



**SDEM
ERECTORS
NIGERIA**

WATER SOLUTIONS

PROFILE





ABOUT US



**SDEM
ERECTORS
NIGERIA**

SDEM Erectors Nigeria Limited (SDEM) is an energy, industrial and infrastructure construction company specializing in electro-mechanical services, civil and structural construction, steel fabrication, steel structures and industrial equipment erection, operations and maintenance of industrial and energy plants.

ABOUT US

SDEM ERECTORS NIGERIA LIMITED



- **1981:** SDEM was founded in Nigeria as the installation arm of the GEC- Alstom Group of France.
- **2004:** 90% of SDEM was acquired by a Nigerian group with the French retaining only 10%.
- **2011:** SDEM became management owned through an MBO supported by investor group.
- **Key sectors:** Power, Oil and Gas, and Industrial & Public Infrastructure.
- **Core competence:** Structural Steel Fabrication & Erection, Power Plant, Mechanical & BOP Erection; Piping Network & Spools Fabrication & Installation

Key Sectors



OUR SERVICES

We are an energy, industrial, and infrastructure construction company.



ELECTRO-MECHANICAL SERVICES



ERECTION SERVICES



CIVIL & STRUCTURAL SERVICES



WATER SOLUTION SERVICES



PIPING SERVICES



FABRICATION SERVICES



OPERATIONS & MAINTENANCE

Our Achievements & Numbers



COMPLETED
PROJECTS

500+

DELIVERED

HUMAN
RESOURCES

300+

QUALIFIED
MANPOWER

PROFESSIONALISM

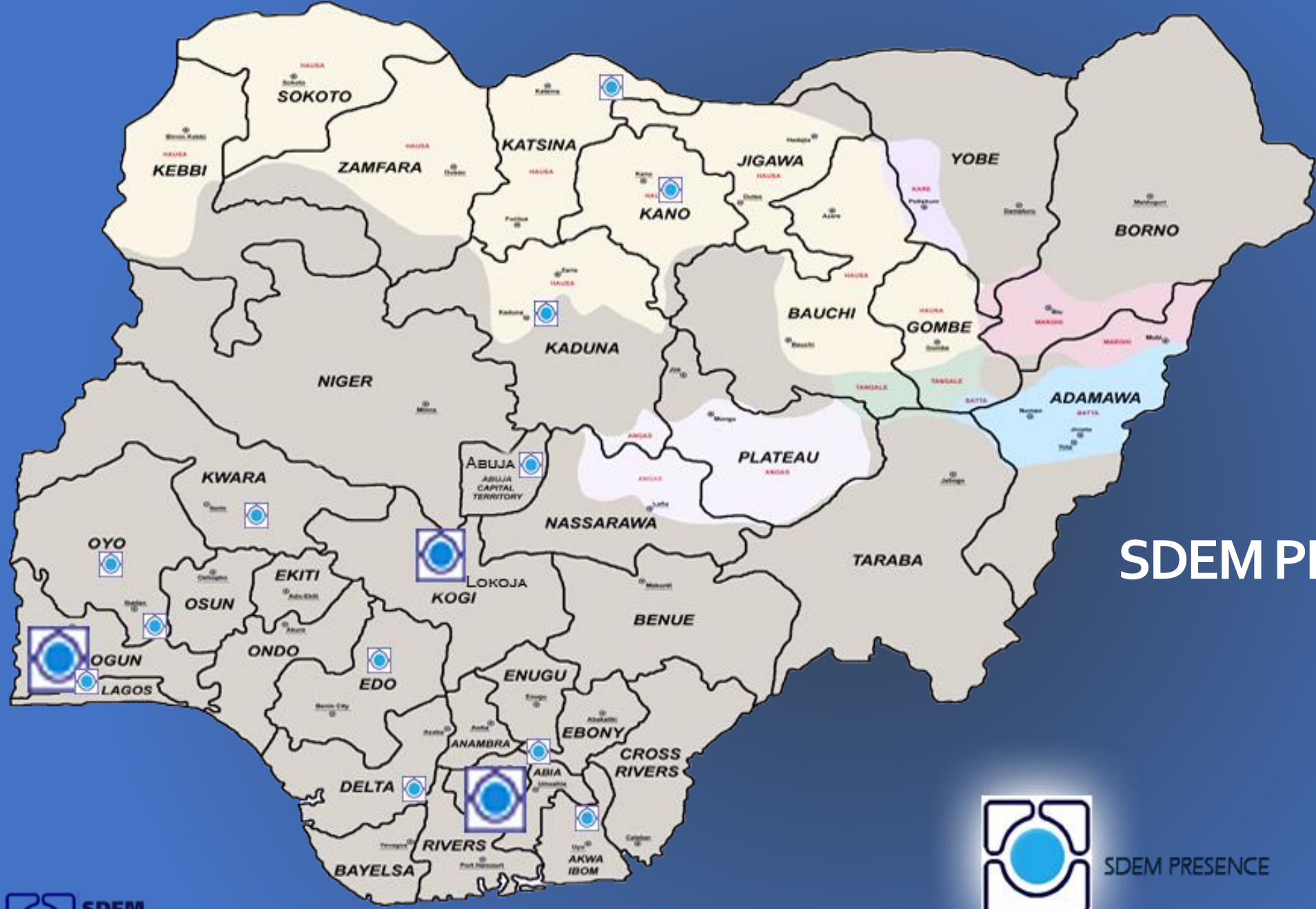
45

YEARS OF
EXPERIENCE

WORK
COVERAGE

36

STATES IN
NIGERIA



SDEM PRESENCE IN NIGERIA



SDEM PRESENCE

OFFICES



Lagos

Head Office

No. 127 B Eti-Osa Way, Dolphin Estate,
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+2348103281963

Email: sdem@sdem.com;



Ajaokuta

Fabrication Yard

Ajenco, Ajaokuta,
Kogi State,
Nigeria.

Tel: +234 58 400402



Port Harcourt

Fabrication Yard

Plot 71 Trans Amadi Industrial Layout,
Port Harcourt,
Rivers State,
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Tel: +234 84463863, +234 463686

Email: malawode@sdem.com.

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WATER SOLUTIONS PROFILE

- SDEM Erectors provides a full range of water engineering and construction services for private companies, multinationals and governments. At SDEM, planning through design to the installation of complex facilities are carried out.



- In partnership with OEM (GE, SEIMENS & Others), SDEM offers turnkey EPC solutions for the design and installation of water treatment plants.
- SDEM handles process water for:
 - Oil & Gas Industries
 - Petrochemical Plants
 - Power Generation Plants
 - Breweries, Cement & FMCG Plants
- So, SDEM Erectors offers total solution for process environment.

SDEM WATER SERVICES

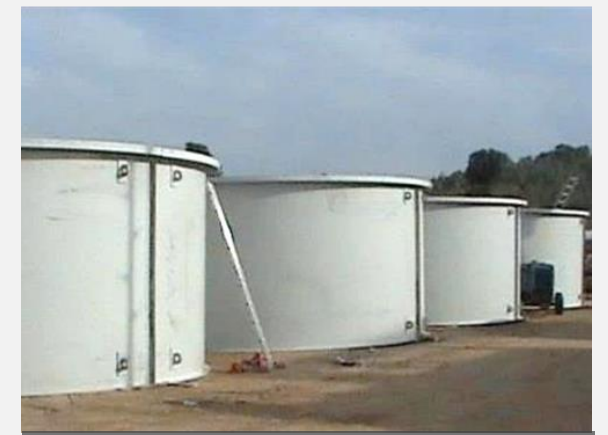
SDEM water projects scope and capacity includes the following:



Design, supply, prefabrication and erection of distribution piping networks



Water Intakes & pumping stations



Storage tanks (supply, fabrication & erection)



Turnkey design & installation of water treatment plants



Valves (supply & erection)



Associated steel structures (supply, fabrication & erection)



Rehabilitation & extension of plants

SERVICES CAPABILITIES

WATER SECTOR



SDEM water projects scope and capacity includes the following:

- Turnkey design & installation of water treatment plants
- Design, supply, prefabrication and erection of distribution piping networks
- Water Intakes & pumping stations
- Storage tanks (supply, fabrication & erection)
- Valves (supply & erection)
- Associated steel structures (supply, fabrication & erection)
- Rehabilitation & extension of plants



SOLUTIONS

PROCESS WATER SYSTEM

Process Water system



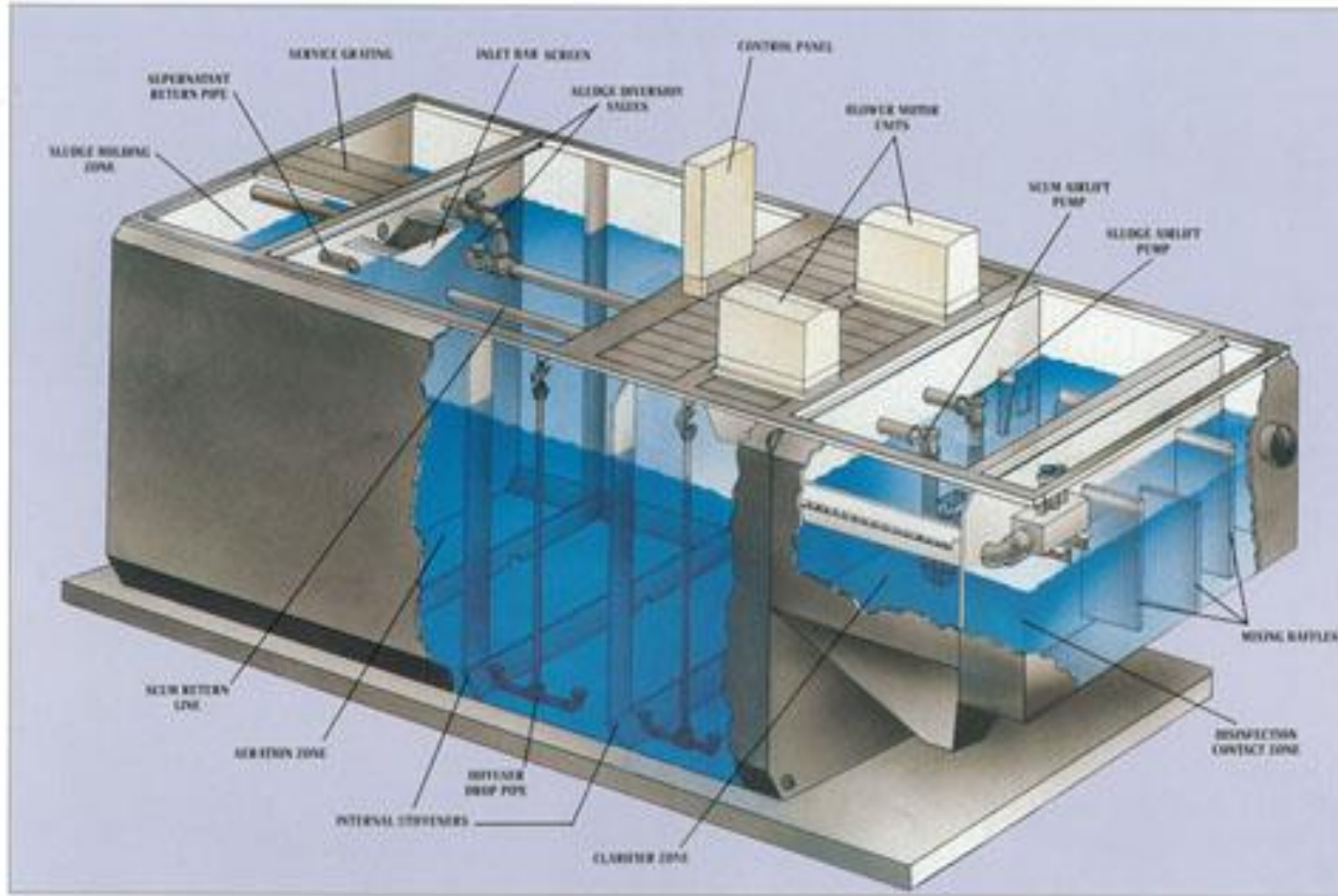
Process water system is a system used in industrial and manufacturing settings to deliver water that is treated to meet specific quality requirements for various manufacturing processes.

These systems are designed to manage water from a source, treat it to remove contaminants, and distribute it for use in activities like boiler make-up, cooling towers, plating, or rinsing.

SDEM Erectors' experience in process water system cut across the following project types:

- Breweries
- Power plants
- Dams
- Water works
- Others

Process Water System



Process Water System



Water Supply and Reticulation



A water supply and reticulation system provides clean, potable water to homes, businesses, and other facilities through a network of pipes and infrastructure.

Water Supply And Reticulation



Ajaokuta Steel Plant – Water Supply Lines
(3,800 Tons of Cast Iron Pipes)



Project: Water intake, main distribution lines
(18Km) and water storage tank

Water Treatment Plant



A centralized facility that purifies raw water to make it safe and suitable for drinking

Water Treatment Plant



PROJECT REFERENCES

SDEM WATER PROJECTS

AMA BREWERY ENUGU

HDPE WATER PIPELINE CONSTRUCTION

2021 – 2023



AMA BREWERY ENUGU

(2021 – 2023)

Work Details

- HDPE Water Pipeline Construction.



Excavation of trench for
HDPE water pipeline using
sdem excavator



Prepared excavated trench
surface ready to receive
HDPE water pipe



Butt fusion joint welding of
HDPE water pipes



HDPE pipes layed and
connected to chamber



Pressure testing of welded
HDPE pipes



HDPE water pipe layed in
prepared trench

EWEKORO 110 MW GT POWER PLANT PROJECT AT WAPCO CEMENT, OGUN STATE

2010 – 2011



Ewekoro 110 MW GT Power Plant Project at WAPCO Cement, Ogun State

(2010 – 2011)

Work Details

- Radiator cooling water pipe lines.



Prefabrication and installation of piping works for W18V50DF engine.

Ewekoro 110 MW GT Power Plant Project at WAPCO Cement, Ogun State

(2010 – 2011

Work Details

- Prefabrication and installation of piping works for W18V50DF engine.



Prefabrication and installation of piping works for W18V50DF engine.



EWEKORO 110 MW GT POWER PLANT PROJECT AT WAPCO CEMENT, OGUN STATE. Contd.

2010 - 2011

SCOPE

1. W18V50DF Power Plant
Radiator Cooling Water
System



GEREGU (PHASE I) 414MW – GAS TURBINE POWER PLANT

2005 – 2008



Geregu (Phase I) 414MW – Gas Turbine Power Plant

(2005 –2008)

Work Details

- Water piping bypass network.



Water piping bypass network

Geregu (Phase I) 414MW – Gas Turbine Power Plant

(2005 –2008)

Work Details

- Storage tank: raw water tank fabrication



Storage tank: raw water tank fabrication in progress

Geregu (Phase I) 414MW – Gas Turbine Power Plant

(2005 –2008)

Work Details

- Raw water tank construction



Raw water tank construction: capacity 1000 m3

Geregu (Phase I) 414MW – Gas Turbine Power Plant

(2005 –2008)

Work Details

- Gas Turbine Power Plant Storage Tank Demineralization Water Tank



Gas Turbine Power Plant Storage Tank Demineralization Water Tank

GEREGU (PHASE II) 434 MW POWER PLANT (3 X GAS TURBINE)

2011 – 2013



Geregu (Phase II) 434 MW Power Plant (3 X GAS TURBINE)

(2011 – 2013)

Work Details

- BOP installation (cooling water system).



BOP installation (cooling water system).

Geregu (Phase II) 434 MW Power Plant (3 X GAS TURBINE)

(2011 – 2013)

Work Details

- Erected storage tanks



Erected storage tanks



GEREGU (Phase I) – 414 MW Power Plant (3 X GAS TURBINE). Contd.

- Raw Water Tank - fabrication

EGBIN THERMAL PLANT

2002-2003

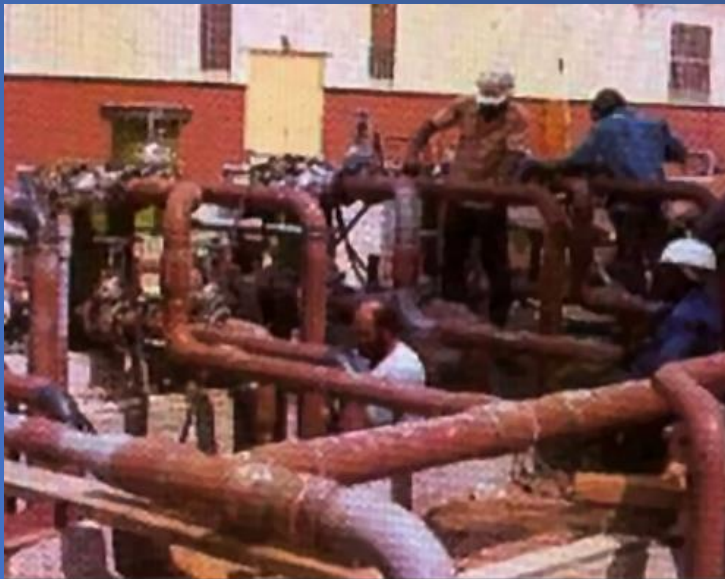


EGBIN THERMAL PLANT

(2002-2003)

Work Details

- Fabrication, erection & insulation of process & utility pipes



Fabrication, erection & insulation of process & utility pipes

EGBIN THERMAL PLANT

(2002-2003)

Work Details

- Light weight PVC-U system Installation



Light weight PVC-U system Installation

AJAKUTA WATER SUPPLY UNDER DUMEZ FOR AJAKUTA STEEL COMPANY LIMITED (ASCL)

SCOPE

Water Supply Lines (3,800 Tons
of Cast Iron Pipes)





AJAKUTA BASE & FABRICATION YARD

Equipment

Main equipment in the yard:

- Lathe machines,
- Milling machines,
- Drilling machines,
- Shearing machines,
- Grinding machines,
- Plate rolling machines
- Threading machines.

Other plants in the yard are:

- Over 50 welding plants (Electric/ Diesel powered),
- Oxy-acetylene and plasma cutting table,
- Hydraulic press,
- Blasting and painting equipment.

Fabrication Yard



SDEM Equipment, Plant & Machineries and Logistics Vehicles

Lifting Equipment

- Mobile cranes 10 Nos : (25 to 220 ton capacity)
- Workshop overhead cranes
- Generators of 6.6KVA – 275 KVA
- Personnel lifting basket (26m reach)
- Forklifts
- Mobile scaffold Tower (12m platform)
- Payloader
- Backhoe excavator
- Diesel compressors

Machineries & Plants

- Welding machines : Argon TIG, Arc, Diesel, Electric
- Atlas Copco Compressors
- Lathe machine
- Milling machine
- Threading machine
- Oxy and plasma cutting table
- Shearing machine
- Plate rolling machine
- Hydraulic press
- Blasting and painting unit
- Large stock of scaffold tubes, clips etc

Project Supports

- Site tractors with trailers
- Self loader trucks
- Trucks head with flat bed trailers (20t-30t)
- Trucks head with 60t low bed
- Light motor vehicles

Equipment for erection



THANKYOU

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