

# Company Profile



## AB ENGINEERING PROFILE

# OUR objectives

# our

# objectives

## Objectives

**A**  
Give optimum  
output at  
minimal cost.

**B**  
Produce to  
meet customers'  
specifications.

**C**  
Time is of optimum value;  
therefore works are  
completed on schedule.





# THE team

# team

**AB Engineering Company Ltd has a strong team of dedicated and experienced professionals who are capable of meeting and exceeding the high expectations and needs of clients.**

**AB Engineering Company Ltd provides professional, industry-proven personnel to meet the resource needs of power generation and other industrial facilities.**

**Our engineers work hand in hand with clients to ensure a well thought-out and fully coordinated team approach to every project. Our professional staff is available for all phases of a project, including development, engineering, construction, commissioning and ongoing operations and maintenance.**

**AB Engineering Company Ltd employees and consultants are thoroughly screened and selected to assure the highest-quality staff is available at all levels. Our talent, experience and resources are unparalleled in the varied engineering disciplines.**

**We utilize the unique strengths of our experts to provide the best combination of personnel at all stages of a project.**





# Project Portfolio





# CORPORATE **profile**

## Our **8** Core Areas Of Expertise



### Oil and Gas Services

- *Design and Installation of LNG/LPG terminal*
- *Design, Construction and refurbishment of bulk fuel storage terminal*
- *Maintenance and expansion works on refineries*
- *Jetty bulk storage depots, Oil and gas transfer pipelines*



### Power Generation

- *Construction of thermal power plants*
- *Refurbishment of thermal power plants*



### Building Services

- *Water supply and distribution systems*
- *Air conditioning and ventilation systems (HVAC)*
- *Fire fighting system*
- *Sewage and sewage treatment plant*
- *Kitchen Designs · Lift installations*
- *Fire and security Doors · Lift installations*
- *Domestic LPG supply and distribution*
- *Installation of solar panels for lightening and water heating*



### Marine Works

- *Repairs and maintenance of Shipping vessels and ports*
- *Under water piping*
- *Maintenance expansion works for seawater, LNG*
- *Oil transfers.*

# CORPORATE **profile**

## Our **8** Core Areas Of Expertise



### **Mining Projects**

- *Maintenance and Expansion works*



### **Fabrications and Structural Works**

*Fabrication and installation of stanchions and trusses for buildings, warehouses, transmission towers and other metal structures.*



### **Industrial Equipment Installations**

- *Pumps*
- *Boilers*
- *Heavy Structures*
- *Skids*
- *Industrial machines etc.*



### **Water Treatment Projects**

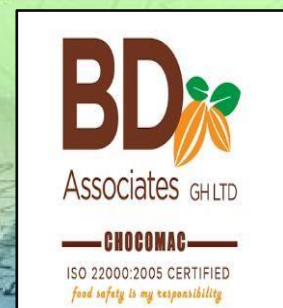
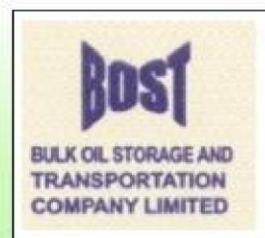
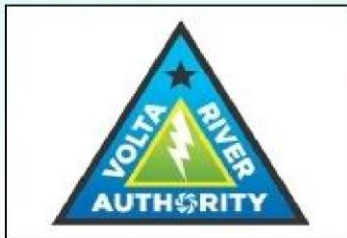
- *Water and Waste water treatment facility works*
- *Drilling of bore holes banks and treating underground water with Reverse Osmosis equipment to make them portable for Human consumption, Beverage and Food processing Industries.*



# Reputation

AB Engineering is well known for providing smarter and better engineering services aimed at enabling its customers to quickly achieve the bottom line benefits of their core business. We do this through provision of standard engineering services and advisory services (thought leadership) in engineering. AB Engineering is a project-centered and consultancy company that tailor-make solutions and services to address customer-specific business and project requirements.

AB Engineering provides services to leading companies, government departments and State-Owned Enterprises throughout the country and region. Listed below are the renowned companies we have worked with as our clients.



## RECENT PROJECTS ON LNG AND RELATED WORKS

DESCRIPTION	CLIENT	YEAR
Construction and pre-commissioning (Flushing, Hydro testing, Pigging, Cleaning and Preservation) of an 11km 16" LNG Pipeline from the VRA interconnecting facility (Tema) to the 230MW VRA power plant	VRA	2014-2015
Construction & Pre-commissioning (Flushing, Hydro testing, Pigging, Cleaning and Preservation) of 1.3KM long DN 250 API 5L SCH 20 Gas Pipeline	CENPOWER	2016-2017
Construction & Pre-commissioning (Flushing, Hydro testing, Pigging, Cleaning and Preservation) of a 1.3KM 10 inch LNG Pipeline from the VRA interconnecting Gas facility to the CENPOWER power plant 1.3KM	TTPP	2018-2019
Inspection of the 10inch underground LNG pipeline with a Smart Inspection tool including the fabrication of receivers, launchers, kicker line & bypass	CENPOWER	2020





Installation of 24" LNG Pipeline

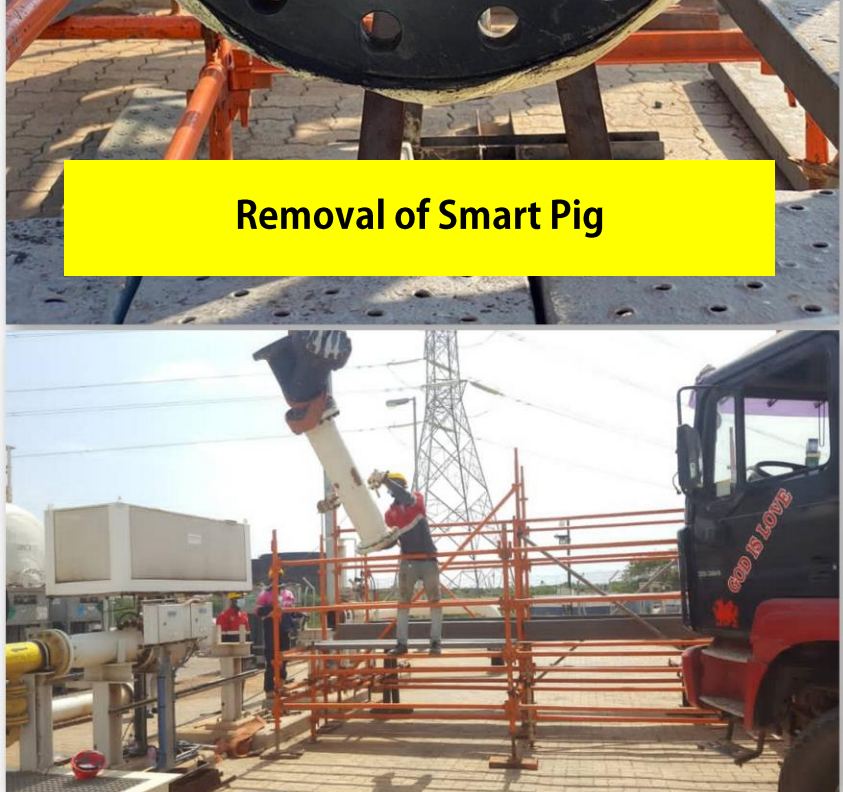




Installation of the receiver, launcher, kicker line, bypass line at CENPOWER for the inspection of the LNG underground pipeline with a smart inspection tool.



Removal of Smart Pig





Testing of 10" LNG Pipeline from VRA interconnecting Gas facility to CENPOWER Power Plant



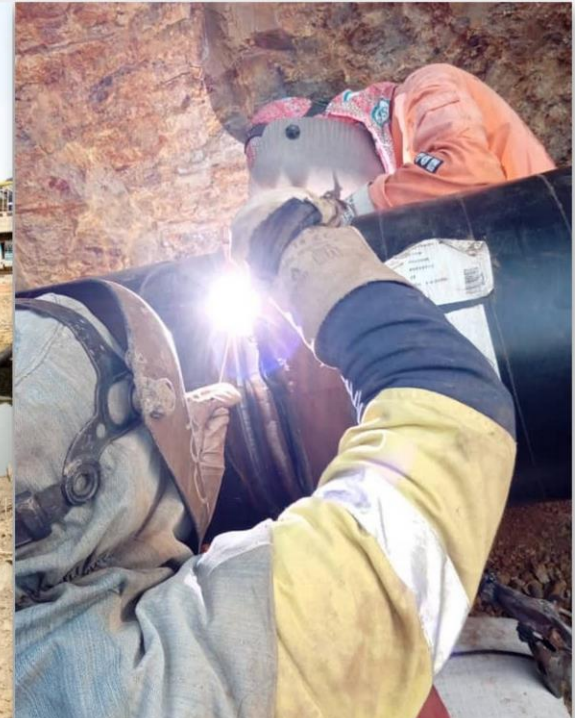




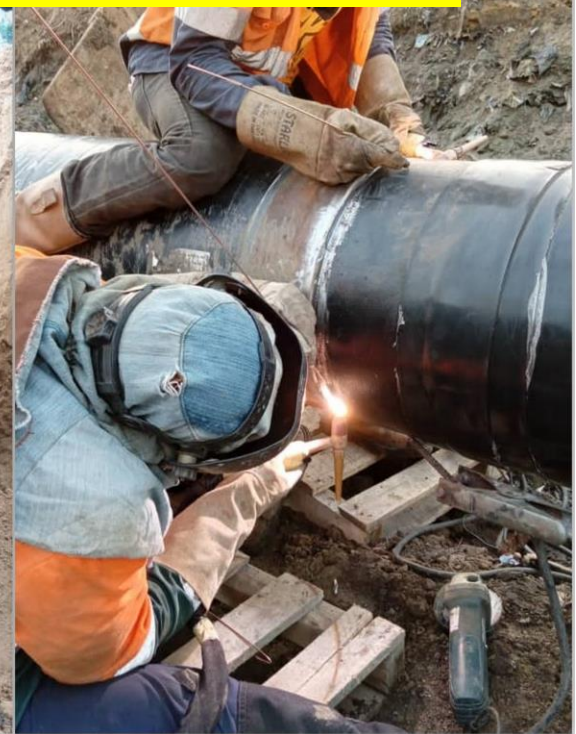
**Fabrication of receiver, launcher, kicker, and bypass line for the pipeline inspection at CENPOWER from our Workshop**







**Installation of 16" LNG Pipeline from VRA Gas Interconnecting Facility to the Kpone Power Plant**





# oil&gas

## OIL AND GAS projects

**PROJECT: CONSTRUCTION OF 1,300M LONG DN 250 API 5L SCH 20 GAS PIPELINE**

**CONTRACTOR: GROUP FIVE STRUCTURED INGENUITY**

**CLIENT: CENPOWER HOLDINGS**

### Activities Executed:

#### Mobilization

- Establishment of Temporary Site Facility
- Procurement of Accessories

#### Construction Works

- Surveying Works
- Setting Out Works

#### Piping Works

- Clearing of Right of Way (ROW)
- Excavation
- Pipe Transport
- Pipe Stringing
- Pipe Jointing
- Pipe Joint Welding
- NDT-100% RT of Weld Joints
- Filling and Compaction of Selected Sand Padding – 1<sup>st</sup>
- Pipe Joint Wrapping & Holiday Testing
- Laying of Pipeline in Trench Including Cable Conduit
- Casting of Concrete Saddle Weights @5m Centers
- Filling and Compaction of Selected Sand Padding -2<sup>nd</sup>
- Placing of Marker Tapes
- Backfilling and Compaction from In-situ Excavated Material
- Pressure Testing of Section



## Auger Boring Works

Excavation of Entry Pit

Setting up & Testing of Equipment

Boring, Laying and Welding of Casing Pipe (sleeve) including the removal of bored material

Excavation of Exit Pit

Laying of Carrier Pipe (product line) including the installation of spacers and cable conduit

Welding of the Carrier Pipe Out of Entry & Exit Pits

## Installation of Cables

Cable Pulling

Final Reinstatement of Line and Permanent Boundaries

## Pipeline Route Marker Post

Fabrication of Pipeline Route Marker Post + Curing

Installation of Pipeline Route Marker

## Pre Commissioning Works

Installation of Temporary Pig Launcher and Pig Receiver Stations

Clean and Gauge Pipeline

Hydro testing of Pipeline

## Demobilization

Removal of Temporary Facilities

## SECTION 1: GENERAL INFORMATION

<b>Sub-Contractor:</b>	AB ENGINEERING CO. LTD			<b>Certificate No.:</b>	KIPP-G51-2L-PE-QA-CWP-0061	
<b>Project Description:</b>	KIPP POWER PLANT			<b>Sub-Contract No.:</b>	N/A	
<b>Area / System:</b>	OVERLAND GAS PIPELINE			<b>Equipment:</b>	OVERLAND GAS PIPELINE	
<b>Punch Items Outstanding:</b>	Yes	No		<b>Final Punch List Number:</b>	N/A	
<b>Discipline:</b>	OVERLAND GAS PIPELINE				<b>Date:</b>	09/05/2017

**SECTION 2: DETAILS OF SCOPE OF WORK (PLANT) INCLUDED ON THIS CERTIFICATE**

OVERLAND GAS PIPELINE WORKFROM RECEIVING STATION TO KIPP SITE AS PER DRAWING KIPP-WP1-G000-CI-DRD-0026-001 REV 2& ASSOCIATE DRAWINGS

### SECTION 3: EXCEPTIONS

CATHODIC PROTECTION AND FIBER OPTIC CABLE WORK

Notice is hereby given by the **Group Five Construction Manager** and the **Client's Responsible Representative** that the work has been completed satisfactory as stipulated in section 2 of this certificate and in conjunction with the terms of the contract. This certificate is issued without prejudice to the Client's right in terms of the contract.

## SECTION 4: ACCEPTANCE

SECTION 4: ACCEPTANCE

Emmanuel Abbey, P.M.

*[Signature]* 10/5/17

Sign & Print Name & Date

Sub-contractor Construction Manager

  
 S. MARAIS  
 Sign & Print Name & Date  
 Group Five Construction Manager

Charl Junse van Rensburg  
Sign & Print Name & Date

09/05/2017



# oil & gas

## OIL AND GAS projects

### KPONE INDEPENDENT POWER PROJECT- 2016/2017

#### CONSTRUCTION OF A 1300M LONG DN 250MM API 5L SCH20 GAS PIPELINE



#### THRUST BORING OPERATIONS







## PIGGING PROCESS





# PIPELINE CONSTRUCTION





## RECENT PROJECTS ON TANK ERECTION AND RELATED WORKS

DESCRIPTION	STATUS	CLIENT	YEAR
Erection of 2No 3500 cubic meters stainless steel tank for treated water	Labour, Machines, and Tools	Manufacturing factory	2017
Erection of 2No 2500 cubic meter storage tank for black oil for furnace	Labour, Machines, and Tools	Manufacturing factory	2018
Erection of 1No 4500 cubic meter raw water tank for firefighting and manufacturing	Labour, Machines, and Tools	Manufacturing factory	2019
Erection 4No 12,000 cubic meter fuel storage tank of KTPP Power plant	Subcontractor to Zakhem	Volta River Authority	2014-2015
Erection of 2No 8500 cubic meters and 2No 6500 cubic meters fuel storage tanks at Puma energy fuel storage depot at Takoradi	Subcontractor to Zakhem	Puma Energy	2013-2015



















# RECENT PROJECTS ON PIPELINE WORKS

DESCRIPTION	CLIENT	YEAR
Construction and pre-commissioning of an 8KM 12" Pipeline from Takoradi Harbour old fuel Jetty to Puma Energy	Puma Energy	2015
Construction & Pre-commissioning of a 5KM 16" and 6" Pipeline from Old Jetty to GOIL- BOST installation Takoradi	Bulk Oil Storage	2008/ 2012
Construction & Pre-commissioning of a 20 KM 36" Pipeline for Ghana Water Company	Ghana Water Company	



# power plants

## THERMAL POWER plant



Kpone Thermal Power Project KTPP 1  
Installation Of Interconnecting Piping For all the systems connecting Gas Turbine 2



Installation of measurement and blow-off system piping to gas turbine 2





# power plants

## THERMAL POWER plant



Kpone Thermal Power Project KTPP 1  
Installation Of Interconnecting Piping For the cooling tower of Gas Turbine 2



Installation of cooling water piping  
to the generator of Gas Turbine 2



Installation of cooling water piping  
to the gear box of Gas Turbine 2





# power plants

## THERMAL POWER plant



Kpone Thermal Power Project KTPP 1  
Installation Of lube oil Piping from auxilliary block to the generator, gear box, manifold and diffuser of Gas Turbine 2



Kpone Thermal Power Project KTPP 1  
Installation Of lube oil Piping For the generator, gear box, manifold and diffuser of Gas Turbine 2





# power plants

## THERMAL POWER plant



Kpone Thermal Power Project KTPP 1  
Installation Of fuel-oil, fuel-gas, nox-water and hydraulic oil Piping to the combustion chamber of Gas Turbine 2



Kpone Thermal Power Project KTPP 1  
Installation of fuel-oil, fuel-gas and nox-water piping to the auxiliary block to the combustion chamber of Gas Turbine 2



Kpone Thermal Power Project KTPP 1  
Installation of fuel-gas piping to fuel-gas skid of Gas Turbine 2



Kpone Thermal Power Project KTPP 1  
Installation of fuel-oil, fuel-gas and nox-water piping to the auxiliary block to the combustion chamber of Gas Turbine 2



Kpone Thermal Power Project KTPP 1  
Installation of fuel-gas piping from fuel-gas skid to the auxiliary block of Gas Turbine 2



# **fabrications**

## **FABRICATIONS**



### **Fabrication works**



**STRUCTURAL WORKS**



**WELDING OF 8" PIPES FOR FUEL TREATMENT PLANT**



**FABRICATION OF SUPPORT FOR CABLE AND PIPE RACKS**



**WELDING OF 12" PIPES AT TAKORADI THERMAL POWER PLANT**



**INTERCONNECTING PIPES FOR TEMA OIL REFINERY CRUDE OIL TANKS**



**WELDING WORKS ON 10" PIPES**



## WATER & WASTE WATER treatment project



**Installation Interconnecting Piping For Forwarding Demineralized Water T3 Project**



**Installation Interconnecting Piping for Acid and Alkaline Regenerating Skid**



**Installation Interconnecting Piping to Raw Water Pump - T3 Project**



**Installation Interconnecting Piping for Anion and Cation Skids**



## WATER & WASTE WATER treatment installation



Installation works at the Water and waste water treatment facility at Kpone Thermal Power Project





# water

## FRESH WATER PUMP station



Fresh Water pump station at KTPP





# pipng works



Replacement of bottom plate and connecting pipes/valves  
for goil storage depot at takoradi



Installation of piping works  
at the water facility, VRA-Aboadze  
Thermal Power plant- T3 project



Installation of piping works  
at the fire-fighting  
pump station



Installation of fire-fighting pipelines  
for GHAPHA nine storey building



Installation of pipes at the Demineralized  
waterarea -T3 project VRA-Aboadze



# pipe sleeper and cable racks

Fabrication of pipe sleepers and cable racks



Installation of pipe sleepers and cable racks in the trench



Installation of pipe sleepers and cable racks at the compressed air station at KTPP



Installation of pipe sleepers and cable racks for balance of plant at KTPP



# oil&gas

## OIL AND GAS projects



Interconnecting piping for fuel storage tanks of the bulk storage depot GOIL, Takoradi



Installation of Interconnecting piping for the LNG receiving, regulation and metering station KIPP



# oil&gas

## OIL AND GAS projects



Interconnecting piping for fuel storage tanks of KTPP



Laying of 20"  
LNG pipeline



Interconnecting piping at GOIL bulk oil storage facility, Takoradi



Refurbishment of storage tanks at Tema Oil Refinery, Tema





## Focus

With the emerging oil and gas industry in Ghana, AB Engineering intends to play a key role in upstream activities by transferring the experiences gained and forming strategic partnership with technologically advanced industry players.

As an organization with certification from the Petroleum Commission of Ghana, offers from Tullow, MODEC and ENI have been streaming in for repair works on Rigid Jumper, fabrication of subsea modules, torqueing and tensioning etc...

We seek to transfer the over 30 years experience gained onshore (refinery maintenance, fuel storage depot construction and LNG pipeline construction) to the upstream sector



# Activities

- ✓ Fabrication of suction  
Piles up to 150t
- ✓ Structural work up to 300t
- ✓ Jumpers and heavy piping
- ✓ Fabrication of Subsea  
Modules
- ✓ Installation aids
- ✓ Pipeline pigging and  
inspection
- ✓ Torqueing and tensioning



# Fabrication of Suction Pile (150T)



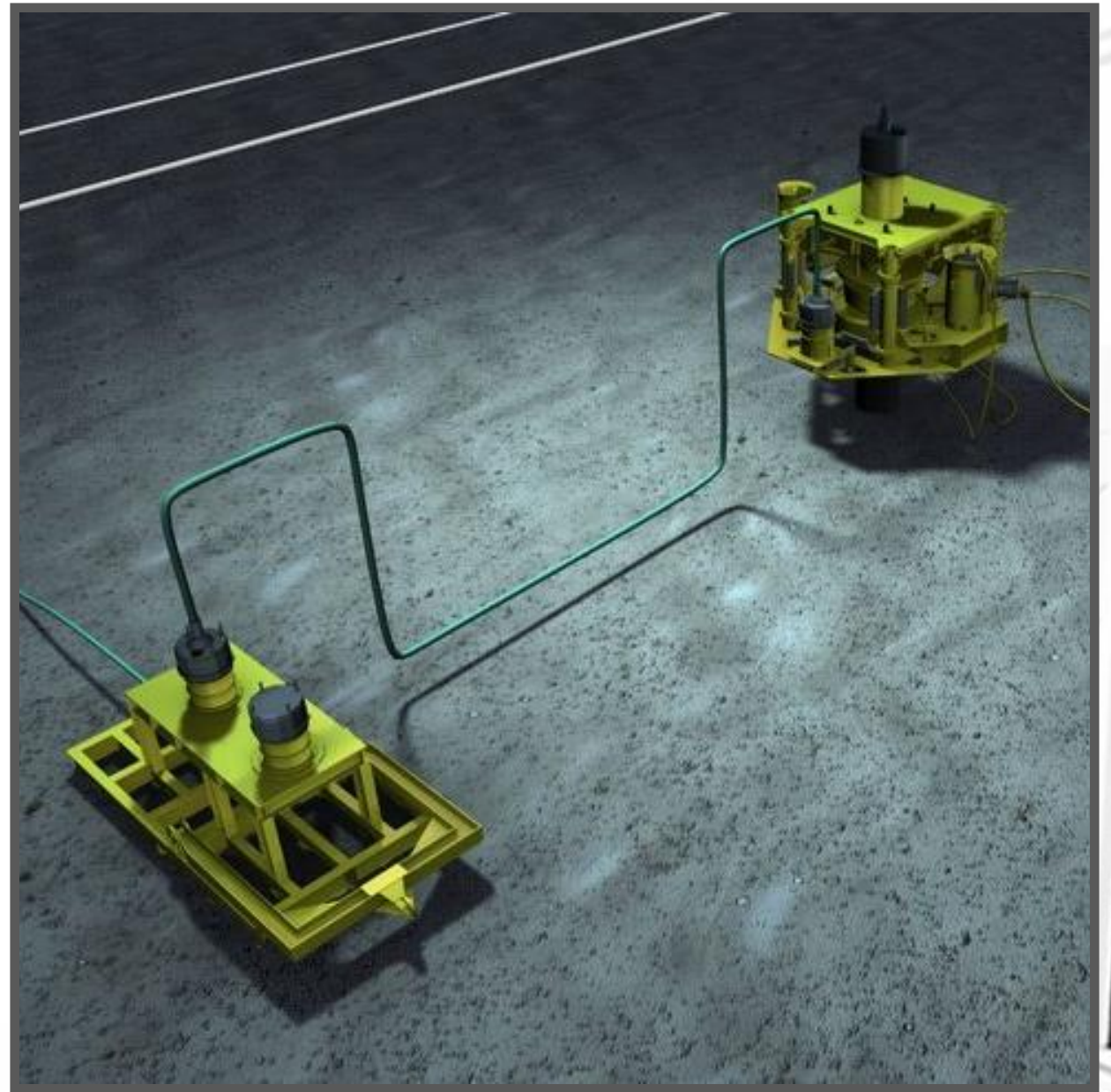


# Structural works (300T)





# Fabrication of Rigid Jumpers



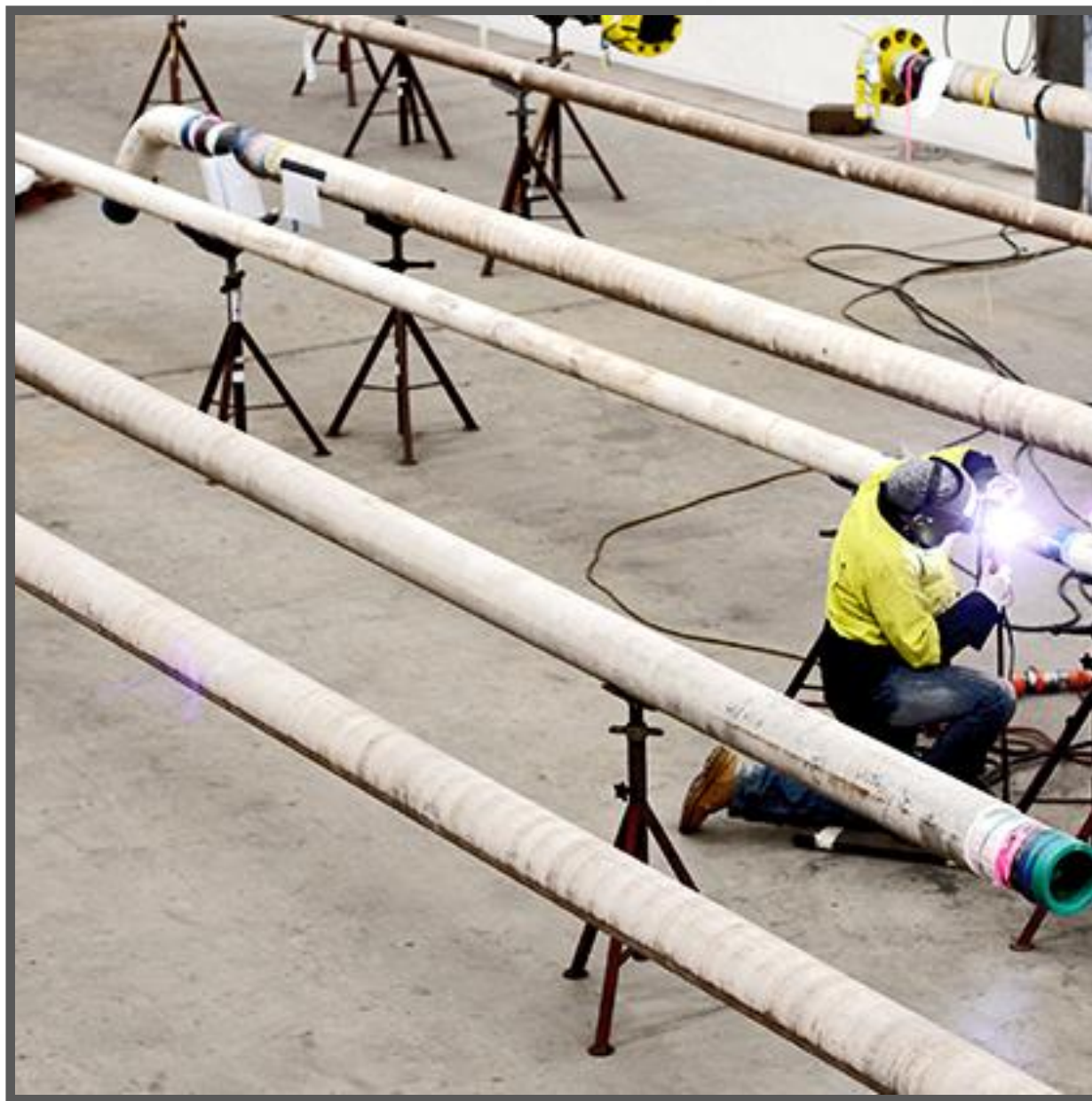


# Fabrication of Subsea Modules





# Fabrication of Heavy piping





# Pipeline Pigging and Inspection





# Torqueing and Tensioning





# GAS processing

gas  
processing



Installation of LNG Gas processing skids and interconnecting piping  
for the regulatory and metering station





# hdpe

## HDPE PIPING WORKS



HDPE piping and Support works for the Sea Water Line from Abodze thermal power plant (TTPP 1) sea water pump-house to Heat Exchangers for cooling of condensate lines of the HVAC system.



HDPE piping works at the Mines



HDPE works for fresh water pump station at Kpone thermal KTPP



# structural works





# equipment installations





# compressors

## COMPRESSOR AIR systems



Installation works at the compressed air station at KTHP





# compressors

## COMPRESSOR AIR systems



compressor air system works at KTPP



# fire

## FIRE fighting



Fire fighting pump station for KTTT



Fire fighting pump station for KTTT





Installation of interconnecting pipes for foam station and the deluge valve assembly



Step-up Transformer for gas Turbine-1



# MINING plant

# mining plants





# MINING plant

# mining plants





# tanks

## TANK erection





# SAND blasting



sand blasting of fabricated  
pipe sleepers, cable racks  
and base plates





# insulation

## INSULATION



Lagging  
and cladding  
of pipes, vessels,  
boilers, etc. at  
Tema oil refinery





# insulation

## INSULATION



Insulation for mining works in Burkina-faso, West Africa.



Insulation works at Adamus Mines, Nzema, Ghana



# power plants

## THERMAL POWER plant



Kpone Thermal Power Project KTPP 1  
Installation Of Interconnecting Piping For all the systems connecting Gas Turbine 2



Installation of measurement and blow-off system piping to gas turbine 2





# power plants

## THERMAL POWER plant



Kpone Thermal Power Project KTPP 1  
Installation Of Interconnecting Piping For the cooling tower of Gas Turbine 2



Installation of cooling water piping  
to the generator of Gas Turbine 2



Installation of cooling water piping  
to the gear box of Gas Turbine 2





# power plants

## THERMAL POWER plant



Kpone Thermal Power Project KTPP 1  
Installation Of lube oil Piping from auxilliary block to the generator, gear box, manifold and diffuser of Gas Turbine 2



Kpone Thermal Power Project KTPP 1  
Installation Of lube oil Piping For the generator, gear box, manifold and diffuser of Gas Turbine 2





# power plants

## THERMAL POWER plant



Kpone Thermal Power Project KTPP 1  
Installation Of fuel-oil, fuel-gas, nox-water and hydraulic oil Piping to the combustion chamber of Gas Turbine 2



Kpone Thermal Power Project KTPP 1  
Installation of fuel-oil, fuel-gas and nox-water piping to the auxiliary block to the combustion chamber of Gas Turbine 2



Kpone Thermal Power Project KTPP 1  
Installation of fuel-gas piping to fuel-gas skid of Gas Turbine 2



Kpone Thermal Power Project KTPP 1  
Installation of fuel-oil, fuel-gas and nox-water piping to the auxiliary block to the combustion chamber of Gas Turbine 2



Kpone Thermal Power Project KTPP 1  
Installation of fuel-gas piping from fuel-gas skid to the auxiliary block of Gas Turbine 2



### **3.0 Business Portfolio**

Our expertise in Electric Power Generation, Transmission and Distribution covers the following key areas:

#### **3.1 *Project Development***

- Feasibility Studies
- Front End Engineering (Basic Designs)
- Technical Specifications Preparation
- Tender Document Preparation

#### **3.2 *Detailed Designs***

##### **3.2.1 *Transmission/ Distribution Lines***

- Transmission Line route selection studies
- Survey and digital terrain modeling
- Overhead Power Transmission Line Designs
- Detailed design of Structures and Foundations

##### **3.2.2 *Substation Civil Designs***

- Civil works layout and details
- Boundary and Drainage works
- Analysis and design of Equipment Foundations
- Analysis and design of Support Structures
- Architectural, Civil and Structural design of Control Buildings

##### **3.2.3 *Power Plant Civil Designs***

- Access and Station Roads including Culverts and Bridges
- Site Drainage/ Embankment & Boundary Works
- Equipment Foundations
- Non-Technical and Technical Buildings
- Steel Structures
- Concrete Water Tanks
- Fuel Tank Foundations and Bund-Walls

#### **3.3 *Project Management***

- Employer's Project Manager (Owner's Engineer)
- Contractor's or Sub-contractor's Project Manager
- Engineering, Procurement & Construction Management (EPCM)



### **3.4     *Technical Training***

- PLSCADD Basic Training
- PLSCADD Advanced Training
- PLS-Tower Training
- PLS-Pole Training
- Fundamentals of Overhead Transmission Line Design & Construction
- Elements of Substation Civil Design
- Practical Application of Microsoft Project in Proposal Preparation and Project Management.

### **3.5     *Technical Advisory Services***

- On projects to Lending Institutions (Banks, Donor Agencies)
- To Project Proponents/Sponsors
- To Government Ministries and Departments on unsolicited proposals for projects in the power industry.
- To civil society organizations representing Project Affected Persons (PAPs)
- To state institutions charged with a specific responsibility in the electric power industry

### **3.6     *Technical Services***

- Medium to High Voltage Equipment Installation and Commissioning Services
- Medium to High Voltage Equipment Testing and Maintenance Services



## **4.0 Quality Procedure and Assurance**

Power Consult aims at providing maximum quality service to its clients. The company believes that maximum quality service will be achieved through the timely completion of work to the standard and cost agreed with client. It has therefore taken various initiatives towards Total Quality Management. The companies Quality Assurance Handbook which provides Power Consult Staff with readily available references for conduct of their work is one of such initiatives.

## **5.0 Power Consult Work Experience**

### **5.1 Transmission Line Works**

- Liberia Accelerated Electricity Expansion Project – Upgrade of PaynesvilleKakata Transmission Line to ensure safe operation. Analysis, using PLS-Tower, to increase the utilizable height of the existing towers and analysis of the impact of the upgrade in height on the existing foundations. Provision of an optimum design solution for an upgrade of both the structures and foundations to ensure safe operation of the line. Re-spotting, using PLS-CADD, of 66kV Overhead Transmission Line using a combination of lattice and monopole steel towers to ensure safe operation. – July to December 2018
- Volta-Achimota Transmission Line Project – 161kV Overhead Transmission Line Design including Tower spotting using PLS-CADD, detailed design of foundations for family of towers and design of special gantry tower with foundations for Sieyuan Electric Company Limited of China. – October 2017 to December 2018
- Engineering, Design, Procurement Support and Construction Management of a 6km Double Circuit 161kV Overhead Transmission Line Grid Connection to 370MW AKSA Power Plant in Tema, Ghana for AKSA Energy Ghana Limited – Feb 2017 to September 2018.
- Prestea-Kumasi Power Enhancement Project - Tower spotting of 330kV lattice steel tower power line (185km) and tower foundation designs for GS Engineering and Construction Corporation of Korea – Sept 2015 to July 2017.
- Power Supply to Export Processing Zone - Tower spotting of 11.5kV lattice steel tower power line (10km), equipment specification and tower foundation designs – Dec 2006
- Wexford Power Project – Design and Construction of 161kV latticed steel tower power line (50km) – Nov. 2004
- Sawla Substation Project – Design and Construction 34.5kV latticed steel tower power line (5km) – April 2001
- Aflao Substation Project – Design and Construction of 34.5Kv latticed steel tower power line (1.8km) – April 2000



## **5.2 Substation Works**

- Volta-Achimota Transmission Line Project – Detailed design of control building expansion and substation gantry towers and foundations for Sieyuan Electric Company Limited of China. – October 2017 to date
- Prestea-Kumasi Power Enhancement Project – Design of 330/161kV substation civil works, equipment foundations and buildings for GS Engineering and Construction Corporation of Korea – Sept 2015 to July 2017
- Akosombo, Winneba & Kumasi Substations Upgrade Project - Design of Substation Civil Works, Equipment Foundations and Steel Structures – March 2009
- Relocation of Tarkwa Substation Project (Gold Fields Ghana Ltd.) - Design and Specification of 161kV Power line Diversion Works – April 2007
- Power Supply to Export Processing Zone - Design of 11.5kV substructure civil works – Dec 2006
- Ahafo Project - Designed substation civil works, steel structures, electromechanical layout/sections, control, protection and metering schematic diagrams for Sunyani and Kumasi substation works – June 2006
- Wexford Power Project - Designed substation civil works, electromechanical layout/sections, control, protection and metering schematic diagrams – Nov. 2004
- Prestea-Oboasi Transmission Line Project – Design of substation civil works, steel structures, electromechanical layout/sections, control, protection and metering schematic diagrams – March 2002 – June 2004
- Sawla Substation Project – Design of civil works, structures, foundations and buildings – April 1998

## **5.3 Power Station Works**

- Tema Thermal 1 Power Project - Structural analysis and design of 4,100m<sup>3</sup> raw water tank. – March 2007
- Structural analysis and design of Plant main buildings including offices, workshops, warehouses and laboratories. – March 2007

## **5.4 Feasibility Studies**

- Pre-Feasibility Study for 15MW Grid - Connected Solar or Wind Power Project in the Republic of Ghana for Cape Tano Oil Limited – Oct. 2011
- Feasibility Studies “Connection of Ayanfuri Gold Plant to the National Grid (GRIDCo)” for Central Ashanti Gold Limited – June 2009



## **5.5 Technical Services**

- Oil Treatment and Pre-Commissioning of 161/11.5kV 53MVA Transformer at Newmont site, Kenyase – September 2019

## **6.0 Key Personnel and Resource Persons**

### **6.1 Permanent Staff**

- Francis Yao Agbenyo (MSc. Civil/ Structural Eng.) - Principal Consultant/CEO
- Dave Dodzi Hatsu (Bsc. Civil Eng.) - Consultant
- Takyi- Botchway Eunice (Bsc. Civil Eng.) - Civil Engineer
- Gloria Eyram Agbenyo - Personal Assistant

### **6.2 Resource Persons**

- Norbert Cormla-Djamposu Anku - Principal Consultant (Electrical)
- Christian Nimako-Boateng - Telecommunications/SCADA Consultant
- John Kwaku Amaglo - Principal Consultant (Geodetic)

In addition, a pool of Resource Persons and Subcontractors exist on Power Consult Register to complement our capability at any time the need arises. This Register is constantly being updated.

## **7.0 List of Previous, Current and Potential Clients**

### **7.1 Power Utilities**

- Liberia Electricity Corporation
- Electricity Company of Ghana
- Northern Electricity Department Company
- Ghana Grid Company Limited
- Volta River Authority
- Equivalent Power Utilities within West Africa & African Sub region

### **7.2 Ministries, Departments & Agencies (MDAs)**

- Ministry of Energy
- Millennium Development Authority
- West African Power Pool Secretariat
- Ghana Energy Development and Access Project Secretariat
- Ghana National Gas Company
- Ghana National Petroleum Corporation



### **7.3     *EPC Contractors & Sub-Contractors***

- EnI – Zest Weg Group Ghana Limited
- MBH Power Private Limited of India
- Sienna Services Limited
- Sieyuan Electric Company Limited of China
- Amandi Investments Limited of Israel
- GS Engineering & Construction of Korea
- IbisTek Limited of Ghana
- Eiffage of France

### **7.4     *Banks & Funding Agencies***

- Fidelity Bank
- World Bank
- KfW Group
- African Development Bank

### **7.5     *Residential and Industrial Estate Developers***

- Regimanuel Gray Limited
- Appolonia City
- International Land Developers Company Limited

### **7.6     *Investors (e.g. Mining Companies) Requiring Power from the Grid.***

- Asanko Gold Ghana Limited
- Newmont Ghana

### **7.7     *Independent Power and Gas Producers and Distributors***

- Hanergy Holding Group
- AKSA Energy Company Ghana Limited
- Enclave Power Company, Tema, Ghana.
- EnI – Zest Weg Group Ghana Limited







# oil&gas

## OIL AND GAS projects



Interconnecting piping for fuel storage tanks of the bulk storage depot GOIL, Takoradi



Installation of Interconnecting piping for the LNG receiving, regulation and metering station KTRP



# oil&gas

## OIL AND GAS projects



Interconnecting piping for fuel storage tanks of KTPP



Laying of 20"  
LNG pipeline



Interconnecting piping at GOIL bulk oil  
storage facility, Takoradi



Refurbishment of storage tanks at  
Tema Oil Refinery, Tema





# POWER PLANT projects

No.	DESCRIPTION OF CONTRACT	CLIENT	DURATION	PERIOD
1.	Installation of interconnecting piping of the twelve systems of the Gas turbine and the Balance of Plant piping at the Kpone Thermal Power Project. Subcontractor to the main contractor-Zakhem	V.R.A	On-Going	
2.	Site fabrication and installation works of the water treatment plant of the T3 Thermal Power Project (TTPP) Subcontractor for the main contractor S&W Energy Solutions.	S & W Energy Solutions Inc.	Completed	2012
3.	Installation of Balance of Plant (BOP) piping works for the Aboadze thermal power plant (TTPP1). Subcontractor for Stone and Webster/Gecad	Volta River Authority	Completed	1997
4.	Installation of inlet and outlet piping for sea-water intake basin and sea water pump- house; for the cooling system of T1 and desalination plant. Subcontractor for Stone and Webster/Gecad	Volta River Authority	Completed	1997





# OIL&GAS projects

NO	DESCRIPTION OF CONTRACT	CLIENT	DURATION	PERIOD
1	Fabrication and installation of interconnecting, process, and firefighting piping systems for TAK DEPOT 1 BULK FUEL STORAGE (Subcontractor for the main contractor Zakhem)	UBI/PUMA ENERGY	On-Going	2014/2015
2	Fabrication and installation of interconnecting, process, piping systems for AIRPORT BULK FUEL DEPOT- UBI/PUMA ENERGY. (Subcontractor for the main contractor Zakhem)	UBI/PUMA ENERGY	Completed	2014
3	Design of mobile LPG Metering Skid System for Takoradi port	BOST	Completed	2011
4	Design and commencement of centralized domestic LPG gas system for private hostels at University of Ghana, Legon Campus. Connecting 843 hostel rooms with LPG piping from LPG cylinder banks connected to cookers in various rooms with leaked sensors and cut-off alarm	GHANA HOSTELS/ SSNIT	On-hold	2010/2011
5	Replacement of worn out bottom plate of kerosene storage tank No. 19 - 20m diameter height - 10m.	TEMA OIL REFINERY	Completed	1985
6	Replacement of bottom plate, roof and pantoon of crude oil tank No. 55 and 60 diameter - height 20m	TEMA OIL REFINERY	Completed	1988
7	Refurbishment of fuel storage tanks Replacement of bottom plate, Re-erection of damaged pantoon and roof. Crude oil tank No. 52 - 60m and height 20m.	TEMA OIL REFINERY	Completed	1990
8	Refurbishment of fuel storage tanks Replacement of bottom plate of fuel storage tank 5 - 40m diameter and height 15m sandblasting and painting of interior and exterior.	TEMA OIL REFINERY	Completed	1992
9	Petroleum distribution and rehabilitation project World Bank/IDA project. Refurbishment of Fuel Storage Depot at Takoradi -, construction of 10km pipeline and fittings	GHANA OIL COMPANY - (GOIL) PHASE 1	Completed	1994/95



# OIL&GAS projects

10	Relocation of portion of 10" and 6" Cargo line from Takoradi Harbor to GOIL depot.	<b>GHANA OIL COMPANY (GOIL)</b>	Completed	1996
11	Modification of design of interconnecting piping, meters, valve, strainers from storage tanks to loading racks Kumasi and Buipe Bulk Fuel Storage Depots	<b>BULK OIL STORAGE AND TRANSPORT</b>	Completed	1998
12	Expansion works at Bolgatanga Bulk Fuel Storage Depot	<b>BOST</b>	Completed	1999





# FIRE-FIGHTING projects

NO	DESCRIPTION OF CONTRACT	CLIENT	DURATION	PERIOD
1	Installation of Firefighting system with Deluge valves and accessories for foam station, step-up transformer 1 & 2, control building, fuel storage tank farm and raw fuel tank farm for the Kpone Thermal Power Plant (KTPP) Subcontractors for Main contractors ZAKHEM	VRA	Completed	2015
2	Installation of Firefighting water pump station, with filling and discharge water interconnecting piping for the main water reservoir of the Kpone Thermal Power Plant (KTPP) Subcontractors for Main contractors ZAKHEM	VRA	Completed	2014
3	<b>INSTALLATION OF FIRE FIGHTING SYSTEM:</b> Sprinkler system, Hose reel system, Dry riser and hydrants and Water pump station, for airport marriots international hotel airport city square	Airport Marriots Int. Hotel	Completed	2009
4	Installation of a complete Firefighting system for eleven storey Ghana Ports and Harbour Authority Head Office- Fire pump station, Hose reel system, dry risers and hydrants, and 3080 sprinkler heads	Ghana Ports and Harbour Authority		2008/ 2009
5	Installation of main firefighting and deluge system for the Aboadze Thermal Power Project (TTPP1).	VRA	Completed	1997
6	Construction of a 6" and a 3" firefighting system for the BULK FUEL STORAGE at Takoradi depot.	Ghana Oil company – (GOIL) Phase 2	Completed	1996





# WATER TREATMENT projects

NO	DESCRIPTION OF CONTRACT	CLIENT	DURATION	PERIOD
1	Site fabrication and installation works of the water treatment plant of the T3 Thermal Power Project (TTPP)  Subcontractor for the main contractor S&W Energy Solutions.	S & W Energy Solutions Inc.	Completed	2012
2	Design of an alternative portable water supply system for Ghana Hostels at University of Ghana Legon campus using bore hole banks and reverse osmosis (RO) equipment of GE (General Electric) water RO equipment	Ghana Hostels/ SSNIT	On-hold	2011
3	Installation of interconnecting piping and equipment of the water treatment facility for the Abodze thermal power plant (TTPP1)  -Interconnecting piping to demineralized water tanks, chlorination skid, anion and cation skids, sand filters, acid and alkaline skids and regenerating pump skids.  Subcontractor for the main contractor Stone and WEBSTER/GECAD	VRA	Completed	1997





# BUILDING services

NO	DESCRIPTION OF CONTRACT	CLIENT	DURATION	PERIOD
1	<p>Installation of all plumbing systems for the eleven storey Ghana Ports and Harbour Authority Head Office</p> <ul style="list-style-type: none"> <li>-22 washrooms with 22 Geberit disabled WC with sensors</li> <li>-88 normal Geberit WCs with sensors</li> <li>-Mirrors, automatic hand dryers, etc.</li> <li>-Hot and cold water supply system with roof top water tank and underground water reservoir.</li> <li>-Complete waste water and sewage water piping for the whole building and compound.</li> </ul> <p>Subcontractor for the main contractor Dizengoff Ghana Limited</p>	Ghana Ports and Harbor Authority	Completed	2008/2009
2	<p><b>REHABILITATION OF HEATING VENTILATIONS AND AIR CONDITION SYSTEM</b> for Takoradi Thermal Power Plant –</p> <p>Installation of chillers, heat exchanges submersible pumps filter, fan coil units with the Interconnecting pipelines, fittings, ancillaries: instrumentation and controls insulation and cladding.</p> <p>Subcontractor for the main contractor Dizengoff Ghana Limited</p>	VRA	Completed	2006 – 2007



# BUILDING services

3	<p><b>KOTOKA INTERNATIONAL AIRPORT PHASE 2 EXPANSION</b></p> <p>All Mechanical Services –</p> <p>Heating, Ventilation, plumbing and air - conditioning work, installation of chillers, pumps, air handling unit, heaters, fan coil units, firefighting system, hot and cold water system, pipeline, insulation and cladding.</p> <p>Subcontractor for the main contractor Dizengoff and Skanska Ghana Limited</p>	Ghana Civil Aviation Authority	Completed	2001/2002
4	<p><b>EXPANSION WORKS FOR MECHANICAL SERVICES</b> – air conditional system for British High Commission Accra Office</p>	British High Commission	Completed	2003
5	<p>Installation of 3No submersible pump into a ten - meter deep sea-water intake basin and construction of inlet and out let piping to supply sea-water to cool heat exchangers that is cooling the condensate water from the fan coil of the air conditioning system at Aboadze thermal power plant</p> <p>Subcontractor for the main contractor Dizengoff Ghana Limited</p>	VRA	Completed	2006



# OTHER KEY projects

NO	DESCRIPTION OF CONTRACT	CLIENT	DURATION	PERIOD
1	Steel Fabrication and erection works Under the Aluworks Expansion Project-Sub contractor of KuoTTam for the construction of 200tons of steel structures.	Aluworks	Completed	1991
2	Fabricating bathing tanks, installation of Aluminum extraction plants, expansion works.	Ghana Aluminum Product	Completed	1993/94
3	Relocation of 20" and 15 " water pipeline – 1 0 km	GSWC Takoradi	Completed	1996
4	Fabrication and installation of sand plant for 280 tons of sand and accessories	Western Casting Takoradi	Completed	1996/1997
4	Structural works for warehouse and factory and installation of manufacturing equipment and pipelines.	Western castings takoradi	Completed	1999 – 2000
6	Fabrication and installation of stanchion trusses and purlins in the construction of the church building	Love Tabernacle Church	Completed	2003
7	Fabrication of transmission towers, installation of generators and piping and fabrication of steel tanks for Ghana Telecom – subcontractors for Dizengoff	Ghana Telecom	Completed	2004/2007
8	Installation of Pumps and fabrication of Inter-connecting pipes for Ghana Rubber Estate irrigation project. – subcontractors for Dizengoff	Ghana rubber estate limited	Completed	2005
9	Installation of security doors, fire alarm, solar panel and roofing sheets for various projects.	Dizengoff	completed	2004–2006
10	Erection 10,000 litres and 25,000 litres water storage tanks.	Dizengoff	completed	2005



# POWER PLANT projects

No.	DESCRIPTION OF CONTRACT	CLIENT	DURATION	PERIOD
1.	Installation of interconnecting piping of the twelve systems of the Gas turbine and the Balance of Plant piping at the Kpone Thermal Power Project. Subcontractor to the main contractor-Zakhem	V.R.A	On-Going	
2.	Site fabrication and installation works of the water treatment plant of the T3 Thermal Power Project (TTPP) Subcontractor for the main contractor S&W Energy Solutions.	S & W Energy Solutions Inc.	Completed	2012
3.	Installation of Balance of Plant (BOP) piping works for the Aboadze thermal power plant (TTPP1). Subcontractor for Stone and Webster/Gecad	Volta River Authority	Completed	1997
4.	Installation of inlet and outlet piping for sea-water intake basin and sea water pump- house; for the cooling system of T1 and desalination plant. Subcontractor for Stone and Webster/Gecad	Volta River Authority	Completed	1997





# ACCREDITATIONS & attestations

CS547882015



C0004507096

*Old TIN*

*Old RGD Number*

**C-55,165**

*Incorporation Date*

**05/05/1994**

## Certificate of Incorporation

**I hereby certify that**

**AB ENGINEERING COMPANY LIMITED**

is this day incorporated under the Companies Act, 1963 (Act 179) and that the liability of its members is limited.

Given under my hand and official seal at Accra, this 16<sup>th</sup> day of January 2015



A handwritten signature in black ink, appearing to read 'B. B. B.', written over a horizontal line.

For: Registrar of Companies



# ACCREDITATIONS & attestations

CS547882015



C0004507096

*Old TIN*

*Old RGD Number*

**C-55,165**

*Old Commencement Date*

**06/05/1994**

**The Companies Act, 1963, Act 179**

## Certificate To Commence Business

**I hereby certify that**

**AB ENGINEERING COMPANY LIMITED**

having complied with the provisions of Sections 27 and 28 of the Companies Act, 1963, Act 179 is entitled to commence business with effect from **16<sup>th</sup> day of January 2015**

Given under my hand and official seal at Accra, this 16<sup>th</sup> day of January 2015

A handwritten signature in black ink, appearing to read 'H. B. ...', written over a horizontal line.

For: Registrar of Companies



# ACCREDITATIONS & attestations



## GHANA INSTITUTION OF ENGINEERS

Engineers Centre, 13 Continental Road, Roman Ridge, Accra, P. O. Box AN 7042, Accra-North, Ghana

Telephone Nos: +233-30-2760867-9, +233-28-9673964, +233-28-9529403-Fax: +233-30-2772005

Email: secretariat@ghie.org.gh, ghiecentre@yahoo.com, Website: www.ghie.org.gh

GhIE/CEF07018


July 25, 2014

### LETTER OF ATTESTATION

We confirm that AB Engineering Company Limited is registered with the Ghana Institution of Engineers (GhIE) as an Engineering Contracts & Consulting firm for the year 2014.

The firm is of good standing and is recommended for any assistance that it may require.

The Registration expires on **December 31, 2014.**

  
Ing. George K.A. Essandoh, MGHIE, LLB, BL  
Executive Secretary



# ACCREDITATIONS & attestations



## GHANA INSTITUTION OF ENGINEERS

REGISTRATION OF  
CONSULTING ENGINEERING FIRMS

**This is to certify that**

**AB ENGINEERING COMPANY LIMITED**

*has this day been registered  
to practise for the year ending*

*.....December 2014.....*

**Engineering Contracts**

SPECIALIZATION

President

Executive Secretary

Dated **25/7/2014**

Registered No **CEF07018**



# ACCREDITATIONS & attestations

## GHANA REVENUE AUTHORITY (GRA)

8116419

F 0011902



### CERTIFICATE OF REGISTRATION FOR VALUE ADDED TAX (VAT) \*TIN C 0 0 0 4 5 0 7 0 9 6

This is to certify that

*AB ENGINEERING COMPANY LIMITED*

*has been duly registered as an  
agent for VAT collection  
under*

**THE VALUE ADDED TAX ACT 1998  
(ACT 546)**

Dated this 20th day of JANUARY 2015

  
\_\_\_\_\_  
GEORGE BLANKSON  
COMMISSIONER GENERAL



\* TIN (Taxpayer Identification Number) should be quoted on all tax invoices, receipts and correspondence

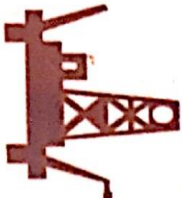


PC/FIGC/ 0000630 /A/11-18R



Republic of Ghana

PETROLEUM COMMISSION



# REGISTRATION PERMIT

FULLY INDIGENOUS GHANAIAN COMPANY

I hereby certify that

## **AIB ENGINEERING COMPANY LIMITED**

has been duly registered as a **Fully Indigenous Ghanaian Company** in accordance with the Petroleum Commission (Fees and Charges) Regulations, 2015 (L.I. 2221) and issued a Registration Permit to undertake the following:

- (a) **Onshore / Offshore Pipeline Services**
- (b) **Major Construction Services**

Dated this day **November 28, 2018** and valid until **November 27, 2019**

Chief Executive Officer  
Petroleum Commission



18/ 0005761

MWH/CERT. No ... 49500<sup>A</sup>

REPUBLIC OF GHANA

# MINISTRY OF WORKS AND HOUSING CERTIFICATE OF CLASSIFICATION

*This is to Certify that*

**MESSRS AB ENGINEERING COMPANY LIMITED**

**ADDRESS P.O. BOX 11517, TEMA**

**HAS/HAVE BEEN CLASSIFIED AS RE DW**



CATEGORY	DESCRIPTION	FINANCIAL CLASS
<b>D</b>	<b>GENERAL BUILDING WORKS</b>	<b>1 HOUR OVER \$500,000</b>
<b>K</b>	<b>CIVIL WORKS</b>	<b>1 HOUR OVER \$500,000</b>

**VALID UNTIL 11TH JULY 2020**

*[Signature]*  
**CHIEF DIRECTOR**

**MINISTER**

**DATE OF ISSUE 14TH JUNE, 2019**



Incase of reply the number  
and the date of this  
letter should be quoted

Our Ref. No.:...LTE.8/SF.1/V.13/89

Your Ref. No.:.....



REPUBLIC OF GHANA

LABOUR DEPARTMENT  
P. O. BOX MB55  
ACCRA

Date: 9<sup>TH</sup> MAY, 2016



0013959

TO WHOM IT MAY CONCERN

LABOUR CLEARANCE CERTIFICATE

This is to certify that MESSRS: **AB ENGINEERING COMPANY LIMITED**

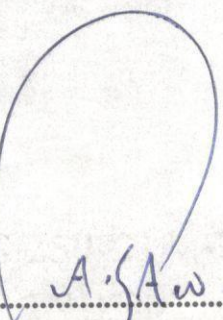
**P. O. BOX CE 11517, TEMA**

have ascertained from the Department all requirements and regulations affecting workmen in this country.

It is also certified that, as at the date of Certification there is no record of violation of any of the Labour Laws by the Contractor, particularly regarding payment of Wages, Workmen's Compensation and Hours of work.

**CONTRACT FOR WHICH CERTIFICATE IS ISSUED:**

**CONSTRUCTION OF 1350 METERS LONG 250 DIAMETER  
GAS SUPPLY PIPELINE FOR THE KPONE INDEPENDENT  
POWER PROJECT.**

  
.....  
CHIEF LABOUR OFFICER  
(ALEX AWOTWI)

METRO LABOUR OFFICER

TEMA

NOTE: You are required to submit returns on Employment Generation relative to this particular contract within 30 days after the award of this Contract.



Incase of reply the number  
and the date of this  
letter should be quoted

Our Ref. No.:...LTE.8/SE.1/V.13/88

Your Ref. No.:.....



REPUBLIC OF GHANA

LABOUR DEPARTMENT  
P. O. BOX MB55  
ACCRA

Date: 9<sup>TH</sup> MAY, 2016



0013958

**TO WHOM IT MAY CONCERN**

**LABOUR CLEARANCE CERTIFICATE**

This is to certify that MESSRS: **AB ENGINEERING COMPANY LIMITED**

**P. O. BOX CE 11517, TEMA**

have ascertained from the Department all requirements and regulations affecting workmen in this country.

2. It is also certified that, as at the date of Certification there is no record of violation of any of the Labour Laws by the Contractor, particularly regarding payment of Wages, Workmen's Compensation and Hours of work.

**CONTRACT FOR WHICH CERTIFICATE IS ISSUED:**

**BD ASSOCIATE GHANA LIMITED FACTORY EXPANSION  
PROJECT.**

**CHIEF LABOUR OFFICER**

**NOTE: You are required to submit returns on Employment Generation relative to this particular contract within 30 days after the award of this Contract.**

**METRO LABOUR OFFICE**

**TEMA**



Incase of reply the number  
and the date of this  
letter should be quoted

Our Ref. No.:...LTF-8/SE-1/V-13/90

Your Ref. No.:.....



REPUBLIC OF GHANA

LABOUR DEPARTMENT  
P. O. BOX MB55  
ACCRA

Date: 5<sup>TH</sup> MAY, 2014



0013963

TO WHOM IT MAY CONCERN

LABOUR CLEARANCE CERTIFICATE

This is to certify that MESSRS: **AB ENGINEERING COMPANY LIMITED**

**P. O. BOX CE 11517, TEMA**

have ascertained from the Department all requirements and regulations affecting workmen in this country.

2. It is also certified that, as at the date of Certification there is no record of violation of any of the Labour Laws by the Contractor, particularly regarding payment of Wages, Workmen's Compensation and Hours of work.

**CONTRACT FOR WHICH CERTIFICATE IS ISSUED:**

**KPONE THERMAL POWER PROJECT – PHASE 1**

- (a) INTERCONNECTING PIPING FOR GAS TURBINE 2
- (b) INTRECONNECTING PIPING FOR ALL BALANCE OF PLANT(BOP)
- (c) STRUCTURAL, PIPE SHEEPERS AND RACK WORKS  
2014- 2015

  
CHIEF LABOUR OFFICER

METRO LABOUR OFFICER

TEMA

NOTE: You are required to submit returns on Employment Generation relative to this particular contract within 30 days after the award of this Contract.



# WHY **AB** ENGINEERING?



Regional  
expertise /  
world-class  
capabilities



One of the first engineering contracting firms to solely handle maintenance works for oil companies in the 80's and the 90's (GOIL World bank expansion project) oil and gas, power generation, and structural works



Leading-edge  
construction  
technology



Proficiency in the usage of modern instruments and machines for executing works in conjunction with various multi-national companies in various projects in oil and gas, power generation, mining, water treatment project and structural works



Most highly  
trained and  
dependable  
workforce



We execute projects to specification and within schedule for over 100 projects We have work for various clients with less supervision and also boast of a 20 year track record of no labour agitation and major accidents on over 100 projects



Proven results:  
on time & on  
budget



100% project completion within budgets and schedule for over 100 projects in the past 20 years.

100% retention claims on warranties we have given for work done on various systems.

Defect rates for all testing and inspections on various projects within minimum tolerance and levels.



One stop-  
shop for  
achieving your  
project's full  
potential



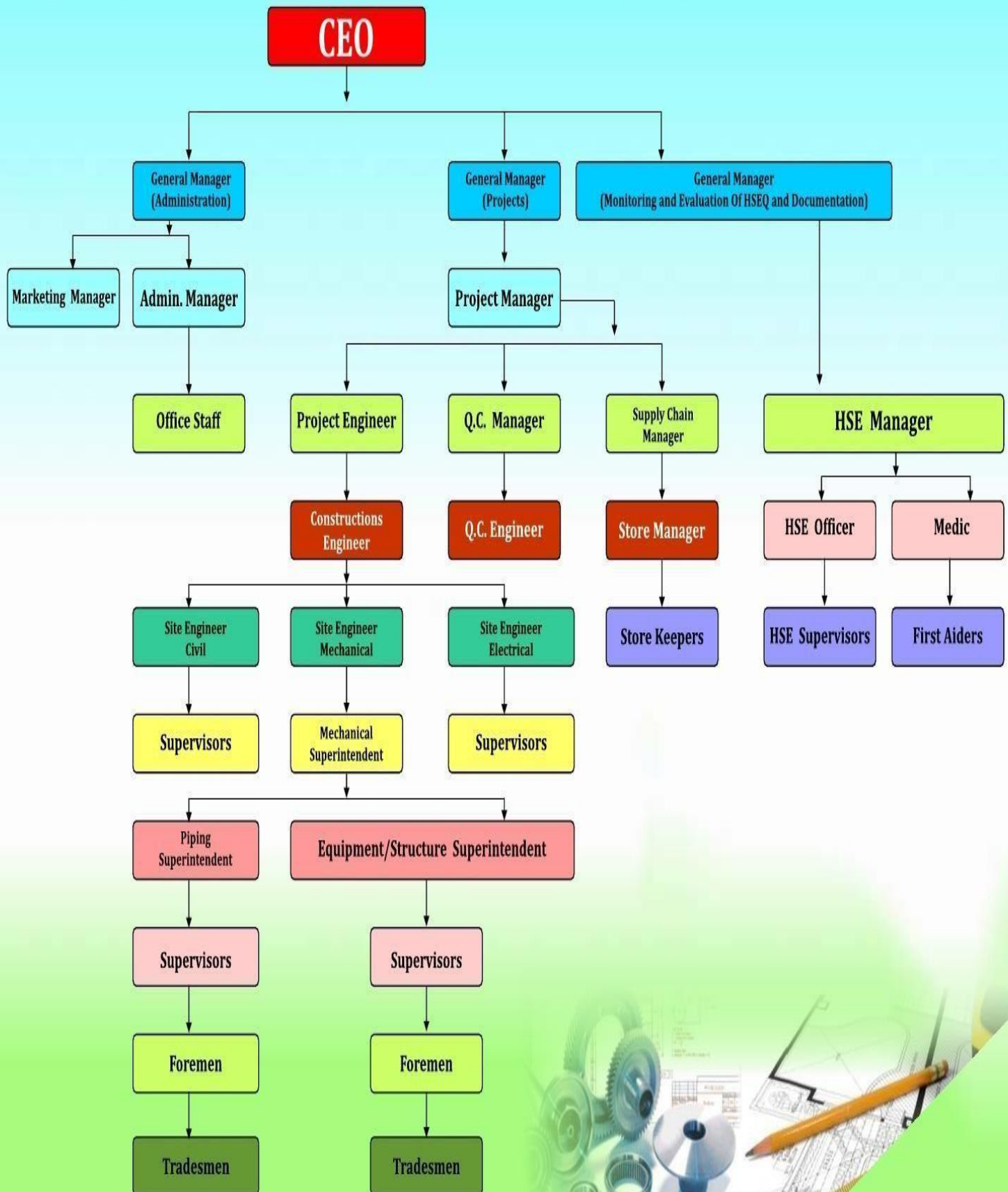
We have capacity in Engineering, Procurement and Construction. Our Safety, environment and quality capacity is equal to required international standards.

We are highly recommended by regulatory bodies therefore we have advantage in accessing local permits and certification





# ORGANIZATIONAL CHART





**Power Generation**

1. Mr. Francis Agbenyo  
Project Manager  
Volta River Authority KTPP  
Project 0245766331  
[f\\_agbenyo@yahoo.com](mailto:f_agbenyo@yahoo.com)
2. Mr. Richard Oppong Mensah  
Director of Generations  
Volta River Authority  
0202026887
3. Mr. Isaac Bedu  
Project Manager  
Volta River Authority  
Engineering School Akuse  
0203300863  
[Isaac.bedu@vra.com](mailto:Isaac.bedu@vra.com)
4. Mustafizur Rahman  
P  
Construction Manager  
Zakhem Construction GH Ltd KTPP  
Project  
[mostafiz\\_engr@yahoo.com](mailto:mostafiz_engr@yahoo.com)

**Oil Fuel Depot and Structural Works, HDPE Works, Sandblasting And Painting**

5. Mr. Rabih Abi Saab  
Project Manager  
Zakhem Construction Gh Ltd  
0242188397  
[rabih.abisaab@gmail.com](mailto:rabih.abisaab@gmail.com)
6. Charbel Saliba  
Construction Manager  
Zakhem Construction Gh Ltd  
Takdepot 1 Project 0548490264  
[csaliba@zakhem.com.gh](mailto:csaliba@zakhem.com.gh)
7. Nana kondua Dickye  
Project Coordinator UBI/PUMA energy  
0204610377 [godwin.dikye@ubigroup.com](mailto:godwin.dikye@ubigroup.com)



## **Manufacturing Food Processing Beverage Industry (Maintenance And Expansion Works)**

8. Mr John Menaku Anakwa  
Chief Operating Officer and Project Manager  
Factory Expansion  
B.D. Associates Ghana Ltd  
0244769740  
[jmanakwa@chocomac.com](mailto:jmanakwa@chocomac.com)

9. Shaul Hamtsani  
General Manager  
Ranan Fish feed Ltd  
0544342638  
shaulh@raananfishfeed.com

## **Building Services (Air-Condition, Plumbing, Ventilation And Heating, Fire Fighting)**

10. Eric Adatsi  
Engineering Manager  
Dizengoff Ghana Limited  
0277528442 [ewadatsi@yahoo.co.uk](mailto:ewadatsi@yahoo.co.uk)

11. Moshe Hamtsani Dizengoff  
Ghana Ltd  
Heating Ventilation Air-condition Project 0244321943,  
+972542018445 [moshe.h@fobengineering.com](mailto:moshe.h@fobengineering.com)

## **Water Processing (Water Treatment/ Waste Treatment Plant)**

12. Mr. Barima Ofori Takyi  
Project Manager  
Pioneer food cannery ltd  
0544339678 [boforitakyi@yahoo.com](mailto:boforitakyi@yahoo.com), [barima.ofori-takyi@mwbrands.com](mailto:barima.ofori-takyi@mwbrands.com), barimaofori@gmail.com

13. Mr. Jonathan Amankwah  
Sales Engineer (West Africa)  
GE water  
024 4334901  
joe.amankwah@ge.com **Refinery**  
**Maintenance and Expansion Works**

14. Mr. Paul Frimpong  
Assistant Project Manager  
Tema Oil Refinery



# Recommendations



**RAANAN**  
FISH FEED WEST AFRICA LTD.

Head Office: Daashenys Pramoram Road  
P.O. Box 1481 Accra Central Ghana  
Tel: (+233) 209 980274 (+233) 544343722  
(+233) 540105952  
Web: [www.raananfishfeed-qa.com](http://www.raananfishfeed-qa.com)  
Email: [raananfishfeed@gmail.com](mailto:raananfishfeed@gmail.com)

Dear Sir,


## LETTER OF RECOMMENDATION

Raanan Fish Feed Ltd is a reputable manufacturing company located in Pramoram in the Greater Accra Region producing fish feed for Aquaculture farmers in the West African Sub Region.

The nature of our demand requires that our factory is always ready to deliver. Thus to ensure this is possible we require additional hands to help our maintenance team in quick time bound maintenance, modification and expansion works. AB Engineering has become a reliable partner in ensuring that these needs are met.

We will not hesitate to recommend AB Engineering to any client who needs a Ghanaian Engineering firm that responds to Clients' needs on time and does quality works in Process Mechanical, Structural, Cladding, Insulation and Electrical works.

Yours faithfully,

  
Samuel Nanyanzi  
(General Manager)



## B. D. Associates (Ghana) Limited

Tema Free zone Enclave,  
#4 Montreal Street,  
Free Zone Enclave,  
ILDC Industrial Park  
TEMA, Ghana

P. O. Box LG 738,  
Legon, Accra  
Ghana  
Tel: 0302 972 949  
E-mail: [Info@chocomac.com](mailto:Info@chocomac.com)

18<sup>th</sup> July, 2016

To Whom It May Concern,

### **RECOMMENDATION FOR AB ENGINEERING LIMITED**

AB engineering has been contracted by B. D. Associates Ghana Limited (a cocoa processing company) for the past two (2) years to assist in the supply of engineering staff and also the design and installation of steel structures for the installation of the second line of our cocoa processing plant.

During their time of service, they have exhibited professionalism, dedication and excellence within a tight financial budget. They have also been able to deliver on all the timelines.

During this period AB Engineering has been able to supply more than thirty (30) very skilled man power ranging from welders, mechanics, electricians etc.

We would therefore like to recommend AB engineering unreservedly for any project.

For and on behalf of B. D. Associates Ghana Limited



John M. Anakwa  
(Chief Operations Officer/Project Manager)



Tema High Industrial Area  
Plot 68/9 and 18  
Kpone – Tema  
Ghana  
1<sup>st</sup> December, 2015

Dear Sir,

**LETTER OF RECOMMENDATION**

This is to formally introduce **A.B ENGINEERING COMPANY LIMITED**, who worked as a Mechanical Contractor for Zakhem Construction Ghana Limited on the **TAKDEPOT-1 ,10,000M3 FUEL STORAGE DEPOT PROJECT** from January to October, 2015 for **PUMA ENERGY**.

The specific scopes executed are as follows:

1. **Fabrication, Painting And Erection Of 86tons Of Steel Structures For Pipe / Cable Racks And Sleepers**
2. **Construction And Installation Of Interconnecting Piping, Equipments, Platforms And Instruments For Loading Gantry**
3. **Construction Of 10,500 Dia-Inch Carbon Steel Process Piping For The Entire Fuel Storage Depot**
4. **Construction Of 11,700 Dia-Inch Carbon Steel Foam And Fire Fighting Piping For The Entire Fuel Depot**
5. **Construction Of Interconnecting Piping For Product Pump Station And Fire Fighting Pump Station**

During the execution of their scope of works, they performed well in terms of quality of work and completion of work on schedule.

We highly recommend them for similar works.

Yours faithfully,

**Mr. Charbel Saliba**  
Construction Manager



Registered Office: 75 Prodromou Avenue, Oneworld Parkview House, 4<sup>th</sup> Floor, PC 2063, Nicosia Cyprus.  
Member of Zakhem International S.A. Luxembourg.  
Member of Zakhem International Group Limited Cyprus.





Tema High Industrial Area  
Plot 68/9 and 18  
Kpone – Tema  
Ghana  
4<sup>th</sup> July, 2016

Dear Sir,

**LETTER OF RECOMMENDATION**

This is to formally introduce **A.B ENGINEERING COMPANY LIMITED**, who worked as a Mechanical Contractor for Zakhem Construction Ghana Limited on the **KPONE THERMAL POWER PROJECT** from 4<sup>th</sup> April, 2014 to 30<sup>th</sup> June, 2016.

The specific scopes executed are as follows:


1. **Fabrication And Erection Of 55tons Of Steel Structures For Pipe / Cable Racks And Sleepers**
2. **Construction Of Gas Turbine Interconnecting Pipes For Both Carbon And Stainless Steel Material Ranging From 15mm To 200mm Diameter**
3. **Construction Of 13,500 Dia-Inch Carbon, Stainless And Galvanized Steel Balance Of Plant (BOP) Interconnecting Pipes With Diameters Ranging From 15mm To 300mm**
4. **Construction Of 205 Sqm Raised Floor In The Switch Gear Room At Control / Electrical Building**

During the execution of their scope of works, they performed well in terms of quality of work and completion of work on schedule.

We highly recommend them for similar works.

Yours faithfully,

**Mr. Moussa Fnech**  
**Acting Site Manager / Construction Manager**

  
10-07-2016



Registered Office: 75 Prodromou Avenue, Oneworld Parkview House, 4<sup>th</sup> Floor, PC 2063, Nicosia Cyprus.  
Member of Zakhem International S.A. Luxembourg.  
Member of Zakhem International Group Limited Cyprus.







# ZAKHEM

**ZAKHEM CONSTRUCTION GHANA LTD.**  
Civil and Mechanical Engineers & Contractor  
Tel : +233 30 3 218950 Fax: +233 30 3 218956-8

**Project:** Construction of 230MW Kpone Thermal Power

**Main Contractor:** Zakhem Construction Ghana Limited

**Sub-contractor:** AB Engineering Ghana Limited

## LIST OF WORKS COMPLETED BY SUB-CONTRACTOR

### 1. Gas Turbine Interconnecting Piping

SYSTEM	MATERIAL	PIPE DIAMETER (mm)
Lube Oil System	Stainless Steel	100, 150,
	Carbon Steel	100, 150, 200
Hydraulic Oil System	Stainless Steel	15, 20, 25, 40
Air and N2 Purge System	Stainless Steel	100, 150, 200
Control Air System	Stainless Steel	150, 200
Measurement & Blow Off System	Carbon Steel	400, 583, 680
Fuel Gas System	Stainless Steel	100, 150
Ignition Fuel System	Stainless Steel	15, 20, 32, 50
Fuel Oil System	Stainless Steel	80, 150
	Carbon Steel	100, 150
On & Off Cleaning Drain System	Carbon Steel	40, 50, 80
Fuel And Water Drain System	Carbon Steel	25, 50, 80
	Stainless Steel	
NOX water System	Stainless Steel	50, 80, 100, 150
Cooling Water System	Carbon Steel	100, 150

### 2. Balance Of Plant

SYSTEM	MATERIAL	PIPE DIAMETER (mm)
Compressed Air System	Galvanised Steel	50, 80, 100
	Stainless Steel	15, 20, 25, 32, 40, 50
Fuel Oil System	Carbon Steel	50, 80, 100, 150, 200







**ZAKHEM**

**ZAKHEM CONSTRUCTION GHANA LTD.**  
Civil and Mechanical Engineers & Contractor  
Tel : +233 30 3 218950 Fax: +233 30 3 218956-8

Tema High Industrial Area  
Plot 68/9 and 18  
Kpone-Tema  
Ghana  
1st December, 2015

### **LETTER OF RECOMMENDATION**

This is to formally introduce **A.B ENGINEERING COMPANY LIMITED**, who worked as a Mechanical Contractor for Zakhem Construction Ghana Limited on the **TAKDEPOT1/ Puma Energy, 30.000 M3 FUEL STORAGE DEPOT PROJECT** from January to October, 2015.

The specific works executed are as follows:

<b>Piping</b>	<b>Pipes Sizes (Inch)</b>
Interconnecting line from Jetty to Tank farm	12, 8
Interconnecting piping between 4 Storage tanks	12, 10, 8, 6
Fire fighting system for entire depot from fire pump station to tank farm piping bridge and loading gantry	12, 10, 8, 6, 4, 3
Foam system for entire depot from foam station (tank) to tank farm and loading gantry	8, 6, 4, 3, 2, 1.5, 1
Complete Installation of Equipment, piping and installation at loading gantry	6, 1, 4
HDPE piping welding for entire drainage	24, 6
Product pump house piping	8, 6, 4

<b>Steel Structure</b>	<b>Weight (Ton)</b>
All pipe sleepers and cable racks for the entire depot	30
Pipe bridge fabrication	20
Access Ladders & Platforms	5

During the execution of their scope of works, they performed well in terms of quality and completion of work on schedule.

We highly recommend them for similar works.

Yours faithfully,

**Charbel Saliba**  
Construction Manager

*01/12/2015*  
*[Signature]*



Registered Office: 75 Prodromou Avenue, Oneworld Parkview House, 4<sup>th</sup> Floor, PC 2063, Nicosia Cyprus.  
Member of Zakhem International S.A. Luxembourg.  
Member of Zakhem International Group Limited Cyprus.







# **VOLTA RIVER AUTHORITY**

Our Ref: *VRA/KTPP/A.B.Eng/032/16*

Your Ref:

Date:

July 25, 2016

To Whom It May Concern

Dear Sir/Madam,

## **INTRODUCTION OF AB ENGINEERING AS A MECHANICAL SUB-CONTRACTOR**

Volta River Authority (VRA) has just successfully commissioned a 220MW Thermal Power Plant at Community 25 in Tema, Ghana under the Kpone Thermal Power Project (KTPP). The Employer (Volta River Authority) is a state owned utility responsible for power generation in Ghana.

As part of the construction activities, Messrs. **A.B. Engineering Company Limited** worked as a Sub-Contractor to the Engineering, Procurement and Construction (EPC) Contractor (Zakhem Construction Ghana Limited) in the execution of various mechanical work packages from April 2014 to June 2016.

The scope of works executed by A.B. Engineering included the fabrication and erection of steel structures and interconnecting piping works within the power plant.

Over the period in which Messrs A.B. Engineering Company Limited under the project, we did not receive any negative report on the quality of their work. We therefore have no reservations in recommending them for any similar mechanical works.

Yours faithfully,

**Charles K. O. Addo**  
**PROJECT DIRECTOR**





**BLUE OCEAN**  
INVESTMENTS

**TO WHOM IT MAY CONCERN:**

**LETTER OF RECOMMENDATION**

This is to formally introduce **A.B ENGINEERING COMPANY LIMITED**, who worked as a Mechanical Contractor for Zakhem Construction Ghana Limited on the **TAKDEPOT1/ Puma Energy, 30.000 M3 FUEL STORAGE DEPOT PROJECT** from January to October, 2015.

The specific works executed are as follows:

<b>Piping</b>	<b>Pipes Sizes (Inch)</b>
Interconnecting line from Jetty to Tank farm	12,8
Interconnecting piping between 4 Storage tanks	12, 10, 8, 6
Fire fighting system for entire depot from fire pump station to tank farm piping bridge and loading gantry	12, 10, 8, 6, 4, 3
Foam system for entire depot from foam station (tank) to tank farm and loading gantry	8, 6, 4, 3, 2, 1.5, 1
Complete Installation of Equipment, piping and installation at loading gantry	6, 1, 4
HDPE piping welding for entire drainage	24, 6
Product pump house piping	8, 6, 4
Construction of 10,500 Dia-Inch Carbon Steel Process Piping For the Entire Fuel Storage Depot	
Construction of 11,700 Dia-Inch Carbon Steel Foam and Fire Fighting Piping For the Entire Fuel Depot	

<b>Steel Structure</b>	<b>Weight (Ton)</b>
All Pipe sleepers and Cable Racks for the entire depot	30
Pipe bridge fabrication	20
Access ladders and platform	5

During the execution of their scope of works, they performed well in terms of quality and completion of work on schedule.

We highly recommend them for similar works.

**Nana Konduah Dickye**  
Construction Engineer

**Blue Ocean Investments**

1 Airport Square Building, 7th Floor, Airport City, Accra, Ghana | P. O. Box 1046, Accra North, Ghana | T: +233-302 746 266 | [www.pumaenergy.com](http://www.pumaenergy.com)



## CONTACT INFORMATION

Address	2 <sup>nd</sup> Floor Eddie-Fred Plaza 6 <sup>th</sup> Avenue Thirdes Road Apple Lane, Tangerine Street Tema Community 12 Accra, Ghana
Telephone	+233208123053, +233247946563, +233570304589
Email	<a href="mailto:info@abengineeringgh.org">info@abengineeringgh.org</a>
Website	<a href="http://www.abengineeringgh.org">www.abengineeringgh.org</a>
Google Map Location	<a href="https://qoo.gl/maps/nVrc5GMQ6RMT3n1bA">https://qoo.gl/maps/nVrc5GMQ6RMT3n1bA</a>

Registered Numbers	<ul style="list-style-type: none"><li>❖ Company Certificate Number: CS547882015</li><li>❖ VAT Certification Reg. Number: F0011902</li><li>❖ Tax Clearance Number: AHQR0029935</li><li>❖ Company Tax Identification Number: C0004507096</li><li>❖ Certificate No. Works and Housing: 49500A</li><li>❖ Ghana Institute of Engineers (GHIE) Reg. No.: CEF07018</li></ul>
Registered Company Name	<b>AB ENGINEERING COMPANY LIMITED</b>
Key Contact Persons	Mr. Isaac Kwabena Abbey (+233245014150) Mr. Ebenezer Amoako (+233247946563)
Auditors	Ferfed Business Consults, Tema. Community 12