



**nema**

mazingira yetu | uhai wetu | wajibu wetu

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

License No: **NEMA/EIA/PSL/6066**

Application Reference No: **NEMA/EIA/PSR/7555**

This is to certify that the Environmental Impact Assessment Project Report received from  
**Embu Water and Sanitation Company Limited.**

**P.O Box 2142 60100, Embu.**

submitted to the National Environment Management Authority in accordance with the  
Environmental Impact Assessment & Audit Regulations, 2003 regarding the  
**Proposed Sewerage Treatment Project.**

whose objective is to carry on

**Construction of a sewage treatment plant comprising waste stabilization ponds (2No.  
anaerobic, 2No. facultative, 2No. maturation ponds), a wetland, 2No. drying beds,  
sewer line network, fencing, staff houses and associated amenities.**

located at

**32No. Unconsolidated plots in Embu Municipality, Embu West Sub-County, Embu  
County.**

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

Issue date: **09 May, 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 construction of a sewage treatment plant comprising waste stabilization ponds (2No.anaerobic ponds, 2No.facultative ponds, 2No.maturation ponds), a wetland, 2No.drying beds, sewer line network, fencing of the site, staff houses, lockable gate and associated facilities on 32No.Unconsolidated Plots in Embu Municipality, Embu West Sub-County, Embu County at an estimated cost of KShs. 400,000,000.
- 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 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
- 1.5 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.
- 1.6 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 Co- ordination Act, Cap 387 and regulations there-under.
- 1.7 This license shall not be taken as statutory defense against charges of pollution in respect of any manner of pollution not specified herein.
- 1.8 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.
- 1.9 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.
- 1.10 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 Embu and all other relevant Authorities prior to commencement of works.
- 2.2 In the event that the project borders a river or a stream, 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 the river or stream to a minimum of six (6) metres and a maximum of 30 metres on either sides based on the highest recorded flood levels.
- 2.3 The proponent shall ensure that the construction is done as per the approved drawings in adherence to the Building code 1968, and the provisions of the National Construction Act, 2011.
- 2.4 The proponent shall submit design drawings of the proposed Effluent Discharge Control Plan (EDCP) to the Water Resources Authority (WRA), the area Water and Sewerage Service provider and the County Public Health Officer for approval prior to installation.
- 2.5 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 mechanisms (GRM) as shall be prescribed in the Resettlement Action Plan (RAP).

- 2.6 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.
- 2.7 The proponent shall ensure that the storm drainage channels do not directly discharge of untreated waste water and any other debris into the nearby stream.
- 2.8 The proponent shall put up a project signboard as per the Ministry of Transport and Infrastructure Standards indicating the NEMA licence number among other information.
- 2.9 The proponent shall ensure air pollution control measures are put in place to mitigate against dust during the construction phase.
- 2.10 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 Coordination Management (Waste Management) Regulation 2006.
- 2.11 The proponent shall ensure strict adherence to the provisions of the Environmental Management and Coordination (Noise and Excessive Vibrations Pollution Control) Regulations of 2009.
- 2.12 The proponent shall ensure strict adherence to the Occupational Safety and Health Act (OSHA), 2007.
- 2.13 The proponent shall ensure strict adherence to the provisions of the Environmental Management and Coordination (Air Quality) Regulations of 2014.
- 2.14 The proponent shall ensure that construction workers are provided with adequate personal protection equipment (PPE), sanitary facilities as well as adequate training.
- 2.15 The proponent shall ensure that construction activities are undertaken during the day (and not at night) between 0800 hrs and 1800 hrs and on Saturdays between 0800hrs and 1300hrs and shall ensure that transportation of construction material to and from the site are undertaken during weekdays and Saturdays only during the hours specified herein.
- 2.16 The proponent shall ensure the project will not encroach on any way-leave and road reserves.
- 2.17 The proponent shall ensure that the cooling systems employed are suitable alternatives with zero ozone depleting potential as per Environmental Management and Coordination (Controlled Substances) Regulations, 2007.
- 2.18 The proponent shall ensure that the development adheres to zoning specification issued for the development of such a project within the jurisdiction of the Embu County Government with emphasis on the approved land use for the area.
- 2.19 The proponent shall ensure strict adherence to the Environmental Management Plan developed throughout the project cycle.

### **3. Operational Conditions**

- 3.1 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.
- 3.2 The proponent shall obtain an effluent discharge licence from NEMA for the proposed sewage treatment plant within first year of operation.
- 3.3 The proponent shall ensure that all drainage facilities are fitted with adequate functional oil water separators and silt traps.
- 3.4 The proponent shall ensure that appropriate and functional efficient air pollution control mechanisms are installed in the facility to control all air emissions.

- 3.5 The proponent shall ensure that all equipments used are well maintained in accordance with the Environmental Management and Coordination (Noise and Excessive Vibration Pollution Control) Regulations, 2009.
- 3.6 The proponent shall ensure that all solid waste is handled in accordance with the Environmental Management and Coordination (Waste Management) Regulations, 2006.
- 3.7 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 Embu County Government, Ministry of Lands, Housing and Urban Development, Ministry of Health, Kenya Urban Roads Authority, National Construction Authority, Directorate of Occupational Health and Safety Services, Water Resources Authority, Embu Water and Sewerage Company and other relevant Authorities.
- 3.8 The proponent shall ensure that environmental protection facilities or measures to prevent pollution and ecological deterioration such as functional landscaping and tree-planting, dust control measures, traffic management plan, functional storm drainage system, solid waste management plan, waste water management plan, fire control plan, a material recovery plan, security management plan, soil erosion control and noise abatement mechanisms are designed, constructed and employed simultaneously with the proposed project.

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 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 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.
- 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.