**POST MAINTENANCE REPORT OF RUSIZI DISTRICT**

1. **INTRODUCTION**

This report summarizes the status after maintenance based on the pre- maintenance findings of the automatic weather stations located in Rusizi District, the maintenance conducted from 30th, September to 03rd, October 2025.

1. **BWEYEYE AWS**
2. **Rain fall**: Records total rainfall of 0.2 mm from 19/07/2025 to 24/09/2025!!

* **Finding: Dirty**
* **Performed activity:** Cleaning and test
* **Status after maintenance:** The status cannot be identified as the data of after maintenance are not available (the last data is for 27/7/2025).

1. **relative humidity:** from 2025-07-25 07:00:00 to 2025-07-26 15:30:00 humidity was 0 % while before and after that period the relative humidity was always above 53%

* **Finding:** Sensor and radiation shield were dirty
* **Performed activity:** Cleaning
* **Status after maintenance:** The status cannot be identified as the data of after maintenance are not available (the last data is for 27/7/2025).

1. **Battery:** battery voltage during night used to drop up to 6.7 V.

* **Finding:** Battery does not store at maximum energy from solar panel
* **Performed activity:** Replaced battery
* **Status after maintenance:** The status cannot be identified as the data of after maintenance are not available (the last data is for 27/7/2025).

1. **NYABITIMBO/BUTARE AWS**
2. **Rain:** Records total rainfall of 1.4 mm from 1/07/2025 to 24/09/2025.

* **Finding:** The sensor is faulty
* **Performed activity:** Testing the sensor
* **Status after maintenance:** Not Solved

1. **KAMEMBE AWS**

**No data logger was in place**

* **Finding:** Data logger was not in place due to the faulty previous one had been removed.
* **Performed activity:** Installed a new data logger (Model: Evolution, Serial Number: 1022264)
* **Status after maintenance:**
* Station is reporting
* Data are not consistently available in web monitor user interface in contrast they are available on server.
* Wind direction data are suspected (they always varying between 1 and 5 degrees)

1. **Shagasha ARG**

Not reporting from 12th November 2024 due to power issue

* **Finding:** Data logger was off due to the regulator was off hence it could not provide power to data logger
* **Performed activity:** Replaced the voltage regulator
* **Status after maintenance:** Solved (station is reporting)

1. **Nkanka ARG**

Not reporting from 8th April 2025

* **Finding:** Data logger was off due to faulty voltage regulator and battery was down
* **Performed activity:** Replaced both battery and voltage regulator
* **Status after maintenance:** Solved (station is reporting)

1. **Nyakarenzo ARG:**

Not reporting from 13th January 2025 due to power issue

* **Finding:** Data logger was off due to faulty voltage regulator and battery was down. Water used to enter into the box for data logger.
* **Performed activity:** Replaced both battery and voltage regulator and changed the position of the box for data logger.
* **Status after maintenance:** Solved (station is reporting)

1. **Bugarama AWS:**

Soil sensor at 10cm not working

Ground thermometer not working

* **Finding:** The cable for soil thermometer at 10cm had been cut while ground thermometer was connected to data logger (it is old)
* **Performed activity:** Replaced the sensor and put it into the pipe for protection and removed back from station the old ground thermometer.
* **Status after maintenance:** Solved, sensor is reporting reasonable values

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