

Emergency Sanitation Kit – Update of prototypes being developed by Oxfam GB

**Andy Bastable
& Jenny Lamb**



Problem Statement

- **Sanitation in emergencies is challenging in the following contexts**
 - **Floods**
 - **High water tables**
 - **Unstable soils**
 - **Densely populated areas**
 - **Urban areas, which land owners prohibit digging of emergency trench / pit latrines**
 - **Protection / security issues at night**
 - **Desludging – costly, not a reliable service / system deteriorated since emergency, and or sludge / disposal is ill managed**
 - **Rapid and quick ways in providing appropriate excreta disposal and containment**

Proactive Work: Sanitation

- **Objective:**

Increase our competency at delivering emergency sanitation by developing additional proto types, such as:

- a) **Emergency bio degradable plastic bags**
- b) **Emergency urine diversion latrine slab**
- c) **Emergency sitting latrine slab**
- d) **Emergency squatting latrine slab – a 2nd alternative**
- e) **Raised emergency latrine kits**
- f) **Emergency latrine lining kits**

Sanitation R & D - Bio degradable plastic bags



Pee poo bags



Carebag & Toilet Kit
via Even Products



Sanitation R & D - Emergency latrine slabs – urine diversion



Supplier: Nag Magic

➤ Challenge: separation of all three: urine, faeces, anal cleansing?
But is this necessary? Is it important in an emergency? – could the urine / anal cleansing be managed as one waste stream?

Sanitation R & D - Emergency latrine slabs – an alternative squatting slab



Supplier: Aircell Structures

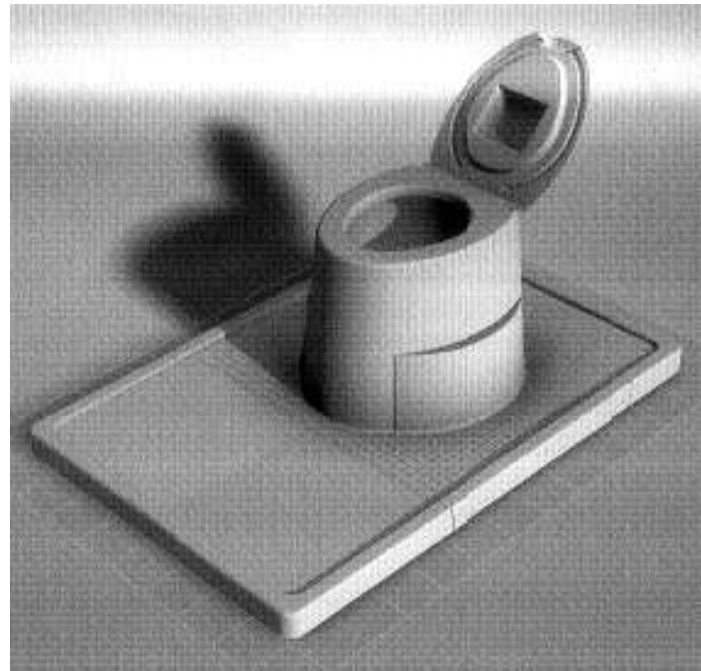
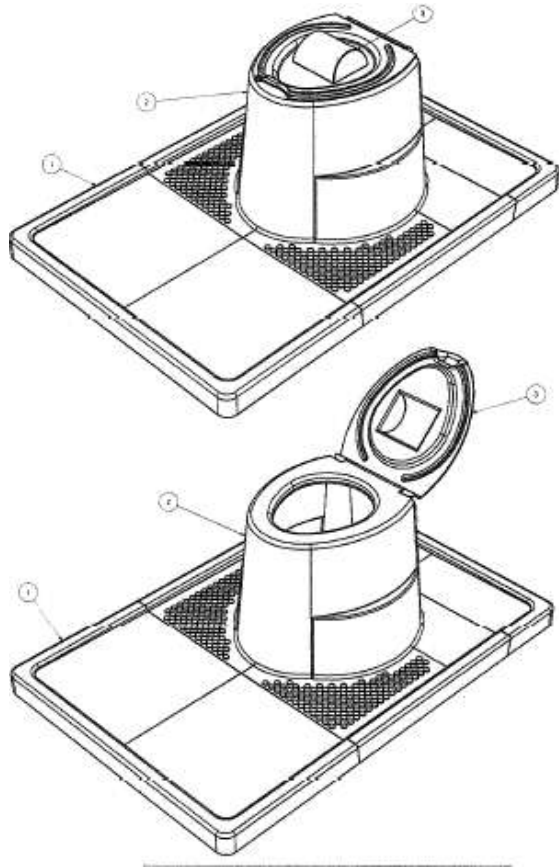
Sanitation R & D - Emergency latrine slabs – an alternative squatting slab



Supplier: Even Products



Sanitation R & D - Emergency sitting latrine slab



Supplier: Aircell Structures



Sanitation R & D - Emergency sitting latrine slab



Supplier: Aircell Structures



Sanitation R & D – Emergency raised latrine & superstructure



Haiti – raised latrines using plastic tank for containment of excreta



Waste tank prototype detail for raised latrine



Raised latrine with superstructure & platform

Supplier: Even Products



Sanitation R & D – Emergency raised latrine & superstructure (continued)



Supplier: Even Products

Sanitation R & D – Emergency latrine lining kit

Supplier: Even Products



Trench pit liner - modular



Trench pit liner - propped

Requested supplier to provide a equipment for bracing, instead of the timber pieces

Sanitation R & D – Emergency latrine superstructure



Supplier: Even Products



Sanitation R & D – Emergency latrine superstructure



Supplier: Aircell Structures



Sanitation R & D – Hand washing



WWashPot handwasher



Supplier:
Aircell Structures

Sanitation R & D - Emergency shower plate



Weight: 9kg
Production: 8 weeks lead time
Cost: 501>1000units = \$66

Supplier: Aircell Structures

