

# KEY EXPERIENCE

A number of important jobs Tralat has taken on in the past,

## ENGINEERING, PROCUREMENT, AND CONSTRUCTION (EPC) PROJECTS

- Engineering, Procurement and Construction of 1 x 15MVA 33/11KV Sub-Station at Alor (Idemili South, Anambra State, Nigeria), for Rural Electrification Agency.
- Provision and installation of Hybrid mini grid at Okangha Mkpasi in Ikom L.G.A Cross River State for Rural Electrification Agency
- Engineering, Procurement and Construction of 1 x 15MVA 33/11KV Sub-Station at New-Bussa (Niger State, Nigeria), for Mainstream Energy Solutions Ltd
- Engineering, Procurement, and Construction for Channelization and Erosion Control Workers at Obu-Ofu Quarter Awka (Anambra State, Nigeria).
- Dredging of Intake Water Channel for Egbin Thermal Power Plant, Nigeria.
- Engineering, Procurement, and Construction of residential complex
- Modification work at Onne Terminal Forte Oil, Nigeria, which covers preliminary work, civil work, electrical work of , I.T work, provision Portakabin, Borehole work

## ENERGY AND ENGINEERING SERVICES

- Supply of Parts and Technical Supervision of Gas Turbine Combustion Inspections at Alaoji Power Station
- Boroscope Inspection for GE Frame 5E turbine for Egbin Thermal Power Plant
- Supply, Installation, Testing and Commissioning of 1No 2000A Incoming 6.6KV Bus Circuit Breaker for Egbin Power Plant, Nigeria.
- Supply, Installation, Testing and Commissioning of 1No 630A Incoming 6.6KV Bus Circuit Breaker for Egbin Power Plant, Nigeria.

- Dredging and clean-up Exercise of Egbin Thermal Power Plant Intake for Egbin Plant, Nigeria.

## ENGINEERING CONSULTANCY AND PROJECT MANAGEMENT

- 5 yearly comprehensive inspection of Kainji Dam/Hydraulic structures and upgrade of instrumentation.
- 5 Yearly comprehensive inspection of Shiroro Dam/Hydraulic structures and upgrade of instrumentation.
- 5 Yearly comprehensive inspection of Jebba Dam/Hydraulic structures and upgrade of instrumentation.
- Investigation and Engineering Consultancy Services/ Project Management: with recommendation used for refurbishment of Kainji Power Plant (Nigeria) Unit 1G8; for Alstom Nig. Ltd.
- Investigation and Engineering Consultancy Services/ Project Management: with recommendation used for refurbishment of GE Frame 5 Gas fired turbine (Emergency Turbine) of Egbin Power Plant (Nigeria).
- Supervision and Project Management for Reinforcement of Moladere/Babalola/Orile-Oke rural electrification in Osun State for Mainstream Bank, Nigeria

## ENERGY RELATED EQUIPMENT/ SPARES SUPPLY PROJECTS

- Turbine Filter Elements for Gas Separators (168Nos.) for Calabar Generating Company Ltd
- Turbine Filter Elements for Alaoji Generation Company Ltd (1920Nos.)
- Turbine Filter Elements for Gbarain Power Station (1920Nos.)
- Turbine Filter Elements (2208 Nos.) for Omotosho Power Station
- Turbine Filter Elements for Benin Power Station (960Nos.)

- 2 No 150MVA 330/132/33KV Power Transformers for Transmission Company of Nigeria (TCN).
- 1 No 150 MVA 330/132/33KV Power Transformers for Transmission Company of Nigeria (TCN).
- 1 No 750MVA 330KV Shunt Reactor for Transmission Company of Nigeria (TCN).
- 1 No Station Service Air Compressor for Kainji Power Plant, Nigeria.
- 2 No Governor Vessel Air Compressors for Kainji Power Plant, Nigeria.
- 1 No Filtrvac Transformer Oil Purification System for Kainji Power Plant, Nigeria.
- 1 No Turbine Lub-Oil Purification System for Kainji Power Plant, Nigeria.
- Turbine Air Intake filters and Generator Filters for Ughelli Power Plant, Nigeria.
- 8 No OFS-840X – 3B Filters for Kainji Power Plant, Nigeria.
- 4 Sets of Intake Gate Chevron Seals for Kainji Power Plant, Nigeria.
- 1 Set of Jack Shaft and Jack Shaft Extension for Kainji Power Plant, Nigeria.
- Turbine Unit Intake Rubber Seals A&B for Kainji Power Plant, Nigeria.
- 5 No Thrust Bearing Temperature Sensor with Capillary tube and Meter for Kainji Power Plant, Nigeria.
- Oil Head Components (Intermediate Tubes with Fitting Comprising of N 65253934, N65253936, N65253937, Supply tube; connecting tube N652M4026; Jack Shaft thrower rings N652M3880; and Jack Shaft extension N65253881) for Kainji Power Plant, Nigeria.
- Roller Head Bearings for Intake Gates and Oil Components ( 64 No Roller Head bearings for intake gates ref 231300C CIN33; Runner Oil Housing N652/3878; Return motion gear connection tube N65253940; Return motion connecting tube coupling N65253941; and Return motion connecting tube N65253942) for Kainji Power Plant, Nigeria.
- Return motion Shaft N65254027; Supply tube coupling N65253936; and Displacement transducer unguided LVDT, for Kainji Power Plant, Nigeria.
- 5 No Water Transfer Pumps for Shiroro Power Plant, Nigeria.
- 10 No Industrial Strainers for Shiroro Power Plant, Nigeria.
- 16 No Submersible Drainage Pumps for Kainji Power Plant, Nigeria.
- 9 No Generator Brake Pressure Reducer Valve for Jebba Power Plant, Nigeria.
- 3 Sets No. 6 High Pressure Heater Shell Relief Valve for Egbin Power Plant, Nigeria.

- 3 set No. 5 High pressure shell relief valves for Egbin Power Plant, Nigeria.
- 16 No Solenoid Valves for Geregu Power Plant, Nigeria.
- 3 No Dissolved Oxygen Analyzer (Monitor) complete with Sensor Holder and Cable for Egbin Power Plant, Nigeria.
- 12 No Proximity Inductive Sensors for Gas vent valves for Geregu Power Plant, Nigeria.
- 12 No Vent Valves Proximity Sensor and 150 No Connectors for Geregu Power Plant, Nigeria.
- 1 No Transducer for Egbin Power Plant, Nigeria.
- 2 No Complete Surge Water Level Controller set for Egbin Power Plant, Nigeria.
- 42 No Gas Turbine Exhaust Thermocouple for Geregu Power Plant, Nigeria.
- 15 No Duplex Thermocouple, 6 No Diffuser Thermocouple, and 6 No Compressor outlet thermocouple for Geregu Power Plant, Nigeria.
- 12 No Exhaust Thermocouple for Geregu Power Plant, Nigeria.
- Working Tools (5No Mechanical tool boxes, 28 No Electrical tools boxes, 15 No Electronic tool boxes, and 2 No Mechanical tool boxes with 4 drawer's chest) for Kainji Power Plant, Nigeria.
- 3 No 16KV Air Blast Circuit Breaker for Kainji Power Plant, Nigeria.
- 2 No Differential relay and 200 No Auxiliary relay for Jebba Power Plant, Nigeria.
- 8 No Signal Line Arrester for Egbin Power Plant, Nigeria.
- 6 No RTD Surge Protection M-Rester Arrestor for Egbin Power Plant, Nigeria.
- 1No Function Generator and 1No Frequency Counter for Afam Power Plant, Nigeria.
- 3No Oil Cooler Fan Motors, 24No Carbon Brush Holders, 2No Axial Impeller and 2No Louver Damper System for Afam Power Plant, Nigeria.
- 1No Battery Charger for Ughelli Power Plant, Nigeria.
- 18 No Back-Up Memory Battery, 8No sealed rechargeable battery, 8Nos Battery Power Pack and 4Nos Sitop Lead Battery Pack for Geregu Power Plant, Nigeria.
- 2 No Air Blower for Egbin Power Plant, Nigeria.
- 2 No (10 Cells) Unit Gas Turbine Cooling Water System (Black Start/Emergency Power Gas Turbine Radiator) for Egbin Power Plant, Nigeria.
- 1 No Gear Box for 7.5 Tons Hoist Capacity crane for Egbin Power Plant, Nigeria

## **TRALAT ENGINEERING & ENERGY SOLUTIONS LIMITED**

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