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Portable poultry waterers — Specification



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The committee responsible for this document is Technical Committee UNBS/TC 213, *Live animals, meat and meat products*.

Wherever the words, "African Standard" appear, they should be replaced by "Uganda Standard".

Portable poultry waterers — Specification



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Portable poultry waterers — Specification

1 Scope

This draft African standard specifies the requirements and the methods of test for poultry waterers which are self contained and portable for flock watering, but does not deal with waterers for battery brooders and other similar equipment.

This standard covers the waterers fed from storage cisterns as well as those from direct mains connection.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

There are no normative references to this document

3 Terms and definitions

For the purpose of this standard the following definition shall apply:

3.1

Waterers

Any recommended drinking vessel used to hold and provide water for the birds

3.2

Portable water

water considered as safe for drinking

3.3

Storage cistern

container or vessel used to collect and store water.

4 Requirements

4.1 Leakage

The waterer shall not leak when filled with potable water to the normal level.

4.2 Construction

4.2.1 The waterers shall give free access to the poultry for drinking and be so designed as to avoid spillage. This may be achieved by providing a wire guard over the water trough.

4.2.2 The design of the waterer shall be such as to prevent, as far as possible, the birds from perching in such a position that the water may become fouled. Compliance with this requirement may be achieved by means such as spinners or similar devices or by the shaping of the top of the waterer or wire guard.

4.2.3 The waterer shall be designed so that the birds may approach either all round it or from two opposite sides according to whether the waterer is cylindrical or long and narrow.

4.2.4 The waterer may be on feet to stand on the floor or arranged for suspension. Suspension devices shall be easily adjustable for height to suit the growth of the birds and shall be

sufficiently robust to serve throughout the life of the waterer. Troughs may be adjustable on the frame carrying them.

- 4.2.5 The assembled waterer shall be rigid when in use but its component parts shall be readily detachable for cleaning purposes. Effective means shall be provided for cutting off the water supply during cleaning of the waterer.
- 4.2.6 Hanger sets in the form of troughs shall not sway at their ends and shall be easily adjustable *in situ* to suit the growth of the birds.
- 4.2.7 The materials of construction shall be galvanized iron sheet (minimum 1.60 mm) for the frame and copper or brass for ball valves, if used. The stand may be of angle iron. The use of thicker galvanized iron sheets or aluminium of equal strength is not precluded.
- 4.2.8 The materials used shall be either in themselves resistant to corrosion by potable water and other conditions of use, or shall be protected against corrosion by some suitable means and shall pass the test prescribed in 7.1.
- 4.2.9 Plastic drinkers made from thick and free from all known and unknown hazardous compounds.

4.3 Additional requirements

4.3.1 Storage-cistern-fed waterer

- 4.3.1.1 The waterer shall have a positive means of water shut-off, suitable for operating with a water supply from a storage cistern. This may be a direct operating ball valve, or any other not less effective device; for example, a valve controlled by the water level in the trough or the weight of water in the trough and operating by balance or another form of control that prevents overfilling above a marked position, when properly adjusted and maintained in accordance with the manufacturer's instructions.
- 4.3.1.2 An overflow shall not be fitted to this type of waterer.
- 4.3.1.3 The water level control shall be so arranged that it is effectively protected from derangement by the poultry or by unauthorized persons unless the latter deliberately damage the waterer in some manner.
- 4.3.1.4 A typical storage-cistern-fed waterer is shown in Figure 1.

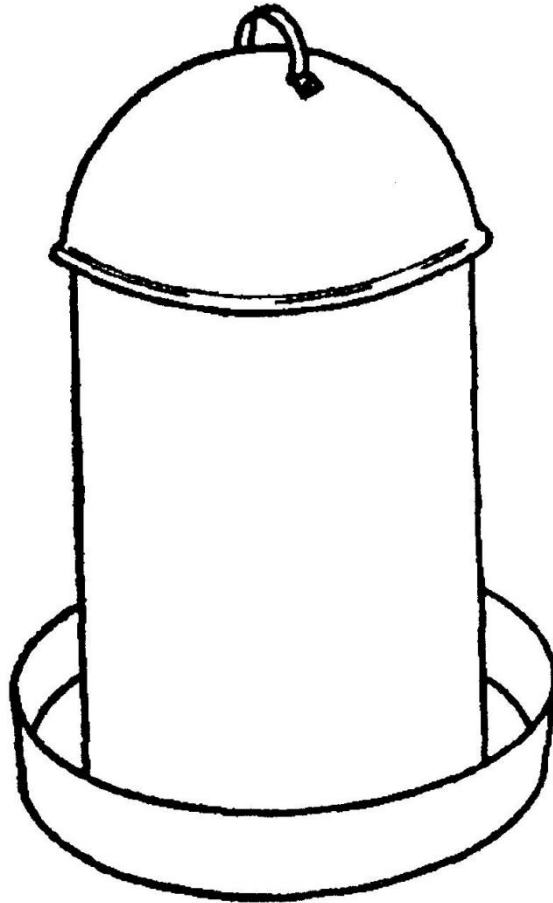


Figure 1 — Typical storage-cistern-fed waterer

4.3.2 Mains-fed waterer

- 4.3.2.1** The waterer shall be supplied with water through a ball valve, or other not less effective device, for controlling the inflow of water, securely and rigidly fixed to the waterer.
- 4.3.2.2** The level of the point of discharge of the ball valve or other device shall be not less than 2.5 cm above the top edge of the waterer (the 'top edge' shall mean the highest level to which water may rise in the waterer).
- 4.3.2.3** The ball valve or other device shall be effectively protected against damage, contamination and unauthorized interference. The fitting of a ball valve or other device within a compartment with cover, provided with a lock and removable key or with a nut and bolt fastening shall be accepted as complying with this requirement.
- 4.3.2.4** A typical mains-fed waterer is shown in Figure 2.



Figure 2 — Typical mains-fed waterer

5 Finish

- 5.1 Frames and parts not directly in contact with the water, if of steel, shall be galvanized or be not less suitably finished against corrosion.
- 5.2 Troughs and parts in direct contact with the water, if of steel, shall be either hot-dip galvanized after manufacture or vitreous enamelled.
- 5.3 Angle iron or other steel parts of substantial section thickness forming the feet and parts of the frame may be treated with stoved enamel as an alternative to galvanizing.
- 5.4 Any timber used in the construction shall be treated with a suitable preservative.
- 5.5 Other metals, for example, aluminium, shall only be used in areas where they are unaffected by the water supplied in those areas.

6 Marking

- 6.1 Unless specified otherwise, each waterer shall be marked, clearly and indelibly, with the following:

- a) The name of manufacturer or trade-mark,
 - b) Storage-cistern-fed or mains-fed waterer, and
 - c) Any necessary instructions for installing and operating the number of birds served.
- D) The waterers may also be marked with a Certification Mark.

7 Tests

7.1 Corrosion resistance test

The prototype waterer shall be exposed in filled condition for 12 weeks in an intensive house which is in normal use and situated at a recognized testing centre.

- 7.2 Test for hazards in plastic waterers: Waterers made from plastic shall be assessed for presence of permissible levels of chemical hazards (Bisphenol A, Dioxins, microplastics et cetera) at a recognized testing centre.

Bibliography

IS 5283:1969(R2000), *Specification for Poultry Waterers, Portable*

IS 1374 (2007): *Poultry Feeds FAD 5: Livestock Feeds, Equipment and Systems*

