Annex nr. 2

Procurement of printed ear tags

Technical Specifications

Name of the goods	**Minimal functional parameters of the equipment**	**Requeste printed range**	**Quantity**
Ear tags: 1) Sheeps 2) Swine 3) Goats	According to „TECHNICAL REQUIREMENTS”	MD 1002866501-1002966500 MD 3005899601-3006549600 MD 2000653901-2000723900	100 000 650 000 70 000
Total			**820 000**

TECHNICAL REQUIREMENTS
of ear tags for sheep, swine and goats

CHAPTER I
Technical Requirements for Sheeps 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. The ear tags will be printed according to the model in Fig. 2 of the chapter, observing the range indicated in the technical specifications table.

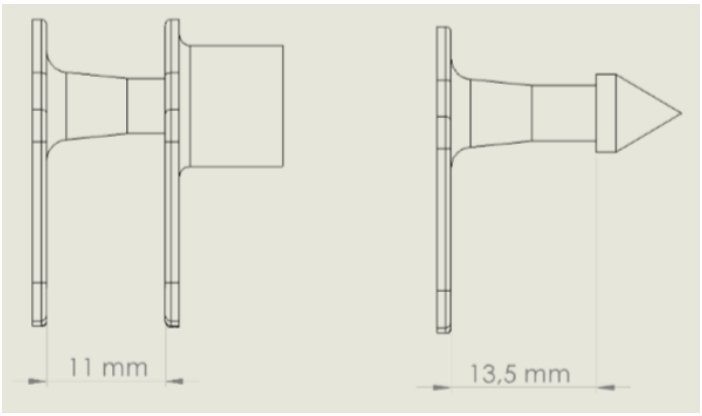
2.3. Ear tags must meet the following conditions:

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 minim dimensions 27 mm long and at minim 27 mm wide specified in Fig. 1 (Scheme for ear tags for sheep);

3.2. The ear tags 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 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 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 cantain 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 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

The plastic material of which the ear tag 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. Ear tags' 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.1 Technical drawing for sheep ear tags

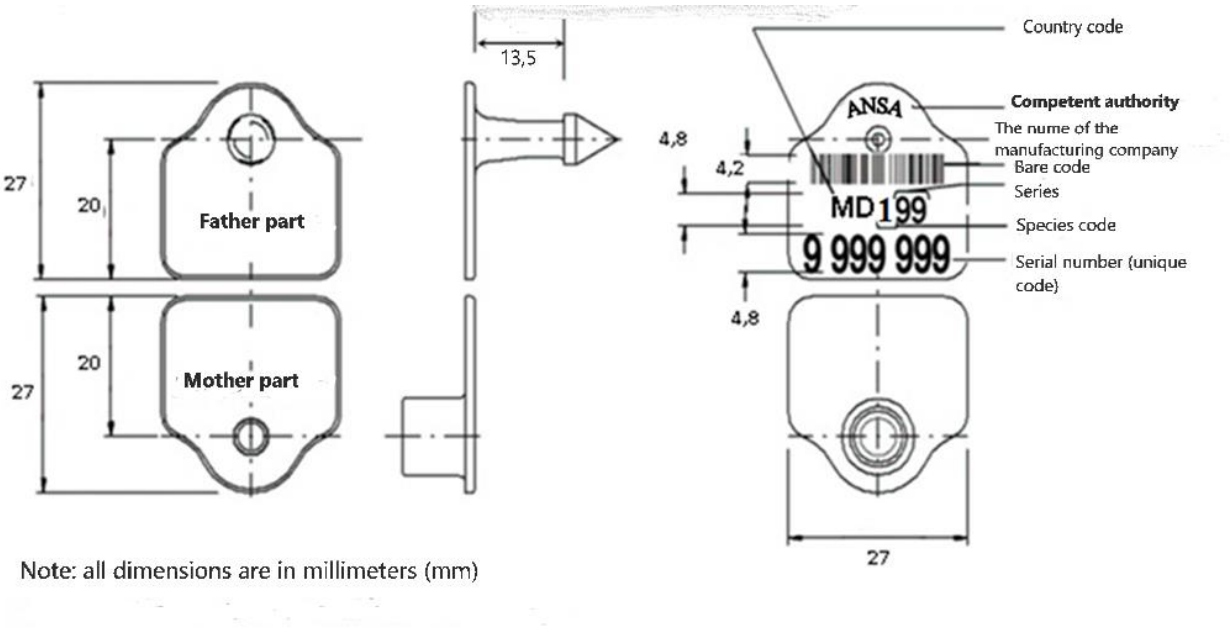


Fig.2 Sheep Ear tag sample

Father part

Mother Part

CHAPTER II
Technical Requirements for Swine 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: Yellow;

2.2. The ear tags will be printed according to the model in Fig. 4 of the chapter, observing the range indicated in the technical specifications table.

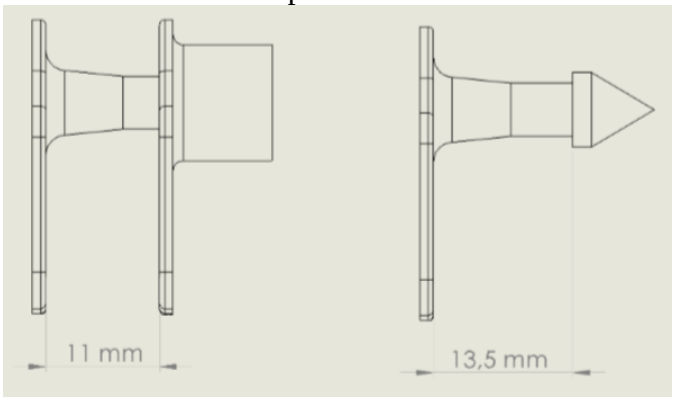
2.3. Ear tags must meet the following conditions:

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
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 ear tag

3.1. The ear tags shall have the minim dimensions specified in Fig. 3 (technical drawing for swine ear tags).

3.2. The ear tag 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 cantain 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 followeinf 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 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 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. 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

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. Ear tags' 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.3 Technical drawing for swine ear tags

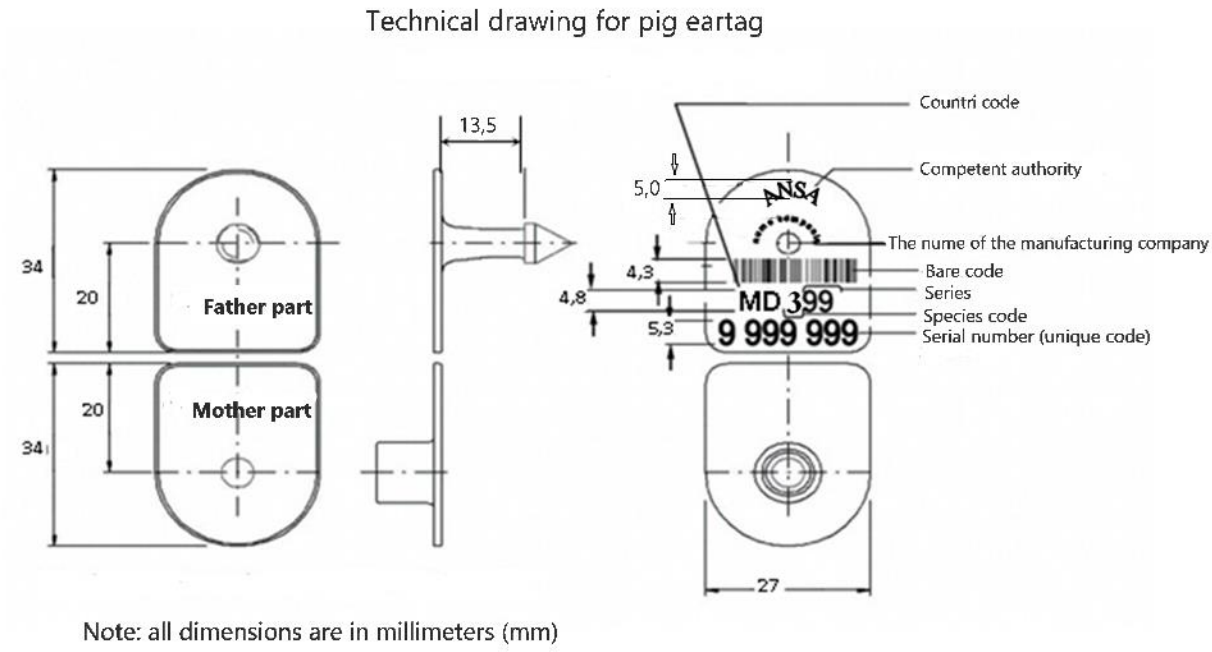


Fig.4 Swine Ear tag sample

Father part

Mother Part

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 ear tags will be printed according to the model in Fig. 6 of the chapter, observing the range indicated in the technical specifications table.

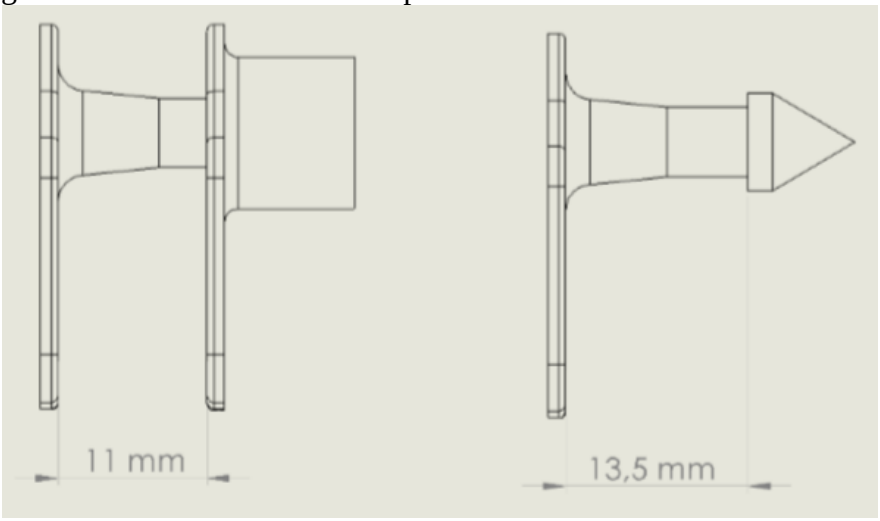
2.3. Ear tags must meet the following conditions:

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
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 ear tag

3.1. The ear tags shall have the minim dimensions specified in Fig. 5 (technical drawing for goats' ear tags).

3.2. The ear tags 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 cantain 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:

d) the first two are letters and represent the country code, respectively MD;
e) the following is the species code, the number 2- for goats;
f) 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	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 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 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. 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

The plastic material of which the ear tag 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) most not be reusable;
h) must not adversely affect the healing process of injuries produced upon application

7. Ear tags' 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 ear tags

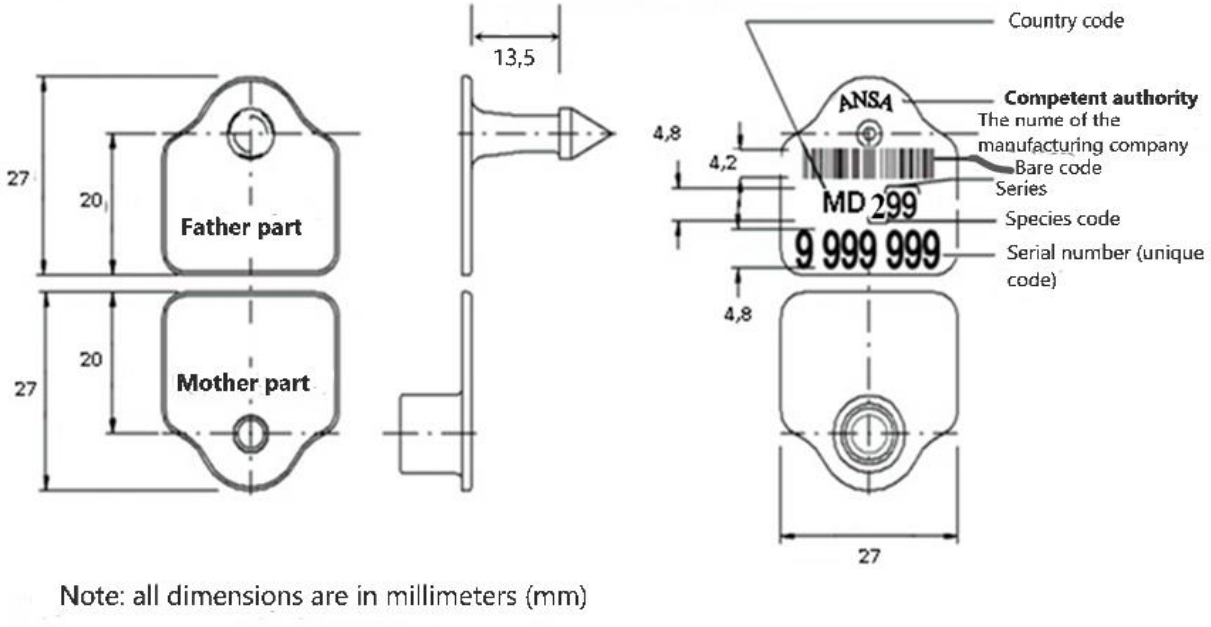


Fig.6 Goats Ear tag sample

Father part

Mother Part

CHAPTER IV
Technical Requirements for Ear Tags Packing

1. **Sheep Ear Tags packing:** boxed 1000 pcs. (mother and father separated and pre-packaged in 50 pieces)

Sheep Ear Tags Packing in five pieces slightly welded

2. **Swine Ear Tags packing:** boxed 1000 pcs. (mother and father separated and pre-packaged in 50 pieces)

Swine Ear Tags Packing in five pieces slightly welded

3. **Goats Ear tags packing:** boxed 1000 pcs. (mother and father separated and pre-packaged in 50 pieces)

   Goat Ear Tags 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 ear tags

Compatibility of ear tags with the application equipment held by the beneficiary:

1. The ear tags 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 ear tag applicator multiflex Fig. 7.

2. 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: 7 Universal applicator for ear tags MultiFlex

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