



Form for Regular Reporting of Regional Instrument Centres

(please expand the cells as required to properly reflect your activities)

Terms of Reference for Regional Instrument Centres (RICs) are available under:

<https://www.wmo.int/pages/prog/www/IMOP/instrument-reg-centres.html>

| Regional instrument Centre - General Information | |
|--|--|
| Name of RIC | NAIROBI |
| RIC's website | www.meteo.go.ke |
| Institute hosting RIC | KENYA METEOROLOGICAL DEPARTMENT |
| City | NAIROBI |
| Country | KENYA |
| Regional Association | RA1 |
| | |

| Contact Person for the Regional Instrument Centre | |
|---|---|
| Courtesy Title | MR. |
| First name | RICHARD |
| Family name | MUCHIRA |
| Street and number | P.O. BOX 30259, NGONG ROAD |
| Postal code | 00100 |
| City | NAIROBI |
| State/Province | NAIROBI |
| Country | KENYA |
| Tel. number(s) | +254203867880, +254722285405 |
| Fax number(s) | +254203876955 |
| Email(s) | Director@meteo.go.ke & er_gitari@yahoo.com |
| Has contact person changed since your last | <input type="checkbox"/> Yes <input type="checkbox"/> No |

| | |
|--|-----|
| report? | |
| If yes, provide the previous contact person? | N/A |

| |
|--|
| RIC's staff |
| (Please specify the number of your managerial and technical staff) |
| <ul style="list-style-type: none"> • Managerial: TWO (2) • Technical: FIVE (5) |

| |
|---|
| Interlaboratory Comparisons |
| <p>Have you organized any interlaboratory comparison in <u>the last calendar year</u>? (If yes, please specify the event(s) and final reports, including their web links, if available):NO</p> <ul style="list-style-type: none"> • |
| <p>Have you participated in any interlaboratory comparison in <u>the last calendar year</u>? (If yes, please specify the event(s) and the report(s), including their web links, if available):NO</p> <ul style="list-style-type: none"> • |

| |
|--|
| Applied International Standards/Norms |
| <p>Is your RIC accredited according to ISO/IEC 17025?</p> <p><input type="checkbox"/> Yes (please, specify the following):</p> <p>Accreditation/certification body:</p> <p>Date of the last audit:</p> <p>Link to the Certificate of Accreditation:</p> <p><input type="checkbox"/> No (please, indicate if you have already applied any quality management system, and provide a reason for a lack of accreditation, if possible)</p> <p>-We have already initiated the process of accreditation with the national laboratories accreditation body. We expect to be accredited in the course of 2018/2019 Financial year.</p> |

| |
|---|
| Assessment by a recognized authority other than accreditation body |
| <p>Was your RIC assessed by a recognized authority other than an accreditation body? (e.g. certification body, NMI, another RIC)</p> <p><input type="checkbox"/> Yes (please, specify the following):</p> <p>Name of a recognized authority: BUREAU VERITAS</p> <p>Date of the last assessment:25/2/2015</p> <p>Standard against which the assessment was carried out: ISO 9001:2008</p> |

No (please, explain why, if possible)

-

WMO/CIMO [Evaluation Scheme \(excel file\)](#)

Have you filled out the WMO/CIMO Evaluation Scheme (excel) and submitted it to the WMO Secretariat?

Yes (please, specify when you submitted the most recent one): 11/5/2017

No (please, explain why, if possible)

-

Calibrations of the Members' Instruments

Which calibration services, were provided by your RIC for other Members/countries in the last calendar year? (Please specify)

| Year | Type of instruments | Number of calibrated instruments | WMO Member/Country |
|------|---------------------|----------------------------------|--------------------|
| 2015 | Aneroid Barometer | 2 | Ghana |
| 2015 | AWS (Barometer) | 1 | Somalia |
| | | | |
| | | | |

Capacity Development and Training Activities

Which capacity development/training activities have been carried out by your RIC within the Region in the last calendar year? (please specify events, WMO Members that participated and the number of participants)

- 2015- Instrument Maintenance and Calibration Course (IMCC), 24 Participants from Sudan, Seychelles, Zambia, Malawi, Tanzania, Ethiopia, Sierra Leone, Mauritius, Ghana, Rwanda, Gambia, South Sudan, Zimbabwe, Liberia, Swaziland, Burundi, Namibia, Mozambique, Somali & Kenya
- 2016- Instrument Maintenance and Calibration Course (IMCC), 24 Participants from Sudan, Seychelles, Zambia, Malawi, Tanzania, Ethiopia, Sierra Leone, Mauritius, Ghana, Rwanda, Gambia, South Sudan, Zimbabwe, Liberia, Swaziland, Burundi, Namibia, Mozambique, Somali & Kenya
-

| |
|---|
| • |
| <p>Has your RIC provided services on capacity development and training outside the Region in <u>the last calendar year</u>? (If yes, please specify to whom and when)</p> <ul style="list-style-type: none"> • NO • • |
| <p>Which guidance documents, standard procedures or other publications were developed and published by your RIC in <u>the last calendar year</u>? (Please, include full reference and web-link if available)</p> <ul style="list-style-type: none"> • Instrument Calibration Procedures-AMSK/PR-RIC 751-07 • |

| |
|---|
| <p>Utilization of Resources and Capabilities of the Region</p> |
| <p>(Have you collaborated with other RICs, RRCs, RTCs, NMHSs or NMIs on standardization of meteorological and other related environmental measurements in <u>the last calendar year</u>? If yes, please specify when and how)</p> <ul style="list-style-type: none"> • NO • |

| |
|--|
| <p>Recent Changes in Circumstance</p> |
| <p>Have there been any changes in your RIC's capabilities in <u>the last calendar year</u>? (If so, please specify)</p> <ul style="list-style-type: none"> • NO • |
| <p>Have there been any significant changes in your RIC's infrastructure in <u>the last calendar year</u>? (If so, please specify)</p> <ul style="list-style-type: none"> • NO • |
| <p>Have there been any changes in your staffing in <u>the last calendar year</u>? (If so, please specify)</p> <ul style="list-style-type: none"> • NO • |

| |
|--|
| <p>Future Plans and any other relevant information</p> |
| <p>(Please provide plans/projects of your RIC for <u>this calendar year</u>, and add any other information you find relevant about your RIC)</p> <ul style="list-style-type: none"> • Procurement and installation of wind tunnel |

- Accreditation of RIC
- Capacity building to enhance skill

Are you in agreement with publishing this reporting form on WMO/CIMO website?

Yes

No

22/03/2018

Date

Richard Gitari Muchira

Name and Signature of Person in Charge of RIC

ANNEX

(Following information will be a part of your RIC's website as published on the [WMO/CIMO website](#))

| Specific information on Instrument Calibration Capabilities | | | | | |
|--|-------------------|---|---|-------------------------------------|------------------|
| <u>Temperature:</u> | | | | | |
| Instrument Undergoing Calibration | Calibration Range | Reference Standard, Equipment | Calibration and Measurement Capability (CMC)* | Traceability of Reference Equipment | |
| | | | | Last Standard Calibration Date | Calibration Body |
| Thermohygro-graph | 0 to 40 °C | Climate Chamber Type 3523/17 | | | |
| Liquid in glass thermometers | -10 to 51 °C | Stirred Liquid bath | | | |
| PT 100 | 0 to 100 °C | F252 precision Thermometer | | | |
| Status of accreditation (date of the latest accreditation): Link to the accreditation certificate: Accreditation body: | | | | | |
| <u>Relative Humidity:</u> | | | | | |
| Instrument Undergoing Calibration | Calibration Range | Reference Standard, Equipment | Calibration and Measurement Capability (CMC)* | Traceability of Reference Equipment | |
| | | | | Last Standard Calibration Date | Calibration Body |
| Thermohygro-graph | 10 to 95% | Capacitive humidity sensor in Climate chamber | | | |
| AT/RH probe | 5 to 95 % | Hydrogen | | | |
| | | | | | |

Status of accreditation (date of the latest accreditation):
 Link to the accreditation certificate:
 Accreditation body:

Atmospheric pressure:

| Instrument Undergoing Calibration | Calibration Range | Reference Standard, Equipment | Calibration and Measurement Capability (CMC)* | Traceability of Reference Equipment | |
|---|-------------------|--|---|-------------------------------------|------------------|
| | | | | Last Standard Calibration Date | Calibration Body |
| Precision/ Aneroid/ Digital Barometers | 500 to 1000 hPa | Vaisala PTB barometer/ Pressure chamber | | | |
| | | | | | |
| | | | | | |

Status of accreditation (date of the latest accreditation):
 Link to the accreditation certificate:
 Accreditation body:

Wind:

| Instrument Undergoing Calibration | Calibration Range | Reference Standard, Equipment | Calibration and Measurement Capability (CMC)* | Traceability of Reference Equipment | |
|-----------------------------------|-------------------|-------------------------------|---|-------------------------------------|------------------|
| | | | | Last Standard Calibration Date | Calibration Body |
| | | | | | |
| | | | | | |
| | | | | | |

Status of accreditation (date of the latest accreditation):
 Link to the accreditation certificate:
 Accreditation body:

Precipitation:

| Instrument Undergoing Calibration | Calibration Range | Reference Standard, Equipment | Calibration and Measurement Capability (CMC)* | Traceability of Reference Equipment | |
|-----------------------------------|-----------------------------|-------------------------------|---|-------------------------------------|------------------|
| | | | | Last Standard Calibration Date | Calibration Body |
| Tipping bucket raingauge | 100/0.1/10mm 50/0.2/10mm | Precision sensor calibrator | | | |
| | | | | | |
| | | | | | |

Status of accreditation (date of the latest accreditation):
 Link to the accreditation certificate:
 Accreditation body:

Other (please specify if applicable):

| Instrument Undergoing Calibration | Calibration Range | Reference Standard, Equipment | Calibration and Measurement Capability (CMC)* | Traceability of Reference Equipment | |
|-----------------------------------|--|--|---|-------------------------------------|------------------|
| | | | | Last Standard Calibration Date | Calibration Body |
| Pyranometers | 50 to 120 W/m ² , when fully cloudy | Two reference pyranometers for calibration of global radiation | | | |
| | 120 to 500 W/m ² , when cloudy, | | | | |
| | 500 to 1000 W/m ² , when clear and sunny | | | | |
| | | | | | |

Status of accreditation (date of the latest accreditation):
 Link to the accreditation certificate:
 Accreditation body:

* A CMC (**calibration and measurement capability**) is the smallest uncertainty (k=2) of measurement that can be expected to be achieved by the RIC during a calibration under normal conditions. This CMC is evaluated by the RIC itself and described in the scope of accreditation of the RIC, if available.