**DATA COMPARISONS BETWEEN MANNED AND AWS AT KAZO SITE**

**INTRODUCTION**

This report contains a details comparison between the data taken from automatic weather stations and manned stations. The compared data extends from 1, June,2025 to 15, September 2025.

1. **Daily Rainfall**

* AWS recorded 86.4 mm while manned station recorded 95.8 mm.
* It is observed that most of the days the recordings from AWS are smaller than that from manned, the maximum difference was 2.2mm/ per day.

1. **Maximum temperature**

* Maximum temperature from both station seems to be in harmony all time with correlation coefficient of 0.9415.
* AWS recoded average maximum temperature of 16.60C while Manned recorded 16.70C.
* The difference between them maximum was bellow 10C but exceptional on 24/08/2025 was 2.490C.

1. **Minimum temperature**

* Maximum temperature from both station seems to be in harmony all time with correlation coefficient of 0.8673.
* AWS recoded average maximum temperature of 26.30C while Manned recorded 26.40C.
* The maximum difference observed is 1.780C.

1. **Maximum relative humidity**

* Maximum relative humidity from both station seems to be in harmony all time with correlation coefficient of 0.954.

1. **Minimum relative humidity**

* Maximum relative humidity from both station seems to be in harmony all time with correlation coefficient of 0.9568.

1. **Daily Air Pressure**

Daily Air pressure at Kazo stations is ranging between 834.7hpa and 839 hpa which is the normal range of pressure at that location.

1. **Wind speed and direction**

The wind speeds before and after the upgrade remain within the same range, whereas the wind directions show significant differences. This suggests that the old wind vane may have been malfunctioning, as its recorded directions appeared to vary only between 0° and 175°.

