





SPECIALIZED IN ELECTRICAL AND MECHANICAL CONTRACTING

DIVERSIFIED BUSINESS EXPERIENCE

IN-HOUSE MEP COMMITTEE TO INTERNALLY INNOVATE ENGINEERING SOLUTIONS

Our Mission

To be a leader in Electro-Mechanical works in the global market.

To become the customers' most preferred choice by attaining excellence in quality and timely completed value added projects.

To continually innovate, develop and adopt state-of-the-art technology in methods and materials to enhance productivity and cost effectiveness.

Our Vision

To be the top-most leading Company renowned for Excellence, Quality, Performance and Reliability in Electro-Mechanical works in the market.

COMMITMENT TO QUALITY

QUALITY POLICY

- Metrix is committed to meeting Customer Requirements through continual improvement of its Quality Management System.
- MEP shall sustain Organizational Excellence through visionary leadership and innovative efforts

QUALITY ASSURANCE

The Company has a Quality Management System which complies with:

- All contractual obligations, Client's Specifications and Industry standards.
- All Statutory Regulations and Codes of Practice.
- Providing and Maintaining good & Clean environment and safe Workplace.
- Maintaining high level of performance and professionalism by imparting training as well as providing adequate resources.
- Continual improvement in the methods of working

PROJECT TYPES OF FOCUS

TRANSPORTATION

Airports
Roads
Tunnels and Railway Systems
Ports

HEALTH FACILITIES

Hospitals
Laboratories
Pharma industries

TECHNOLOGICAL BUILDINGS

Data Centers

COMMERCIAL BUILDINGS

Business Centers
Shopping Malls

Hotels
Educational and cultural Buildings
Sport Facilities
Industrial Facilities



SCOPE OF WORKS

ELECTRICAL WORKS

- Substations & Plant Works
- Medium Voltage (MV) Systems
- Low Voltage (LV) Systems
- Airport Special Systems (Apron Floodlighting, FIDS, DGS, etc.)
- Grounding (Earthing)
- Lightning Protection
- Fire Alarm Systems
- Extra Low Voltage Systems:
 - Data & Phone
 - CCTV & Security Systems
 - PA System
 - AV Systems
 - MATV-SMATV Systems
 - Building Management systems
- Data centers:
 - Tiers 1, 2, 3, 4
 - Structured cabling
 - Power systems
 - Cooling systems
 - Security systems
 - Environmental monitoring systems

MECHANICAL SYSTEMS

- Air Conditioning and Ventilation System
- Heating and Cooling Water Generation & Distribution
- Steam System
- Superheated Water System
- Plumbing
- Irrigation Systems
- Storm Water
- Compressed Air System
- Natural Gas System
- Medical Gas Systems
- LPG System
- Fire Protection Systems
- Kitchen hood and Exhaust Systems
- Facility Management Systems

RENEWABLES & ENERGY STORAGE

- Renewable Energy:
 - Ground Source Heat Pump
 - Solar Photovoltaic
 - Solar Thermal
 - Waste to energy
 - Wind
- Storage:
 - Energy Storage / Batteries
 - Microgrids
 - Thermal Energy Storage

SERVICES

- Building Information Modeling (BIM)
- Energy and Environmental Management
- Engineering:
 - HVAC Systems
 - Electrical Systems
 - Drainage & Sanitary
 - Plumbing Services
 - Fire Fighting
 - Smoke Management Systems
 - Building Management Systems
 - Lighting Lux & Load Calculations
 - Extra Low Voltage Systems
 - GAS Systems
 - Renewable Energy & Storage systems

FACILITY MANAGEMENT

- Operation and Maintenance
- Preventive and predictive maintenance
- Testing (electrical systems)
- Utility monitoring



MEP CONTRACTING PROCESS

HUMAN RESOURCES

Setting up the organisation structure
Preparation of the project's duty matrix with RASCI method
Training organisation in line with the distribution of the duties

ENGINEERING WORKS

Design review
Calculations
BIM Modeling & Clash Resolution
Material Submissions
Method Statements

PROCUREMENT & LOGISTICS

Material Take-off
Purchase Orders
Material Delivery
Storage & on site transport

PLANNING & COST CONTROL

Time Schedule
Labor Time Keeping
Progress Monitoring
Cost Monitoring
Change Management

CONSTRUCTION

Mounting
Site Mobilization
Installation Supervision
Resource Distribution
Interfacing with others
Protection of the works

QA/QC & HSE MONITORING

Material Inspections
Installation Inspection
Progress Documentation
Safety Inspection & Records

TESTING, COMMISSIONING & HANDOVER

Factory Acceptance tests (FAT)
Site Acceptance Tests (SAT)
As Built Drawing
Operation & Maintenance Manuals
Project Handover Document



PROJECT MANAGEMENT

DESIGN

Process knowledge and complex system interaction control

Detailed knowledge of plant and keys technology use

Start-up and test run

ENGINEERING

Spare parts stocks and service management

Short reaction time in case of plant malfunction

Maintenance and schedules

Plant optimization

Operations

Applies in IWP project ONLY
Varies from one contract to others.

PROCUREMENT

*Design and planning of projects/plans

*Detailed design of mechanical and electrical component

*Civil guide layout and general arrangement drawing

CONSTRUCTION

*Determination of all key component by:

*Technical specification

*Interface definition and management

*Supplier evaluation

*Documentation

COMMISSIONING

*Mainly party manufacturing

*Manufacturing inspection

*Long-term relationship with keys

*Own process and product knowledge

OPERATIONS & MAINTENANCE

Lead engineering function construction

Erection of electromechanical

Control of key plant construction milestone

Knowledge of local market and Reliable constructions partners

Other constructions activities such as civil works



REGULATION AND CODES

METRIX designs are in accordance with the following standards, codes and regulations:
ASHRAE American Society of Heating, Refrigeration and Air Conditioning Engineers
SMACNA Sheet Metal and Air Conditioning Contractors National Associates
NFPA National Fire Protection Association
National Plumbing Code
EN, BS, DIN, NF, IEC, IEE, ... European norms and standard
ICC International Codes Council
LEED standards and methods

TECHNOLOGICAL TOOLS DESIGN

Etap
14 Power System Design & Analysis and Earthing Calculations
Caneco BT-International Electrical Design Software 5.3
Siemens-Simaris Design Professional 9.0
Schneider Electric-ecodial Advance Calculation 4.8 Int
Dialux Lighting Building Calculation
Carrier E20-II H.A.P
Trace700
Pipe Stress Analysis
Trane Acoustics Program (TAP)

DRAWING

AutoCADLT / AutoCAD-MEP / Revit/ NavisworksManage

PLANNING

P6 Professional
Microsoft Project Professional 2013

BIM360

Increased Site-Design collaboration
Speeding up the communication between the site and design teams
Enabling the design teams in different locations to work on the same model at the same time
Eliminating data loss
Recording the coordination issues





info@metrixnigeria.com
TEL. 00234901111112

PLOT 323 AKIN OGUNLEWE STREET
VICTORIA ISLAND LAGOS
LAGOS. NIGERIA