Drawings 1-6 illustrate the principal options for on-site sanitation. The *Guide to Sanitation Selection* on the centre pages may be used to determine which option is likely to be most effective according to the method of anal cleansing, water availability and willingness to pay.

1. Single pit sealed lid

   - Latrine superstructure
   - Lid
   - Porous pit lining

2. Single pit ventilated

   - Fly screen
   - Air movement
   - Vent pipe
   - Flies
   - Porous pit lining
   - Suction pump required for sludge removal

3. Twin pit ventilated

   - Fly screen
   - Vent pipe
   - Alternate pit squat hole temporarily sealed
   - Alternate pit vent pipe hole
   - Removable cover slab
   - Sludge safe for manual removal after one year
   - Pit in use
Technical Brief №23/A guide to sanitation selection

START

- METHOD OF ANAL CLEANSING

- WATER AVAILABLE AND/OR USE FOR FLUSHING

- Affordability: Capital and maintenance costs (Note 1)

- Population density

- Demand for re-use of faecal waste?

- Mechanical pit emptier available?

- Land for new pits available OR ground suitable for extra-large pits?

(Note: ▲ = A different option must be chosen)

Water or soft paper

Hard or bulky materials

10 litres

3 litres

1 litre

0 litres

Very High Medium - Low

High Low

Determined at treatment or disposal point

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No
- Permeable ground?

- Ground of limited permeability?

- Ground impermeable?

- Ground water or hard rock less than 2m below surface?

- Choice acceptable to the people?

**Type of sanitation required**

- Sewerage
- Septic tank
- Pour flush twin pit
- Pour flush single pit offset
- Pour flush single pit direct
- Single pit ventilated
- Twin pit ventilated
- Single pit sealed lid
- Compost latrine (Note 3)

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**Note 1:** Not all possibilities are illustrated as it is assumed that water availability is related to affordability.

**Note 2:** Use extra large pits or consider composting.

**Note 3:** Also dependent on willingness to collect urine separately, demand for compost, availability of ash or vegetable matter etc.
4. Pour flush single pit offset

5. Pour flush twin pit

6. Septic tank

Note: In all systems, seats may be used as an alternative to squatting

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