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**NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY(NEMA)
THE ENVIRONMENTAL MANAGEMENT AND CO-ORDINATION ACT
ENVIRONMENTAL IMPACT ASSESSMENT LICENSE**

License No: **NEMA/EIA/PSL/6715**

Application Reference No: **NEMA/EIA/PSR/8979**

This is to certify that the Environmental Impact Assessment Project Report received from **Ministry of Agriculture, Livestock & Fisheries.**

P.O. Box 60972 - 00200, Nairobi.

submitted to the National Environment Management Authority in accordance with the Environmental Impact Assessment & Audit Regulations, 2003 regarding the:

Proposed Simailele Irrigation Development.

whose objective is to carry on

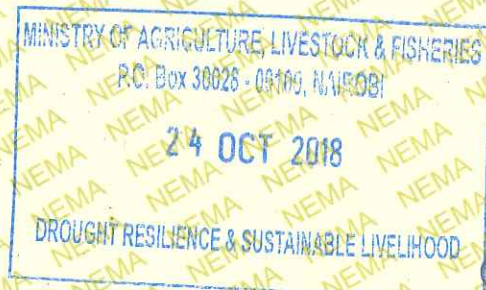
Establishment of Simailele Irrigation Development Project comprising earth works, concrete works, masonry works, metal works, timber works, associated facilities and amenities.

located at

Turkana South Sub-county, Turkana County.

has been reviewed and a license is hereby issued for the implementation of the project, subject to attached conditions.

Issue date : **19 September, 2018**





Signature

(seal)

**Director-General
The National Environment
Management Authority.**

P.T.O.



ISO 9001: 2008 Certified

1.0 General Conditions

- 1.1 This project is for the establishment of Simailele Irrigation Development Project comprising earth works, masonry works, metal works, timber works, and associated amenities at Turkana South Sub-county, Turkana County at an estimated cost of Kshs. 166,164,145.43
- 1.2 The license shall be valid for 24 months (time within which the project shall commence) from the date hereof.
- 1.3 The Director General shall be notified of any transfer, variation or surrender of this license.
- 1.4 Without prejudice to the other conditions of this license, the proponent shall implement and maintain an environmental management system, organizational structure and allocate resources that are sufficient to achieve compliance with the requirements and conditions of this license.
- 1.5 The Authority shall take appropriate action against the proponent in the event of breach of any of the conditions stated herein or any contravention to the Environmental Management and Coordination Act, Cap, 387 and regulations therein.
- 1.6 This license shall not be taken as statutory defence against charges of environmental degradation or pollution in respect of any manner of degradation/pollution not specified herein.
- 1.7 The proponent shall ensure that records on conditions of licenses/approval and project monitoring and evaluation shall be kept on the project site for inspection by NEMA's Environmental Inspectors.
- 1.8 The proponent shall submit an Environmental Audit report in the first year of occupation/operations/commissioning to confirm the efficacy and adequacy of the Environmental Management Plan.
- 1.9 The proponent shall provide the final project accounts (final project costs) on completion of construction phase. This should be done prior to project commissioning/operation/occupation.
- 1.10 The proponent shall comply with NEMA's improvement orders throughout the project cycle.

2.0 Construction Conditions

- 2.1 The proponent shall obtain the requisite approvals from the County Government of Turkana, Water Resource Authority and all other relevant Authorities prior to commencement of works.
- 2.2 The proponent shall put up a project signboard as per the Ministry of Transport and Infrastructure standards showing the NEMA EIA license number among other details.
- 2.3 The proponent shall adhere to the Integrated Water Resource Management Principles through developing and ensuring catchment sustainability throughout the project cycle.
- 2.4 The proponent shall ensure that effective soil erosion prevention and catchment rehabilitation measures are put in place to minimize siltation problems.
- 2.5 The proponent shall ensure that the trenches dug are refilled as fast as practically possible.
- 2.6 The proponent shall ensure relocation, compensation and restoration of livelihoods for any project affected persons (PAPs) and develop a consultative plan for emerging issues and grievance redress mechanism (GRM) as shall be prescribed in the Resettlement Action Plan (RAP).

- 2.7 The proponent shall create a buffer zone of at least 50 meters in width between the irrigation scheme and the natural water body into which such irrigation scheme discharges its waters as per the Environmental Management and Coordination (Riverbanks, Lakeshores and Seashores) Regulations of 2009.
- 2.8 The proponent shall ensure that all excavated material and debris is collected, re-used and where need be, disposed off as per the Environmental Management and Coordination (Waste Management) Regulations of 2006.
- 2.9 The proponent shall ensure that the cooling systems fitted are suitable alternatives with zero ozone depleting potential as per the Environmental Management and Coordination (Controlled Substances) Regulations of 2007.
- 2.10 The proponent shall ensure strict adherence to the provisions of the Environmental Management and Coordination (Air Quality) Regulations of 2014.
- 2.11 The proponent shall ensure that equity is upheld between upstream, midstream and downstream users as pertains to the provision of water for domestic purposes.
- 2.12 The proponent shall put in place suitable mechanisms to control floods from the river.
- 2.13 The proponent shall ensure that the community is engaged fully in the implementation of the irrigation plan and that full support is rendered before commencement.
- 2.14 The proponent shall ensure strict adherence to the provisions of Environmental Management and Coordination (Noise and Excessive Vibrations Pollution Control) Regulations of 2009.
- 2.15 The proponent shall ensure strict adherence to the Occupational Safety and Health Act (OSHA), 2007.
- 2.16 The proponent shall ensure that workers are provided with adequate personal protection equipment (PPE), as well as adequate training.
- 2.17 The proponent shall ensure that the development adheres to zoning specifications issued for development of such a project within the jurisdiction of the County Government of Turkana and the Water Resource Management Authority with emphasis on approved land use for the area.
- 2.18 The proponent shall ensure strict adherence to the Environmental Management Plan developed throughout the project cycle.
- 3.0 Operational Conditions**
- 3.1 The proponent shall ensure that water resource use conflict resolution mechanisms for both upstream and downstream communities are in place.
- 3.2 The proponent shall ensure that farmers are trained on appropriate methods and management systems of application and disposal of agro-chemicals.
- 3.3 The proponent shall ensure that farmers are trained on proper soil conservation measures to minimize excessive soil loss.
- 3.4 The proponent shall ensure that the project water demands do not interfere with downstream users throughout the project cycle.

- 3.5 The proponent shall ensure minimal impact of the project to local populations and compensate appropriately for any land and property affected.
- 3.6 The proponent shall ensure usage of agrochemicals which are approved by Pest Control products Board and appropriate measures are put in place to prevent surface and underground water pollution.
- 3.7 The proponent shall obtain a water abstraction permit from Water Resources Authority (WRA) and shall adhere to the conditions issued.
- 3.8 The proponent shall ensure that all waste water is disposed as per the standards set out in the Environmental Management and Coordination (Water Quality) Regulations of 2006.
- 3.9 The proponent shall ensure that the farmers are trained on appropriate use of agro-chemicals to mitigate degradation of water quality.
- 3.10 The proponent shall ensure that farmers are trained on efficient water use technologies to avoid over flooding.
- 3.11 The proponent shall ensure that rain water harvesting facilities (90-day flood flow) are provided to supplement surface water during the dry season.
- 3.12 The proponent shall ensure that all equipment used are well maintained in accordance with the Environmental Management and Coordination (Noise and Excessive Vibration Pollution Control) Regulations of 2009.
- 3.13 The proponent shall ensure that all solid waste is handled in accordance with the Environmental Management and Coordination (Waste Management) Regulations of 2006.
- 3.14 The proponent shall ensure that all workers are well protected and trained as per the Occupational Safety and Health Act (OSHA) of 2007.
- 3.15 The proponent shall comply with the relevant principal laws, by-laws and guidelines issued for development of such a project within the jurisdiction of the County Government of Turkana, Ministry of Health, Directorate of Occupational Health and Safety Services, Ministry of Agriculture, Livestock and Fisheries, Ministry of Land, Housing and Urban Development, Ministry of Water and Irrigation, Water Resources Authority, Pest Control Products Board, National Construction Authority and other relevant Authorities.
- 3.16 The proponent shall ensure that environmental protection facilities or measures to prevent pollution and ecological deterioration such as water meters, Water Users Association/Committees, catchment conflict resolution mechanisms, effective soil erosion prevention measures, water quality maintenance plan, prevention of water siltation plan, social and engineering safeguards, waste management plan, water-borne diseases control mechanisms are designed, constructed and employed simultaneously with the proposed project.

4.0 Notification Conditions

- 4.1 The proponent shall seek written approval from the Authority for any operational changes under this license.
- 4.2 The proponent shall ensure that the Authority is notified of any malfunction of any system within 12 hours on the NEMA hotline No. **020 6006041/0786101100** and mitigation measures put in place.

- 4.3 The proponent shall keep records of all pollution incidences and notify the Authority within 24 hours.
- 4.4 The proponent shall notify the Authority in writing of its intent to decommission the facility **three (3) months** in advance.

5.0 Decommissioning Conditions

- 5.1 The proponent shall ensure that a decommissioning plan is submitted to the Authority for approval at least three (3) months prior to decommissioning.
- 5.2 The proponent shall ensure that all pollutants and polluted material is contained and adequate mitigation measures provided during the phase.

The above conditions will ensure environmentally sustainable development and must be complied with.