Annex E. Design of Handwashing Facilities

Hand washing station models for Immunisation Centres

A. Options for hand washing stations in Immunisation centres

Three types of hand washing stations have been proposed. Based on the discussion with the health facility authority and local government, the suitable option chosen will be installed/constructed.

Type A.1 Specification of Fiberglass - tentative estimate 40% of total hand washing stations. Drawing has been provided below.

1. Materials: Fibre glass
2. Thickness: 3 mm
3. Color: Blue (for hand washing station)
4. Tap: Single with heavy duty- quarter turn pillar type (equivalent to Hindware)
5. Soap holding place with hole to drain water to sink
6. Maintenance box with lock with provision of opening/closing fixtures (size 25*30 cm- on two sides) on the front side of the hand washing station
7. Size (3 sizes) of hand washing stations to ease for transportation:
   - 62 cm wide, 72 cm high, width 42 cm, width of trough (inner) 30 cm, ht of message board 30 cm
   - 60 cm wide, 70 cm high, width 40 cm, width of trough (inner) 28 cm, ht of message board 30 cm (drawing provided)
   - 58 cm wide, 68 cm high, high, width 38 cm, width of trough (inner) 26 cm, ht of message board 30 cm
8. Hand washing message: Board 30 cm height and message: Hand washing station and 6 steps of hand washing and government and UNICEF logo in acrylic sheet, also hand washing slogan in the front of the sink.
9. The proposal should include the cost of fibre glass - hand washing station (complete set with fixtures), pipes (CPVC- 9 metre length with 3/4 inch diameter) with fittings to connect water from existing water tank or pipeline and provision of soak pit with cover for waste water from sink (1.5 inch dia, 3 metre long CPVC pipe) or to existing drainage (1.5 inch dia, 6 metre long CPVC pipe) with fitting if drainage is located little away.
Drawing for Fiberglass hand washing station
Type A.2 Stainless Steel sink supported by masonry work (brick or stone) where wall exists- 30% of total hand washing stations. Drawing has been provided below.
- First class brick or dressed stone whichever is available, OPC (43 or 53 grade cement), stainless steel sink (size: 46x40 CM, 20-22 gauge), stainless steel heavy duty tap- quarter turn pillar type (equivalent to Hindware), coarse and clean sand (free from mud, silica, and organic materials), clean gravel of mixed type, size below 40 mm, ring/masonry work for soak pit or 1.5 inch PVC pipe for drainage (5 m), CPVC pipe (3/4 inch dia, 9 m- average) and fitting to join from existing water supply or tank
- Masonry work (brick or stone) should be done as given in the drawing- 1:6 cement sand mortar, plastering in 1:6 (20 mm) and punning (1:1) in all plastering surface
- Sink to be hold by 2.5 cm thick mortar (1:2) on all three sides.
- Soap holding place (10 cm*7 cm) to be built in wall with draining towards sink
- Drainage: Join with 1.5 inch dia, 6 metre CPVC pipe with fitting into existing drainage or provided with soak pit (3 metre) nearby as given in the drawing.
- Hand washing message: 30 cm heigh and 90 cm long place with plastering/painting with 6 steps of hand washing, and government and UNICEF logo to be painted as shown in option A.1.

**Drawing - all dimension in cm**
Type A.3 Masonry wall with steel tank (where wall is not available)- 30% of total hand washing stations. Drawing has been provided below.

A.3.1. Brick masonry
- First class brick, OPC (43 or 53 grade cement), fibre glass sink (size: 50x40 cm, 3 mm thick), stainless steel heavy duty tap- quarter turn pillar type (equivalent to Hindware), coarse and clean sand (free from mud, silica, and organic materials), clean gravel of mixed type, size below 40 mm, ring/masonry work for soak pit or 1.5 inch CPVC pipe for drainage (5 m), CPVC pipe (3/4 inch dia, 9 m- average) and fitting to join from existing water supply or tank
- Masonry work should be done as given in the drawing- 1:6 cement sand mortar, plastering in 1:6 (20 mm) and punning (1:1) in all plastering surface
- Sink to be hold by 2.5 cm thick mortar (1:2) on all three sides.
- Soap holding place (10 cm*7 cm) to be built in wall with draining towards sink
- Drainage: Join with 1.5 inch dia, 5 metre CPVC pipe into existing drainage or provided with soak pit (3 metre) nearby as given in the drawing.
- Hand washing message: 30 cm heigh and 80 cm long place with plastering/painting with 6 steps of hand washing, and government and UNICEF logo to be painted

Drawing- all dimension in cm
Type A.3.2 Stone Masonry

Specification same as A.3.1 except brick where masonry will be in dressed stone. Dimension of each part is given below in cm.