

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

**Public Bidding**  
**Procurement of printed eartags**

**Technical Specifications**

<b>Name of the goods</b>	<b>Minimal functional parameters of the equipment</b>	<b>Requeste printed range</b>	<b>Quantity</b>
Ear tags: 1) Sheeps 2) Swine 3) Goats	According to „TECHNICAL REQUIREMENTS”	MD 1002966501 - 1003116500 MD 3006549601 - 3007299600 MD 2000723901 - 2000803900	150 000 750 000 80 000
<b>Total</b>			<b>980 000</b>

**TECHNICAL REQUIREMENTS**  
the characteristics of the printed eartags for sheep, swine and goats

**CHAPTER I**  
**Technical Requirements for Sheeps Eartags**

**1. General technical requirements**

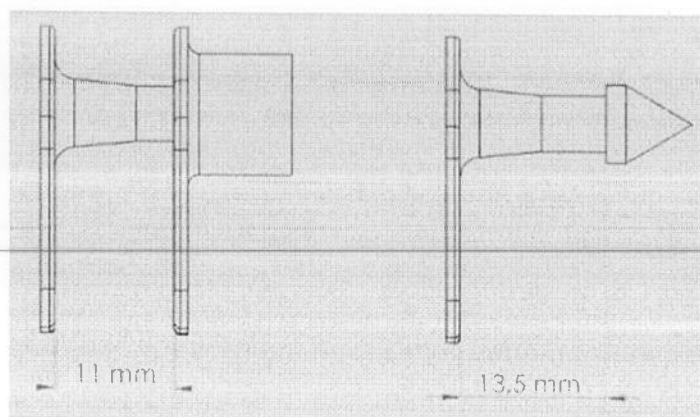
- 1.1 . Eartags shall be made of polyurethane or any other plastic material.  
1.2 . The eartag shall be applied in a position where it is easily visible from a distance.

**2. The shape and appearance of eartags**

- 2.1. Color: Yellow;  
2.2. The eartags will be printed according to the model in Fig. 2 of the chapter, observing the range indicated in the technical specifications table.  
2.3. Eartags 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 eartag**

- 3.1. The eartags shall have the minim dimensions 27 mm long and at minim 27 mm wide specified in Fig. 1 (Scheme for eartags for sheep);  
3.2. The eartags connection between the two parts must ensure a distance of 11 mm between the two parts;



- 3.3. The "mother" and the "father" parts should necessarily be the same size and must comply with the technical requirements presented in Fig. 1. Printing will be done exclusively on the "father" part.  
3.4. The inscriptions printed on the eartags for sheep must contain the following information:

- a) the acronym of the competent authority, in capital letters, respectively ANSA with the size of 3 mm, inscribed at the top of the ear tag;
- b) the name of the manufacturer, inscribed on the right side of the eartag;
- c) the bar code is arranged under an acronym in one row with a height of 4.2 mm;
- d) to the left of the acronym will be inscribed by the manufacturer the date of manufacture of the eartag;
- e) under the bar code are entered on a string 5 numbers with a height of 4.2 mm, which represent: the first two is the ISO country code - MD, the next number is 1, the species code, and the remaining 2 numbers represent the first numbers of the serial number of the animal;
- f) the last line of characters contain 7 numbers with size of 4,8 mm. with represents the last 7 of the 9 numbers of the serial number of the animal.

**3.5** The identification code of the sheep will consist of 12 characters that will be mentioned in the databases, two letters followed by the numerical code consisting of 10 numbers, the characters having the following meaning:

- a) the first two are letters and represent the country code, respectively MD;
- b) the following is the species code, the number 1- for sheep;
- c) the following 9 characters are numbers and represent the serial number of the animal.

#### Example

Type of identification	Identification code	Interpretation of the identification code
Ear tag	MD1009999999	MD – country code 1 - species code for sheep 00 - number series of 9999999 of eartag 9999999 - animal serial number (unique code)

#### 4. Technical performance requirements

The eartags shall meet the following requirements:

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

#### 5. Eartag'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 eartag 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. Eartag's resistance to temperatures

The plastic material of which the eartag is made:

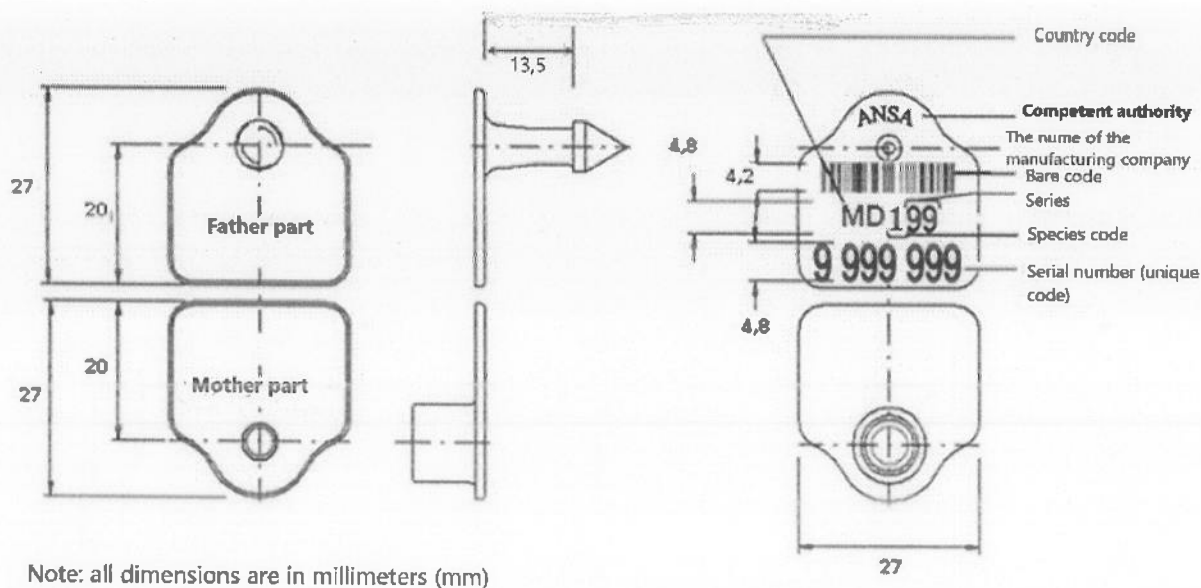
- a) must be resistant to a temperature of between -20°C and +40°C and the influence of normal ultraviolet rays;
- b) must not be brittle at temperatures below 0°C;
- c) must not be torn or broken, hard to be damaged;
- d) must be flexible, durable;
- e) must be innocuous;

- 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.

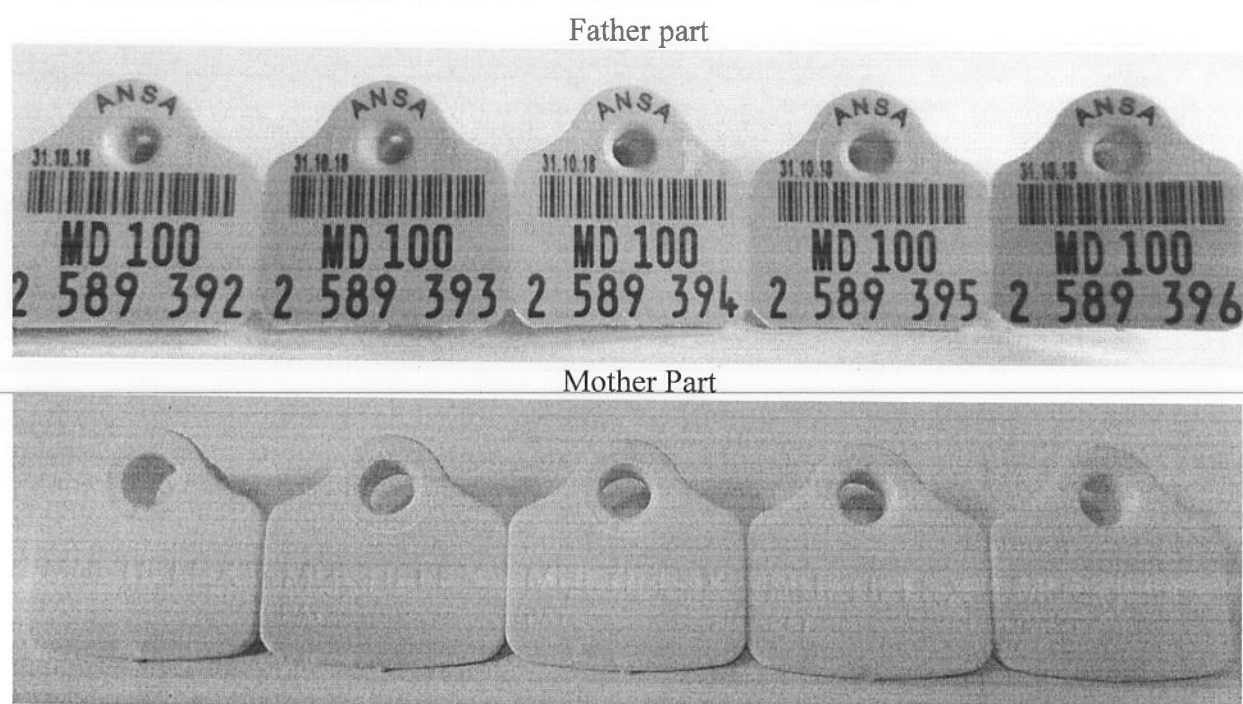
### 7. Eartags' resistance to abrasion

It shall not be possible to remove any imprints on the eartag, by washing with water or solvents or by wiping with sandpaper for a period of at least seven (7) years from delivery.

**Fig. 1** Technical drawing for sheep eartags



**Fig. 2** Sheep Eartag sample



## CHAPTER II

### Technical Requirements for Swine Eartags

#### 1. General Technical Requirements

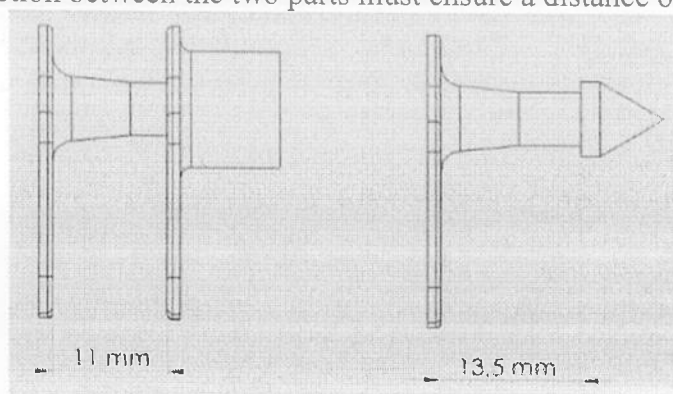
- 1.1. The eartags shall be made of polyurethane or any other plastic material.
- 1.2. The eartag shall be applied in a position where it is easily visible from a distance.

#### 2. The shape and appearance of eartags

- 2.1. Color: Yellow;
- 2.2. The eartags will be printed according to the model in Fig. 4 of the chapter, observing the range indicated in the technical specifications table.
- 2.3. Eartags 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
  - i) the margins and the corners of identification means must be rounded in order not to cause injury to the body.

#### 3. The size of the eartag

- 3.1. The eartags shall have the minimum 34 mm length (height) and 27 mm width dimensions specified in Fig. 3 (technical drawing for swine eartags).
- 3.2. The eartag connection between the two parts must ensure a distance of 11 mm



- 3.3. The "mother" and the "father" parts should not necessarily be the same size, but must comply with the technical requirements presented in Fig.3 Printing will be done exclusively on the "father" part.
- 3.4 The inscriptions printed on the eartags for pigs must contain the following information:
  - a) the acronym of the competent authority, in capital letters, respectively ANSA with the size of 5 mm, inscribed in the upper part of the ear tag, where the fastening system of the two parts is provided;
  - b) the name of the manufacturer, inscribed on the right side of the eartag;
  - c) to the left of the acronym will be inscribed by the manufacturer the date of manufacture;
  - d) the bar code representing the animal identification code with the size of 4,3 mm;

- e) the ISO code of the country, respectively MD for Moldova, followed by 3 numbers: the first number represents the species, respectively 3 - pigs, and the next two numbers represent the number of series 9,999,999 ear tags, all these characters have size of 4,8 mm;
- f) the last line of characters contain 7 numbers, grouped semantically, with size of 5,3 mm.

**3.5** The identification code of the pig will consist of 12 characters that will be mentioned in the databases, two letters followed by the numerical code consisting of 10 numbers, the characters having the following meaning:

- a) the first two are letters and represent the country code, respectively MD;
- b) the following is the number 3, respectively the species code (pigs);
- c) the following 9 characters are numbers and represent the serial number of the animal.

#### Example

Type of identification	Identification code	Interpretation of the identification code
Ear tag	MD3009999999	MD – country code 3 - species code for swine 00 - number series of 9999999 of eartag 9999999 - animal serial number (unique code)

#### 4. Technical performance requirements

The eartags 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 section.
- 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. Eartag's resistance to traction

**5.1.** The means of connection between the two parts of an eartag 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 eartag 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. Eartag's resistance to temperatures

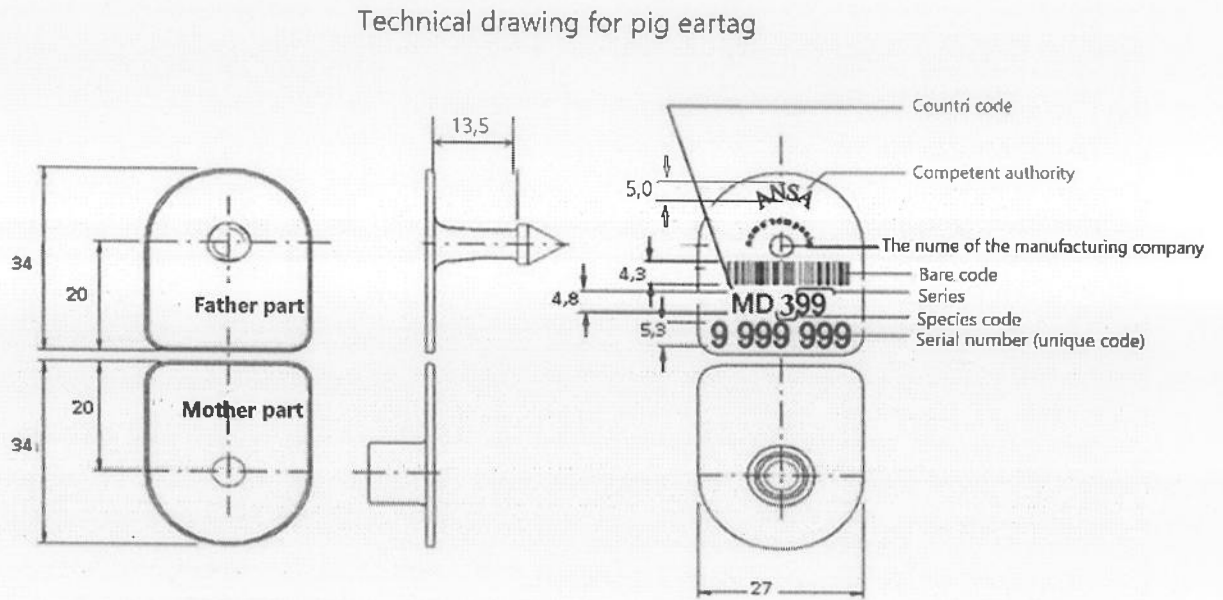
The plastic material from which the eartag is made:

- a) the plastic material of which the ear tag is made must be resistant to a temperature of between -20°C and +40°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. Eartags' resistance to abrasion

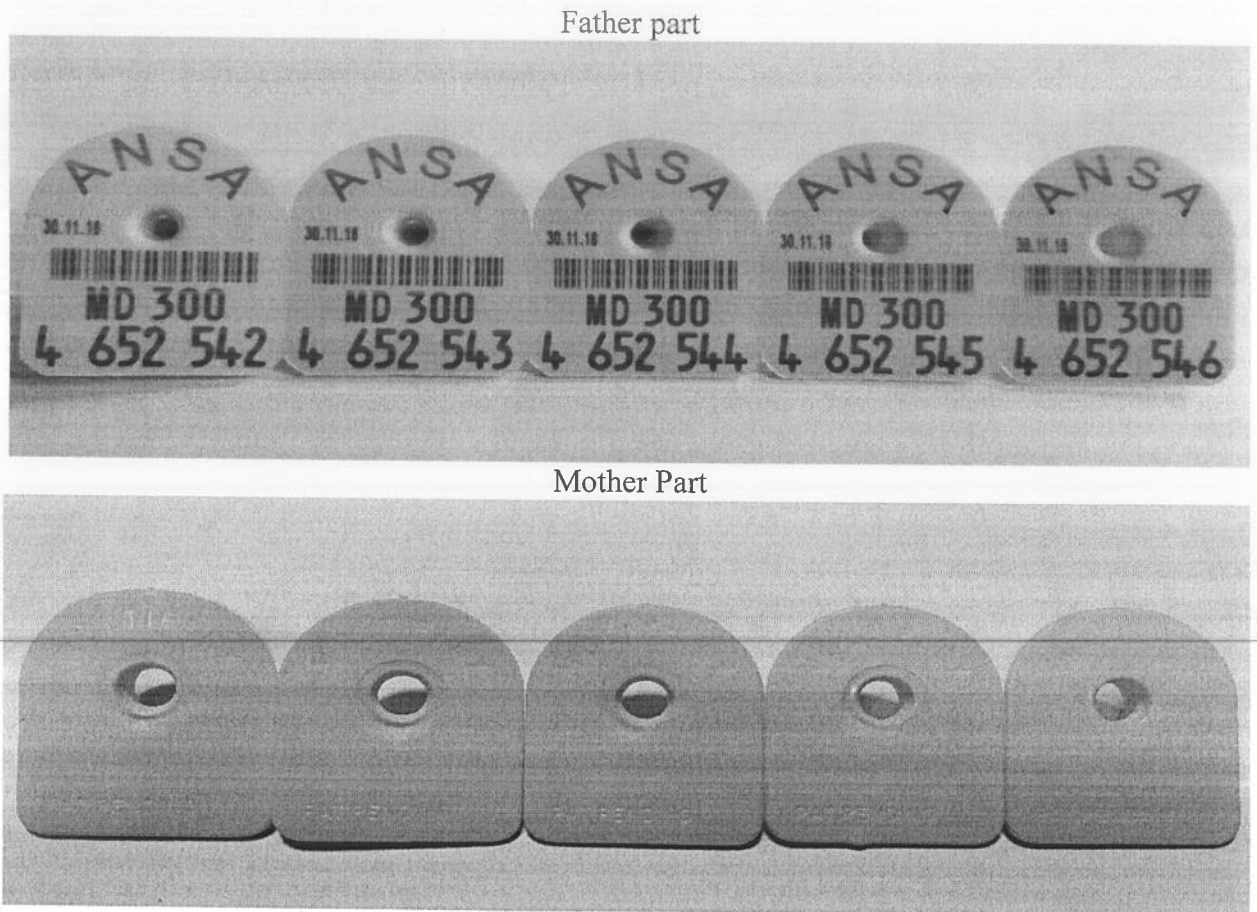
It shall not be possible to remove any imprints on the eartag, by washing with water or solvents or by wiping with sandpaper for a period of at least seven (7) years from delivery.

**Fig. 3** Technical drawing for swine eartags



Note: all dimensions are in millimeters (mm)

**Fig.4** Swine Eartag sample



## CHAPTER III

### Technical Requirements for Goats Ear Tags

#### 1. General technical requirements

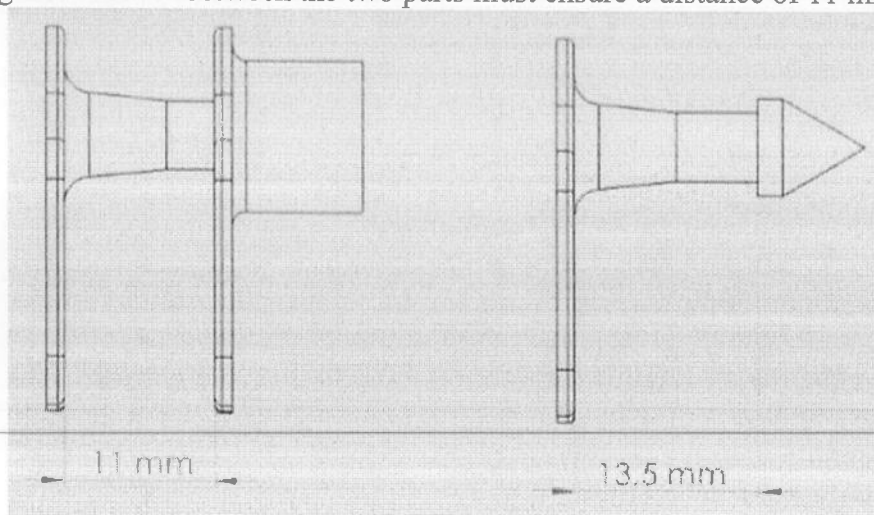
- 1.1. The ear tags shall be made of polyurethane or any other plastic material.
- 1.2. The ear tag shall be applied in a position where it is easily visible from a distance.

#### 2. The shape and appearance of ear tags

- 2.1. Color: White;
- 2.2. The eartags will be printed according to the model in Fig. 6 of the chapter, observing the range indicated in the technical specifications table.
- 2.3. Eartags 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
  - i) the margins and the corners of identification means must be rounded in order not to cause injury to the body.

#### 3. The size of the eartag

- 3.1. The eartags shall have the minim 27 mm length (height) and 27 mm width dimensions specified in Fig. 5 (technical drawing for goats' eartags).
- 3.2. The eartags connection between the two parts must ensure a distance of 11 mm



- 3.3. The "mother" and the "father" parts should not necessarily be the same size, but must comply with the technical requirements presented in Fig. 5. Printing will be done exclusively on the "father" part.
- 3.4. The inscriptions printed on the eartags for sheep must contain the following information:
  - a) the acronym of the competent authority, in capital letters, respectively ANSA with the size of 3 mm, inscribed at the top of the ear tag;
  - b) the name of the manufacturer, inscribed on the right side of the ear tag;
  - c) the bar code is arranged under an acronym in one row with a height of 4.2 mm;



- d) to the left of the acronym will be inscribed by the manufacturer the date of manufacture of the ear tag;
- e) under the bar code are entered on a string 5 numbers with a height of 4.2 mm, which represent: the first two is the ISO country code - MD, the next number is 2, the species code, and the remaining 2 numbers represent the first numbers of the serial number of the animal;
- f) the last line of characters contain 7 numbers with size of 4,8 mm. with represents the last 7 of the 9 numbers of the serial number of the animal.

**3.5** The identification code of the goat will consist of 12 characters that will be mentioned in the databases, two letters followed by the numerical code consisting of 10 numbers, the characters having the following meaning:

- a) the first two are letters and represent the country code, respectively MD;
- b) the following is the species code, the number 2- for goats;
- c) the following 9 characters are numbers and represent the serial number of the animal.

#### Example

Type of identification	Identification code	Interpretation of the identification code
Eartag	MD2009999999	MD – country code 2- species code for goat 00- number series of 9999999 of eartag 9999999 - animal serial number (unique code)

#### 4. Technical performance requirements

The eartags 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 section.
- d) provide a good and fast healing of the ear; (healing period test certificate)
- e) the eartag application should be performed by incision of the pin (at the time of eartag application), and not by pressure, so that the skin is cut and not pressed into the „mother” eartag.

#### 5. Eartag'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 eartag 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. Eartag's resistance to temperatures

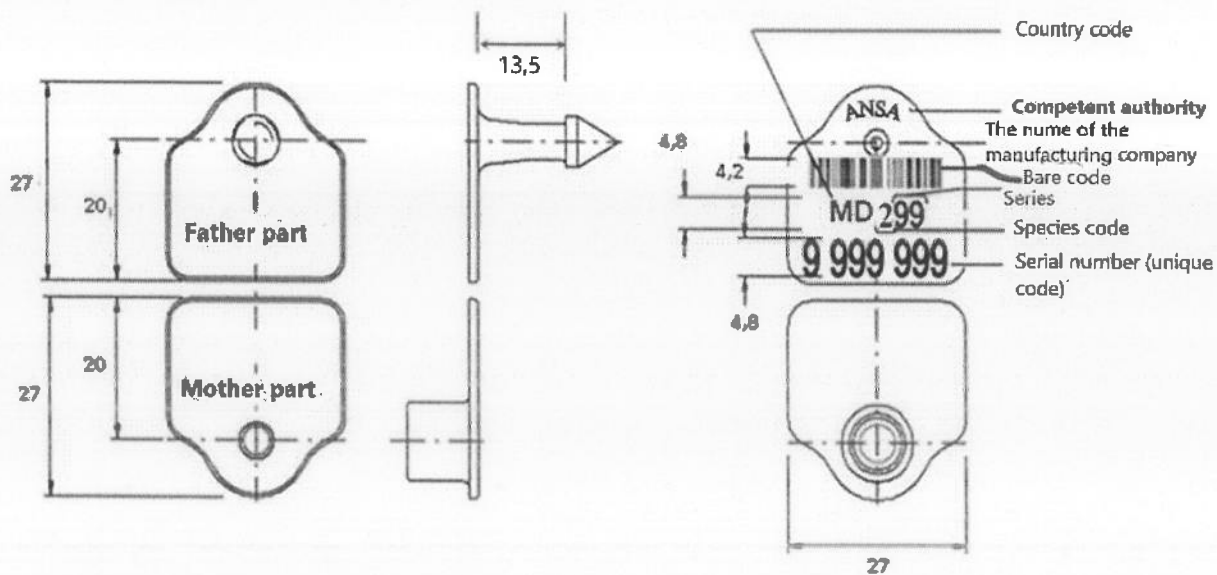
The plastic material of which the eartag is made

- a) must be resistant to a temperature of between -20°C and +40°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. Eartags' resistance to abrasion**

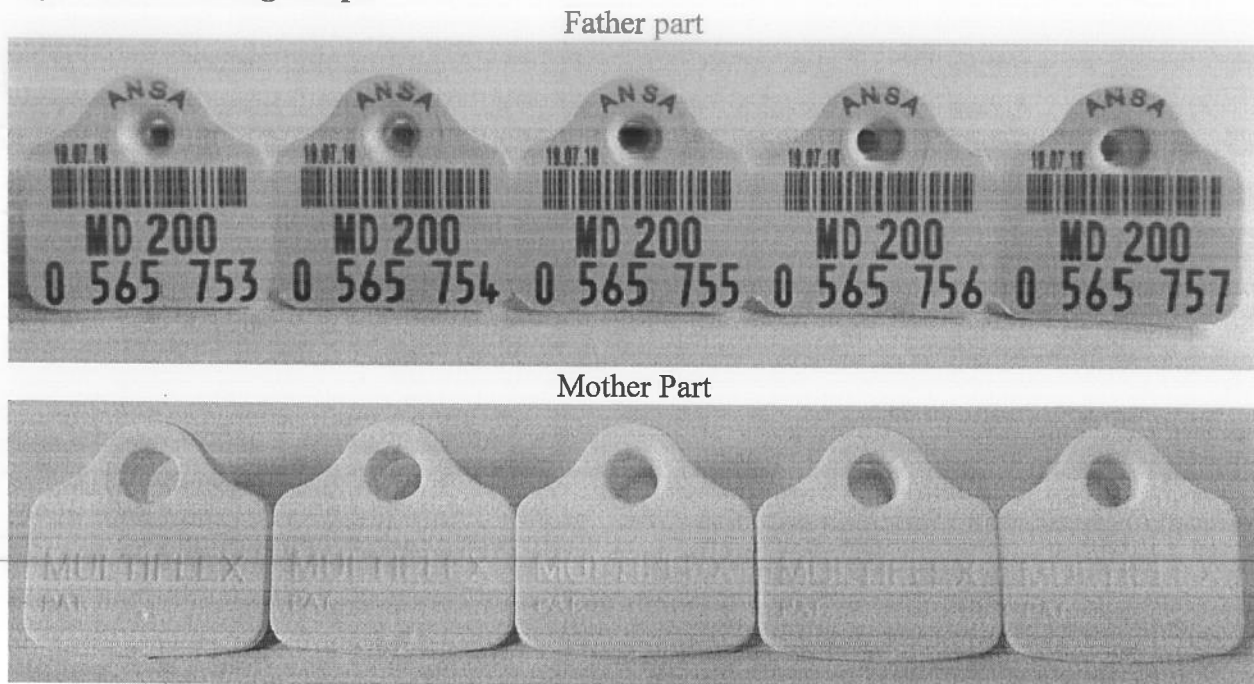
It shall not be possible to remove any imprints on the ear tag, by washing with water or solvents or by wiping with sandpaper for a period of at least seven (7) years from delivery.

**Fig.5 Technical drawing for goats eartags**



Note: all dimensions are in millimeters (mm)

**Fig. 6 Goats Eartag sample**

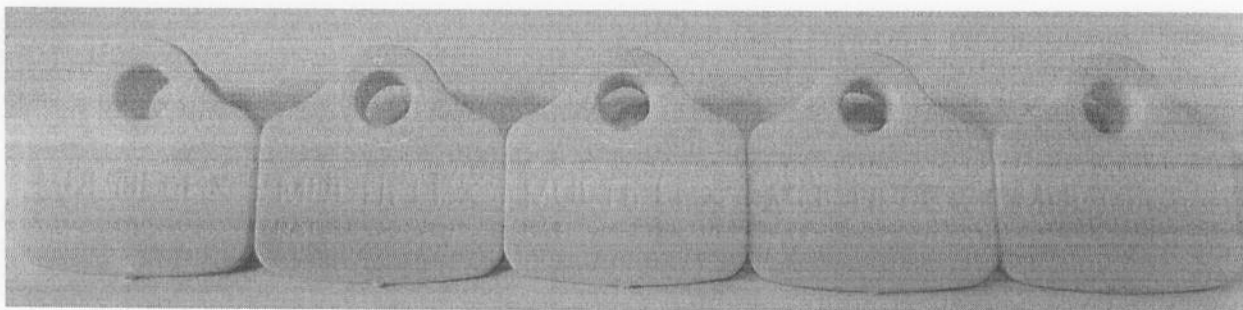


## CHAPTER IV

### Technical Requirements for Eartags Packing

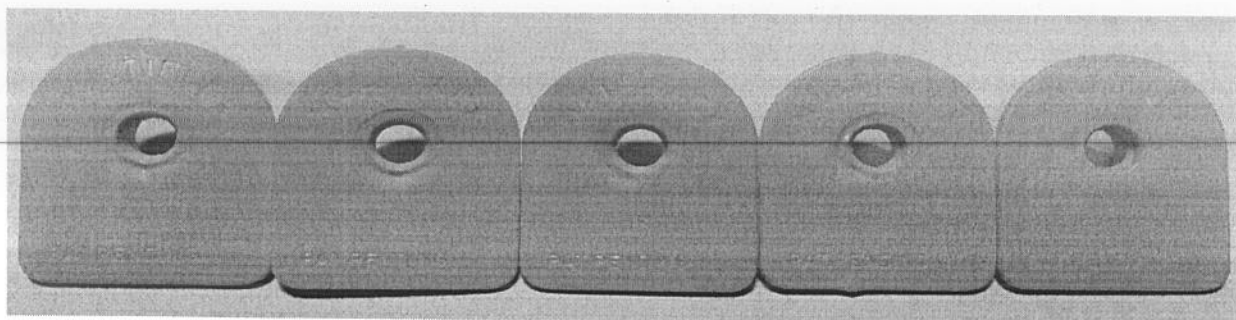
1. **Sheep Eartags packing** - 1000 pieces in a box:
  - a) each box to contain the eartags pre-packaged separately 50 pieces each, the mother and father part in transparent foils with the indication of the tuning fork;
  - b) each box has the complete range indicated, including the species code - 1.

Sheep Eartags Packing in five pieces slightly welded.



2. **Swine Eartags packing** - 1000 pieces in a box:
  - a) each box to contain the eartags pre-packaged separately 50 pieces each, the mother and father part in transparent foils with the indication of the tuning fork;
  - b) each box has the complete range indicated, including the species code - 3.

Swine Eartags Packing in five pieces slightly welded.

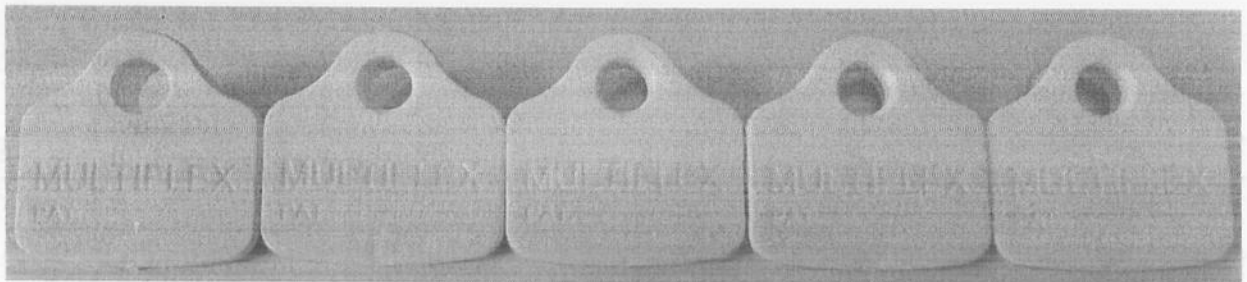




**3. Goats Eartags packing - 1000 pieces in a box:**

- a) each box to contain the eartags pre-packaged separately 50 pieces each, the mother and father part in transparent foils with the indication of the tuning fork;
- b) each box has the complete range indicated, including the species code - 2.

Goat Eartags Packing in five pieces slightly welded.



The offer will be accompanied by the specimen (s) of the printed ear tags for each species.

## CHAPTER V

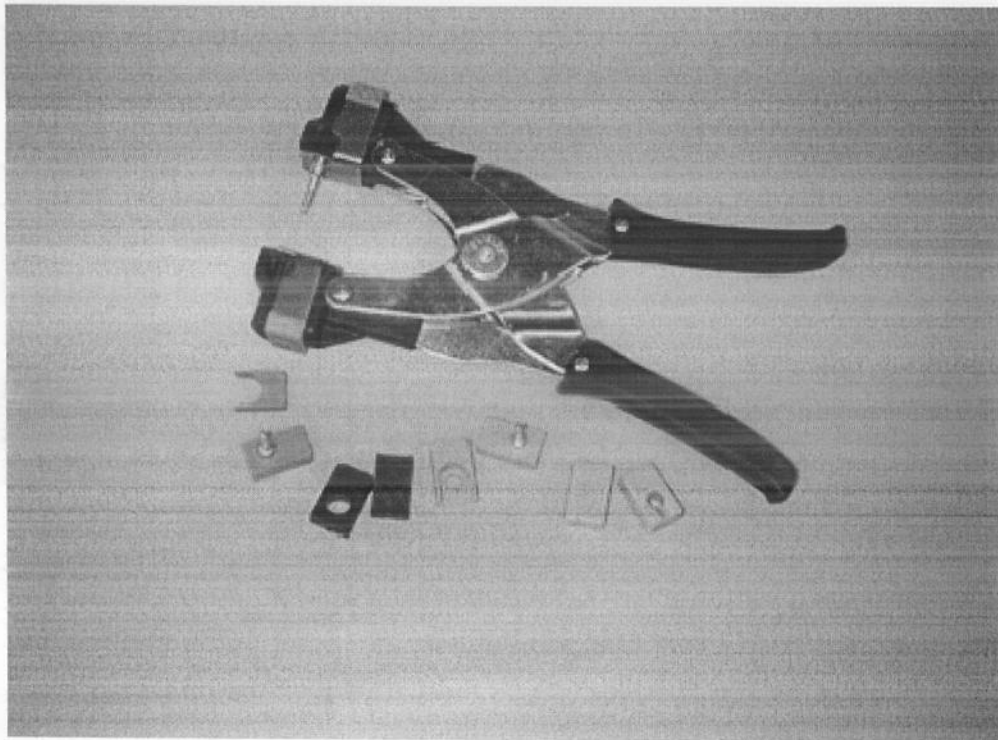
### Additional requirements for all types of eartags

Compatibility of eartags with the application equipment held by the beneficiary:

1. The eartags shall be compatible with the universal ear tag applicator multiflex Fig. 7 of chapter V. The Bidders have to confirm the compatibility of identification means offered with the universal eartag applicator multiflex Fig. 7.

2. Will confirm that application of the offered eartags with such applicator will not affect the integrity of the eartag (deformations, deviations from the drawing and the "Technical requirements") ultimately does not affect animal welfare (compression of ear tissue, necrosis etc.).

**Fig: 7 Universal applicator for cartags Multiflex**



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