MEMORANDUM OF UNDERSTANDING

BETWEEN

THE MINISTRY OF WATER AND ENVIRONMENT

AND

THE MINISTRY OF ENERGY AND MINERAL DEVELOPMENT

CONCERNING: DATA SHARING FOR THE NATIONAL GREENHOUSE GAS INVENTORY

2020
This Memorandum of Understanding (MoU) is entered into on this.............day of .................2020 by and between the Ministry of Water and Environment of Plot 21/28 Port Bell Road, Luzira P.O. Box 20026 Kampala (hereinafter MWE), of the one Part

and

The Ministry of Energy and Mineral Development of Amber House Plot 29/33 Kampala Road, P.O Box 7270 Kampala, (hereinafter MEMD), of the other Part.

PREAMBLE

WHEREAS:

i. By signing and ratifying the United Nations Framework Convention on Climate Change (UNFCCC), the Kyoto Protocol 2007, and the Paris Agreement 2015, Uganda has committed to the adoption and implementation of policies and measures designed to mitigate climate change and adapt to its impacts;

ii. Uganda as a Party to UNFCCC, is required to periodically develop and submit national inventories of anthropogenic emissions by sources and removals by sinks of all greenhouse gases (GHGs) not controlled by the 1987 Montreal Protocol;

iii. The National Greenhouse Gas (GHG) Inventory report shows the country’s level of GHG emissions for a given year, and, where reported, the trend of emissions over a certain time period;

iv. The Uganda National Climate Change Policy 2015 requires MWE, more specifically the Climate Change Department (CCD), to develop an inventory of national aggregate greenhouse gas emissions, using existing and readily available data and resources;

v. Cabinet, by Cabinet Minute 241 (CT 2009), assigned MWE CCD the role of coordinating the implementation of climate change actions in the country, including climate change reporting;

vi. Due to the volume and diversity of the information to be included in a National GHG Inventory, the preparation of the Inventory requires the involvement of a wide range of stakeholders;

vii. MWE CCD has identified the key GHG emitting sectors as Agriculture, Energy, Forestry, Transport, and Waste; and MEMD is therefore one of the key sources of information necessary for the preparation of the National GHG Inventory;
viii. GHG data is shared between the sector and MWE, this system of data collection, processing and transmission is not well structured to respond adequately to the UNFCCC reporting requirements;

ix. There is currently no formal arrangement in place requiring the key GHG emitting sectors to periodically submit GHG data to MWE CCD;

NOW THIS MoU WITNESSES AS FOLLOWS:

ARTICLE 1.

OBJECTIVES.

The objectives of this MoU are-

(a) to streamline the collection, processing and sharing of GHG data between MWE and MEMD, for purposes of reporting under the UNFCCC;

(b) to support the development of the National GHG Inventory, for purposes of enhancing transparency and reporting under the Paris Agreement of the UNFCCC and to influence policy decisions at the national level;

(c) to clearly define the roles and responsibilities of MWE CCD and the MEMD as relates to GHG data collection, processing and sharing for UNFCCC reporting;

(d) to exchange GHG data and information, and share expertise, emission factors and methodologies pertaining to the development of the National GHG Inventory.

ARTICLE 2.

ROLES AND RESPONSIBILITIES.

2.1 Roles and responsibilities of MWE CCD.

MWE CCD shall-

(i) define key sources and sink categories; set minimum requirements for Quality Assurance (QA) and Quality Control (QC); specify methods to be used to calculate emissions and clarify uncertainties and any issues concerning emissions reporting;

(ii) assist MEMD GHG data team with the use of activity data, and select and apply appropriate best practice, including the Intergovernmental Panel on Climate Change(IPCC) Good Practice Guidance to improve existing methodologies and emission factors;

(iii) prepare the National GHG Inventory;
(iv) make available to MEMD GHG data team, prior to submission to UNFCCC, the National GHG Inventory for review and to resolve any issues that may be identified by MWE CCD and MEMD GHG data team;
(v) provide continuous capacity building and training of the MEMD GHG data team in order to enhance technical capacity and expertise in data collection, management and sharing;
(vi) in consultation with the MEMD GHG data team, agree on schedules, annual work plans and timelines for submission of the data to MWE CCD;
(vii) in consultation with MEMD, address the technical and capacity needs and constraints in the implementation of this MoU identified by the MEMD GHG data team;
(viii) MWE shall for purposes of this MoU designate an officer as the Focal Point to coordinate with the MEMD GHG Team to implement the MoU
(ix) make available financial and other resources within the limits of the MWE CCD budget to carry out the roles and responsibilities of MWE CCD agreed to in this MoU.

2.2 Roles and responsibilities of MEMD.

MAAIF shall undertake the following-
(i) constitute and designate a GHG data team, headed by the MEMD Climate Change Focal Point, to work with MWE CCD to implement this MoU;
(ii) the MEMD GHG data team shall collect, analyze and submit to MWE CCD, free of charge and in an agreed format, GHG data listed in Annex I to this MoU, and any other related data as may be found necessary or as may be required by MWE CCD for purposes of preparing or updating the National GHGI;
(iii) the MEMD GHG data team shall collect, archive and manage activity data from various data sources available in the energy sector, with the aid of the MWE 2019 ‘Technical Guide for National Greenhouse Gas Data Sharing’ (provided as Annex II to this MoU), and or any other emissions data collection protocols designed by MEMD in consultation with MWE CCD;
(iv) manage internal data acquisition and processing from MEMD agencies, and apply GHG data QA/QC measures as required by MWE CCD;
(v) adhere to the inventory preparation schedule/annual work plans and submission timelines agreed to with MWE CCD;
(vi) identify any technical and capacity needs and constraints in the implementation of this MoU and communicate these to MWE CCD for action.
(vii) make available financial and other resources within the limits of the MEMD budget to carry out the roles and responsibilities of MEMD agreed to in this MoU.
ARTICLE 3.
CONFIDENTIALITY.

MWE CCD undertakes to maintain the confidentiality of any data labelled by MEMD as confidential.

ARTICLE 4.
MEETINGS AND CORRESPONDENCE.

To accomplish the goals and activities set forth in this MoU, the parties shall, as far as practicable-

(a) Regularly meet for the purposes of planning, and monitoring and evaluating outcomes from implementation of the MoU;
(b) Respond to correspondence in a manner and timeframe that promotes efficiency and the timely progress or completion of objectives and tasks consistent with the roles and responsibilities set out in this MoU.

ARTICLE 5.
MODIFICATION AND AMENDMENTS.

This MoU may be amended or modified at any time by written mutual consent of both Parties.

ARTICLE 6.
ENTRY INTO FORCE AND NOTIFICATION

1. This MoU comes into force upon signature. It will remain in force for ten years, and may be renewed upon mutual consent by both Parties, based upon successful past implementation.

2. Each Party shall promptly notify the other Party in writing of any anticipated or actual material changes that will affect the execution of this MoU.

Signatures

On behalf of MWE CCD: On behalf of MEMD

Name: ................................................................. Name: .................................................................

Position: ............................................................. Position: .............................................................

Signature: ........................................................... Signature: ..........................................................

Date: ................................................................. Date: .................................................................
**ANNEX**

**Annex I** contains the details of the emissions data as per IPCC requirement, and the data available for submission to MWE CCD by MEMD.

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**GHG DATA AS PER IPCC REQUIREMENT FOR SUBMISSION BY MEMD**

*Lead Institution:* Ministry of Energy and Mineral Development

*Data supply status:*

<table>
<thead>
<tr>
<th>IPCC Requirement</th>
<th>Description</th>
<th>State of data</th>
<th>Data providers/owners</th>
<th>Other relevant Actors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Electricity Generation</td>
<td>Mass or Volume fuel consumed to per KWH</td>
<td>Electricity generation and consumption data available and well documented</td>
<td>Electricity Regulatory Authority (ERA)</td>
<td>Private companies, industries with Combined Power Heat (CHP) sources</td>
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<tr>
<td></td>
<td></td>
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<td>MEMED - Energy balance and energy abstract documents</td>
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<td></td>
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<td>Uganda Bureau of Standards (UBOS) - Energy Audit Reports</td>
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<td></td>
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<td>UMEME Ltd - Electricity distribution reports</td>
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<td></td>
<td></td>
<td></td>
<td>Uganda Electricity Transmission Company Limited – annual reports</td>
<td></td>
</tr>
<tr>
<td>2. Manufacturing Industries \Wood and Wood Products (Biomass-charcoal, biogas and briquettes)</td>
<td>Consumption (Mass or Volume) and Conversion factor (TJ/UNIT output)</td>
<td>Biomass use data by NFA, and data on charcoal production and use generated through studies.</td>
<td>National Forestry Authority</td>
<td>National Environment Management Authority (NEMA), CSOs, Uganda Manufacturer Association (UMA), Uganda Small Scale Industries Association (USSIA)</td>
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<td></td>
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<td></td>
<td>Rural Electrification Agency (REA)</td>
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<td>Uganda Bureau of Statistics (UBOS)</td>
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<td></td>
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<td>Districts/Ministry of Local Government</td>
<td></td>
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<tr>
<td></td>
<td>Manufacturing industries/construction</td>
<td>Consumption (Mass or Volume) and Conversion factor (TJ/UNIT output)</td>
<td>Data not desegregated to capture construction</td>
<td>Ministry of Trade Industry and Cooperatives (MTIC)</td>
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<td>3.</td>
<td>Manufacturing Industries \ Food Processing, Beverages, Tobacco</td>
<td>Consumption (Mass or Volume) and Conversion factor (TJ/UNIT output)</td>
<td>Data not disaggregated to capture sub categories</td>
<td>MTIC and UBOS</td>
</tr>
<tr>
<td>4.</td>
<td>Manufacturing Industries \ Textile and Leather</td>
<td>Consumption (Mass or Volume) and Conversion factor (TJ/UNIT output)</td>
<td>Data not disaggregated to capture sub categories</td>
<td>MTIC and UBOS</td>
</tr>
<tr>
<td>5.</td>
<td>Manufacturing Industries \ Construction \ Pulp, Paper, Print</td>
<td>Consumption (Mass or Volume) and Conversion factor (TJ/UNIT output)</td>
<td>Pulp and paper making industries absent in Uganda, only paper recycling</td>
<td>N/A</td>
</tr>
<tr>
<td>6.</td>
<td>Manufacturing Industries \ Iron &amp; Steel</td>
<td>Consumption (Mass or Volume) and Conversion factor (TJ/UNIT output)</td>
<td>Data available on electricity used in iron and steel industries. Other fuels used not documented</td>
<td>MTIC and UBOS</td>
</tr>
<tr>
<td>7.</td>
<td>Manufacturing Industries \ Chemicals</td>
<td>Consumption (Mass or Volume) and Conversion factor (TJ/UNIT output)</td>
<td>Data not desegregated to capture chemical industry</td>
<td>MTIC and UBOS</td>
</tr>
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<td>8.</td>
<td>Petroleum Refining</td>
<td></td>
<td>Not available (due 2021)</td>
<td>N/A</td>
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<td>9.</td>
<td>Fuel Consumption</td>
<td>Complements consumption data requirements above</td>
<td>Aggregated fuel consumption (petroleum imports, fuels efficiency)</td>
<td>Ministry of Works and Transport (MoWT)</td>
</tr>
</tbody>
</table>


Annex II contains the MWE 2019 ‘Technical Guide for National Greenhouse Gas Data Sharing among the Selected Key Emission Sectors of Uganda’, and shall be used by MEMD GHG data team in preparing the data and information required under this MoU. The Technical Guide is provided as an independent document to this MoU.