**POST MAINTENANCE REPORT OF NGOMA AND BUGESERA DISTRICTS**

1. **INTRODUCTION**

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

1. **RWERU AWS**
2. **Relative humidity:** from 2025-08-27 07:10:00 to 2025-09-16 23:10:00records RH of 100% and from 2025-09-17 07:30:00 up to date records only 0%.

* **Finding:** Sensor was not connected well
* **Performed activity:** Connecting well sensor
* **Status after maintenance:** Solved

1. **Soil Temperature at 100cm:** from 2025-09-16 07:50:00 starts to vary between 32.5 and 50.

* **Finding:** Fault sensor
* **Performed activity:** Replacing sensor
* **Status after maintenance:** Solved

1. **Did not report in night hours**

* **Finding:** Battery do nor recharge
* **Performed activity:** Replacing battery
* **Status after maintenance:** Solved

1. **RUHUHA AWS**
2. **Does not report**

* **Finding:** Data logger fault
* **Performed activity:** Troubleshooting
* **Status after maintenance:** Not Solved

1. **ZAZA AWS**
2. **Rain:** from 1/7/2025 records to 24/09/2025 rainfall of 818.2 mm, this is unrealistic**.**

* **Finding:** fault sensor
* **Performed activity:** Replacing sensor
* **Status after maintenance:** Solved

1. **Did not report in night hours**

* **Finding:** Battery do not recharge
* **Performed activity:** Replacing battery
* **Status after maintenance:** Solved

1. **Soil Temperature at 10 Cm:** on 2025-08-17 06:10:00 and 2025-08-17 06:20:00 records negative value of 39.7.

* **Finding:** No issue found
* **Performed activity:** troubleshooting/Connecting well the sensor cables.
* **Status after maintenance:** Solved

1. **Wind Direction:** This Vary between 15 degrees and 180 degrees which makes sensor to be suspected.

* **Finding:** No issue found
* **Performed activity:** Troubleshooting
* **Status after maintenance:** Not Solved

Data shows that, 2 days after maintenance the soil temperature at 20 Cm and air temperature instantly gave negative values at the same time.

1. **MUTENDERI ARG**
2. **Does not report**

* **Finding:** Sim Card issue
* **Performed activity:** Cleaning simcard and Rebooting data logger.
* **Status after maintenance:** Solved, station is reporting.

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