



MEDAAN
ENGINEERING SERVICES
Experience . Precision . Excellence



**Renewable
Energy
& Solar
Solutions
Company**

MEDAAN ENGINEERING SERVICES LIMITED



Aurora Solar Solution And Battery Nigeria LTD



OUR VISION
To engineer a better world by delivering sustainable, efficient and responsible solutions that drive long-term value for communities, industries and the planet.



OUR MISSION
To enable organizations to achieve sustainable growth while contributing positively to the environment. We combine technical excellence with innovative partnership and a strong commitment to build...

TECHNICAL CONSULTANT





MEDAAN SOLAR SOLUTIONS CENTRE

■ Experience ■ Precision ■ Excellence

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www.medaanengineeringservices.com



sales@medaanengineeringservices.com



COMPANY PROFILE





Introduction

At Medaan we provide end-to-end solar energy solutions for residential, commercial, and industrial clients across West Africa


Whether you're looking to reduce your electricity bills, eliminate generator dependency, or power an off-grid facility, our expert team will deliver a customized solar system tailored to your needs.



Our Vision

To engineer a better world by delivering sustainable, efficient, and responsible solutions that drive long-term value for communities, industries and the planet.

ELECTRICAL
SOLAR PANEL CHARGING
 With 18%-20% high efficiency conversion rate, Which can also be charged in low light environment, Smart charging during the day smart lights at night.



5 Megapixel

INDICATOR LIGHT DESCRIPTION


- Blue light flash regularly: charging
- Blue light constant lighting: fully charged
- Red color constant lighting: sensor mode
- Green light flash irregularly: no network
- Green light constant light: real time view on app

4+ GRADE LITHIUM IRON PHOSPHATE BATTERY

Solar panel should be installed towards sunshine. And could not be covered by trees or buildings.



LiFePO4 Battery Pack
YF-LFP Series



Features

- Balance Function
- Overcharge Protection
- Low Voltage Protection
- Temperature Protection
- Short Circuit Protection
- Overcurrent Protection

Datasheet

Model	YF-LFP-128200	YF-LFP-256200	YF-LFP-128314
Battery Type	LiFePO4		
Nominal Energy	2.56kWh	2.56kWh	48Wh
Nominal Capacity	200Ah	100Ah	314Ah
Nominal Voltage	12.8V	25.6V	12.8V
Operating Voltage	11.2-14 V	22.4-28 V	11.2-14 V
Recommend Charge/Discharge current	30A		30A
Max. continuous charge/Discharge current	30A		200A
Depth of discharge(DOD)	90%		
Protection Level	IP65		
Series And parallel Numbers	Max. 4 series&4 parallel/Max. 2 series&2 parallel/Max. 4 series&4 parallel The voltage needs to be consistent, the error between cells<0.5V		
Working Temperature Range(Charge)	0°C ~ +55°C		
Working Temperature Range(Discharge)	-10°C ~ +55°C		
Storage Temperature Range(One Month)	-10°C ~ +45°C		
Storage Temperature Range(One Month)	-10°C ~ +35°C		
Altitude	$\leq 2000m$		
Cycle Life(@25°C)	16000 Cycles		18000 Cycles
Protection	Built-in smart BMS		
Warranty Period	Ten years@0.5C charge/Discharge @25°C, 80% DOD		
Product Dimension	522*218*240mm		383*267*204mm
Product Weight Approximate	21.3kg		25.3kg

*Test conditions: 0.5C charge/Discharge, @25°C, 80% DOD, product specifications are subject to change without prior notice.
 www.yufai-aurora.com / www.aurorabattery.com

Our Mission

Our mission is to enable organizations to achieve sustainable growth while contributing positively to the environment.

We combine technical excellence, collaborative partnerships, and a deep commitment to integrity and safety to build a better, smarter world.



Our Core Values

1. Sustainability

We prioritize solutions that protect and preserve our environment, supporting long-term ecological, social, and economic well-being.

2. Integrity

We act with honesty, transparency, and accountability in everything we do—earning the trust of our partners, clients, and communities.

3. Innovation

We embrace creativity and forward-thinking to develop smarter, more efficient, and future-ready solutions.

4. Collaboration

We believe in the power of partnerships—working closely with clients, communities, and colleagues to achieve shared success.

5. Excellence

We deliver high-quality results through technical expertise, continuous improvement, and attention to detail.

6. Safety

We are committed to the highest standards of safety—for our people, our partners, and the environments in which we operate.

7. Responsibility

We take ownership of our impact, striving to make decisions that are ethically sound and socially responsible.





How Solar Energy Works

Harnessing the Power of the Sun

- 1 Solar panels capture sunlight and convert it into electricity
- 2 This electricity powers homes and businesses efficiently
- 3 Excess energy can be stored in batteries or fed into the grid



Our Products & Solar Solutions



1 Solar Panel Installation

- ✓ Residential commercial solar
- ✓ Rooftop & ground mounted installations
- ✓ Solar panel sizing & customized designs



2 Hybrid Inverter Installation

- ✓ Long-lasting, maintenance-free options
- ✓ Integrated with hybrid systems
- ✓ Power all essentials and household equipments



3 Battery Backup Systems

- ✓ 1KVA to 15KVA inverter Solutions
20KVA to 25KVA Inverter Solutions
- ✓ Wall Mounted Lithium Battery
5KWh to 20KWh
- ✓ Stackable Lithium Battery
10KW to 30KWh
- ✓ Rack Mounted Lithium Battery
5KWh to 15KWh
- ✓ Commercial Battery Storage System
100KWh to 200Kwh Solutions.



Brand : Tier One Global OEM's.

4 Solar Energy Consultation & Custom Design

- ✓ Site Audit and Inspection
Analysis all over Nigeria
- ✓ Detailed energy audit
and ROI analysis
- ✓ Custom load calculations
& system planning



Energy Saving Equipments



KOOLBOKS - PROJECT 123



200L



208L



195L



600L



750L



ENERGY CONDITIONING MONITORING EQUIPMENTS



AVRs AND UPS SYSTEMS



SOLAR CARPORT MOUNTING SYSTEM



SOLAR FARMLAND MOUNTING SYSTEM





Benefits of Solar Energy

Environmental Benefits

- ✓ Clean and renewable: Solar energy doesn't release harmful greenhouse gases or pollutants.
- ✓ Reduces carbon footprint: Helps combat climate change by lowering reliance on fossil fuels.

Energy Independence

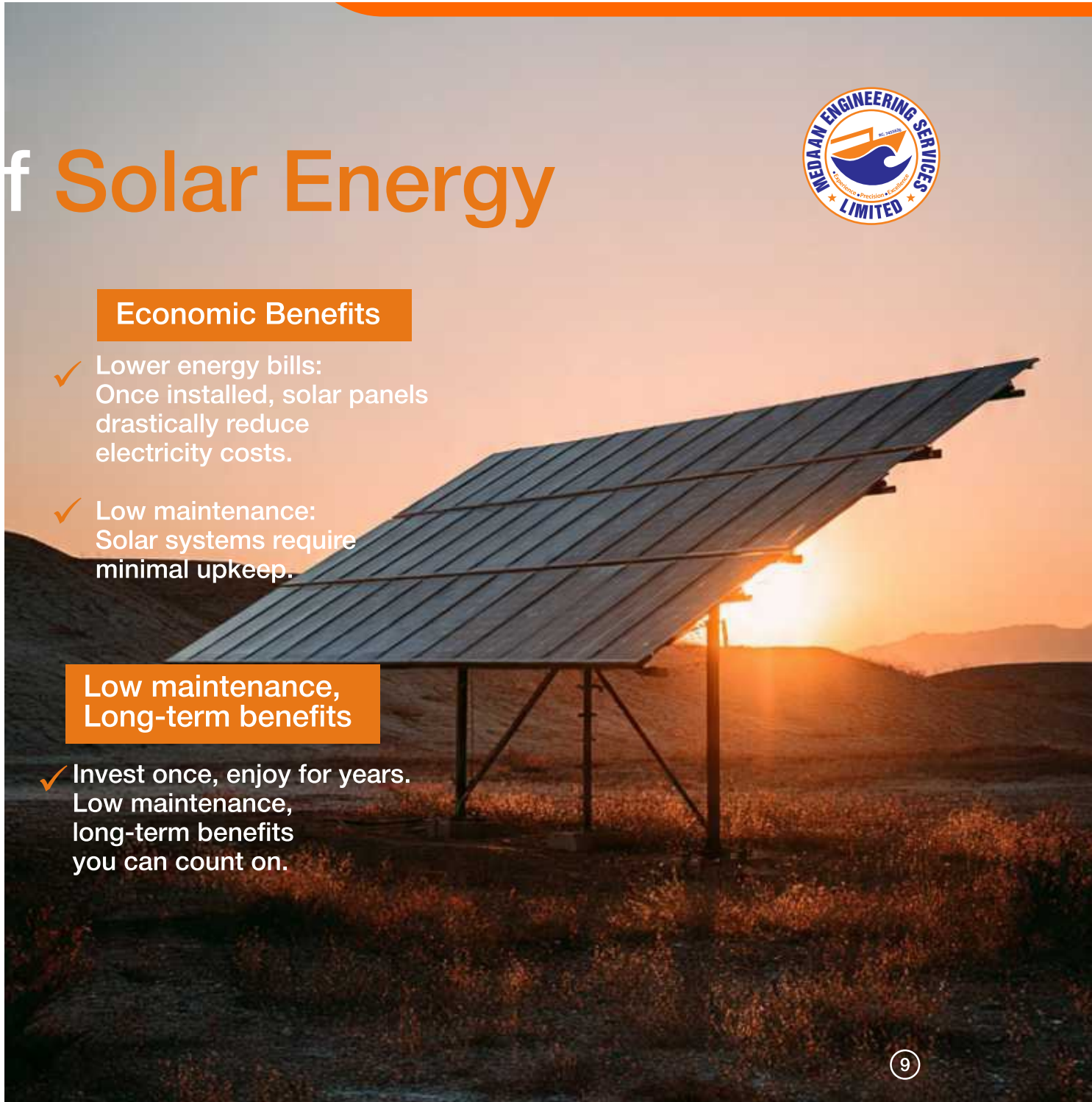
- ✓ Reduces reliance on the grid: Households and businesses can generate their own electricity.
- ✓ Energy security: Less vulnerable to fuel shortages and price fluctuations.

Economic Benefits

- ✓ Lower energy bills: Once installed, solar panels drastically reduce electricity costs.
- ✓ Low maintenance: Solar systems require minimal upkeep.

Low maintenance, Long-term benefits

- ✓ Invest once, enjoy for years. Low maintenance, long-term benefits you can count on.



Who We Serve

- ✓ Factory & Industries (Large Scale Solar Farm)
- ✓ Residential (Urban & Off Grid)
- ✓ Telecommunication companies
- ✓ Business & Offices
- ✓ Schools & Clinics
- ✓ Farm & Manufacturing Plants
- ✓ Religious Institutions
- ✓ Hotels & Restaurants





Environmental Impact

Clean Energy, Lower
Carbon Footprint

- ✓ Cuts CO₂ emissions by replacing foss
- ✓ Reduces dependence on non-renewable
- ✓ Contributes to a cleaner planet

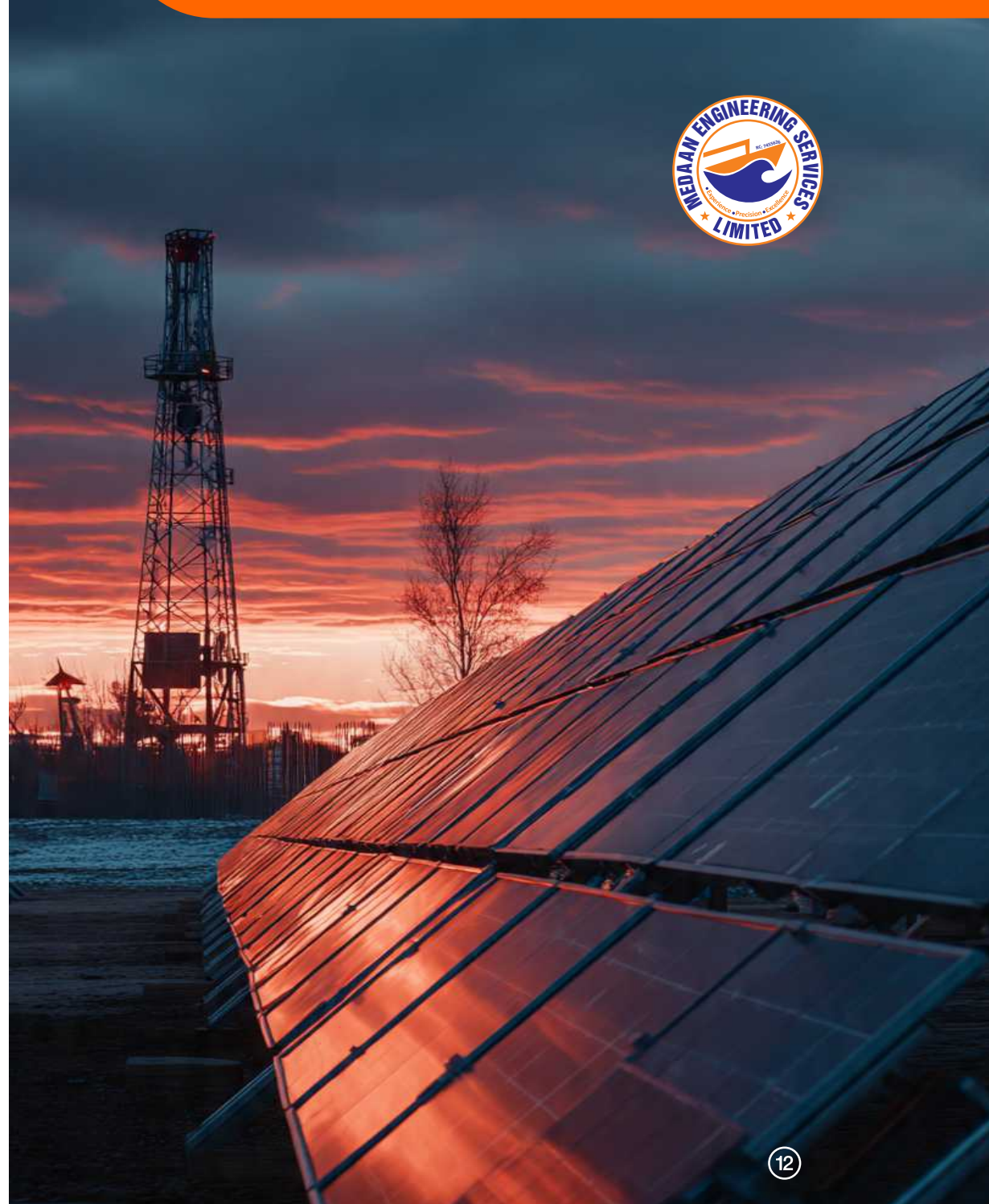


Future of Solar Energy

At Medaan Engineering Services, the future can be shaped by leaning into strengths and addressing challenges.

Some Strategic Pillars:

- ✓ Emphasize high-quality installations, strong after-sales services.
- ✓ Ensure systems are properly sized; invest in training technicians.
- ✓ Use monitoring tools to track performance, catch and fix issues early.
- ✓ Residential, commercial, industrial systems.
- ✓ Hybrid systems (solar + battery + generator backup).
- ✓ Solar water heating, solar street lighting, solar pumps for agriculture.
- ✓ Focus on underserved areas where grid access is unreliable or nonexistent.



Medaan Engineering Services Limited

COMPLETED PROJECTS

To engineer a better world by delivering sustainable, efficient, and responsible solutions that drive long-term value for communities, industries and the planet



www.medaanengineeringservices.com



Project Title: Installation and Commissioning of 12kA,
20KWH Lithium Battery system,
Location: Karu site, Abuja

**10pcs of 620W Solar
Panels Installed**

**20KWH Aurora
batteries**

**12kva Hybrid
Inverter**





Project Title: Installation and Commissioning of 6.5kva System.

Location: RCCG Province 3 Pastor Estate, Jikwoyi, Abuja FCT.



8pcs of 620W Solar Panels Installed

2 Tall Tubular Batteries

6.5kva Hybrid Inverter





Project Title: Installation and Commissioning of 5KVA, 10KWH Lithium battery system

Location: Karu Site, Abuja FCT.

8pcs of 620W Solar Panel Installed

10kwh lithium batteries

5kva Hybrid Inverter





Project title:

Installation of a 60kw system for African first ladies building

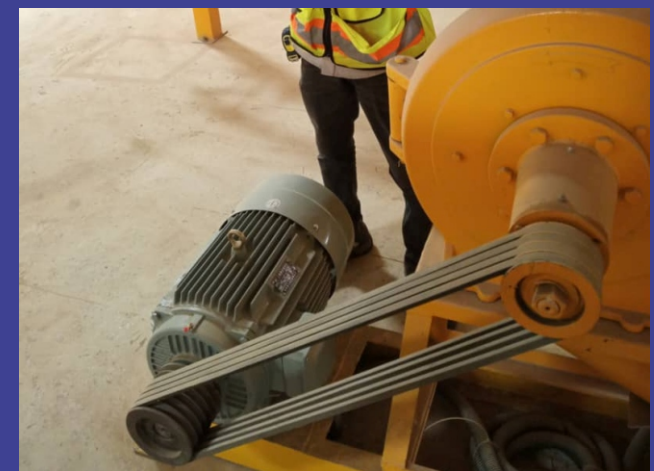
Location: Airport road, Abuja



60kwh lithium batteries

Backup system battery pack project

Maintenance and troubleshooting of faulty factory machines





Project Title: Installation of 11kva full solar backup system

Location: Karshi Abuja, Nigeria



15pcs of 620W Solar Panel Installed

16kwh lithium batteries

11kva Hybrid Inverter





Project Title: 144,000Ah bank with 2volt cells 1000ah each 72 piece installed
63 pieces of 450W Solar Panel with system generating about 39kwh
Location: Loyola Jesuit College, Surulere Lagos state.



144,000AH battery bank

450W Solar Panel 63pcs





Project Title: 60kw lithium batteries with hundred panels of 450w and with 30kw inverter.



Location: Loyola Jesuit College, Surulere Lagos Nigeria.





Project Title: 450 panels, about 20kw generating from the sun to charge a battery bank of 24000AH. Over 15kw inverter with 15kw outback charge controller

Location: Augustus close, off Bazak Balogun, Surulere Lagos Nigeria.





Project Title: 50KW inverter backup system with $5.12\text{kW} \times 12 = 61.44\text{ kW}$ lithium batteries and 90pcs of 600W Solar panels
Location: Trans Amadi Industrial Areas, Port Harcourt Nigeria





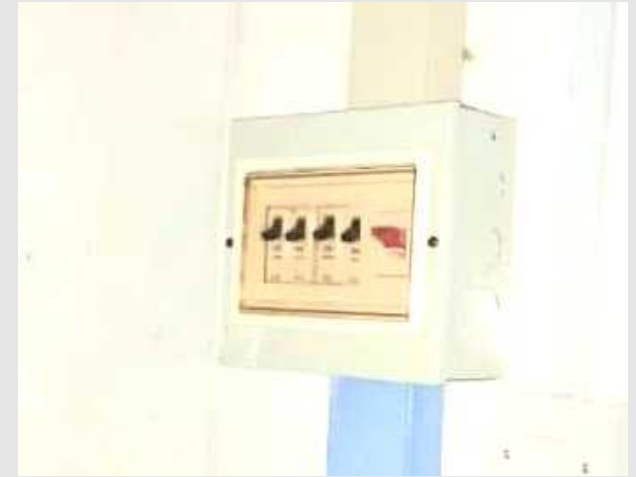
Project Title: 50kw inverter system with $5.12\text{kwh} \times 24 = 122.88$ kWh battery series & 114pcs of solar panels.

Location: Trans Woji road, Port Harcourt, Rivers state.





Completed Projects



Completed Projects





Completed Projects



Good morning dear esteem client,

Reliable Power. Elegant Design. Proven Performance.

From 5kWh to 30kWh, Aurora Power Lithium Batteries redefine what energy independence feels like.

Enjoy clean, silent, and uninterrupted power - built for homes, offices, and businesses that deserve more than just backup.

10 6-Year Warranty | 4 51.2V LiFePO₄ Technology |

Built to Last

Join hundreds of thousand already enjoying the Aurora advantage upgrade today and keep calm, solar on.



One of our newly installed setup 15kwh lithium batteries paired with hybrid 11kva in parallel everything is blessed

Completed Projects



Completed Projects




Completed Projects



Completed Projects



STATUTORY PERMITS



FEDERAL REPUBLIC OF NIGERIA
PERMIT TO OPERATE AS AN OIL INDUSTRY SERVICE COMPANY
MAJOR CATEGORY

PERMIT NO: NUPRC/OGISP/25/7763306/N432761

This Permit is hereby granted to
MEDAAN ENGINEERING SERVICES LTD


of GOP MALL, PLOT 4, KARU LAYOUT, NYANYA-JIKWOYI ROAD,
KARU, ABUJA, NIGERIA


to render the service to the Oil Industry in the Category listed hereunder:
INSTALLATION AND MAINTENANCE
 - Electrical Installation/Maintenance & Materials

This Permit expires on the Friday, August 14, 2026


Fee Paid: ₦ 31,250.00

Dated 14th day of August 20 25




 Commission Chief Executive

This permit does not cover "Supply of Expatriate Manpower" in any guise



FEDERAL REPUBLIC OF NIGERIA
PERMIT TO OPERATE AS AN OIL INDUSTRY SERVICE COMPANY
MAJOR CATEGORY

PERMIT NO: NUPRC/OGISP/25/3236580/N431981

This Permit is hereby granted to
MEDAAN ENGINEERING SERVICES LTD


of GOP MALL, PLOT 4, KARU LAYOUT, NYANYA-JIKWOYI ROAD,
KARU, ABUJA, NIGERIA


to render the service to the Oil Industry in the Category listed hereunder:
REHABILITATION/UPGRADE/FABRICATION WORKS
 - Minor Metal Fabrication
 - Minor Mechanical

This Permit expires on the Friday, August 14, 2026

Fee Paid: ₦ 31,250.00

Dated 14th day of August 20 25





 Commission Chief Executive

This permit does not cover "Supply of Expatriate Manpower" in any guise



STATUTORY PERMITS


FEDERAL REPUBLIC OF NIGERIA
PERMIT TO OPERATE AS AN OIL INDUSTRY SERVICE COMPANY
SPECIALIZED CATEGORY

PERMIT NO: NUPRC/OGISP/25/8495837/N431979

This Permit is hereby granted to
MEDAAN ENGINEERING SERVICES LTD


of GOP MALL, PLOT 4, KARU LAYOUT, NYANYA-JIKWOYI ROAD,
KARU, ABUJA, NIGERIA


to render the service to the Oil Industry in the Category listed hereunder:
MARINE SERVICES/INSTALLATION
- Crane Vessel
- Supply, Installation, and Maintenance of Marine Equipment

This Permit expires on the Friday, August 14, 2026

Fee Paid: ₦ 312,500.00

Dated 14th day of August 20 25


Commission Chief Executive



This permit does not cover "Supply of Expatriate Manpower" in any guise


BUREAU OF PUBLIC PROCUREMENT
www.bpp.gov.ng

11, Suleiman Barau Street,
Presidential Villa,
ABUJA-NIGERIA

Expiry Date
December-31-2025

Interim Registration Report (IRR)

This is to certify the registration of
medaan engineering services ltd

Company Registration No. 7455626
Nigeria Owned / Private Company Limited by Shares

in the National Database of Particulars, Categorization, and Classification of Contractors,
Consultants and Service Providers.

FIRS	PENCOM	NSITF	ITF
Compliant	Compliant with 3 personnel, as obtained from PENCOM.	Compliant	Compliant

BUSINESS CATEGORIES (NOTE: Only categories with asterisk (*) have been verified by BPP)
Appliances (home & Office), Tools & Accessories And Spare Parts (metal, Non-metal, Plastic Composite etc) | Water Crafts: Vessels, Boats, Tug-boats, Ferries, Barges/Lighters, & Ships, Tools & Accessories And Spare Parts (metal, Non-met | Ships/Boats | Solar Systems, Tools, Accessories And Spare Parts (metal, Non-metal, Plastic Composite etc) | Solar Power Equipment | Boats (Lighters) / Ships |

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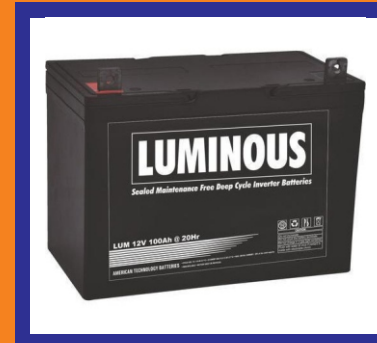
RC: 7455626

MEDAAN ENGINEERING SERVICES LIMITED

■ Experience ■ Precision ■ Excellence

SOLAR SOLUTIONS:

- Solar Batteries • Solar Inverters
- Solar Charge Controllers • Solar Street Lights
- Solar Panels • Energy Savings Equipments





OUR TECHNICAL PARTNERS







**THANK YOU
FOR CHOOSING US!**



CONTACT US:

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Nyanya-jikwoyi Road, Karu, Abuja

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