

# भारत मौसम विज्ञान विभाग

जलवायु अनुसंधान एवं सेवाएँ प्रमुख का कार्यालय  
(सतह उपकरण अनुभाग)  
शिवाजीनगर, पुणे - 411005



भारत सरकार

GOVERNMENT OF INDIA

## INDIA METEOROLOGICAL DEPARTMENT

Office of the Head Climate Research & Services  
(Surface Instruments Division)  
Shivajinagar, Pune - 411005

### Laboratory test report

No.: 8330

ORIGINAL

Name of the instrument : Tipping Bucket Rain Gauge  
Identification No : GPRG0726000001  
Make : Gujranwala Projects  
Model : GPTBRG-V0726  
Calibrated for : Gujranwala Projects  
Resolution : 0.2 mm/tilt  
Collector Diameter : 159.5 mm  
Collector Area : 200 cm.sq

**Calibration:** The above rain gauge sensor has been calibrated against the standards maintained in the Surface Instrument Division, Pune and the calibration results are given below.

| Average Intensity of Rain during calibration(mm/hr) | Observed Percentage error in the measurement of Rain | Reference Table Acceptable Limits of Tolerance for percentage error measurement of rain to IMD |
|-----------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 57.7                                                | 0.0%                                                 | $\pm 4.0\%$ for rain intensity between 50 mm/hr to 100 mm/hr                                   |
| 90.9                                                | 0.8%                                                 | $\pm 4.0\%$ for rain intensity between 50 mm/hr to 100 mm/hr                                   |
| 125.0                                               | 1.6%                                                 | $\pm 5.0\%$ for rain intensity above 100 mm/hr                                                 |
| 176.5                                               | -3.3%                                                | $\pm 5.0\%$ for rain intensity above 100 mm/hr                                                 |

**Remarks:** During the calibration, the no. of tilts was observed on digital pulse counter of IMD.

**Validity of calibration: ONE YEAR**

Checked by:

Mukesh Kumar

Date: 11.08.2026

(U K Shende)  
Scientist – F

Surface Instruments Division  
for Head CR&S