



THE GLOBAL STANDARD
FOR LIVESTOCK DATA

Procedure 2 of Section 11 of ICAR Guidelines – ICAR Certification of Measuring, Recording & Sampling Devices and ICAR Validation of Sensor Systems

ICAR Certification of Measuring, Recording & Sampling Devices and ICAR Validation of
Sensor Systems

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Network. Guidelines. Certification.

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Change Summary

Date of Change	Nature of Change
Nov 2019	Creation of separate procedure.
July 2023	Approved by General Assembly and published.

1 Introduction

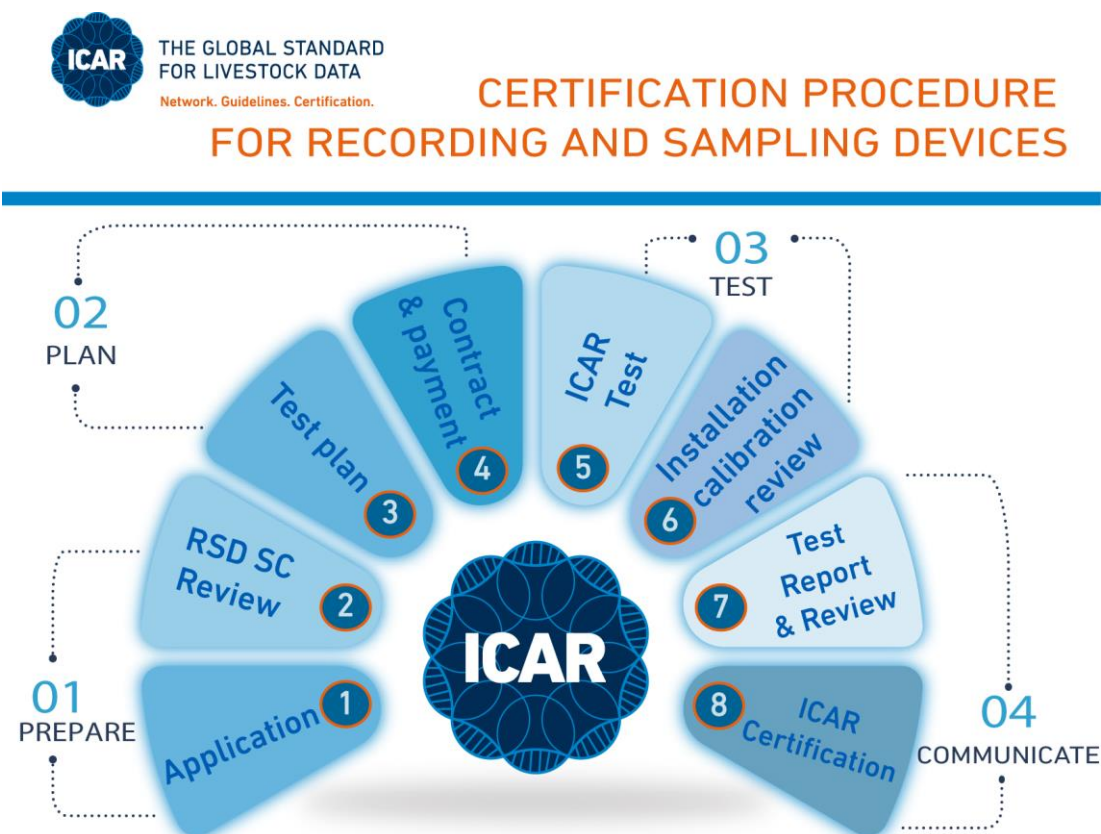
ICAR testing may be of a specific measuring, recording and/or sampling device or of a sensor system that may include a device, animal identification system, controller and/or data transfer protocols.

Device **Certification** is the final stage of the ICAR testing and certification process for measuring, recording and sampling devices, as illustrated in Figure 1. ICAR-certified devices meet the ICAR guidelines provided the manufacturer of the device meets the conditions for certification as outlined in 2.2 of this procedure.

System **Validation** is the final stage of the ICAR testing and validation process for sensor systems as illustrated in Figure 2. ICAR-validated sensor systems have demonstrated through ICAR testing that the system delivers data as described in the test report and the manufacturer of the system meets the conditions for validation outlined in 3.2 of this procedure.

2 Certification of Measuring, Recording and Sampling Devices

Figure 1. Certification procedure for measuring, recording and sampling devices.



2.1 Test results and certificate

- a. On completion of the desk review or test of the device, the Test Centre submits a confidential test report to the ICAR Secretariat.
- b. The ICAR Secretariat circulates the test report to the Measuring, Recording, and Sampling Devices Sub-Committee (MRSD-SC) members for review, comments and recommendation within 30 days.
- c. The Chair of the MRSD-SC informs the ICAR Secretariat about the recommendation of the entire Sub-Committee.
- d. The ICAR Secretariat sends the report to the test applicant and, if applicable, a notification of certification accompanied with an official ICAR certificate.
- e. The ICAR Secretariat shares the test report and the certification recommendation from the MRSD-SC with the ICAR Board for information.

The device is added to the relevant ICAR webpage including pictures of device, year of certification, species, and conditions of test along with installation and routine check procedures.

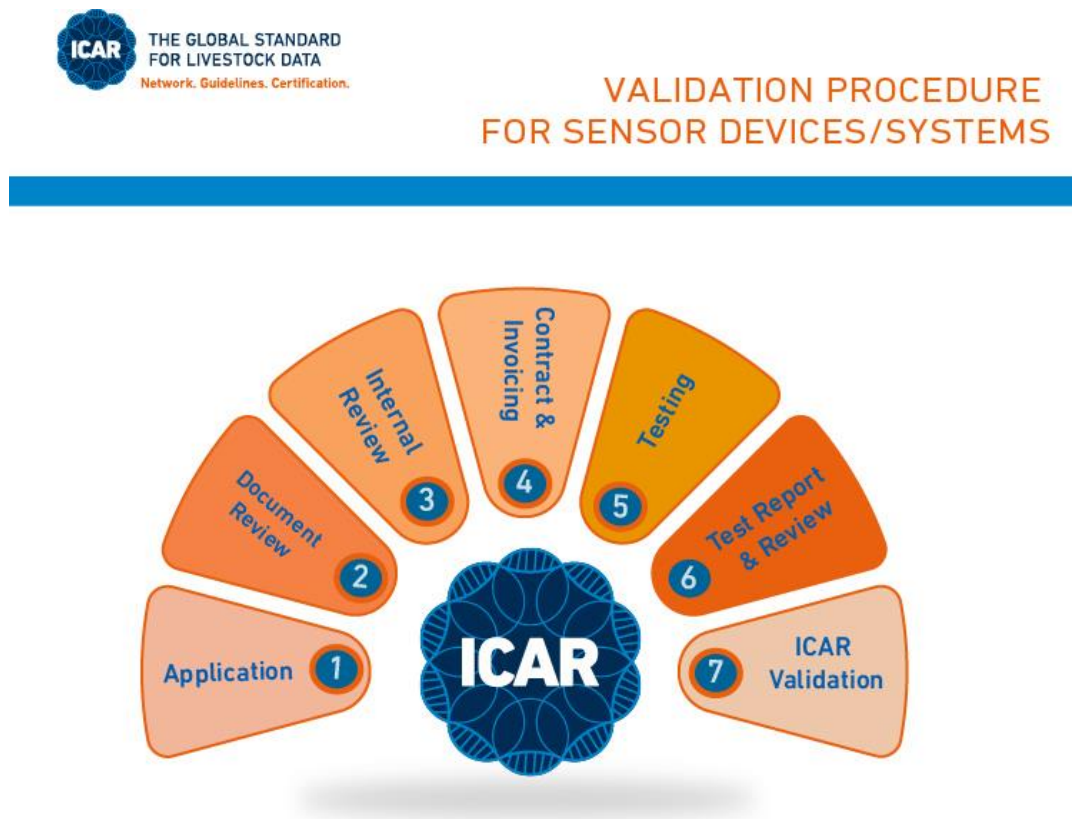
2.2 Conditions for ICAR-certification

Conditions of ICAR certification of a device require the manufacturer and the ICAR Member Organizations to comply with the following:

- a. The manufacturer must tag all the ICAR-certified devices supplied to the market with a non-removable label issued by ICAR as outlined in [Procedure 3](#) of Section 11.
- b. The manufacturer must supply ICAR and its Member Organizations with the description of the installation and routine calibration/check procedure of the device along with the instructions on how to use the respective measuring, recording, and/or sampling device. Installation and routines procedures for each device are published on the ICAR website.
- c. The manufacturer must provide the Member Organizations with all appropriate technical information about the device.
- d. On an annual basis, each manufacturer must submit to ICAR a report regarding the presence on the market of ICAR-certified devices and any hardware/software modifications in relation to those. Please see [Procedure 13](#) of Section 11 for more detail on the annual report by device manufacturers.
- e. On an annual basis, each ICAR Member Organization must submit to ICAR a report regarding the use of ICAR-certified devices on the field, including satisfaction of devices in use and reports on devices with problems on member farms. Please see [Procedure 14](#) of Section 11 for more detail on the annual report by Member Organizations.

3 Validation of Sensor Systems

Figure 2. Validation Procedure for Sensor Systems.



3.1 Test results and certificate

- On completion of the desk review or test of the system, the Test Centre submits a confidential test report to the ICAR Secretariat.
- The ICAR Secretariat circulates the test report to the Measuring, Recording, and Sampling Devices Sub-Committee (MRSD-SC) members for review, comments and recommendation within 30 days.
- The Chair of the MRSD-SC informs the ICAR Secretariat about the recommendation of the entire Sub-Committee.
- The ICAR Secretariat sends the report to the test applicant and, if applicable, a notification of validation accompanied with instructions for use of the term 'ICAR-validated and the applicable logo.
- The ICAR Secretariat shares the test report and the recommendation for system validation from the MRSD-SC with the ICAR Board for information.
- The system is added to the relevant ICAR webpage including pictures of system, year of validation test, species, purpose, and conditions of test along with installation and routine check procedures.

3.2 Conditions for ICAR-validation

Conditions of ICAR validation of a sensor system require the manufacturer and the ICAR Member Organizations to comply with the following:

- a. The manufacturer must follow the instructions for use of the term 'ICAR-validated' and the applicable logo.
- b. The manufacturer must supply ICAR and its Member Organizations with the description of the installation and routine calibration or check procedure of the sensor system along with the instructions on the operation of sensor system and data retrieval. Installation and routines procedures for each sensor system are published on the ICAR website.
- c. The manufacturer must provide the Member Organizations with all appropriate technical information about the sensor system.
- d. On an annual basis, each manufacturer must submit to ICAR a report regarding the presence on the market of ICAR-validated sensor systems and any hardware/software modifications in relation to those. Please see [Procedure 13](#) of Section 11 for more detail on the annual report by sensor system manufacturers.

On an annual basis, each ICAR Member Organization must submit to ICAR a report regarding the use of ICAR-validated sensor systems on the field, including satisfaction of sensor systems in use and reports on these systems with problems on member farms. Please see [Procedure 14](#) of Section 11 for more detail on the annual report by Member Organizations.

4 Suspension or withdrawal of certification or validation

In case of sufficient evidence of problems, as noted in the annual reports from ICAR Member Organizations with a certified device or validated system, the MRSD-SC will communicate with the device or system manufacturer for response and action.

- a. The MRSD-SC may suspend or withdraw a device certification or system validation if the manufacturer has not addressed the problem adequately in the given time.
- b. In case of suspension or withdrawal of a measuring, recording or sampling device certification or sensor system validation, ICAR will inform its Member Organizations that from a given date, new installations with that device or system will no longer be ICAR-certified or ICAR-validated and therefore, recording data will no longer be considered as official.
- c. In case the ICAR-certification of a measuring, recording or sampling device or the ICAR-validation of a sensor system is suspended/withdrawn, the devices already in use before the date of the suspension or withdrawal of certification or validation may be used for official recording after that date.