

**MINISTRY OF WATER AND ENVIRONMENT**



**CLIMATE CHANGE DEPARTMENT**

**MEMORANDUM OF UNDERSTANDING**

**BETWEEN**

**THE MINISTRY OF WATER AND ENVIRONMENT**

**AND**

**THE MINISTRY OF AGRICULTURE, ANIMAL INDUSTRIES AND  
FISHERIES**

**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 P.O. Box 20026 Kampala**(hereinafter MWE), of the one Part

and

**the Ministry of Agriculture, Animal Industries and Fisheries of Plot 5 Lugard Avenue, P.O. Box 102 Entebbe**, (hereinafter MAAIF), 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 the 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 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 MAAIF 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 sectors and MWE CDD, 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:**

### **1. OBJECTIVES**

The objectives of this MoU are-

- a) to streamline the collection, processing and sharing of GHG data and information between MAAIF and MWECCD for purposes of reporting to 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 guide policy decisions at national level;
- c) to clearly define the roles and responsibilities of MWE CCD and MAAIF as relates to GHG data and information 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 MAAIF 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, tools and emission factors;
- (iii) prepare the National GHG Inventory;
- (iv) make available to MAAIF 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 MAAIFGHG data teams;

- (v) provide continuous capacity building and training of the MAAIF GHG data team in order to enhance technical capacities and expertise in data collection, management and sharing;
- (vi) in consultation with MAAIF GHG data team, agree on schedules, annual work plans and timelines for submission of the GHG data and information to MWE CCD;
- (vii) in consultation with MAAIF, address the technical and capacity needs and constraints in the implementation of this MoU identified by MAAIF GHG data team;
- (viii) MWE shall, for purposes of this MoU, designate an officer as the Focal Point to coordinate with the MAAIF 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 MAAIF

MAAIF shall undertake the following;

- (i) constitute and designate a GHG data team, headed by the MAAIF Climate Change Focal Point, to work with MWE CCD to implement this MoU;
- (ii) 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 GHG Inventory and UNFCCC reporting;
- (iii) the MAAIF GHG data team shall collect, process, archive and manage activity data from various data sources available in the agricultural 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 MAAIF in consultation with MWE CCD;
- (iv) manage internal GHG data acquisition and processing by MAAIF agencies, and apply GHG data QA/QC measures as required by MWE CCD;
- (v) adhere to the National GHG inventory preparation schedule/annual work plans and submission timelines as 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 MAAIF budget to carry out the roles and responsibilities of MAAIF agreed to in this MoU.

**ARTICLE 3**

**CONFIDENTIALITY**

MWE CCD undertakes to maintain the confidentiality of any data labelled by MAAIF 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) Meet regularly for the purpose of planning, monitoring and evaluating the 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 MAAIF

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 MAAIF.

### GHG DATA AS PER IPCC REQUIREMENT FOR SUBMISSION BY MAAIF

**Lead Institution:** Ministry of Agriculture, Animal Industry and Fisheries

**Data supply status:**

<b>IPCC Requirement</b>	<b>Description</b>	<b>State of data</b>	<b>Data owners</b>	<b>Other relevant Actors</b>
1. Livestock Enteric Fermentation	Livestock numbers (annual) disaggregated by key breed categories	Extrapolated based on 2007 livestock census, disaggregation by breed types based on expert judgement	Uganda Bureau of Statistics (UBOS)	District Local Governments
2. Livestock Manure Management (CH <sub>4</sub> And N <sub>2</sub> O Direct)	Manure management systems disaggregated by key breed categories	Based on expert's judgement \ IPCC default values	N/A	National Livestock Research and Resource Institute (NaLIRRI)/ NARO), Busitema University (soil carbon data), National Forestry Authority (land conversion emissions) National Agricultural Research Laboratory (NARL)
3. Aggregate Sources Lime Application	Annual amount of lime application	Based on data on lime imports, expert's judgement and IPCC default values	Uganda Revenue Authority (URA)	National Crop Resources Research Institute (NaCRRRI), NARL, Makerere University, and Gulu University
4. Aggregate Sources Urea Application	Annual amount of urea application	Based on data on fertilizer imports, expert's judgement and IPCC default values		
5. N <sub>2</sub> O From Managed Soils (Direct)	Annual organic and chemical fertilizer application (Tones) and N			

	fraction in fertilizer			
6. N <sub>2</sub> O From Managed Soils (Indirect)	Annual organic and chemical fertilizer application (Tones) and fraction that volatilizes			
7. N <sub>2</sub> O From Manure (Indirect)	Annual nitrogen excretion and fraction that N that volatilizes	Based on expert's judgement and IPCC default values	N/A	NaLIRRI, NaCRRI, NARL, and Universities
8. CH <sub>4</sub> Rice Cultivation	Annual rice area cultivated or harvested by flood management and agricultural inputs	Expert judgement \ IPCC default values	FAO Statistics	National Crop Resources Research Institute (NaCRRI), NARL, NFA (land conversions)

## ANNEX II

**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 MAAIF 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.