**POST MAINTENANCE REPORT**

1. **INTRODUCTION**

This report summarizes the status of post maintenance carried out on weather stations located in Rusizi District.

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:** Data of up to date 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:** Data of up to date 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:** Data of up to date are not available, the last data is for 27/7/2025.

1. **Missing data:** 57 days, 12 hours, 10 minutes; during night hours did not reports (check the details in provided excel file).

* **Finding:** Missing files are not on data logger’s memory
* **Performed activity:** Copied files from data logger and compared them to the missing ones.
* **Status after maintenance:** Data of up to date 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. **Missing data:** 21 days, 20 hours, 50 minutes; during night hours did not reports (check the details in provided excel file).

**Finding:** Missing files are not on data logger’s memory

**Performed activity:** Copied files from data logger and compared them to the missing ones.

**Status after maintenance:** - From the copied files obtained from the stations, July and August show the same missing data, while September has no missing files. However, on the server, the September data still shows the same missing files.

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