



nema
mazingira yetu | uhal wetu | wajibu wetu

Application Reference No: **NEMA/AGR/119/2019**

Registration No.....**0108**

Form of Access Permit

This permit is hereby granted to **Dr. Matthew D. Johnson of Passport No. USA 532060007 Humboldt State University, 1 Harpst Street, Arcata, California 95521 USA, Dr. Julie A. Jedlicka of Passport No. USA 486342044, Missouri Western State University, 4525 Downs Drive, Saint Joseph, Missouri USA 64507 in** accordance with regulation 11 of the Environmental Management and Co-ordination (Conservation of Biological Diversity and Resources, Access to Genetic Resources and Benefit Sharing) Regulations, 2006 for the collection of the following genetic resources:

Not more than 400 fecal samples from captured insectivorous birds for genetic analysis of the sample to test for the presence of coffee berry borer (*Hypothenemus hampei*) and big headed ant (*Pheidole megacephala*), insect pests in Coffee under the study: "Effects of climate and shade tree habitat on birds and insects pests in coffee farms along an elevational gradient."

Location at: Private coffee farms along an elevation gradient from near Thika to near Limuru in Kiambu County.

This permit is issued subject to the Regulations and all agreements concluded pursuant to its grant, and may be suspended, cancelled or revoked should the holder breach any of those agreements and the conditions of issue and those contained in the Regulations.

Dr. Matthew D. Johnson of Humboldt State University, and Dr. Julie A. Jedlicka of Missouri Western State University being the holders of this permit, including their agents and assignees, undertake to abide by the conditions of this permit and to promptly report to the National Environment Management Authority (NEMA) any matter that may prejudice the interests of Kenya and other parties concluded pursuant to the grant of this permit.

Signed:
Director General,
National

Environment

Date: **12/2/2019**

Management

Authority

P.T.O.



ISO 9001 : 2008 Certified

Third Schedule

(r. 12)

PERMIT CONDITIONS:-NEMA/AGR/93/2018

1. This approval shall be valid for 12 months from the date of issuance and shall not be transferable.
2. This approval is for accessing **NOT MORE THAN 400 fecal samples from captured insectivorous birds for genetic analysis of presence of coffee berry borer (*Hypothenemus hampei*) and big headed ant (*Pheidole megacephala*), insect pests in Coffee under the study: "Effects of climate and shade tree habitat on birds and insects pests in coffee farms along an elevational gradient."** Collected samples to be exported to Missouri Western State University (MWSU), in Missouri USA for advanced genetic analysis.
3. The samples shall retain their original NMK/KWS references. The accessed genetic resources and its derivatives shall be strictly held in NMK/KWS, Humboldt State University (HSU) and Missouri Western State University (MWSU), in Missouri USA.
4. You shall ensure that the samples are well treated and preserved using the provided standards and procedures before storage and export to Missouri Western State University (MWSU), in Missouri USA.
5. You shall ensure that the basic analysis of the genetic resource such as identification, cataloging, analyzing and preservation of the samples to good laboratory standards are done locally at the NMK. You shall ensure that the local partner: NMK/KWS is involved in the collection, identification and preparations of the samples for export.
6. The genetic resource and the derivative shall not be transferred to a third party without the consent of the genetic resource providers KWS, Sasini and Theta Farms, Kiambu County and NEMA. The genetic resource and the derivative shall not be used for commercial or profit purpose without understanding from genetic resource providers KWS, Sasini and Theta Farms, Kiambu County and NEMA.
7. You shall deposit and keep records of all duplicates of the genetic resources with the relevant lead agency, NMK, KWS and provide evidence of deposition to NEMA.
8. You shall ensure that there is reasonable access by all Kenyan citizens to all genetic resources and information collected whether such genetic resources and intangible components including digital sequencing are held locally or abroad.
9. Ensure that all agreements entered into with respect to access of genetic resources shall be strictly for the purposes for which they were entered into. You shall abide by the provision of the Material Transfer Agreements entered with the providers of genetic resources.
10. You shall ensure that the local community/s Traditional knowledge on the genetic resources including **Digital Sequence Information (DSI)/ Synthetic Biology** and their uses are well safeguarded.
11. You shall furnish quarterly reports to NEMA on the status of research, including all discoveries from research involving genetic resources and/or intangible components. You shall comply with the improvement orders issued by NEMA's environmental inspectors throughout the project cycle.
12. NEMA reserves the right to suspend, cancel, revoke or vary this permit in the event of a breach of the conditions stated herein or any contravention to the Environmental Management and Coordination Act, CAP 387 and regulations thereunder.
13. Upon the completion of the intended studies, you shall return the remaining genetic resource to Kenya and deposit with the relevant lead agency NMK / KWS and notify NEMA of the return.