

**nema**

mazingira yetu | uhai wetu | wajibu wetu

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

License No: NEMA/EIA/PSL/9840

Application Reference No: NEMA/EIA/SR/1272

This is to certify that the Environmental Impact Assessment Study Report received from

**Al-Sherman Limited.**

**P. O. Box 87074, Mombasa.**

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

**Proposed Salt Works.**

whose objective is to carry on

**Establishment of salt works comprising evaporator ponds, serving ponds, crystallizer ponds, three pump stations, dykes, site camp with offices and associated facilities.**

located at

**Unoccupied 753.8Ha of Plot L. R No.13536 at Marereni Sub-Location in Kilifi County.**

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

Issue Date : **22 December, 2020**

Signature

(Seal)

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

**P.T.O**



ISO 9001:2015 Certified

**1.0     General Conditions**


- 1.1     This project is for the establishment of salt works comprising evaporator ponds, serving ponds, crystallizer ponds, three pump stations, dykes, site camp with offices and associated facilities on unoccupied 753.8Ha of Plot L. R No. 13536 in Kilifi County.
- 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 thereunder.
- 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 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 Kilifi, Kenya Forest Service and all other Relevant authorities before commencement of prospecting works.
- 2.2     The proponent shall obtain requisite approval from Kenya Forest Service before construction of dykes.
- 2.3     Since the project borders the sea, the proponent, pursuant to regulation 6 (c) of the Water Quality Regulations 2006, shall protect the riparian by ensuring that **NO** development activity is undertaken within the full width of sea to a minimum of sixty (60) meters based on the highest recorded flood levels.
- 2.4     The proponent shall ensure that no construction of any salt works facilities or structures close to the creek to prevent pollution of fish waters at the creek.
- 2.5     The proponent shall maintain a riparian reserve for the four streams on site as pegged by the Water Resource Authority and ensure that no encroachment is done throughout the project cycle.
- 2.6     The proponent shall ensure that the construction is done as per the approved drawings in adherence to the Building code 1968 and provisions of the National Construction Act, 2011.
- 2.7     The proponent shall submit design drawings of the proposed wastewater treatment plant works to the area Water Resource Authority and the County Public Health Officer for approval prior to commencement of works.
- 2.8     The proponent shall design and implement a concise traffic management plan duly approved by the County Engineer and other relevant Authorities before commencement of works.
- 2.9     The proponent shall ensure that the storm drainage channels do not directly discharge of untreated waste water and any other debris into the nearby sea.

- 2.10 The proponent shall ensure a buffer zone is maintained between the project area and the neighbouring developments to minimize any potential nuisance.
- 2.11 The proponent shall ensure access routes for the neighbouring community are developed and kept accessible.
- 2.12 The proponent shall conserve the existing rivers as it is a source of water for the local community.
- 2.13 The proponent shall regularize the utilization of the of the Mangrove are by obtaining a Special Use License from the Kenya Forest Service (KFS).
- 2.14 The proponent shall put up a project signboard as per the Ministry of Transport, Infrastructure, Housing and Urban Development standards indicating the NEMA license number among other information.
- 2.15 The proponent shall ensure that all excavated material and debris is collected, re-used and where need be disposed of as per the Environmental Management Coordination Management (Waste Management) Regulation, 2006.
- 2.16 The proponent shall ensure strict adherence to the Occupational Safety and Health Act (OSHA) 2007.
- 2.17 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.
- 2.18 The proponent shall ensure that all workers are provided with adequate personal protection equipment (PPE) as well as adequate training.
- 2.19 The proponent shall ensure that the construction activities are undertaken during the day (and not at night) between 08.00hrs and 17.00hrs; and that transportation of construction material to site are undertaken during weekdays (and not weekends) off peak hours.
- 2.20 The proponent shall ensure the project will not encroach on any way-leave and road reserves.
- 2.21 The proponent shall ensure corporate social responsibility by hiring and utilizing local resources as much as possible.
- 2.22 The proponent shall ensure that the development adheres to any specifications issued for development of such a project within the jurisdiction of the County Government of Kilifi with emphasis on approved land use for the area.
- 2.23 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 obtain authorization to drill any borehole from the Water Resource Authority before drilling and abstracting water.
- 3.2 The proponent shall obtain an effluent discharge license from NEMA for the proposed waste water treatment plant.
- 3.3 The proponent shall ensure that rain water harvesting facilities are provided to supplement surface and ground water.
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- 3.4 The proponent shall ensure that the activities do not encroach into any ecologically sensitive environment and that waste water shall not be deposited into waterways.
- 3.5 The proponent shall ensure that all waste water is disposed of as per the standards set out in the Environmental Management and Coordination (Water Quality) Regulations, 2006.
- 3.6 The proponent shall ensure that wood fuel as much as possible is not the main fuel used in the salt drying process. Alternative clean energy sources shall be explored and used. Should the proponent prefer wood fuel, then a sustainable source shall be planted and maintained by the proponent.
- 3.7 The proponent shall ensure that all drainage facilities are fitted with adequate functional oil water separators and silt traps.
- 3.8 The proponent shall constitute an Environment, Health and Safety (HSE) Committee to include members of the public, the local provincial administration and county leaders to ensure environmental and social concerns are addressed for peaceful co-existence.
- 3.9 The proponent shall ensure that appropriate and functional efficient air pollution control mechanisms are installed to control all air emissions.
- 3.10 The proponent shall ensure that all equipment used are well maintained in accordance with the Environmental Management and Coordination (Noise and Excessive Vibrations Pollution Control) Regulations of 2009.
- 3.11 The proponent shall ensure that workers are trained and adequate and appropriate Emergency Response Plans are designed and implemented during the operational phase of the project.
- 3.12 The proponent shall ensure that all solid waste is handled in accordance with the Environmental Management and Coordination (Waste Management) Regulation, 2006.
- 3.13 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 Kilifi, Ministry of Lands, Ministry of Transport, Infrastructure, Housing and Urban Development, Ministry of Health, Directorate of Occupational Safety and Health Services, Kenya Wildlife Service, Kenya Forest Service, Directorate of Occupational Health and Safety Services, Kenya Rural Roads Authority, Water Resources Authority, National Museums of Kenya and relevant Authorities.
- 3.14 The proponent shall ensure that environmental protection facilities or measures to prevent pollution and ecological deterioration such as protection of cultural sites, water resources, noise and dust abatement measures, protection and conservation of flora and fauna, waste management plan, waste water management plan, soil erosion control, community liaison and conflict resolution mechanisms as prescribed in the Environmental Management Plan 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.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 **one (1) month** in advance.

**5.0 Decommissioning Conditions**

5.1 The proponent shall convert the quarries to earth dams and ensure that they are embarked to acceptable standards while ensuring that quarried areas which will not be converted to earth dams are rehabilitated to almost their original state.

5.2 The proponent shall ensure that NEMA is actively involved during the entire decommissioning phase.

5.3 The proponent shall notify the Authority on the completion of the project and submit a close-out report on the same.

5.4 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.

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