



## 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	<a href="http://www.meteo.go.ke">www.meteo.go.ke</a>
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, +254722991901
Fax number(s)	+254203876955
Email(s)	<a href="mailto:Director@meteo.go.ke">Director@meteo.go.ke</a> <a href="mailto:er_gitari@yahoo.com">er_gitari@yahoo.com</a> <a href="mailto:jtnjoroge@gmail.com">jtnjoroge@gmail.com</a>
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

<b>RIC's staff</b>
(Please specify the number of your managerial and technical staff) • Managerial: TWO (2) • Technical: Four (4)

<b>Interlaboratory Comparisons</b>
<b>Have you organized any interlaboratory comparison in <u>the last calendar year</u>?</b> (If yes, please specify the event(s) and final reports, including their web links, if available): <b>NO</b> •
<b>Have you participated in any interlaboratory comparison in <u>the last calendar year</u>?</b> (If yes, please specify the event(s) and the report(s), including their web links, if available): <b>NO</b> •

<b>Applied International Standards/Norms</b>
<b>Is your RIC accredited according to ISO/IEC 17025?</b> <input type="checkbox"/> <b>Yes</b> (please, specify the following): <b>Accreditation/certification body:</b> <b>Date of the last audit:</b> <b>Link to the Certificate of Accreditation:</b> <input type="checkbox"/> <b>No</b> (please, indicate if you have already applied any quality management system, and provide a reason for a lack of accreditation, if possible) -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.

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

**No** (please, explain why, if possible)

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#### 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)

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

<p><b>Utilization of Resources and Capabilities of the Region</b></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"> <li>• NO</li> <li>•</li> </ul>

<p><b>Recent Changes in Circumstance</b></p>
<p><b>Have there been any changes in your RIC's capabilities in <u>the last calendar year</u>?</b> (If so, please specify)</p> <ul style="list-style-type: none"> <li>• NO</li> <li>•</li> </ul>
<p><b>Have there been any significant changes in your RIC's infrastructure in <u>the last calendar year</u>?</b> (If so, please specify)</p> <ul style="list-style-type: none"> <li>• NO</li> <li>•</li> </ul>
<p><b>Have there been any changes in your staffing in <u>the last calendar year</u>?</b> (If so, please specify)</p> <ul style="list-style-type: none"> <li>• YES We lost one of our manager Mr. Benjamin Maina but was replaced by Mr. P Nyaga in the same position</li> </ul>

<p><b>Future Plans and any other relevant information</b></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"> <li>• Procurement and installation of wind tunnel</li> </ul>

- Accreditation of RIC
- Capacity building to enhance skill

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

Yes

No

18/03/2019

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					
<b><u>Temperature:</u></b>					
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:					
<b><u>Relative Humidity:</u></b>					
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 <sup>2</sup> , when fully cloudy	Two reference pyranometers for calibration of global radiation			
	120 to 500 W/m <sup>2</sup> , when cloudy,				
	500 to 1000 W/m <sup>2</sup> , 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.