

”Serviciul Tehnologia Informației și Securitate Cibernetică” P.I.

Public Bidding
Procurement of unprinted Bovine Ear Tags

Technical Specifications

| Name of the goods | Minimal functional parameters of the equipment | Quantity |
|--------------------------|---|-----------------|
| Ear Tags: 1) Bovine | According to „TECHNICAL REQUIREMENTS” | 40 000 |
| Total | | 40 000 |

Technical Requirements for Bovine Ear Tags

1. General technical requirements

- 1.1. Ear tags shall be made of polyurethane or any other plastic material.
- 1.2 . The ear shall be applied in a position where it is easily visible from a distance.

2. The shape and appearance of ear tags

2.1. Color: Yellow;

2.2. Ear tags must meet the following conditions:

- a) be composed of two parts , namely the "father" and the "mother" parts;
- b) the "father" part must have a penetration pin;
- c) the penetration pin must be made of a hard material, possibly metal to allow a better and easier penetration of the ear, the other parts being of softer material;
- d) the taper pin must allow ventilation and aeration;
- e) the penetration pin must be at least two cutting grooves ;
- f) the trimming made by cutting must be greater than the penetration pin so that the ear tag applied to the ear can rotate freely around the axis ;
- g) the junction channel from the "mother " must be of the "open" type;
- h) the model of the ear tag must be designed in such a way that it can be inserted only in a specific position in the applier-clamp;
- i) the margins and the corners of identification means must be rounded in order not to cause damage to the body.

3. The size of the ear tag

- 3.1. The ear tags shall have the minimum dimensions specified in Figure 1 (Scheme for ear tags for cattle).
- 3.2. The means of connection between the two parts of the ear tags must ensure a distance of 13.5 mm between the two parts.
- 3.3. The "mother" and the "father" parts should not necessarily be the same size, but must comply with the technical requirements presented in Figure 1.

4. Technical performance requirements

4. 1. The ear tags shall meet the following requirements:

- a) to be easily applicable, without requiring a special skill;
- b) to be designed in such a way that it can be inserted only in a specific position in the applicator's clippers;
- c) possibility to be applied only once, observing the specifications listed in this Annex.
- d) provide a good and fast healing of the ear; (healing period test certificate)
- e) the ear tag application should be performed by incision of the pin (at the time of ear tag application), and not by pressure, so that the skin is cut and not pressed into the „mother" ear tag.

5. Ear tag's resistance to traction

- 5.1. The means of connection between the two parts of an ear tag must withstand a 300 N thrust, measured axially, a feature which must be maintained for at least 7 (seven) years from joining.
- 5.2. After application, the two parts of each ear tag must be separated only by permanently damaging the means of connection between them, without being able to reassemble the parts, so that it can be applied only once.

6. Ear tag's resistance to temperatures

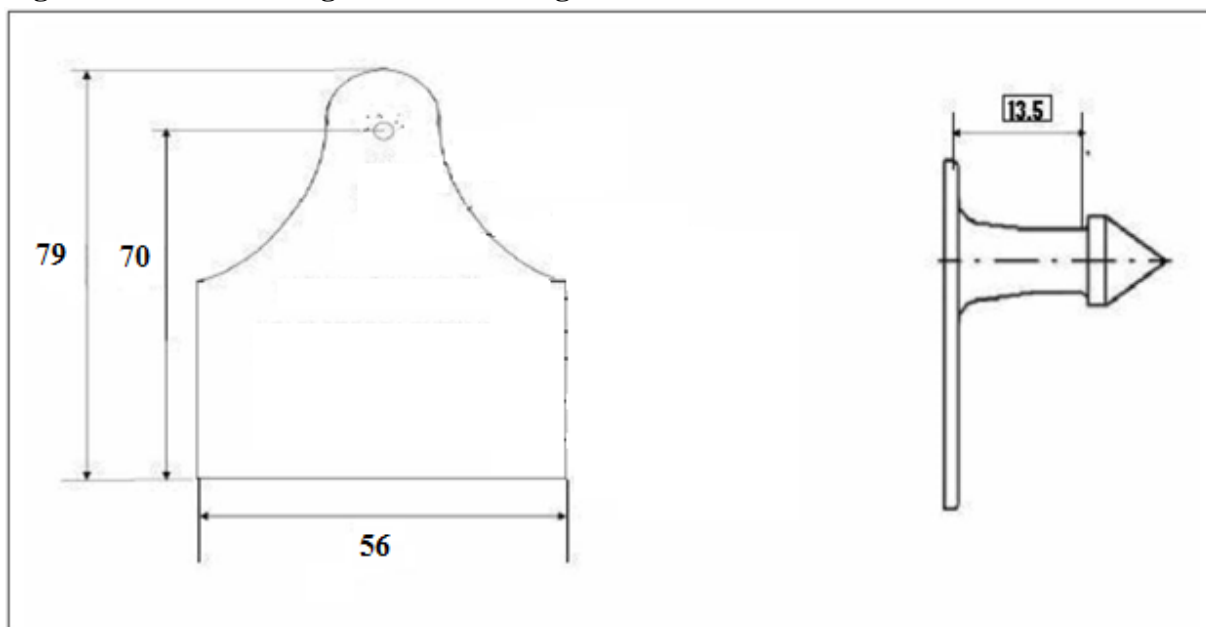
6.1. The plastic material of which the ear tag is made:

- a) must be resistant to a temperature of between -30°C and $+60^{\circ}\text{C}$ and the influence of normal ultraviolet rays;
- b) must not be brittle at temperatures below 0°C ;
- c) must not be torn or broken, hard to be damaged;
- d) must be flexible, durable;
- e) must be innocuous;
- f) must comply with laws and regulations relating to recycling;
- g) must not be reusable;
- h) must not adversely affect the healing process of injuries produced upon application.

7. Ear tags' resistance to abrasion

7.1. It shall not be possible to remove any imprints on the ear tag, which will be printed with Sinar ROFIN laser printer, by washing with water or solvents or by wiping with sandpaper for a period of at least 7 years from delivery.

Fig.1 Technical drawing for cattle ear tags



Note: all sizes are shown in (mm).

CHAPTER II

Technical Requirements for Ear Tags Packing

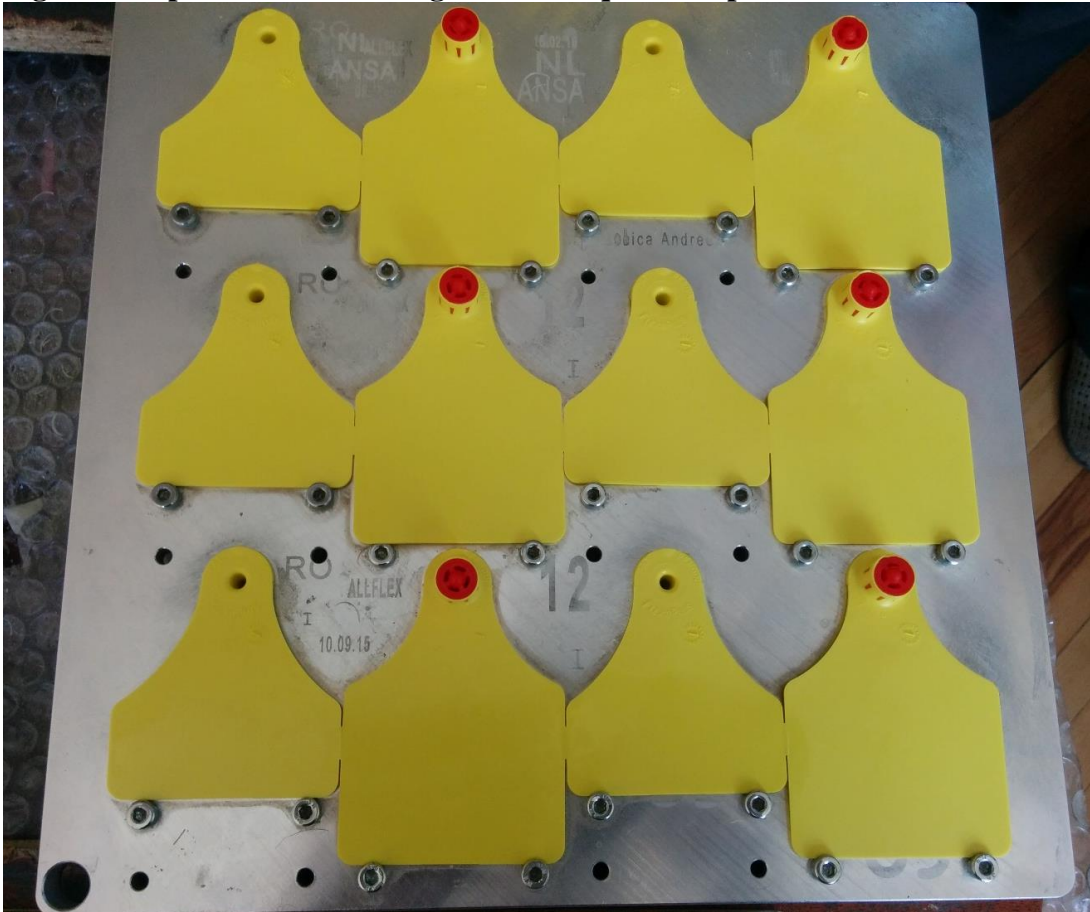
Fig.2 Bovine Ear Tags packing: boxed 300 pcs. (mother and father separated and pre-packaged in 2 pieces)

Bovine Ear Tags Packing in two pieces slightly welded



Technical drawing of the un-printed eartag prepacked BOVINE - in 2 pieces lightly welded to be placed in the production matrix (mother and father part).

Fig. 3 Example of bovine ear tags blanks required in production matrix



The offer will be accompanied by models (samples) means of identification for each species.

CHAPTER III

Additional requirements for ear tags

3. Compatibility of ear tags with the application equipment held by the beneficiary

3.1 The ear tags shall be compatible with the universal ear tag applicator multiflex fig.4

The Bidders have to confirm the compatibility of identification means offered (apart from transponders) with the universal ear tag applicator multiflex fig.no. 4 by a trial report issued by an internationally accredited certification body.

3.2 The test report will confirm that application of the offered ear tags with such applicator will not affect the integrity of the ear tag (deformations, deviations from the drawing and the "Technical requirements" ultimately does not affect animal welfare (compression of ear tissue, necrosis etc.).

Fig.4

Universal applicator for ear tags MultiFlex



"TECHNICAL REQUIREMENTS are compulsory conditions for the Bidder and are included in the evaluation criteria of the Bidding.