

 **PUBLIC NOTICE**

**FEDERAL MINISTRY OF ENVIRONMENT**

**ENVIRONMENTAL IMPACT STATEMENT**

1. **Type of Project:** Petroleum Refinery
2. **Project Title:** Dangote Oil/Petroleum Refinery Project
3. **Name of Proponent:** Dangote Oil Refining Company Limited (DORC).
4. **Project Location:** The proposed site is located in the South East Quadrant (SE) of the Lekki Free Zone (LFZ) designated for petrochemical related industries. The site covers an area of 2,635 Hectares.
5. **Project Description:** Dangote Oil Refining Company Limited (DORC) intends to set up a 460,000 Barrels Per Stream Day (BPSD) (with additional margin to achieve 500,000 BPSD) grass root refinery and petrochemical complex in Dangote Industries Free zone Lekki, Nigeria. The refinery shall consist of the following major processing units:
* Crude Distillation Unit (CDU) and associated facilities.
* Mild Hydrocracking (MHC) unit.
* Residue Fluid Catalytic Cracking (RFCC) including other associated units & Propylene Recovery Unit (PRU).
* A Diesel Hydro treating unit
* A continuous catalyst regeneration unit
* Naphtha Hydrotreater (NHT)/Continuous Catalytic Reforming (CCR)/ Isomarization (Penex) Units
* Residue Fluid Catalytic Cracking Unit (RFCC)
* Gasoline Hydrodesulfurization (HDS) unit
* Alkylation unit
* Sulfur recovery unit
* Hydrogen generation facilities
* Poly propylene unit
* A crude and product handling marine terminal

Associated structures shall include: administrative buildings, guard houses, fire stations and pump stations.

The refinery is designed to process Nigerian crude mix with Nigerian OSO condensate and produce propane as product, Gasoline and Diesel products, Jet Fuel and Slurry Oil.

 It will have its own combined cycle captive power plant including Gas Turbine (GT), Heat Recovery Steam Generator (HRSG), Steam Boiler and Steam Turbo generator STG) for energy efficient operation. In compliance with global acceptable standards, restricted areas such as exclusion zones, will be enforced and enclosed for the safety of other users.

1. **Environmental Profile:** The regional climate in the Gulf of Guinea representative of the study area is influenced by two air masses, tropical continental maritime. These two air masses meet at the Inter-Tropical Convergence Zone (ITCZ) and the characteristics of weather and climate in the region are influenced by the seasonal migration of the ITC.

The project site is in the Coastal Plain Sands unit and comprises of soft, very poorly sorted clayey sand, pebbles, sandy clays and rare thin lignites which litter sparsely the study area especially at the southeastern and central part of the project site. The topography of the project site is fairly flat. Fishing is one of the major occupations of the people in the project area. The vegetation is a freshwater swamp forest or flooded forests which are inundated with freshwater either permanently in some part or seasonally in other parts.

1. **Project Alternative:**
2. Site selection: The most important factor considered in the choice of site for the refinery is, crude oil supply. The proximity of Lekki Free Zone to the new oil and gas deposits, is a vital factor that was considered in citing of the Dangote Refinery in the zone. Other factors include, availability of deep seaport, proximity to the sea, possibility of roll-on roll-off for heavy equipments and port facilities.
3. Project Option: The need for the proposed oil refinery project is premised on the fact that, Nigeria as one of the largest crude oil producers in Africa cannot continue to rely on subsidized imported fuels for meeting her domestic needs and hence private intervention is highly desired in complementing the existing four public refineries. The proposed project has the capacity to double the country’s current refining strength and pave the way for the exportation of refined petroleum products to the international markets. It will save and earn the country a lot of foreign exchange that are usually expended on the imported subsidized premium.
4. No Project Option- This option implies that the project will not be undertaken but the option was not considered because there will be no significant increase in domestic crude oil production, this will impact negatively on the nation’s economy.
5. **Associated /Potential Impacts.**

Some of the identified impacts include the following:-

 **Pre-construction/Site preparation:**

1. Loss of Biodiversity and Soil Quality during the clearing and foundation phase of the project.
2. Damage to cultural sites due to site clearing and grading activities.
3. Destruction of Vegetation (Medicinal, economic and food).
4. Loss/alteration of wildlife habitats.
5. Increase in particulate emission during site excavation, grading and offloading of construction material.
6. Loss of land use.
7. Negative impacts on natural resources.

**Construction:**

1. Destabilization of beach-dune system due to construction activities at the shore crossing.
2. Increased traffic and strain on road network
3. Solid waste generation.
4. Noise and other construction related impacts.

**Operation:**

1. Possibility of Oil Spills.
2. Increase in air temperature.
3. Positive impacts to Livelihoods.
4. Impacts on marine water quality and biodiversity as a result of routine and non-routine discharges
5. Increased financial flow.
6. Influx of job seekers into communities, thereby exerting pressure on existing infrastructures.
7. Increase in economic activities and revenue generation.
8. **Mitigation measures / Monitoring Plan**
9. All social issues regarding compensation will be adequately addressed.
10. Construction activities shall be restricted to daytime only.
11. There shall be provision of personal protective equipment (PPE) for workers during construction and operation.
12. Dangote Oil Refining Company Limited (DORC) shall ensure the use of machinery with noise levels within acceptable limits (<90dBA).
13. Construction equipment shall be fitted with silencers and muffles.
14. Protection of cultural sites.
15. Provision and Development of designated areas to allow for bioremediation of contaminated soil.
16. Provision for secondary spill containment infrastructure.
17. Creation of an Exclusion Zone, which will be continuously monitored for safety, and interactions between project vessels and other users of the area.
18. Development and full implementation of a Traffic Management Plan (TMP).
19. A detailed air quality and dispersion modeling shall be done.
20. Training of personnel in proper handling of hazardous materials.
21. Full implementation of the Environmental Management Plan (EMP) throughout the project’s lifespan.
22. Continuous consultations with relevant stakeholders throughout the project’s lifespan.
23. Liaise with Industry operators within the Lagos Free Trade Zone to establish Joint Industry Committee to address common issues.
24. Dangote oil refining company shall honour the terms of agreement in the Memorandum of Understanding (MoU) and any other subsisting agreement.
25. Impact Mitigation Monitoring (IMM) exercise, Environmental Audit (EAu), Environmental Compliance Monitoring and Environmental Management Systems (EMS) shall be instituted in line with extant laws by FMEnv in collaboration with the relevant regulatory authorities.
26. Decommissioning plan shall be implemented at the end of the project’s lifespan in line with extant Environmental Laws.
27. **Authority for Mitigation Compliance Monitoring.** Federal Ministry of Environment.
28. **Certification.**

From the Environmental Assessment of the proposed project as contained in its Environmental Impact Assessment Report, the Federal Ministry of Environment (FMEnv) in compliance with Section 41 of Environmental Impact Assessment (EIA) Act CAP E12 LFN 2004 hereby certify that Dangote Oil Refining Company Limited’s Oil/Petroleum Refinery Project has met the requirements of the Act.

**Dr. Shehu Ahmed**

Permanent Secretary

**Federal Ministry of Environment**