



SOBIRUN ENGINEERING

COMPANY PROFILE





1.0 COMPANY PROFILE

1.1 GOALS AND OBJECTIVES

The goal is to ensure that **SOBIRUN Engineering Limited** provides the best and most efficient consultancy services to its clients at all times. The staff have always been conscious of the need to establish and maintain a vibrant, highly professional, reputable (within and outside Nigeria) Engineering Consultancy firm in Nigeria and **SOBIRUN Engineering Limited** is determined to be one.

Our objectives include the improvement of Engineering practice as a profession; the maintenance of excellence in our activities; the provision of conducive atmosphere to satisfy client needs; ensuring good relationship between related professional on every project that we handled; and providing effective services at all time.

1.2 ORGANIZATIONAL STRUCTURE

SOBIRUN Engineering Limited is a registered firm of Professional Chartered Engineers and Consultants carrying out Consultancy Services in areas of Civil, Structural, Water, Environmental, Geotechnical, Transportation, Mechanical and Electrical Engineering and Project management.

In providing services to clients, **SOBIRUN Engineering Limited** draws a lot of strength not only from its professional staff but also from the services of experts from University and other tertiary institutions within and outside the country.

Our mission is to provide Consultancy services with the best human and material resources at our disposal.

The Organization is composed of highly qualified, experienced Professional Engineers. The Principal partner and the other Professional Members of Staff have between them several years of experience handling projects involving Feasibility Studies, Planning, Design, and Supervision of a wide variety of Civil Engineering works in the Country. Most of the Professional Staff are registered



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with COREN (Council for Regulation of Engineering) and other relevant professional bodies.

The experience of the Technical Staff is apt and its application is very contributory in their approach to Consultancy services. They find it easy to keep themselves up to date on any new Methodologies, Research Findings that will enhance the capability of the firm in handling various types of Consultancy Services.

The Professional Staff is completed by a team of dedicated sub-professionals, adequate laboratory facilities, appropriate instruments for Civil Engineering investigation, computer hardware and up to date software in all areas of Civil Engineering. To ensure speedy completion of design and analysis, computer methods are extensively used.

SOBIRUN Engineering Limited is organized in such a way as to operate effectively in any part of Nigeria and in other countries.

1.3 AREA OF SERVICES

Towards the achievement of its goals and objectives **SOBIRUN Engineering Limited** offers services in the following areas:

- ❖ Feasibility Studies
- ❖ Engineering Surveying
- ❖ Engineering Design and Analysis
- ❖ Preparation of Contract Documents including Bill of Quantities for Civil Engineering works and tendering
- ❖ Supervision of Construction
- ❖ Project Management Services
- ❖ Computer Modelling

The Field of Operation comprises:

- ❖ Building and Engineering Structures including Bridges, warehouses, water structures .



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- ❖ Highways, Airports, Township Roads, Traffic Studies.
- ❖ Water Resources Engineering: domestic water supply schemes (rural, semi-urban, urban), Irrigation Schemes, Surface and Groundwater development, land drainage and flood control, hydraulic structures, hydraulic and hydrological studies.
- ❖ Environmental Engineering: Sewage and Storm water Collection and Disposal, Water and Wastewater Treatment Schemes, Water, Land and Air Pollution Control, small water supply and wastewater schemes.
- ❖ Geotechnical Engineering: Dams, Soil Engineering for Highways, Retaining walls, Soil investigation.

1.4 SPECIALIZATION

SOBIRUN Engineering Limited has considerable capable hands in the following areas of Civil Engineering:

(a) Water Resources Engineering

SOBIRUN Engineering Limited offer a wide range of Consultancy Services in Water Resources Engineering. These include detailed Feasibility Studies, Engineering Design and post contract services of water resources schemes such as irrigation, inter-basin water transfer, water supply, flood control, river training . SOBIRUN Engineering Limited has several years of experience in the use of many meteorological, hydrological and hydraulic modeling techniques. The Consultancy Services also cover developing the water resources master plan for a River Basin Development Authority or State Water Board/Corporation.

(b) Environmental Engineering

SOBIRUN Engineering Limited has highly skilled professional staff capable of undertaking all sort of consultancy services in Environmental Engineering. It undertakes consultancies in planning and feasibility studies, design and post contract supervision of rural, semi-urban, urban and regional water supply schemes. SOBIRUN Engineering Limited offers consultancy services for design



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and post contract supervision of sewage and storm water collection, treatment and disposal schemes for small communities and cities of all sizes and shapes.

The Company also offers consultancy services in upgrading and improving the performance of existing municipal water and wastewater treatment plants.

Consultancy services are also offered in water; land and air pollution control measures starting from the preliminary pollution studies to analysis, selection and design of appropriate methods. Areas of consultancy services include Environmental Impact Assessment and Environmental Audit.

SOBIRUN Engineering Limited pays particular attention to appropriate technology community participation, minimum cost and sustainability in proffering solution to the various Environmental problems.

SOBIRUN Engineering Limited has adapted software packages for various water resources and Environmental Engineering Schemes.

SOBIRUN Engineering Limited is very experienced in carrying out of environmental impact assessment, environmental audit and preparation of environmental impact report on any development project.

(c) **Structural Engineering**

SOBIRUN Engineering Limited acts as consultants for design and analysis of structural aspects in building of all kinds, various types of bridges and hydraulic structures. To ensure speedy completion of design and analysis, extensive use of computer facilities are adopted. For post contract supervision and services, SOBIRUN Engineering Limited ensures adequate arrangement for close supervision of contractors, enhanced capability for quick analysis of any structural problems for modification that may arise and their solution and for design undertaken immediately.

(d) **Geotechnical & Foundation Engineering**



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SOBIRUN Engineering Limited offers consultancy services for soil investigation studies for Engineering design of structures such as high rise buildings, highways, Dams, Earth retaining walls and other super structures.

SOBIRUN Engineering Limited is complimented with a fully equipped laboratory facilities and field equipments for extensive soil investigation.

(e) **Highway and Traffic Engineering**

SOBIRUN Engineering Limited offers Consultancy Services in Highways Planning, Economics of Road Improvement, Geometric Design, Pavement Design, Traffic studies and management. Other area of transportation includes Airport Design, Permanent Way (Railways) Design, Seaport Design . It also offers Consultancy Services for Physical Surveys, Design, and Post Contract Supervision of various types of highways and their facilities and urban road network. SOBIRUN Engineering Limited undertake Urban Transportation system studies for the purpose of solving existing transportation problems and planning for the future.

(f) **Project Management**

SOBIRUN Engineering Limited offers Project Management Services for large scale projects such as University Campus Developments, Industrial Complexes, Housing Estates, and New Townships .



2.0 CONTACT ADDRESS

SOBIRUN ENGINEERING LTD.

5, Tunji Oluwole Street,
Off Fola Agoro, Yaba,
Lagos State, Nigeria.

Telephone : 08034051261

Email Address : saraji@sobirun.com; info@sobirun.com; sobirunengineering@gmail.com

Website: www.sobirun.com

3.0 SOME MAJOR PROJECTS HANDLED

I. ENVIRONMENTAL/WATER SUPPLY (RURAL AND URBAN)

1. WATER SUPPLY SCHEME AT OKU LAKE

Client: Federal Ministry Solid Minerals
Year: 1995/96
Cost: ₦4.5 million
Scope: The project involves the pumping of water from Oku-lake to the salt mining site.

2. FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA PERMANENT SITE WATER SUPPLY SCHEME

Client: Petroleum (Special) Trust Fund
Year: 1997
Type of Project: Design of the main campus water supply scheme (Phase)
Project Cost: ₦36 million (estimated project cost)
Scope: The project involves the development of a number of boreholes and the water distribution network. This constitutes the first phase of the comprehensive water supply scheme to the University main campus.

3. NATIONAL WATER REHABILITATION PROJECT



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Client: Federal Ministry of Water Resources and Rural Development

Kwara State Water Corporation

Year: 1999

Type of Project: Institutional Development, Technical Consultancy

Project Cost: ₦50 million (estimated project cost)

Scope: The project involves customer enumeration, mapping, distribution network analysis, water audit/tariff and operation and maintenance improvement for major towns in Kwara State (Ilorin, Offa, Omu-aran, Oro and Bacita).

4. UNIVERSITY OF UYO, UYO

Client: Education Tax Fund and University of Uyo

Year: 1999

Type of Project: Design of the water supply schemes

Project Cost: ₦25 million (estimated project cost)

Scope: The project involves sinking of 3No boreholes (m deep), design of the water distribution network and ground level and elevated steel tanks.

5. PRELIMINARY STUDIES AND FINAL DESIGN OF THE WATER SUPPLY SCHEME FOR UNIVERSITY OF ABUJA PERMANENT SITE

Client: University of Abuja,

Year: 2001

Project Cost: ₦601 million (estimated project cost)

Scope: Preliminary studies to determine the appropriate water supply source and subsequently design the water supply scheme.

6. SUPERVISION OF THE CONSTRUCTION WORKS FOR UNIVERSITY OF ABUJA PERMANENT SITE WATER SUPPLY SCHEME

Client: Federal Capital Territory Water Board, Abuja



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Year: 2005

Project Cost: ₦354 million (estimated project cost)

Scope: Supervision for the construction of Reinforced Concrete Tank, Ground and Elevated Steel Tanks, Booster Station, Electro-mechanical Works, Borehole Drilling and Water Distribution Network.



7. PRE-CONTRACT CONSULTANCY SERVICES FOR ASA WATER TREATMENT PLANT, ILORIN

Client: Lower Niger River Basin Development Authority,
Ilorin, Nigeria

Year: 2001

Project Cost: ₦1.17 billion (estimated project cost)

Scope: Pre-qualifying contractors, site investigation, preparation of tender documents, design review, analysis of tender documents.

8. UNDERGROUND WATER INVESTIGATION AND SUPERVISION OF BOREHOLE DRILLING IN KWARA STATE

Client: Lower Niger River Basin Development Authority,
Ilorin, Nigeria

Year: 2001

Project Cost: ₦56 million (estimated project cost)

Scope: Geophysical investigation for 14No. borehole locations, water inventory, supervision of the borehole drilling and borehole pumping test.

9. FEDERAL RURAL WATER SUPPLY PROGRAMME IN KWARA AND KOGI STATES

Client: Federal Ministry of Water Resources

Year: 2005 to date

Project Cost: ₦320 million

Scope: The project involves supervision of geophysical investigation, boreholes construction, construction of overhead tanks, construction of generator house and operator's room.



10. CONTRACT SUPERVISION FOR ASA WATER TREATMENT PLANT, ILORIN

Client: Federal Ministry of Water Resources, Abuja
Year: 2005
Project Cost: ₦1.17 billion
Scope: Design review of the proposed treatment plant, review of contract documents, supervision of construction work of the treatment plant and training of counterpart staff.

11. ANALYSIS AND DESIGN OF EXPANDED DISTRIBUTION NETWORK FOR ILORIN TOWNSHIP WATER SUPPLY SCHEME

Client: Federal Ministry of Water Resources, Abuja
Year: 2005
Project Cost: ₦37 million
Scope: Design of water distribution network, and preparation of bid document for the water distribution network (i.e. design, drawings, specifications, bill of quantities).



II. GEOTECHNICAL/DAMS/IRRIGATION

1. TADA-SHONGA IRRIGATION SCHEME

Client: Lower Niger Basin & Rural Development, Ilorin
Year: 1996
Type of Project: Appraisal Study and Design Review
Project Cost: ₦650 million (estimated project cost)
Scope: The project involves developing the irrigation scheme for rice plantation in Tada-Shonga, Edu LG, Kwara State. The sore plantation is about 2800 ha together with about 2000 ha for small holder farmers.

2. UNIVERSITY OF ILORIN, WATER SUPPLY SCHEME

Client: Petroleum (Special) Trust Fund
Year: 1997
Type of Project: Design of the Dam and water Treatment Plant
Project Cost: ₦107 Million (estimated project cost)
Scope: The project is to develop the water supply scheme for the University of Ilorin, which has been experiencing serious water shortages due to the University, reliance solely on the municipal water supply. The scheme involves a concrete dam (length 155m, height 7.7m) and intake structures on river Oyun within the campus and a water treatment plant of the size 100m³/hr but expandable.

3. FEDERAL CAPITAL TERRITORY ABUJA WATER SUPPLY SCHEME

Client: Federal Capital Development Authority, Abuja
Year: 1997
Type of Project: Kuje water supply scheme
Project Cost: ₦2.5 billion (estimated project cost)
Scope: Planning and Design of Kuje Dam



4. FEASIBILITY STUDIES FOR MISAU DAM AND IRRIGATION SCHEME IN BAUCHI STATE

Client: Bauchi State Government
Year: 2004
Project Cost: ₦9.06 billion (estimated project cost)
Scope: Geological/Geotechnical Investigation, Hydrological/ Meteorological Studies, Soil and agriculture studies, Land Surveying, Soil study, Selection of appropriate dam site, preliminary design of the Dam and Irrigation Scheme, Preparation of Bill of Quantity, Environmental Impact Assessment and Economic viability analysis of the project.

5. FEASIBILITY STUDIES FOR GULKA DAM AND IRRIGATION SCHEME IN BAUCHI STATE

Client: Bauchi State Government
Year: 2004
Project Cost: ₦3.78 billion (estimated project cost)
Scope: Geological/ Geotechnical Investigation, Hydrological/ meteorological studies, Soil and agriculture studies, Land surveying, selection of appropriate dam site, preliminary design of the dam and irrigation, Preparation of Bill of Quantity, Environmental Impact Assessment and Economic viability analysis of the project.

6. FEASIBILITY STUDIES FOR BOTO DAM AND IRRIGATION SCHEME IN BAUCHI STATE

Client: Bauchi State Government
Year: 2004



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Project Cost: ₦5.59 billion (estimated project cost)

Scope: Geological/ Geotechnical Investigation, Hydrological/ meteorological studies, Soil and agriculture studies, Land surveying, selection of appropriate dam site, Preliminary design of the dam and irrigation, Preparation of Bill of Quantity, Environmental Impact Assessment and Economic viability analysis of the project.

7. FEASIBILITY STUDIES FOR TILDEN FULANI DAM AND IRRIGATION SCHEME IN BAUCHI STATE.

Client: Bauchi State Government

Year: 2004

Project Cost: ₦6.82 billion (estimated project cost)

Scope: Geological/ Geotechnical Investigation, Hydrological/ meteorological studies, Soil and agriculture studies, Land surveying, selection of appropriate dam site, preliminary design of the dam and irrigation scheme, Preparation of Bill of Quantity, Environmental Impact Assessment and Economic viability analysis of the project.

8. UPDATING OF FEASIBILITY STUDIES FOR DINDIMA DAM, IRRIGATION, WATER SUPPLY AND HYDROELECTRIC POWER GENERATION SCHEME IN BAUCHI STATE.

Client: Bauchi State Government

Year: 2004

Project Cost: ₦21 billion (estimated project cost)

Scope: Updating of geological/geotechnical studies, hydrological/ meteorological studies, Soil and agriculture studies, review of the preliminary design of the Dam, irrigation, water supply and hydroelectric power generation, preparation of



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new Bill of Quantity, Environmental Impact Assessment and Economic viability analysis.

9. UPDATING OF FEASIBILITY STUDIES FOR BAGEL TO ZUNGUR DAM AND IRRIGATION SCHEME IN BAUCHI STATE

Client: Bauchi State Government

Year: 2004

Project Cost: ₦8.84 billion (estimated project cost)

Scope: Updating of geological/geotechnical studies, hydrological/meteorological studies, Soil and agriculture studies, review of the preliminary design of the dam, irrigation and associated structures, preparation of Bill of Quantity, Environmental Impact Assessment and Economic Viability analysis.

10. UPDATING OF FEASIBILITY STUDIES FOR KATINI DAM AND IRRIGATION SCHEME

Client: Bauchi State Government

Year: 2004

Project Cost: ₦3.90 billion (estimated project cost).

Scope: Updating of geological/geotechnical studies, hydrological/meteorological studies, soil and agriculture studies, review of the preliminary design of the dam, irrigation and associated structures, preparation of Bill of Quantity, Environmental Impact Assessment and Economic Viability analysis.



III. ENVIRONMENTAL/WASTEWATER/SOLID WASTE

1. DEVELOPMENT OF NASCO TOWN IN LAGOS

- Client:** NASCO PLC
- Year:** 2000
- Type of Project:** Development of a new township for industrial and commercial purpose
- Project Cost:** ₦1.00 billion (estimated project cost)
- Scope:** Design of the water scheme (bore-hole, water treatment plant, water distribution network, ground level and elevated concrete and steel tanks), wastewater scheme (sanitary sewers, wastewater treatment plant, and disposal schemes), solid waste (collection, sanitary land fill and incinerators).

2. DESIGN OF THE INTEGRATED SOLID WASTE MANAGEMENT FACILITIES FOR ILORIN

- Client:** Federal Ministry of Environment, Abuja
- Year:** 2001
- Project Cost:** ₦1.84 billion (estimated project cost)
- Scope:** The project involves the study of solid waste generation leading to the design of the integrated solid waste management facilities such as Sanitary Landfill, Incinerator and waste composting facility.

3. DESIGN OF THE WASTEWATER TREATMENT PLANT FACILITY FOR INDUSTRIAL EFFLUENT WASTES FOR KADUNA METROPOLIS

- Client:** Federal Ministry of Environment, Abuja
- Year:** 2001
- Project Cost:** ₦3.06 billion (estimated project cost)
- Scope:** Design of the appropriate wastewater treatment facilities for the Industrial effluent wastes for Kaduna.



IV. ENVIRONMENTAL/ECOLOGICAL

1. PATEGI EROSION CONTROL PROJECT

Client: Niger River Basin Development Authority, Minna.

Year: 1988-89

Type of Project: Feasibility Study and Detailed Design

Project Cost: ₦4 million

Scope: The project covered investigation of the causes of gully erosion in Pategi, Kwara State. The study involved the collection of storm data and laboratory tests on soil samples from gully sites. Topographic leveling was also carried out to determine the general scope of the area. There need to analyze rainfall intensity to obtain storm run off and overland flows. The erosion control measure suggested consisted of drainage channels drop structure, earth filling, grassing, .

2. GALTIMARI EROSION/FLOOD CONTROL IN BORNO STATE

Client: Ecological Fund Office Abuja

Year: 2000

Type of Project: Design and Supervision of erosion control measures

Project Cost: ₦78 million (estimated project cost)

Scope: The project involves surveying of the erosion gully, design of the control measures, quantification of the work and the supervision of the construction work.

3. SAMBISSA FLOOD CONTROL IN BORNO STATE

Client: Ecological Fund office Abuja

Year: 2000

Type of Project: Flood control in Sambissa swamp

Project Cost: ₦54 million (estimated project cost)

Scope: The Project involves rehabilitation of earth embankment, stilling basin, spillway, wing wall, and gated culverts.



V. STRUCTURES/BUILDINGS

1. NSA HEADQUARTERS, PRESIDENCY, ABUJA

Client: NSA
Year: 1995
Type of Project: Office building
Scope: It involves design, and supervision of the building.

**2. UNIVERSITY OF JOS, PLATEAU STATE
WATER SERVICE RESERVOIR**

Client: Petroleum (Special) Trust Fund
Year: 1997
Type of Project: Design of a reinforced concrete under-ground tank
Project Cost: ₦15 million (estimated project cost)
Scope: The Project involves the design and supervision of the construction of the reinforced concrete tank of dimension 30m x 15m.

3. UNIVERSITY OF ABUJA, LECTURE THEATRE

Client: Petroleum (Special) Trust Fund
Year: 1997
Type of Project: Structural Design
Project Cost: ₦14.2 million (estimated project cost)
Scope: The project involves the design and supervision of the construction of the building.

**4. UNIVERSITY OF AGRICULTURE, MAKURDI, BENUE STATE
STAFF OFFICES**

Client: Petroleum (Special) Trust Fund
Year: 1997
Type of Project: Structural Design



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Project Cost: ₦12 million (estimated project cost)

Scope: The project involves the design and supervision of the construction of the structures of the building.

5. REHABILITATION OF INTERNATIONAL TRADE FAIR COMPLEX

Client: Federal Ministry of Commerce

Year: 2000

Type of Project: Rehabilitation of Building and Infrastructures (water, wastewater and roads.

Project Cost: ₦400 million (estimated project cost)

Scope: Condition Survey of the buildings, boreholes, wastewater systems, estimating the cost rehabilitation and supervision.

6. UNIVERSITY OF ILORIN, LECTURE THEATRE

Client: University of Ilorin

Year: 2005

Type of Project: Structural Design and Supervision

Project Cost: Not yet estimated

Scope: The project involves the design and supervision of the construction of the building.



VI. GEOTECHNICAL/ROADS

1. **REHABILITATION OF KEANA-KASEYO ROAD IN BENNUE/NASARAWA STATE**

Client: Federal Ministry of Solid Minerals
Year: 1995/96
Project Cost: ₦5 million
Scope: The project involved general grading of the road, provision of side drainages and culverts.

2. **UNIVERSITY OF AGRICULTURE, MAKURDI, BENUE STATE INNER RING ROAD**

Client: Petroleum (Special) Trust Fund
Year: 1997
Type of Project: Design of the road
Project Cost: ₦11.2 million (estimated project cost)
Scope: The project involves the design and supervision of the construction of the road.

3. **DESIGN OF LOKOJA (FELELE) – AGBAJA ROAD EROSION CONTROL**

Client: Federal Ministry of Special Duties, Ecology Fund Office, Presidency, Abuja
Year: 2001
Project Cost: ₦269 million (estimated project cost)
Scope: Design of road, drainage facilities and supervision

4. **ENGINEERING SUPERVISION FOR THE DUALIZATION OF SAPELE-EWU ROAD SECTION I: SAPELE-AGBOR IN DELTA STATE**

Client: Federal Ministry of Works and Housing, Abuja
Year: 2019
Project Cost: ₦64.88 Billion (estimated project cost)



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Scope: Dualization of the existing Sapele-Agbor single Carriageway of total length of 110.63km.