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(r. 12.)

Application Reference No: **NEMA/AGR/72/2017**

Registration0083

Access Permit

This permit is hereby granted to **Muwawa Edith Mnyazi Kenya Passport No. 2193778 Pwani University** 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 : 60 samples of actinomycetes and fungus from soil: The diversity and biotechnological potential of fungal and actinobacterial species in the Kenyan Mangrove Ecosystems For Export.

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.

Muwawa Edith Mnyazi ...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: 16.11.17
Director General,
National Environment Management Authority

P.T.O.



ISO 9001 : 2008 Certified

PERMIT CONDITIONS:-NEMA/AGR/72/2017

1. This approval shall be valid for 12 months from the date of issuance and shall not be transferable.

This approval is for accessing Not more than : Not more than : 60 samples of actinomycetes and fungus from soil: The diversity and biotechnological potential of fungal and actinobacterial species in the Kenyan Mangrove Ecosystems: For Export.

You shall provide the list and quantity of all collected blood and eggs from the grey-capped social weaver, feathers from the spotted hyena species to NEMA.

2. The access of the genetic resources and its derivatives shall be strictly for PHD In Microbiology Pwani University. You shall ensure that the samples taken are well treated and preserved using the provided standards before export. It has been taken into consideration that the objectives of the phd thesis is to; determine and compare the diversity of actinobacteria and fungal species in the mangrove habitat using illumine sequencing platform; selectively isolate and characterize actinobacterial and fungal species in the mangrove habitats; Describe and isolate novel actinobacterial and fungal isolates; Screen actinobacterial and fungal species for potential antimicrobial activities.
3. You shall ensure that the basic analysis of the genetic resource and preparation of samples to good laboratory standards for export and further analysis shall be done at Pwani University accordingly. Ensure that the local partner is involved in the collection, identification and preparation of the samples for export.
4. The genetic resource and the derivative shall **not be transferred to a third party** without the consent of the genetic resource providers and NEMA.
5. The genetic resource and the derivative shall **not** be used for commercial or profit purpose without understanding from genetic resource providers and NEMA. You shall furnish quarterly reports to NEMA on the status of research, including all discoveries from research involving genetic resources and/or intangible components thereof.
6. You shall **deposit and keep records of all duplicates** of the genetic resources with the relevant lead agency (Pwani and KWS) and provide evidence of deposition to NEMA.
7. 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. 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. You shall ensure that the local community Traditional knowledge **including digital sequences** information on the genetic resources and their uses are well safeguarded.
8. You shall abide by the laws of Kenya. You shall comply with the improvement orders issued by NEMA's environmental inspectors throughout the project cycle. 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.
9. Upon the completion of the intended studies, you shall return the remaining genetic resource to Kenya and deposit with the relevant lead agency (KWS) and notify NEMA of the return.