

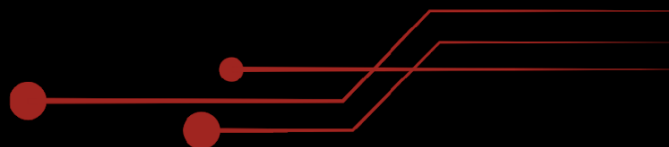
SPECIFICATIONS FOR TRACEABILITY ANIMAL IDENTIFICATION

1. TAG REQUIREMENT SUMMARY

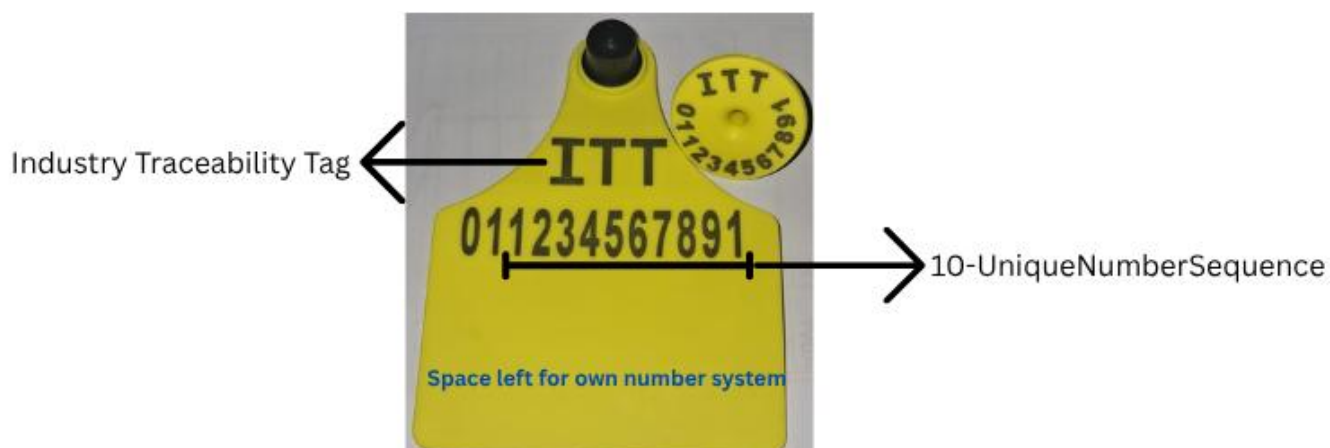
- Tamper-evident
- ICAR Approved tag
- ICAR number sequence (3-digit Prefix_12-digit sequence)
 - Supplied by RMIS (Accommodate imported LF-RFID numbers)
 - ICAR Prefix **Printed** masked by '**ITT**' (VID and UHF-RFID)
 - Number printed on VID, LF & UHF-RFID
 - Number embedded in Barcode, QR code, LF & UHF-RFID
 - Number printed on the male pin is optional

2. VISUAL IDENTIFICATION DEVICES (VIDS)

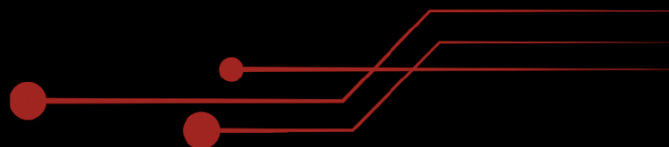
- ICAR-approved VID tag
- **Pre-printed** Number on VIDs before commercial distribution.
- **Number Generation:** The numbering sequence printed on VID's will be generated, issued, and managed by the RMIS Traceability Platform.
 - All ICAR-approved tag manufacturers/suppliers to register on the RMIS Traceability Platform.
 - Each registered manufacturer will receive a bank of unique number sequences allocated electronically through the platform.
 - Manufacturers/Suppliers in agreement:
 - ✓ Allflex
 - ✓ Datamars
 - ✓ Sentrac
 - ✓ Survecom
 - ✓ Shearwell*(Open for additional suppliers)*
- **Format:** 3-digit ICAR Prefix _ 12-Digit serial number
 - Number sequence duplication is possible with the manufacturer's ICAR prefix being used in EIDs and the serialization being done from two different platforms (EID international manufacturers and RMIS Traceability Platform).
 - To avoid number sequence duplication, the manufacturer's prefix will be masked with an industry code when printing the VID, namely:
ITT → Industry Traceability Tag



- **VID Number Format:** Each VID will carry a unique alphanumeric serial code structured as follows: **ITT_01_[10-UniqueNumberSequence]**
 - **ITT** = Industry Traceability Tag (Masked ICAR Prefix)
 - **01** = Registered Tag Manufacturer Identifier (*as issued through the RMIS platform and linked to the manufacturer ICAR prefix, e.g., Allflex = 01*)
 - **[10-UniqueNumberSequence]** = System-generated serial number ensuring national uniqueness



- **Tag:** ICAR Approved and tamper-evident
- VIDs must use a secure two-piece lock design (Tamper-evident) where the male and female parts cannot be separated without visible breakage.
- **Printing standards:**
 - Number print font and size should be readable at arm's length with the naked eye and OCR (Optical Character Recognition)
 - In the **ITT** (Industry Traceability Tag), the font should ensure that the 'I' is presented with the horizontal stripes to enhance and ensure readability; **'I'**
 - Number to be printed on the Female tag.
(The male pin is optional to be printed with the number)
 - The number can be printed anywhere on the tag (Front, back, top, bottom)
 - Optional duplication of the number in a QR-code or barcode format



3. ELECTRONIC IDENTIFICATION DEVICES (EID) TAGS

Electronic Identification (EID) tags include low (LF) and Ultra-High (UHF) frequency RFID.

Low-frequency (LF) RFIDs

- The majority of EID tags are imported with a pre-coded ICAR number embedded in and printed on the EID tag by global suppliers. The numbering sequence is therefore issued by global suppliers before the importation of tags.
 - RMIS will thus not establish a centralized number bank to be used in Low Frequency EIDs that are imported.
 - Instead, RMIS will recognize all tag manufacturers/suppliers who hold an ICAR-approved manufacturer code, to accommodate the numbers embedded in the LF EID tags.
 - If LF EID tags are not pre-encoded, the numbering sequence printed on and embedded in LF EID will be generated, issued, and managed by the RMIS Traceability Platform
 - This approach:
 - Ensures globally recognized numbering standards (ICAR)
 - Ensures the use of recognized tag numbers by the RMIS Traceability Platform
 - Avoids duplication of tag numbers
 - Provides supplier options to participants
 - Does not disrupt existing manufacturing, supply, or logistics processes.
 - The RMIS Traceability Platform will also recognize the number format using **government prefixes**, such as the “710” prefix followed by a 12-digit serial number, ensuring full interoperability with state-administered identification numbers (Used by LITS-SA).
- **Format:** 3-digit manufacturer ICAR prefix, followed by a 12-digit serial number
- **Tag:** ICAR approved and tamper-evident LF EID combined with a male tag of the farmer's choice (male tag could either be a button or a flag tag of choice).
- **Printing Standards:**
 - Embedded number printed on the tag
 - Printed on the female tag (preprinted)
(Printing the number on the male is optional)





4. ULTRA HIGHFREQUENCY (UHF) RFID

As identification technology continues to evolve, RMIS will remain open to innovation and improvement. Future systems—such as Ultra High-Frequency (UHF) RFID or other advanced identification technologies—will be evaluated through continued industry consultation. UHRFID technology tags and readers are in the process of being ICAR compliant, approximately a 12-month period (Confirmed by ICAR).

RMIS will accommodate UHRFID tags before ICAR registration on two conditions:

- Standardized ICAR numbering sequence embedded in and printed on the tag
- Manufacturers/suppliers must register with ICAR when ICAR publishes guidelines and opens registration.

The printing, numbering, and coding standards for UHF-RFID EID are the same as LF EID as described above.

Tag distribution and usage process: Industry Traceability Tags (*ITT*) can be ordered/purchased from RMIS-integrated ICAR-approved manufacturers/suppliers. Logistics will be handled between the buyer and manufacturers/suppliers based on the seller's business structure. (Ordering, manufacturing time, delivery)

Phasing in the Adoption of Traceability Tags

To minimise costs for farmers during the national rollout of traceability tags, all existing tags, including the ones in stock at integrated tag manufacturers/suppliers and their associated numbers (issued by recognized traceability systems), will continue to be recognised and integrated into the RMIS Traceability Platform for a transitional period. This allows current identification systems to function without disruption while ensuring full data compatibility.

It is recommended that, already during the phase-in period, newly tagged animals be identified with tags that contain an ICAR-approved tag and number, either embedded in the tag or printed on it. This requirement ensures standardised, internationally recognised numbering and supports long-term traceability integrity.