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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/17349**

Application Reference No: **NEMA/EIA/PSR/2896**

This is to certify that the Environmental Impact Assessment Project Report received from
**COUNTY GOVERNMENT OF KISUMU (Department of Agriculture, Irrig...
P.O. Box 1700-40100, Kisumu-Kenya**

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

PROPOSED CONSTRUCTION OF KALOKA INTEGRATED AQUA-PARK

whose objective is to carry on

To construct an integrated Aqua Park project at Kaloka beach h

located at

Located on GPS Coordinates -0.146606 and 34.571069 (Kaloka Camp) and -0.146759
and 34.573504 (Kaloka Beach) in East Seme ward, Seme Sub count y

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

Issue date : 25 February, 2022

Signature
(seal)

Director-General
The National Environment
Management Authority.

Cancel

P.T.O.



ISO 9001: 2015 Certified

General Conditions

- 1.1 This project is for **PROPOSED CONSTRUCTION OF KALOKA INTEGRATED AT KALOKA BEACH, EAST SEME WARD, SEME SUB-COUNTY, KISUMU COUNTY.**
- 1.2 The license shall be valid for 24 months from the date of issue.
- 1.3 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.
- 1.4 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 there under.
- 1.5 This license shall not be taken as statutory defense against charges of pollution in respect of any manner of pollution not specified herein.
- 1.6 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.
- 1.7 The proponent shall submit an Environmental Audit Report in the first year of occupation/operation/commissioning to confirm the efficacy and adequacy of the Environmental Management Plan.
- 1.8 The proponent shall comply with NEMA's improvement orders throughout the project cycle.
- 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.
- 1.10The proponent shall comply with NEMA's improvement orders throughout the cycle.

2. Construction Conditions

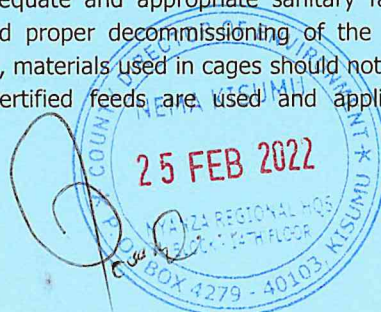
- 2.1 **In the event the project borders a river or stream, pursuant to regulation 6(c) of water quality regulations, 2006, the proponent shall protect the riparian reserves by ensuring that NO development activity is undertaken within the full width of the river or stream to a minimum of (6) meters and a maximum of 30 meters on either sides based on the highest recorded flow level.**
- 2.2 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 2006. The debris shall only be deposited to a NEMA license site.
- 2.3 The proponent shall put up a project signboard as per the Ministry of Works Standards indicating the NEMA license number among other information.
- 2.4 The proponent shall ensure strict adherence to the provisions of Environmental Management and Coordination (Noise and Excessive Vibration Pollution Control) Regulations 2006.
- 2.5 The proponent shall ensure strict adherence to the Occupational Safety and Health Act (OSHA), 2007.
- 2.6 The proponent shall ensure that construction workers are provided with adequate personal protection equipment (PPE), sanitary facilities as well as adequate training.
- 2.7 The proponent shall ensure strict adherence to the Water Act 2002 and its subsidiary legislations.
- 2.8 The proponent shall ensure that activities are undertaken during the day (and not at night) – between 08.00hrs and 17.00hrs; and that transportation of construction materials to and from the site are undertaken during weekdays (and not weekends) off peak hours.
- 2.9 The proponent shall ensure strict adherence to the Environmental Management Plan developed throughout the project cycle.
- 2.10The proponent shall ensure that the development adheres to cage culture establishment and operation guidelines for the Lake Victoria as provided for by the East African Community(EAC)
- 2.11The proponent shall ensure that adequate and appropriate sanitary facilities are provided for the workers during all phases of the project and proper decommissioning of the facilities is carried out once construction is complete.

General Conditions

- 1.1 This project is for **PROPOSED CONSTRUCTION OF KALOKA INTERGRATED AQUA-PARK IN EAST SEME WARD, SEME SUB-COUNTY, KISUMU COUNTY.**
- 1.2 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.
- 1.3 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 there under.
- 1.4 This license shall not be taken as statutory defense against charges of pollution in respect of any manner of pollution not specified herein.
- 1.5 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.
- 1.6 The proponent shall submit an Environmental Audit Report in the first year of occupation/operation/commissioning to confirm the efficacy and adequacy of the Environmental Management Plan.
- 1.7 The proponent shall comply with NEMA's improvement orders throughout the project cycle.
- 1.8 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.
- 1.9 The proponent shall comply with NEMA's improvement orders throughout the cycle.

2. Construction Conditions

- 2.0 The proponent shall ensure that the cages are placed at safe distance from the breeding areas.
- 2.1 The proponent shall ensure that the cages are **not placed close to sensitive environments like fish breeding sites, animal habitats (like Ndere Conservancy) etc.** in the lake
- 2.2 The proponent shall ensure that the cages are **kept off maritime or navigation routes** and that they **do not impede or block access to the fish landing sites or beaches**
- 2.3 **The proponent shall ensure use of HDPE double case netting to mitigate potential damage by predators and escape of caged fish into the wild to prevent interbreeding of the fish with wild populations that may result in genetic contamination.**
- 2.4 The proponent shall ensure proper management of any process wastes generated from cage culture to prevent pollution of the lake.
- 2.5 The proponent shall ensure that stocking of the cages is done using fingerlings from certified sources only
- 2.6 The proponent shall ensure strict adherence to the provisions of Environmental Management and Coordination (Water quality) Regulations 2006.
- 2.7 The proponent shall ensure strict adherence to the Occupational Safety and Health Act (OSHA), 2007.
- 2.8 The proponent shall ensure that construction workers are provided with adequate personal protection equipment (PPE), sanitary facilities as well as adequate training.
- 2.9 The proponent shall ensure strict adherence to the Water Act 2002 and its subsidiary legislations.
- 2.10 The proponent shall ensure that activities are undertaken during the day (and not at night) – between 08.00hrs and 17.00hrs; and that all operations like feeding the fingerlings are undertaken during the day and not at night.
- 2.11 The proponent shall ensure strict adherence to the Environmental Management Plan developed throughout the project cycle.
- 2.12 The proponent shall ensure that the development adheres to cage culture establishment and operation guidelines for the Lake Victoria as provided for by the East African Community (EAC) guidelines.
- 2.13 The proponent shall ensure that adequate and appropriate sanitary facilities are provided for the workers at the lake shore office and proper decommissioning of the facilities is carried out once construction is complete. In particular, materials used in cages should not be left in the lake.
- 2.14 The proponent shall ensure only certified feeds are used and application of the feeds follows established protocol.



3. Operational conditions

- 3.0 The proponent shall ensure regular (preferably quarterly) water analysis around the cages to establish the water quality to help determine impact of activity on the lake water
- 3.1 The proponent shall comply with environmental management and coordination act (waste management) regulation 2006.
- 3.2 The proponent shall ensure that all equipment used is well maintained in accordance with the Environmental Management and Coordination and that there is no spillage of oil or pollutants into the lake from any source.
- 3.3 The proponent shall ensure that all solid waste is handled in accordance with the Environmental Management and Coordination (Waste Management) Regulations 2006. Care should be taken in handling, storage and disposal of hazardous waste or materials.
- 3.4 The proponent shall ensure that all workers are well protected and trained as per the OSHA, 2007. Workers accessing the cages must be equipped with suitable PPEs like life jackets etc
- 3.5 The proponent shall comply with the relevant principal laws, by-laws and guidelines issued for development of such a project within the jurisdiction of **County Government of Kisumu, Public Health, occupational safety Act of 2007(OSHA), Fisheries, Kenya Maritime Act etc.**
- 3.6 The proponent shall ensure that environmental protection facilities or measures to prevent pollution and ecological deterioration such as noise, liquid and solid waste management are installed and used appropriately
- 3.7 The proponent shall ensure that the cooling systems employed for fish preservation are suitable with zero ozone depleting potential.

4. 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 hrs on the NEMA hotline 020606041 and mitigation measures put in place.
- 4.3 The proponent shall keep records of all pollution incidences & notify the Authority within 24hrs
- 4.4 The proponent shall notify the Authority of its intent to decommission three months in advance in writing.

5. 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. The decommissioning shall include appropriate removal and disposal of all cage materials and assessment of the water quality
- 5.2 The proponent shall ensure that all pollutants are contained and adequate mitigation measures provided during the phase.

