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mazingira yetu / tunda wetu / twabu wetu

NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY

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Application Reference No: **NEMA/AGR/58/2015** (N)

Registration: **0060**

Form of Access Permit

This permit is hereby granted to **Dr. QING-FENG WANG** Director and principal investigator, Sino-Africa Joint Research Center, Chinese Academy of Sciences (SAJOREC/CAS) Moshan, Wuhan 430074, P.R. China 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:

- i. **Not more than 10 individual specimens per sampled species of invertebrates, reptiles, amphibians, fish, birds and small mammal species that are <3kg and of NO conservation concern per locality for taxonomic analysis and academic purpose, and**
- ii. **A Tissue vial, Bird's feathers, toe nails, Fecal and Hair samples from sampled animals collected using non-intrusive methods for DNA extraction and Genomic analysis**

Located at Mt. Kenya; Aberdare Ranges; Mt. Elgon; L. Victoria basin; L. Nakuru; L. Turkana basin; Shimba Hills; Ghulu Hills; Taita Hills; Loita/Nguruman Escapements; Kakamega Forest; Mau Forests; Cherangani Forest; Mt. Marsabit; Mt. Kulal; Amboseli; Masai Mara; Nakuru; Samburu; Tana River Primate Research, Tsavo and Sibiloi National Parks.

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. QING-FENG WANG being the holder of this permit, including his agents and assignees, undertake to abide by the conditions of this permit and to promptly report to the National Environment Management Authority any matter that may prejudice the interests of Kenya and other parties concluded pursuant to the grant of this permit.

Signed: Date: **11/9/2016**
Director General
 National Environment Management Authority

ACCESS PERMIT CONDITIONS:- NEMA/AGR/58/2015

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:
 - i. Not more than 10 individual specimens per sampled species of invertebrates, reptiles, amphibians, fish, birds and small mammal species that are <3kg and of NO conservation concern per locality for taxonomic analysis and academic purpose, and
 - ii. A Tissue vial, Bird's feathers, toe nails, Fecal and Hair samples from sampled animals collected

You shall submit a list of the collected small animal specimens, their IUCN conservation status and Tissue vial, Bird's feathers, toe nails, Fecal and Hair samples of animals including quantities for each, collection locality and method of collection to NEMA.

3. The accessed voucher specimens and their derivatives shall strictly be held at national designate repository: the National Museums of Kenya (NMK) while a subset of the specimen samples collected maybe exported to Sino-Africa Joint Research Center, Chinese Academy of Sciences (SAJOREC/CAS) Moshan, Wuhan 430074, P.R. China and the affiliated institutions for further analysis of genetic barcoding where need may arise and agreed upon by the provider and the users in a signed Material Transfer Agreements. The SAJOREC/CAS affiliated institutions are:

- i. Wuhan Botanical Garden, Chinese Academy of Sciences (WBG, CAS)
- ii. Institute of Botany, Chinese Academy of Sciences (IB, CAS)
- iii. Kunming Institute of botany, Chinese Academy of Sciences (KIB)
- iv. South China Botanical Garden, Chinese Academy of Sciences (SCBG)
- v. Institute of zoology, Chinese Academy of Sciences (IOZ)
- vi. Kunming Institute of Zoology, Chinese Academy of Sciences (KIZ)
- vii. Institute of Hydrobiology, Chinese Academy of Sciences (IOH, CAS)
- viii. Wuhan Institute of Virology, Chinese Academy of Sciences (WIV, CAS)
- ix. Shanghai Chenshan Botanical Garden, Chinese Academy of Sciences (CSBG, CAS)
- x. Shenzhen Fairy Lake Botanical Garden, Chinese Academy of Sciences (SZBG, CAS)
- xi. Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences
- xii. International Ecosystem Management Partnership – UNEP, Chinese Academy of Sciences

- You shall ensure that all sampled voucher specimens are well treated and preserved using the provided standards and procedures before storage at the NMK or export to SAJOREC/CAS/affiliated institutions for further genetic analysis. The specimen labeling system will have the accessions bearing KWS labels and be deposited in the national designated repositories at the NMK for allocation of accession numbers.
- You shall ensure that all laboratory analysis is carried out in Kenya where possible, whereas a need to export a subset of the specimen and samples collected for further analysis, the basic preparation and analysis to good export and laboratory standards shall be done in the project location and/or local institutions; NMK and/or KWS. You shall ensure that the local partners (NMK & KWS) are involved in the identification, collection and preparation of all the specimens and samples for export.
- The genetic resource and the derivative shall not be transferred to a third party without the consent of the genetic resource provider and NEMA.
- The intellectual property rights generated from the accessed genetic resources and associated knowledge shall be jointly owned by all partners: SAJOREC/CAS/affiliated institutions/NMK/KWS.
- The genetic resources and their derivatives shall not be used for commercial or profit purpose without agreement from genetic resource providers and NEMA.
- You shall ensure that there is reasonable access by all Kenyan citizens to all genetic resources collected whether such genetic resources and intangible components are held locally or abroad.
0. 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 (**Taxonomic Studies and Academic Purposes**).
1. You shall abide by the provision of the PIC/MAT and Material Transfer Agreements entered with the providers of genetic resources.
2. You shall ensure that the local community indigenous knowledge on the genetic resources and their uses is well safeguarded.
3. You shall furnish quarterly reports to NEMA on the status of research, including all discoveries and publications from research involving genetic resources and/or intangible components thereof.
14. You shall comply with the improvement orders issued by NEMA's environmental inspectors throughout the project cycle.
15. You shall abide by the laws of Kenya.
16. 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, (Amendment) 2015 and regulations thereunder.
17. Upon the completion of the intended studies, you shall return the remaining genetic resource to Kenya and deposit with the relevant lead agency (KWS/NMK) and notify NEMA of the return.



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REF: NEMA/AGR/58/2015

20th September, 2016

Dr. QING-FENG WANG

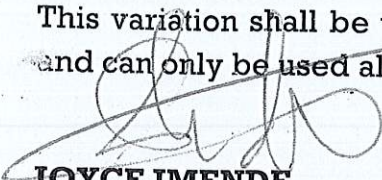
Director and principal investigator,
Sino-Africa Joint Research Center,
Chinese Academy of Sciences (SAJOREC/CAS)
Moshan, Wuhan 430074, P.R. China.

RE: ADDITIONAL CONDITIONS FOR ACCESS TO GENETIC RESOURCES UNDER PERMIT NO. 0060

This is an annex to the above referenced genetic resources access permit. The additional conditions shall apply on the access of plants / flora specimen as following:

1. That the access permit bearer and affiliated institutions shall access/collect not more than 200 plant voucher specimens per sampling locality/transect.
2. Each specimen shall be a small young branch of the big/woody species (approximately A4 size) with at least flowers or fruits. Specimen shall be collected only from unknown/difficult to identify and unique taxa for further identification and preservation or duplication at the East African herbarium (EA), National Museums of Kenya.
3. A living sample of the succulent and unique/threatened taxa will be collected for ex-situ conservation in Nairobi Botanic Garden.
4. One DNA reference sample per species shall be collected where necessary using standard collection methods.

This variation shall be valid for the validity period of the referenced access permit and can only be used alongside the original access permit.


JOYCE IMENDE

HEAD OF BIODIVERSITY SECTION