components included

	Quantity	Item
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 0-0.5mg/l, with reagents for 130 tests (e.g. Lovibond AF520 or similar)
3	1	Check for total iron (II + III) range 0-10 mg/l, with reagents for 30 tests (e.g. Lovibond AF 524 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
6	1	Thermometer, range -10 to + 50 (Sprit filled, non-hazardous) c/w protective tube / case
7	1	Turbidity tube (26" - two part)
8	1	6.5 cm diameter plastic funnel
9	1	50ml plastic measuring cylinder
10	6	1000ml plastic beakers, with 100ml graduations
11	10	100ml plastic sample bottles, with 10ml graduations
12	3	10ml plastic syringe with 1ml graduations
13	4	9 litre buckets with lids, with 1 litre graduations
14	2	0.3 mg long plastic stirring rods
15	2	Stainless steel dining forks (as per kitchen use)
16	1	Stopwatch with spare batteries

Resources included

Kit instruction manual

Packaging and marking

- Items packed into a sturdy carton suitable for export and banded if required.
- Code: **WASH W5**, Purchase Order number, and gross weight & dimensions should be clearly displayed externally on each unit
- One packing list packed internally including User's Notes and another securely attached externally in a grip seal plastic bag.

WASH Procurement Specification

Item code:	Title:
W6/D8/T4	Tools, Kit, Engineers

Definition

Set of basic tools used for the installation, maintenance and repair of WASH equipment and simple water systems.

Components included

	Quantity	Item
1	5	Bolted hose clip for 2" hose
2	10	Bolted hose clip for 3" hose
3	2	Spanner/wrench for bolted hose clips
4	5	Guillemin half coupling DN50 Gasket, NBR
5	5	Guillemin half coupling DN80 Gasket, NBR
6	4	Hook Spanner for Guillemin rapid fittings DN50 to DN100
7	10	Thread jointing tape, Teflon, rolls
8	1	Pipe wrench (Stilson/monkey wrench) 80mm max opening
9	1	Club hammer, 1250g
10	1	Pipe Wrenches chain, max opening 4"/115mm
11	1	Constant -profile flat chisel 200 x 24mm
12	1	Long leveraged end nippers
13	2	OGV Angled open-socket wrench 6x6 Point 10mm
14	2	OGV Angled open-socket wrench 6x6 Point 13mm
15	3	Electricians knife
16	1	Round -Shank screwdriver 5.5 x 200 mm
17	100	Cable tie, self locking head, plastic, black , 6 x 300 mm
18	3	Shackle, iron galvanised, diam. 8mm, straight
19	10m	Wire, Tie, galvanised, small, approx diam. 1.1mm, roll
20	1	Gun, for silicone compound
21	2	Silicon compound, white, rot proof, 310ml tube
22	1	Tube, Extension, for pincer tool
23	1	Oil, Penetrating, small bottle/can

Packaging and marking

- Items packed into a heavy duty, tri-wall carton with forklift runners and banded. Runners to be 10cm high and any wood to be ISPM15 certified
- Carton to be marked with code **WASH W6:D8:T4**, Purchase Order number, and the gross weight and dimensions. Marks to be on the front and back of the case, as determined by the forklift runners.
- Carton to be wrapped in plastic wrapping
- One packing list, in a grip seal plastic bag, to be fixed to the outer wrapping, one packing list in the tool box.

WASH Procurement Specification

Item code:	Title:
H9	Transport, Containers, Plastic bucket with lid and tap

Definition

Container with lid, handle and tap; used for the transport and storage of drinking water.

Description

- Manufactured from HDPE (high density polyethylene)
- UV resistant
- Food grade
- Removable, tight-fitting lid fitted with plug for filling
- Capacity Max 20 litres - Min 10 litres
- Stackable without fitted lid in place
- Plastic handle attached
- Curved inside base to wall for easy cleaning
- Durable tap with water tight fitting to container – kit includes 100 spare taps

Components included

Quantity	Item
5	Pallet of 200 Buckets, 10-20L with tight-fit lid, handle, and tap, plus 20 spare taps

Packaging and marking

- 1000 water containers stacked on 5 Euro pallets. One tap in each bucket plus a bag of spares. Forklift runners to be 10cm high minimum. All wood to be ISPM15 certified.
- WASH code **WASH H9**, purchase order number, gross weight & dimensions should be clearly displayed externally on each unit
- One packing list securely attached externally to each unit in a grip seal plastic bag. One enclosed with the buckets.

WASH Procurement Specification

Item code:	Title:
H10	Transport, Containers, Plastic bucket with lid

Definition

Container with lid and handle; used for the transport and storage of drinking water.

Specification

- Manufactured from HDPE (high density polyethylene)
- UV resistant
- Food grade
- Removable, tight-fitting lid fitted with plug for filling
- Capacity Max 20 litres - Min 10 litres
- Stackable without fitted lid in place
- Plastic handle attached
- Curved inside base to wall for easy cleaning

Components included

Quantity	Item
5	Pallet of 200 Buckets, 10-20L with tight-fit lid and handle

Packaging and marking

- 1000 water containers stacked on 5 Euro pallets. Forklift runners to be 10cm high minimum. All wood to be ISPM15 certified.
- WASH code **WASH H10**, purchase order number, gross weight & dimensions should be clearly displayed externally on each unit
- One packing list securely attached externally to each unit in a grip seal plastic bag. One enclosed with the buckets.

WASH Procurement Specification

Item code:	Title:
H11	Treatment, Chemicals, Household, Combined flocculation and disinfection sachet / tablet

Definition

Combined flocculent and disinfectant sachet – designed for the treat 15-20 litres of water.

Description

- Each sachet to contain iron or aluminium sulphate plus chlorine
- Packed in boxes of 500 sachets

Components included

Quantity	Item
60	Combined flocculent and disinfectant sachet, box of 500

Packaging and marking

- Boxes to be placed on a Euro pallet and wrapped with plastic. Forklift runners to be minimum 10cm high. All wood to be ISPM15 certified.
- Code **WASH H11**, purchase order number, and gross weight & dimensions should be clearly displayed externally on each unit
- One packing list enclosed under the plastic wrapping.

WASH Procurement Specification

Item code:	Title:
H12	Treatment, Chemicals, NaDCC tablets

Definition

Disinfectant used for the treatment of 20 litres of water.

Specification

- Each tablet to give approx 2 mg/l residual chlorine after 30 minutes contact time when added to 20 litres of clear water (<10 NTU)
- Tablets composition to contain 67mg NaDCC Sodium dichloroisocyanurate (non-hazardous for air-freight)
- Packs to have printed instructions in English, French, Spanish, Arabic

Components included

Quantity	Item
30,000	Disinfection tablets, NaDCC

Packaging and marking

- All items packed cartons, mounted on a Euro pallet and wrapped in plastic. Forklift runners to be 10cm high minimum. Wood to be ISPM15 certified
- Pallet marked with code: **WASH H12**, gross weight and dimensions, and purchase order number. Marks to be on the front and back of the pallet as determined by the forklift runners.
- One packing list to be securely fixed to the outside of the pallet, in a grip-seal plastic bag. One packing list to be enclosed under the plastic wrapping.

WASH Procurement Specification

Item code:	Title:
W9	Treatment, Water Treatment Unit

Definition

Water Treatment Unit: able to produce 6 – 10 m³/hr potable water quality from raw water of turbidity of up to 500 NTU.

Description

- Pressure filter outflow between 6 to 10 cu m/hr
- Mobile unit that is easy to transport – sized to fit in the back of a pick-up truck
- Quick to set up on site (less than 3 hours from 0 to clean water production)
- Is easy to operate – does not require skilled operators
- Easy to maintain in the field
- Can treat water with turbidity up to 500 NTU
- Treatment based on in-line flocculation / coagulation
- Includes sand filtration in process
- Includes activated carbon filtration in process
- Kit to include all consumable for first 6 weeks operation
- NOTE: Final delivery connection to be Guillemin DN50 half coupling with seal and locking ring

Components included

Quantity	Item
1	Water Treatment Unit
1	Set of consumables of initial operation

Resources included

Operation manual

Parts list

Packaging and marking

- All items packed into wood crates with forklift runners and banded. All wood to be ISPM15 certified where required.
- Code **WASH W9**, gross weight & dimensions should be clearly displayed externally on the crate.
- One packing list packed internally and another securely attached externally in a grip seal plastic bag.

WASH Procurement Specification

Item code:	Title:
S1	Excreta Disposal, Squatting slabs, dry pit

Definition

Self supporting plastic squatting slab, with drop hole cover, intended for installing latrines in an emergency.

Specification

- One single piece moulded plastic slab
- Manufactured in vermin and termite proof polypropylene.
- Lightweight and strong with rigid, smooth surface for cleaning.
- Feet placement areas designed to prevent slipping.
- Self supporting (does not need additional reinforcement)
- Cover attached with strong hinge
- 1 hole in each corner (10mm dia.) which allows the squatting slab to be pegged into the soil - with pegs supplied
- Dimensions (**approx**): 5 x 80 x 120 cm
- Weight: 11 kg
- Maximum load: 200kg
- Stackable: 1 pile (40 units max) on 1 Euro pallet (80 x 120 cm)

Components included

Quantity	Item
105	Self-supporting squatting slab, with drop hole cover - 35 slabs per pallet

Packaging and marking

- Item to be securely packed onto a wooden Euro pallet with forklift runners. All wood to be ISPM15 certified.
- Pallet height to be no more than 2.2m
- Code **WASH S1**, Purchase Order, Gross Weight & Dimensions should be clearly displayed externally on each unit
- One packing list including user's notes securely attached externally to each unit with waterproof covering

WASH Procurement Specification

Item code:	Title:
S3	Excreta Disposal, Rapid Latrine Superstructure

Definition

Rapidly erected, durable, self – supporting and easy to clean, latrine superstructure with door access and roof to be used in conjunction with self – supporting latrines slabs (WASH S1).

Description

- Light weight materials (e.g. ply-wood, corrugated plastic sheet, plastic cardboard, foam filled laminate or other) Less than 265 kg for 4 latrines.
- Easy and rapid to assemble kit
- Durable and stable enough to last in hot sunny conditions plus windy, sandy and rainy environments
- Rip proof
- Rigid structure
- Easy to clean internal surfaces (especially up to 1m min height)
- Minimum height 1.8 m
- Door with internal lock
- Roof (Optional roof so that where culturally and climatically required or acceptable, a roof can be installed and where not required the structure can still stand alone.
- Sloping roof, where fitted
- Flat pack for transport and storage
- Environmentally friendly materials used
- To fit self supporting latrine slab WASH S1
- Re-usable / moveable
- Self supporting individually in block of two or 4
- Non opaque material for privacy

Components included

Quantity	Item
50	Latrine superstructure kit – to cover 50 slabs

Resources included

Installation and care instructions

Packaging and marking

- Item to be securely packed onto a Euro pallet. All wood to be ISPM15 certified. Forklift runners should be a minimum of 10cm high.
- Pallet total height not more than 2.2m
- Code **WASH S3**, purchase order number, gross weight & dimensions should be clearly displayed externally on each unit
- One packing list including Users' Notes securely attached externally to each unit in a grip seal plastic bag

WASH Procurement Specification

Item code:	Title:
S4	Plastic Sheeting

Definition

Woven flexible tarpaulin made of opaque plastic.

Specification

- Woven fabric : high density polyethylene (HDPE), black colour (provides some privacy)
- Lamination material: low density polyethylene (LDPE), white colour on at least one side
- 6 reinforcement bands of 7.5 cm width, made of woven HDPE, laminated on both sides
- Weight: 200kg/m², +/- 5% (ISO 3801), plus 10% for reinforcements bands
- Tensile strength: outside of reinforcement bands : minimum 500N (ISO 1421), inside of reinforcement bands : minimum 700 N (ISO 1421)
- Tear strength outside of reinforcement bands : minimum 100N (ISO 1421)
- Welding – maximum 1 welding along the middle – minimum 80% of the original tarpaulin strength in the weft
- UV resistance : maximum 5% loss on original tarpaulin strength (ISO 142) after 1500 hours UV under ASTM G53 /94 (UVB 313 nm peak)
- Temperature resistance : from -20 to 80°C
- Width: 4m
- Length: rolls of 60m
- Printing: manufacturer name, month and year of production, marking every meter (to aid cutting)

Components included

Quantity	Item
5 rolls	Woven flexible tarpaulin made of opaque plastic as per Specification

Packaging and marking

- Each unit packed as a roll with protective plastic covering.
- Code **WASH S4**, purchase order number, logo, and weight & dimension clearly visible and securely attached externally to each unit in a grip seal plastic bag

WASH Procurement Specification

Item code:	Title
S5	Tools, Kit, Latrine digging/cleaning

Definition

Kit suitable for all hand digging exercises, including pipe trenches, levelling areas for tanks, etc as well as digging latrines.

Description

- Selection of high quality hand-tools and equipment. Components list gives suggested example items.

Components included

	Quantity	Item
1	10	Pointed trenching shovels with handles, pressed from high quality steel, fitted with graded wooden shaft.
2	10	Flat trenching spades with handles, pressed from high quality steel, fitted with 28" graded wooden shaft and PY type hilt.
3	10	Pickaxes (chisel and point) with handles. 3kg axe head (approx).
4	1	Roll of site marking tape, red/ white, 500m
5	6	Buckets, galvanised steel, 12-18 litre
6	6	Contractors' rakes with handles, 12 tooth head with epoxy-coated finish. Head securely fixed to tubular steel handle.
7	5	Miners' bars, one end chisel, one end point, 3 cm dia., length 1,5 m
8	5	Cold chisel/bolster, length 225mm, blade width 75 mm
9	5	4lb lump hammers, forged head from fine high carbon steel, hardened and tempered. Wooden shaft.
10	1	Measuring tape - fibre roll type, length 30m
11	2	8mm polypropylene rope, 30m coils

Packaging and marking

- Items packed into a timber crate with forklift runners and banded. Runners to be 10cm high. All wood to be ISPM15 certified.
- Crate to be marked with the code: **WASH S5**, purchase order number, and the gross weight and dimensions. Marks to be on the front and back of the case, as determined by the forklift runners.
- One packing list, in a grip seal plastic bag, to be fixed to the outside of the crate. One packing list inside the crate

WASH Procurement Specification

Item code:	Title:
H7	Excreta Disposal, Potties

Definition

Plastic potties with easy grasp handle and lid – for small children

Components included

Quantity	Item
1000	Potties

Packaging and marking

- All items packed in cartons, mounted on a Euro pallet and wrapped in plastic. Forklift runners to be 10cm high minimum. All wood to be ISPM15 certified.
- Pallet/container marked with code **WASH H7**, gross weight and dimensions, and purchase order number. Marks to be on the front and back of the pallet as determined by forklift runners.
- One packing list to be securely fixed to the outside of the carton, in a grip-seal plastic bag. One packing list to be enclosed in the carton.

WASH Procurement Specification

Item code:	Title:
S6	Spraying, Backpack Sprayers for Disinfection

Definition

Equipment for spraying disinfectants while protecting operators

Description

- Knapsack sprayer (10-15 litres) with leak proof plug
- Acid resistant
- Lever operated
- Spray control valve
- Adjusted nozzle allowing in line or circular spraying

Components included

	Quantity	Item
1	4	Knapsack sprayer (10-15 litres)
2	4	Spare extension LANCE
3	4	Spare NOZZLE
4	4	Spares and repair kit plus accessories
5	4	Measuring Jug, 1 litre, graduated, plastic

Resources included

Instructions for use and maintenance

Spare parts list/catalogue

Packaging and marking

- All items packed into a heavy duty carton suitable for export with forklift runners. All wood to be ISPM15 certified. Forklift runners should be a minimum of 10cm high
- Code: **WASH S6**, Purchase Order, Gross Weight & Dimensions and Serial Number should be clearly displayed externally on each unit
- One packing list packed internally including User's Notes and another securely attached externally in a grip seal plastic bag.

WASH Procurement Specification

Item code:	Title:
S7	Spraying, Safety equipment

Definition

Safety equipment for 4 workers

Description

- Face shield
- Pairs of goggles
- Disposable polypropylene coated coverall
- Pairs of nitrile gloves

Components included

	Quantity	Item
1	4	Goggles, Protective for dust
2	4	Cap, Dust Protection, Cotton
3	200	Mask, Respiratory Protective FFP1, disposable
4	8	Gloves, Cleaning, rubber, reusable, pair, large
5	4	Disposable polypropylene coated coverall
6	4	Apron Protection, plastic

Packaging and marking

- All items packed into a heavy duty carton.
- Code **WASH S7**, Purchase Order, Gross Weight & Dimensions and Serial Number should be clearly displayed externally on each unit
- One packing list packed internally and another securely attached externally in a grip seal plastic bag.

WASH Procurement Specification

Item code:	Title:
H1	Promotion, Hygiene Promotion kit

Definition

The hygiene Promotion kit contains the essential equipment to implement hygiene promotion activities in an emergency. The HP box is composed of essential equipment (IEC materials and background materials) needed to conduct key hygiene promotion activities targeting scattered populations, at household level and when beneficiary numbers are limited. The target population is 5,000 persons with no access to hygiene commodities and a lack of safe hygiene practices.

Description

- Hygiene Working Group recommends IFRC box A.

Components included

	Quantity	Item
1	1	Pins: Pins with coloured heads, approx.100 per box
2	1	Pin cushion
3	1 pack of 6	Needles, large eye : Selection of various needle eye sizes
4	1 pack of 6	Needles, small eye : selection of various needle eye sizes
5	1	Thimble
6	1	Safety pins : 23mm, pack .50
7	1	Tape measure: Prym, self-adhesive 1.50m L
8	1	Scissors. 10"/25.5 cm
9	1	Darning thread : Black
10	1	Darning thread : Cream
11	1	Darning thread : Navy blue
12	1 of each colour	Thread : Reels of thread to match felt (10 colours)
13	0.50m ² per colour	Felt :10 colours: Black, orange, royal blue, pink, brown, red, white, green, light brown, yellow
14	1	Marking pencil: Chinagraph, white
15	1	Marker pen: Bullet tip felt marker
16	1	Knife, Stanley metal knife with blades
17	1	Ruler: Metal, 30cms
18	1	Glue stick extra strong, 19.5g – for paper and card
19	1	Glue, 120ml - for fabric
20	1	Carbon paper: 10 sheets per packet
21	1	Pattern and instruction book: Printed and bound from CD
22	1	Storage box with lid

Packaging and marking

- All items packed into a tri-wall carton with forklift runners and banded. All wood to be ISPM15 certified.
- Carton marked with code: **WASH H1**, purchase order number, weights and dimensions
- One packing list inside the carton another secured to the outside in a grip seal plastic covering

WASH Procurement Specification

Item code:	Title:
H2	NFI, Water containers for hand washing

Definition

Polyethylene bag of small (2 litre) capacity with durable hanging handle and flow limiting nozzle tap for water saving slow fluid release.

Description

- UV resistant polyethylene bag
- Small (2 litre) capacity
- Durable handle for hanging
- Flow limiting nozzle (fitted)
- Flat pack
- Durable bag

Components included

Quantity	Item
1000	Hand-washing bag

Packaging and marking

- All items packed 125 per carton, mounted on a Euro pallet and wrapped in plastic. Forklift runners to be 10cm high minimum. Wood to be ISPM15 certified
- Pallet marked with code **WASH H2**, gross weight and dimensions, and purchase order number. Marks to be on the front and back of the pallet, as determined by the forklift runners.
- One packing list to be securely fixed to the outside of the pallet in a grip-seal plastic bag.

WASH Procurement Specification

Item code:	Title:
H3	NFI, Soap, Multipurpose

Definition

Soap bars used for body washing and laundry

Description

- All purpose soap, 125g bar, fresh clean smell.
- Contains minimum of 65% of fatty acid (this indicates the cleaning efficiency).
- Contains maximum 0.5% NaOH (Sodium Hydroxide) which is not harmful. (The NaOH content indicates the level of purity).

Components included

Quantity	Item
18,000	Multipurpose Soap 125g bars. Packed in cases of 80 bars. 225 cases

Packaging and markings

- All items packed into a heavy duty cartons, stacked on a Euro pallet and wrapped in plastic. Forklift runners should be a minimum of 10cm high. Any wood to be ISPM15 certified.
- Code **WASH H3**, Purchase Order, Gross Weight & Dimensions and Serial Number clearly displayed externally on each unit
- One packing list to be securely fixed to the outside of the pallet, in a grip-seal plastic bag. One packing list to be enclosed under the plastic wrapping.

WASH Procurement Specification

Item code:	Title:
H4	NFI, Cloth, Multipurpose

Definition

Multi-purpose towelling supplied for purposes of women/girls sanitary protection.

Description

Multi-purpose towelling: 100% cotton, dark coloured (beige), absorbent brushed cotton or towelling 50 x 90 cm, 360g

Components included

Quantity	Item
1,000	Multipurpose absorbent cloth 1 x 2 m cotton

Packaging and marking

- All items packed 50 per carton, mounted on a Euro pallet and wrapped in plastic. Forklift runners to be 10cm high minimum. All wood to be ISPM15 certified.
- Pallet marked with code **WASH H4**, gross weight and dimensions, and purchase order number. Marks to be on the front and back of the pallet as determined the forklift runners.
- One packing list to be securely fixed to the outside of the pallet, in a grip-seal plastic bag. One packing list to be enclosed under the plastic wrapping.

WASH Procurement Specification

Item code:	Title:
H5	NFI, Oral Rehydration Salts, Sachet

Definition

Sachet of ORS used to make 1 litre of solution.

Description

- Sachets of oral re-hydration salts, 20.5g to make 1 litre of Oral Rehydration Solution (ORS). Contents in line with the new WHO 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.
- Contains:

Glucose anhydrous cac 1979	13.5g
Sodium chloride bp	2.6g
Trisodium citrate dihydrate bp	2.9g
Potassium chloride	1.5g

Components included

Quantity	Item
5000	ORS Sachet, 20.5g

Packaging and markings

- All items packed in a tri-wall carton, mounted on a Euro pallet and wrapped in plastic. Forklift runners to be 10cm high minimum. Wood to be ISPM15 certified
- Pallet marked with code: **WASH H5**, gross weight and dimensions, and purchase order number. Marks to be on the front and back of the pallet as determined by the forklift runners.
- One packing list to be securely fixed to the outside of the carton, in a grip-seal plastic bag. One packing list to be enclosed in the carton.

WASH Procurement Specification

Item code:	Title:
H6	NFI, Bag for assembly of Hygiene kit on site

Definition

Lightweight draw string bag used to gather all hygiene items together to facilitate distributions.

Description

- Bag, lightweight with robust draw string
- **Approx.** size 75x50cm, 30L capacity
- Polyester
- Gauge 15-25 microns

Components included

Quantity	Item
1000	Polyester bags

Packaging and marking

- All items supplied tied in bundles of 20, stacked on a Euro pallet and plastic wrapped. Forklift runners to be 10cm high. All wood to be ISPM15 certified.
- Pallet marked with code: **WASH H6**, purchase order number, gross weights and dimensions
- One packing list attached to the outside of the pallet in a grip-seal plastic bag

Item code:	Title:
R1	CD, Essential reference material

Definition

Reference material in digital format (English).

Description

- Sphere Project Handbook - 2011
- REDR Manual 'Engineering in Emergencies' - *J Davis and R Lambert*
- Emergency Sanitation - *P Harvey, S Baghri, B Reed, WEDC*
- Excreta Disposal in Emergencies - *P Harvey*
- Water, Sanitation and Hygiene for Populations at Risk - *Action Contre la Faim*
- Emergency Water Sources, Guidelines for Selection and Treatment – *S House, B Reed, WEDC*

Components included

Quantity	Item
20	CD, Sphere Handbook and other key technical books

Packaging and marking

- CDs packed in a small carton
- Item code: **WASH R1**, and purchase order number shown on outside of the carton