



GROSS POOL ENGINEERING LIMITED



# COMPANY PROFILE

COMPANY PROFILE

Electrical | Civil | Building | and Renewable Energy Contractors



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## CONTACT US

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*Office Location:* Near Special Ice Company (Ghana Flag) , Oyarifa, Accra - Ghana

*Digital Address:* GE – 089-1399, Ga East, Greater Accra – Ghana



## OUR TAGLINE

*Safety means Security*



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Location: Near Special Ice Company (Ghana Flag)

Digital Add.: GE – 089-1399, Ga East, Greater Accra

My Ref:

Your Ref:

## INTRODUCTORY LETTER

Dear Sir / Madam,

We humbly take pleasure in introducing ourselves as one of the fast growing company in Ghana. Our company, **Gross Pool Engineering Ltd** also known as **GP Engineering**, we are into electrical, civil and renewable engineering services, that takes extreme pride in creating professional solutions that are designed and based on innovative concepts and ideas that utilizes leading edge technology.

- i. We are experts in providing grid extension services, spanning from urban to rural electrification projects, designing and construction of transmission network, medium voltage and low voltage power distribution over-head and underground networks, substation design works and customer service connections.
- ii. We have the expertise and partnerships, which we offers renewable PV energy services for residential, commercial and industrial clients.
- iii. We also take on all kinds of civil and construction works.

Gross Pool Engineering Ltd is committed to compliance with applicable environmental, health and safety laws and regulation. Whereby, we manage projects from the design conceptual stage through to implementation, testing and final hand over. We deliver projects on time, within budgets and to a high quality standard, for which business benefits and value for money are being realized and achieved.

From the above introduction, we are therefore humbled knocking on your doors, seeking for contracts and sub-contract works both locally and international opportunities from your reputable organization. We are open and available to meet you or your management for engagement/discussions.

We have respectfully attached write-up, which will enable you to know our organization.

We look forward for your valuable enquiry and thank you for accepting us to work with you.

Yours Faithfully,

**ISAAC SHORT SEY**  
MANAGING DIRECTOR  
(Gross Pool Engineering Ltd)

## OUR STORY

Gross Pool Engineering Ltd is a Ghanaian organization established and duly registered under the Business Names Act, 1962 (No. 151) in 2015 as a Sole-proprietorship and re-registered under the Companies Act, 1963, Act 179 as Limited Liability Company in July, 2019 and is entitled to Commence Business.

The company is into Electrical, Civil and Renewable Energy Services, that takes extreme pride in creating professional solutions that are designed and based on innovative concepts and ideas that utilizes leading edge technology.



Today, Gross Pool Engineering Ltd takes on the role of Main and Sub-contractor for large industrial, medium to small size projects. The company is committed to train, develop and maintain talented skilled personnel and to build a lasting relationship with the Government, Ministries, Agencies, the Private Sector for better Economic Growth in Ghana and Africa.

## OUR AIM

- Our aim is to pursue excellence in the Ghanaian-African market by delivering quality and affordable renewable business solutions that benefit families, organizations and prioritizing *safety* in electrical installations to guarantee *security* in our electrical systems.
- Our aim is to satisfy our clients needs with continuously improving our operations and to make them cost-effective, reliable manner and user friendly.

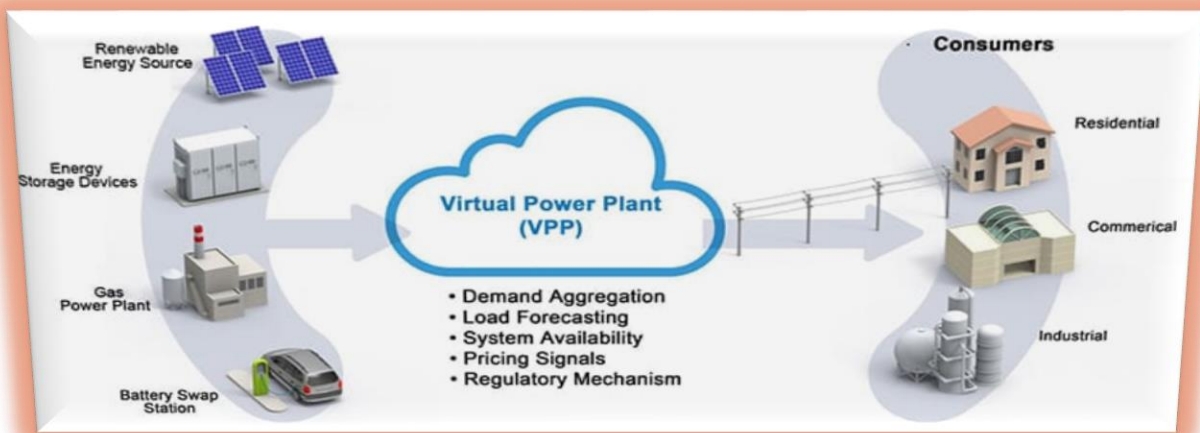


## OUR VISION

Gross Pool Engineering *our vision* is

- To become one of the leading electrical and renewable energy contractors in Ghana.
- To introduce Virtual Power Plants (VPPs) systems in Ghana and as well as other sub-Saharan African countries by providing best, stable, safe, quality and affordable energy production by the year 2040.

We want to accomplish this through collaboration with government agencies, partnerships with foreign and local organizations.



## OUR MISSION

Gross Pool Engineering Ltd, Our mission is to offer solutions and provide services that surpass our client expectations. We strive to accomplish this through selective end to end technology, skilled personnel and approaching every process with integrity and commitment which will set the foundation for long term customer relationships and growth.



Power Factor Ltd having Tools Box meeting with Gross Pool Engineering Team on the field at Zongo Junction Madina – MiDA Project (Under ECG – Kwabenya District), Accra – Ghana.

## OUR SERVICES

Gross Pool Engineering Ltd, we are specialized and provide the following services:

- General Electrical Installations, Civil and Construction works
- General Maintenance Works and Trouble-shooting
- Electricity Construction – Spanning from Urban Project to Rural Electrification Projects
- Design and Installation of Solar Systems
- Contract Management
- Consultancy Works
- Project Management

## WHAT DO WE BELIEVE IN?

Gross Pool Engineering Ltd, we strongly believe in **CITI** which means

- Creativity
- Innovation
- Team Work
- Integrity

## PROJECT MANAGEMENT

- We manage projects from the design conceptual stage through to implementation, testing and final hand over
- We deliver projects on time, within budgets and to a high quality standards



## **CONTRACT MANAGEMENT**

We are open for collaboration, cooperation, joint-venture and partnership from other organizations on an agreed memorandum of understanding (MoU) for bidding of projects and project executions etc. We are available to accept main contracts and subcontracted projects proposals. Our service delivery arrangements is such that; business benefits and value for money are being realized and achieved.



## **SAFETY POLICY**

Gross Pool Engineering Ltd takes health and safety issues seriously and is committed to protecting the health and Safety of our workers at field and for those attending our premises, by conducting our various work processes and system in the light of best safety practices. In this regard, our company is committed to compliance with applicable environmental, health and safety laws and regulation.

## **GUIDLINES**

1. The company shall take all reasonable measures to ensure the Safety, Health and welfare at work of all employees in fulfillment of its moral, legal, and economic responsibilities. These measures will also be aimed at protecting others who may be affected by our daily work.
2. It is a function of top management to provide the right circumstances under which work may be carried out safely. However, all employees must be aware that they have a Legal Duty, to work in a safe manner, but also to cooperate in efforts made to create safe working conditions.



3. The company will provide leadership and resources required to continuously manage Safety and Health at work place. We will endeavor to ensure all personnel have the knowledge, training and resources to perform work in the safest and most practical manner.
4. We will conduct reviews and assessment of Incidents that occur in the course of our business in an open, honest and fair manner.
5. The company will consult with our employees on matters affecting their health and Safety.

## **OUR SERVICES**

### UNDER GRID EXTENSION (INSTALLATION AND CONSTRUCTION) WORKS

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**GROSS POOL ENGINEERING LIMITED** We are experts in Electricity Construction – Construction of HV Transmission line Networks, Construction of MV and Low Voltages Distribution Networks spanning from Urban Electricity Construction to Rural Electrification Projects.

- **Construction of Transmission Line Networks (161KV & All Type)**
  - Preliminary Survey Works and Detailed Survey and Design Works
  - Bush Clearing
  - Siting and Pegging
  - TOWER FOUNDATION: Reinforced concrete foundations, including all associated work as design, excavations, soil investigations and foundations tests and finishing.
  - ERCECTION OF ALL TOWER Types and Conductor Stringing
- **Construction of MV and LV Overhead Lines Distribution Networks (33KV, 34.5KV, 11KV, 11.5KV, 433V, 415V)**
  - Preliminary Survey Works and Detailed Survey & Design Works
  - Bill of Quantities (BoQ) and Staking Chart
  - Bush Clearing
  - Siting and Pegging

- Digging and Erection of MV / LV Poles for Wooden Poles, Spun Concrete Poles and Tubular (Steel) Poles (7m, 8m, 9m, 10m, 11m, 12m, and 15m Poles)
- MV / LV Overhead Top Headgear Arrangements
- MV / LV Stay Equipment Complete with all accessories
- MV / LV Line Stringing, Testing and Commissioning of Overhead Distribution Network Lines (All Type of Conductors)
- **Construction of MV and LV Underground Cable (UG) Distribution Networks (34.5KV, 33KV, 11.5KV, 11KV)**
  - Preliminary Survey Works and Detailed Survey & Design Works
  - Bill of Quantities (BoQ)
  - Laying, Test and Commissioning all types of Underground (UG) Cables (as per specifications complete with warning tapes, tiles, fine sand, lugs and all accessories (Excavation and reinstatement in Asphalt or otherwise)
  - Installing jointing kits and Terminations as per specification complete with all accessories
- **Thrust Boring**
  - Laying of Pressure Pipe Cable Ducts by Thrust Boring for both Asphalt and Non-asphalt Roads
- **Ring Main Units (RMU'S) and Distribution Pillars (DP)**
  - Installation, Test and Commissioning Extensible Ring Main Units (RMU'S) and Non-Extensible Ring Main Units (RMU'S) as per specifications and drawings complete with all accessories
  - Installing Indoor and Outdoor termination kits to connect to RMU as per specification complete with all accessories
  - Installation and Commission Distribution Pillars (DP'S) as per specifications and drawings including all accessories

➤ **Substation Design Construction and Maintenance Works**

- Construction of Substation Equipment Foundation and Yard works
- Substation Yard Drainage System and Kerbs
- Substation Yard Surfacing
- Mounting, Installing and testing Ground Mounted Distribution Transformers (GMT) and Pole Mounted Distribution Transformers (PMT) – Substation Installation works as per specifications and drawings complete with all accessories
- Install, test and commission Earth Rod complete with 35sqmm bare copper conductor, 16sqmm PVC copper conductor, compressive cable lugs, clamp and accessories to achieve effective earthing resistance of 5 Ohms and below for Transformers, RMUs, Distribution pillars as per specification and Drawing
- Pre-commissioning and Commissioning of Substation and handing over

➤ **Customer Service Connection and Installation Works**

- Extension of LV Distribution Network to Customers
- Providing Three Phase and Single Phase Service Drops to Customers
- Three Phase (3Ph) Meter Installation and Connection to Customers
- Single Phase (1Ph) Meter Installation and Connection to Customers
- Upgrading and Improvement of LV Networks for Customers

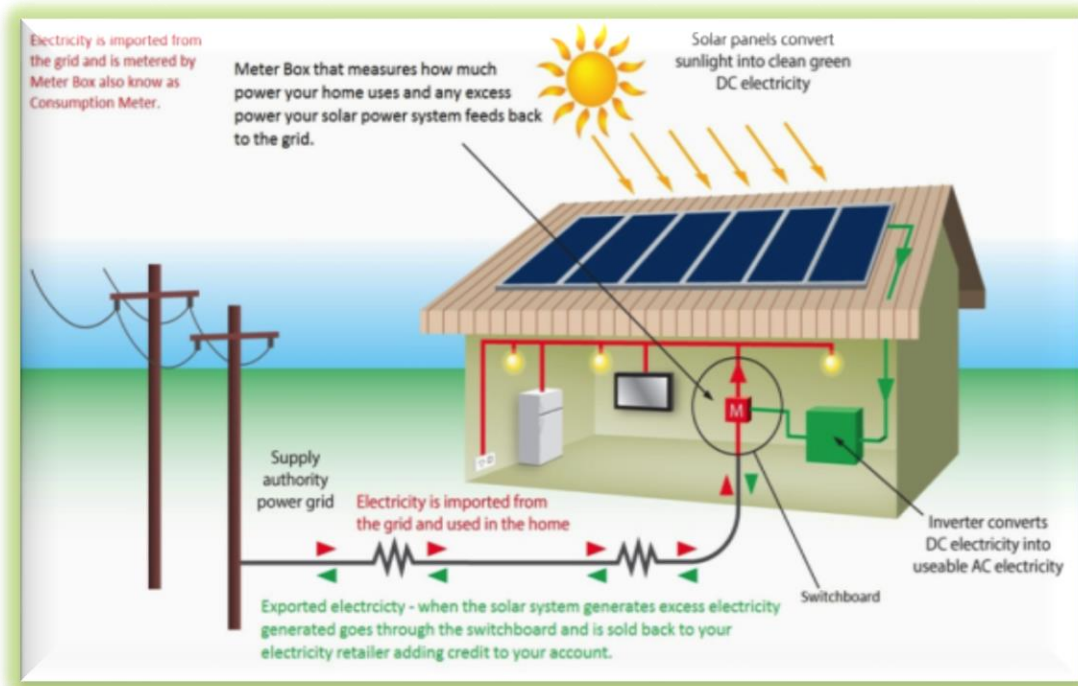
UNDER PV SOLAR SYSTEM INSTALLATIONS AND MAINTENANCE WORKS

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➤ **We offers PV Solar Energy System and Battery Energy Storage Systems (BESS) Installation Services for Residential, Commercial and Industrial Clients**

- PV Solar Energy System for Residential Purposes – from Urban to Rural Structures
- PV Solar Energy System for Commercial Purposes – including (Real Estate, Church Buildings, Schools, Hospitals, Hotels, Supermarkets etc)
- PV Solar Energy System Pumps for Farming Irrigation

- PV Solar Energy System for Street Lighting
- PV Solar Energy System for Traffic Lights Control Managements
- We Design and Provide Battery Energy Storage System (BESS) for our Clients



## GENERAL MAINTENANCE WORKS AND TROUBLE-SHOOTING

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- Telecommunication Cell Site Installations, Maintenance and Trouble-shooting
- Industrial Elctrical Installations Works, Maintenance and Trouble-shooting
- Domestic Installations, Maintenance and Trouble-shooting

## SOME RECENT PROJECTS UNDERTAKEN

1.

Project Name	SOLAR UNDER TELECOM PROJECT – QCELL CELL SITE
Project Employer	QCELL, SIERRA LEONE
Contractor	ZTE
Subcontracted by	MIKTECH SOLUTIONS / APPLE TELECOMMUNICATION ENG. LTD
Subcontractor	GROSS POOL ENGINEERING LTD
Duration	April, 2023 – JULY 2023
Project Location	SIERRA LEONE

### Scope of Work

Description of work	Unit	Per site	Total
<b>New Solar Site, 20pcs Solar Panels, 800Ah Battery</b>			
Solar site engineering technical site survey & design	Site	1	50
Supply and construction of small concrete footing, blocks (0.1m <sup>3</sup> ≤concrete volume≤0.2m <sup>3</sup> , prefab or on-site casted) , including all relating excavation and backfilling workload, per PCS	PCS	10	500
600AH Battery Cabinet slab construction , slab dimension ( appropriate 1.3*1.2*0.2 = 0.312 m <sup>3</sup> )	Set	1	50
Trench excavation, backfilling and compaction in normal soil	Cu.m	9	450
Supply and laying of PVC pipe with all fittings (dia.roughly 75mm)	Meter	50	2500
Installation of beams and component plane(4 poles,R4, 3m bracket)	Set	2	100
Installation of beams and component plane(4 poles,R12, 3m bracket)	Set	1	50
Installation of supporting pole and digonal braces(4 poles,3m height)	Set	5	250
Installation of solar panels including modules,junction boxes and other accessories(on 3m bracket)	PCS	20	1000
Installation and cabling of power unit for solar energy system	Set	5	250
Installation and commisioning of controller for solar energy system	Site	1	50
2V Battery bank (non-Core site) Dismantling	Bank	1	50
Installation of battery cabinet(height≤1.6m)	Set	1	50
Battery installation(2V*24 , 800Ah/1000Ah)	Bank	2	100
Installation of Solar subrack/power unit with all accessories	Set	1	50
Installation of earthing bus bar	PCS	10	500
Connection of earthing conductors by mechanical joint	No.	10	500
Installation of horizontal earthing conductor	m	20	1000
Installation and termination of insulated earth cable fitted	m	30	1500
Earthing system interconnection test	Site	1	50

2.

Project Name	CONSTRUCTION OF 12KM / 33KV SPUN CONCRETE POLE OVERHEAD LINE & 1 X 630 SQMM UNDERGROUND CABLE (UG) NETWORK FROM NSAWAM PRIMARY SUBSTATION TO YUNZU GROUP COMPANY LIMITED FIBER FACTORY AND INSTALLATION OF 4MV TRANSFORMER
Project Employer	ELECTRICITY COMPANY OF GHAN (ECG)
Contractor	CK ENGINEERING LTD
Subcontracted by	TIMELINE SOLUTIONS ENGINEERING LTD
Subcontractor	GROSS POOL ENGINEERING LTD
Duration	December, 2022 – April, 2023
Project Location	Nsawam – Aburi Road, Eastern Region, Accra - Ghana

3.

Project Name	CONSTRUCTION OF TEE-OFF 11KV WOODEN POLE OVERHEAD LINE TO CLEAN PACK WATER COMPANY, OYARIFA – GHANA FLAG AND INSTALLATION OF 100KVA PMT SUBSTATION
Project Employer	CLEAN PACK WATER COMPANY
Contractor	TIMELINE SOLUTIONS ENGINEERING LTD
Subcontractor	GROSS POOL ENGINEERING LTD
Duration	April, 2023
Project Location	Oyarifa Near Ghana Flag, Accra - Ghana

4.

Project Name	CONSTRUCTION OF 180KM / 161KV LINE FROM KARA TO MANGO
Project Employer	WAPCO
Contractor	TRANSRAIL LIGHTING LTD
Subcontracted by	ADZEPA EPC
Subcontractor	GROSS POOL ENGINEERING LTD
Duration	JUNE, 2022 – AUGUST, 2023
Project Location	TOGO

5.

Project Name	CONSTRUCTION OF 32KM / 33KV DOUBLE CCT LINE FROM ASAMANKESE TO AWETIA
Project Employer	ELECTRICITY COMPANY OF GHAN (ECG)
Contractor	MBH POWER LTD
Subcontractor	GROSS POOL ENGINEERING LTD
Duration	2015 – 2017
Project Location	EASTERN REGION, GHANA

6.

Project Name	REHABILITATION OF 50KM / 34,5KV MV LINE WITH 11M SPUN CONCRETE POLES FROM SABOBA TO CHIRRIPONI
Project Employer	VRA / NEDCO
Contractor	CK ENGINEERING LTD
Subcontractor	GROSS POOL ENGINEERING LTD
Duration	AUGUST, 2022 – NOVEMBER, 2022
Project Location	NORTHERN REGION – GHANA

7.

Project Name	REHABILITATION OF 20KM / 34,5KV MV LINE WITH 11M SPUN CONCRETE POLES FROM DONGONI TO HAN
Project Employer	VRA / NEDCO
Contractor	CK ENGINEERING LTD
Subcontractor	GROSS POOL ENGINEERING LTD
Duration	NOVEMBER, 2022 – DECEMBER, 2022
Project Location	UPPER WEST REGION– GHANA

8.

Project Name	MiDA – MV AND LV BIFURCATION AND NETWORK IMPROVEMENT PROJECT
Project Employer	MILLENIUM DEVELOPMENT AUTHORITY (MiDA) – GHANA POWER COMPACT
Contractor	MBH POWER LIMITED, NIGERIA
Subcontractor	GROSS POOL ENGINEERING LTD
Duration	NOVEMBER, 2019 – APRIL, 2021
Project Location	UNDER ECG KANESHIE DISTRICT, ACCRA – GHANA

**SCOPE OF WORK UNDER ECG KANESHIE DISTRICT, ACCRE – GHANA, WEST AFRICA**

Item	Description	Unit	Qty	% Of Work
	<b>BILL No.A2 - TRANSFORMER INJECTIONS</b>			
1	Install, test and commission new 11/0.433kV, 200kVA Ground Mounted Distribution Transformers as per specifications and drawings complete with all accessories	nr	15	100% Completed
	<b>TOTAL OF BILL (A2)- USD</b>			
	<b>BILL No. A3 - MV NETWORK EXTENSIONS</b>			
2	Install, test and commission 11kV Extensible Ring Main Units comprising of two load brake switches one of which shall be fused and the other unfused. The third shall be either extensible or be coupled to other switches as per specifications and drawings complete with all accessories as per ECG Specification E-24	nr	15	100% Completed
3	Install, test and commission 11kV Non-Extensible Ring Main Units comprising of two load brake switches and one fused switch built into the same unit complete with all accessories as per specifications and drawings complete with all accessories as per ECG Specification E-24	nr	15	100% Completed
4	Install and commission 4-way Distribution Pillars as per specifications and drawings including all accessories complete as per ECG Specification E-41	nr	15	100% Completed
5	Lay, test and commission 6.35/11kV, 3x185sqmm XLPE/SWA/PVC Cable as per specifications complete with tapes, tiles, fine sand, lugs and all accessories as per ECG Specification E-05,	m	8,100	100% Completed
6	Lay and test, commission 6.35/11kV 3x95sqmm AL XLPE with tiles, tapes, fine sand, joints and lugs and all accessories complete as per ECG Specification E-05	m	750	100% Completed
7	Install 6.35/11kV 3x185sqmm indoor termination kits to connect to RMU as per specification E-06 complete with all accessories	sets	90	100% Completed
8	Install 6.35/11kV 3x185sqmm outdoor termination kits to connect to RMU as per specification E-06 complete with all accessories	sets	90	100% Completed
9	Install 11kV 3x185sqmm jointing kits as per ECG specification E-06 complete with all accessories	sets	45	100% Completed



10	Install 6.35/11kV 3 x95sqmm AL indoor termination kits as per ECG specifications E-06	set	45	100% Completed
11	Install 6.35/11kV 3x95sqmm Outdoor termination kits as per ECG specifications E-06	set	45	100% Completed
<b>EARTHING EQUIPMENT</b>				
12	Install, test and commissison Earth Rod complete with 35sqmm bare copper conductor, 16sqmm PVC copper conductor, compressive cable lugs, clamp and accessories to achieve effective earthing resistance of 5 Ohms and below for Transformers, RMUs, Distribution pillars , fencing as as per ECG specification E-46 and Drawing No PMC-5091019-LVB-028 and PMC-5091019-LVB-028	set	45	100% Completed
13				
<b>CIVIL WORKS</b>				
14	Construct concrete plinth for Ground Mounted Transformers, Ring Main units and Distribution Pillars as per specification E-04 and drawings	m3	45	100% Completed
15	Breakup Temporal and Permanent pavement blocks, take permanent pavement blocks and Re-instate same	m2	950	100% Completed
16	Breakup Temporal and Permanent permanent concrete paving and tiles and Re-instate same	m3	100	100% Completed
17	Breakup Temporal and Permanent grassed Surface, take grassed surfaces and Re-instate same	m2	125	100% Completed
18	Provide, lay and Join 100mm diameter PVC pipe cable ducts by thrust boring in asphalt road base, with all necessary Cover Tiles and warning tapes complete (8-inch Thrust Boring)	m	485.7	100% Completed
19	Construct Ultimate Panel Mesh fence with gate and foundations for concrete Post as per drawing No. PMC-5091019-LVB-029	lot	15	100% Completed
20	Demolition and reinstatement of masonry blockwall 125mm thick	m2	825	100% Completed
<b>TOTAL OF BILL (A3)- USD</b>				
<b>BILL No. A4 - LV EXTENSIONS</b>				
<b>The Contractor shall consider in his price the costs or expenses of all requirements stipulated in the section entitled "General and Preambles" preceding this Bill."The exact lengths of the required conductors and cables, the exact number of the required poles and the exact quantities of insulators and accessories will be determined during the implementation of the Works.Price should include all excavation, backfilling, supporting of trenches and all associated works.</b>				
<b>CONDUCTOR AND FITTINGS</b>				
21	Lay and test 600/1000V 4x185sqmm Aluminium XLPE Cable as per ECG Specification E-05 with all accessories to connect newly injected transformers to LV network	m	500	100% Completed
22	Lay and test 600/1000V 4x95sqmm Aluminium XLPE Cable as per ECG Specification E-05 with all accessories to connect newly injected transformers to LV network	m	650	100% Completed
23	Install 600/1000V 4x185sqmm AL cable lugs	nr	120	100% Completed
24	Install cable glands suitable for 4X185sqmm AL XLPE	nr	134	100% Completed
25	Install 600/1000V 4x95sqmm AL cable lugs	nr	240	100% Completed

26	Install cable glands suitable for 4X95sqmm AL XLPE	set	30	100% Completed
27	String, test and commission 120sqmm hard drawn ALL Aluminium Stranded Conductor (AAC) complete with accessories for jumper connections	m	35,000	100% Completed
	<b>Overhead Line Accessories</b>			
	1. Refer to drawing in conB150:B151struction Drawing/Standards 2. For all pole Top arrangements Listed Below, the Requirement includes top structures and ties, D brackets, tapes, polymer insulators, bolts and nuts, connectors and all accessories, but excludes stays, earthing Material and poles			
	<b>Install and commission</b>			
28	415V, 3Phase Intermediate Pole Top Structure (0 - 3 deg) Drg#: PMC-5091059 - LVB – 001	nr	120	100% Completed
29	415V, 3Phase Light Angle Pole Top Structure (3-20 deg) Drg#: PMC - 5091059 - LVB – 001	nr	80	100% Completed
30	415V, 3Phase Heavy Angle Pole Top Structure (60 - 90 deg) Drg#: PMC - 5091059 - LVB - 004	nr	65	100% Completed
31	415V, 3Phase Terminal Pole Top Structure Drg#: PMC-5091059 - LVB - 007	nr	90	100% Completed
	<b>Poles &amp; Pole Fittings</b>			
32	Install 9m class 4 wooden Pole as per ECG specification E-18 to extend the existing network to the newly injected Transformers	nr	355	100% Completed
32	Install 415V stay equipment complete with Rod and plate, Bow, Wooden stay block, preformed Guy-Grip for stay wire, Kitwrap, bracket, M16 x220mm bolts and nuts as per specifications and drawings and complete with all accessories	Set	319	100% Completed
33	Install standard number plate as per specifications and drawings	nr	355	100% Completed
34	Install Standard danger Plate as per specifications and drawings	nr	355	100% Completed
35	Supply & Install 100mm PVC pipes including straps and all accessories	m	180	100% Completed
	<b>BILL No. A5 - NETWORK IMPROVEMENT</b>			
	<b>DE-COMMISSION WORKS</b>			
36	Allow for removal of existing 50sqmm AAC Conductors in the network as per drawings, redruming and delivering of same to ECG	m	391,000	100% Completed
37	Allow for removal of substandard poles as per drawings and delivering of same to ECG	nr	801	100% Completed
38	Allow for removal of stay equipment	nr	465	100% Completed
39	Allow for removal of shackles	nr	1500	100% Completed
40	Allow for removal of poor joints and connections	set	850	100% Completed
	<b>IMPROVEMENT WORKS</b>			
41	String and test, commission 4x120sqmm ABC with hooks , connectors and all accessories complete as per Specification	m	985	100% Completed
42	String 120sqmm AAC Conductor as per specification E-09 and drawings	m	391,000	100% Completed
43	Install 9m class 4 wood poles as per ECG Specification E-18	nr	1225	100% Completed

44	Install new stay equipment complete with all accessories as per specification E-12 and drawings	set	465	100% Completed
45	Install new shackles as per specification E-12	set	1500	100% Completed
46	Install new conductor lugs as per ECG specification E-10	nr	1372	100% Completed
47	Install, test and commision new protective multiple earthing system (PME)	nr	382	100% Completed

9.

Project Name	MiDA – MV AND LV BIFURCATION AND NETWORK IMPROVEMENT PROJECT
Project Employer	MILLENIUM DEVELOPMENT AUTHORITY (MiDA) – GHANA POWER COMPACT
Contractor	POWER FACTOR LIMITED, GHANA
Subcontractor	GROSS POOL ENGINEERING LTD
Duration	NOVEMBER, 2021 – APRIL, 2022
Project Location	UNDER ECG LEGON DISTRICT, ACCRA – GHANA

10.

Project Name	MiDA – MV AND LV BIFURCATION AND NETWORK IMPROVEMENT PROJECT
Project Employer	MILLENIUM DEVELOPMENT AUTHORITY (MiDA) – GHANA POWER COMPACT
Contractor	POWER FACTOR LIMITED, GHANA
Subcontractor	GROSS POOL ENGINEERING LTD
Duration	MARCH, 2021 – NOVEMBER, 2022
Project Location	UNDER ECG KWABENYA DISTRICT, ACCRA – GHANA

## SAMPLES OF OUR CONSTRUCTION WORKS UNDER 161KV TRANSMISSION LINES



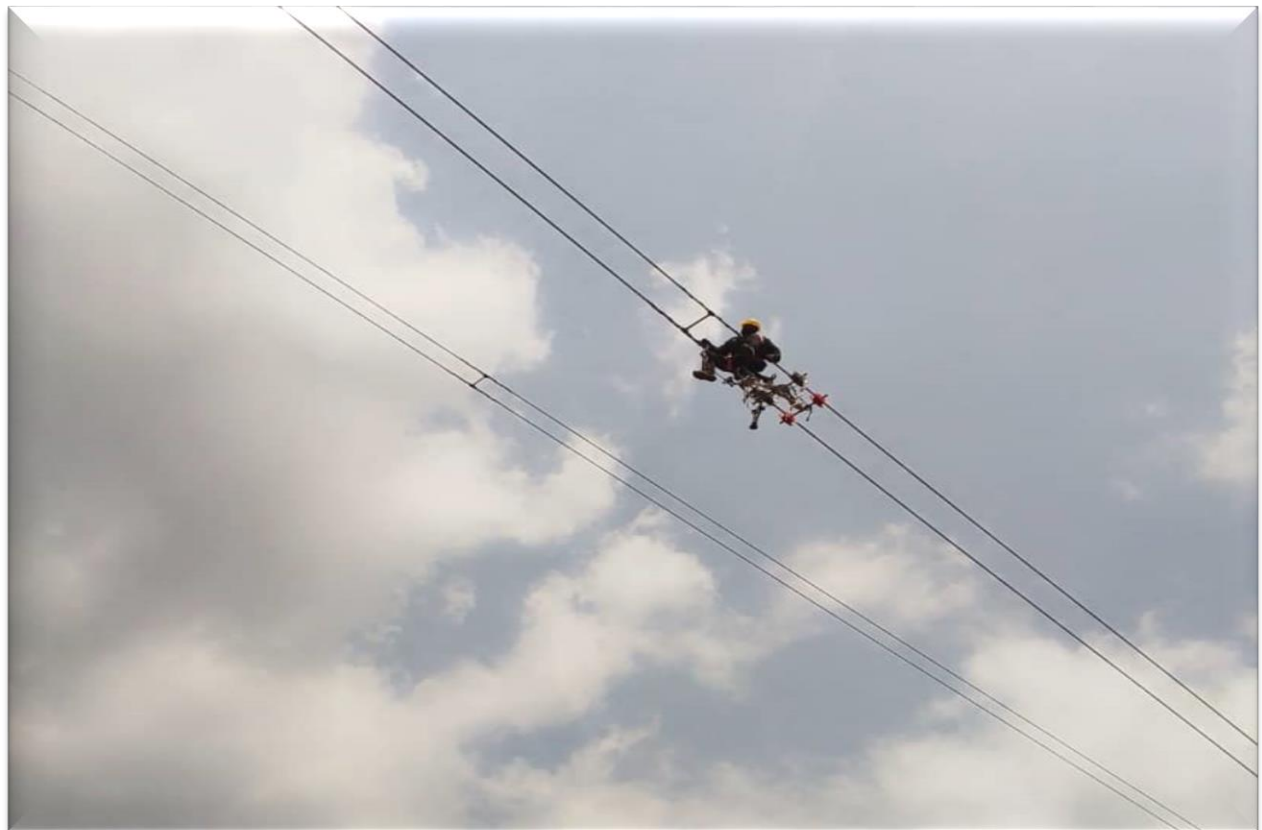
















## SAMPLES OF OUR PV SOLAR INSTALLATIONS WORKS IN SIERRA LEONE



PV Solar Installation works completed by Gross Pool Engineering Solar Team in Sierra Leone for Qcell site



Gross Pool Engineering Solar Team at work in Sierra Leone at Qcell Site



**Gross Pool Engineering Ltd, Our Solar Team on Installation of PV Solar System and Battery Bank at QCELL Site Near Port Loko  
in Sierra Leone (May, 2023)**



PV Solar Installation works completed at Rokupr and Yagoi Qcell site in Sierra Leone by GP Solar Team



**Gross Pool Solar Team at work**



**PV Solar completed at Baiima**



## SAMPLES OF OUR SUBSTATION CONSTRUCTION AND INSTALLATION WORKS

33KV Main Feeder from the ECG Primary Substation at Nsawam to the Yunzu Fiber Factory commissioned



Laying of 1X630sqmm UG Cable to be connected to the main Feeder at the Nsawam ECG Substation

Installation of new **4MVA** Transformer at Yunzu Fiber Factory





Installation of Busbars arrangements on 4MVA Transformer to the DP by Gross Pool Engineering Team at Yunzu Fiber Factory



Newly Installed 4MVA Transformer by Gross Pool Engineering Team at Yunzu Fiber Factory, Near Nsawam E/R, Ghana January 2023





Finalizing on DP arrangement and Termination at the Yunzu Fiber Factory Substation

**CONSTRUCTION OF GROUND MOUNTED TRANSFORMER (GMT) SUBSTATIONS, (2020 – 2021)**



**Getting the ground prepared for the construction of GMT Substation at the Ghana Police Training School, Accra**



**GMT Substation foundation works at the Ghana Police Training School, Accra - MiDA Project (Under ECG Kaneshie District)**



**GMT Substation completed and commissioned at the Ghana Police Training School, Accra - MiDA Project (Under ECG Kaneshie District)**





GMT Substation Foundation works, mounting of RMU, DP, 200KVA Transformer fully completed and commissioned at Cable & Wireless  
– MiDA Project (Under ECG Kaneshie District)



**Starting of GMT Profile works, foundation, Installation of Equipment and Fencing at Abeka Market down and SS Omane street**



**Diversion of pipes and preparing the grounds for GMT Substation Foundation works at Abeka Market down – MiDA Project (Kaneshie District)**



**Fully completed and commissioned GMT Substation at Abeka Market down – MiDA Project (Kaneshie District)**



Concrete Plinth for GMT Substation Foundation works and completion of GMT substation at SS Omane Street – MiDA Project (Kaneshie District)



**Fencing, completion and commissioned of GMT Substation at Mukose Street – MiDA Project (Kaneshie District)**



**GMT (200KVA TX, RMU and DP) substation completed and commissioned at Swanlake North Kaneshie**



**Mounting of RMU, DP and 200KVA Transformer , completion and commissioned of GMT at AwudomeCemetary – MiDA Project  
(Kaneshie District)**



Final fencing and GMT Substation completed behind Accra Academy School – MiDA Project (Kaneshie District)

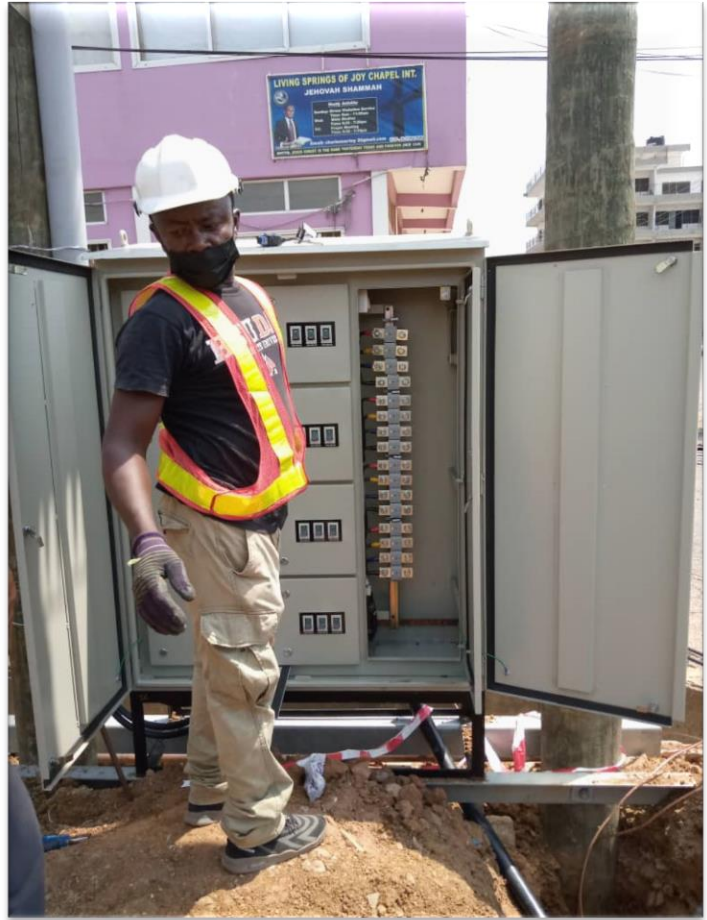
**CONSTRUCTION AND INSTALLATION OF POLE MOUNTED TRANSFORMER (PMT) SUBSTATION**



**Commissioning of PMT substation at the Nabdam District in the Upper East Region of Ghana**



**Mounting and Dressing of PMT Substation at Ashawo market, Adabraka – MiDA Project (Kaneshie District)**



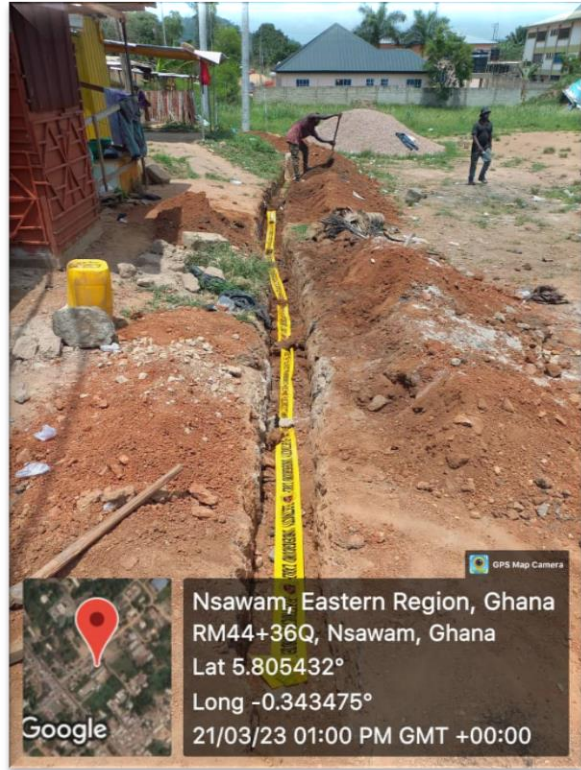
Installation of new RMU in the ECG Substation at North Ridge and Installation of DP at Ashawo Market, Adabraka



Commissioning of GMT Substation by ECG commissioning team – MiDA Project

## LAYING OF UNDERGROUND (UG) CABLE WORKS

Laying of 1X630sqmm UG Cable







Laying of Under Ground Cable at Mukose Street – MiDA Project (Kaneshie District)



Laying of Under Ground Cable at SS Omane Street – MiDA Project (Kaneshie District)



Laying of Under Ground Cable at Police Training School Accra – MiDA Project (Kaneshie District)





Laying of Under Ground Cable at Police Training School Accra – MiDA Project (Kaneshie District)

## THRUST BORING WORKS

THRUST BORING WORKS FOR LAYING OF UNDERGROUND CABLES





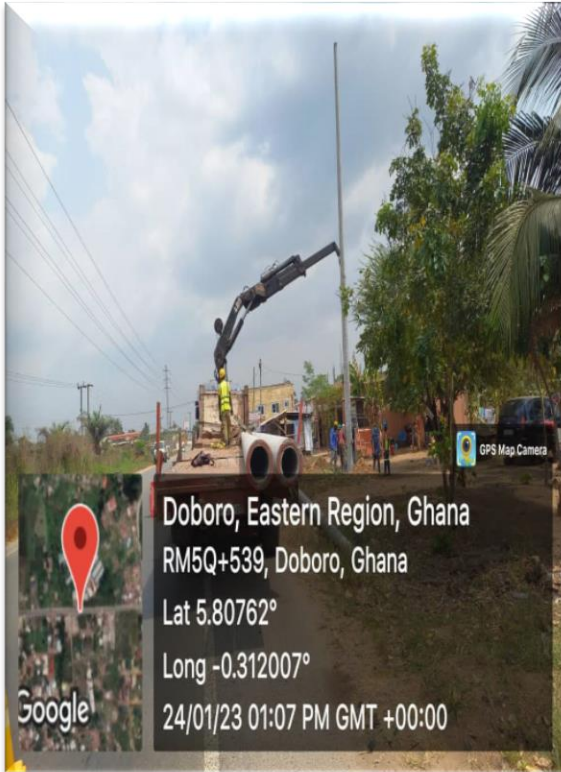
Our Team getting Thrust Boring works completed on time before the start of laying of underground Cable

## SAMPLES OF OUR MV AND LV OVERHEAD CONSTRUCTION WORKS





Planting of 15M Spun Concrete Pole for the Construction of 33KV Overhead / Underground line on the Nsawam – Aburi Road Feb. 2023

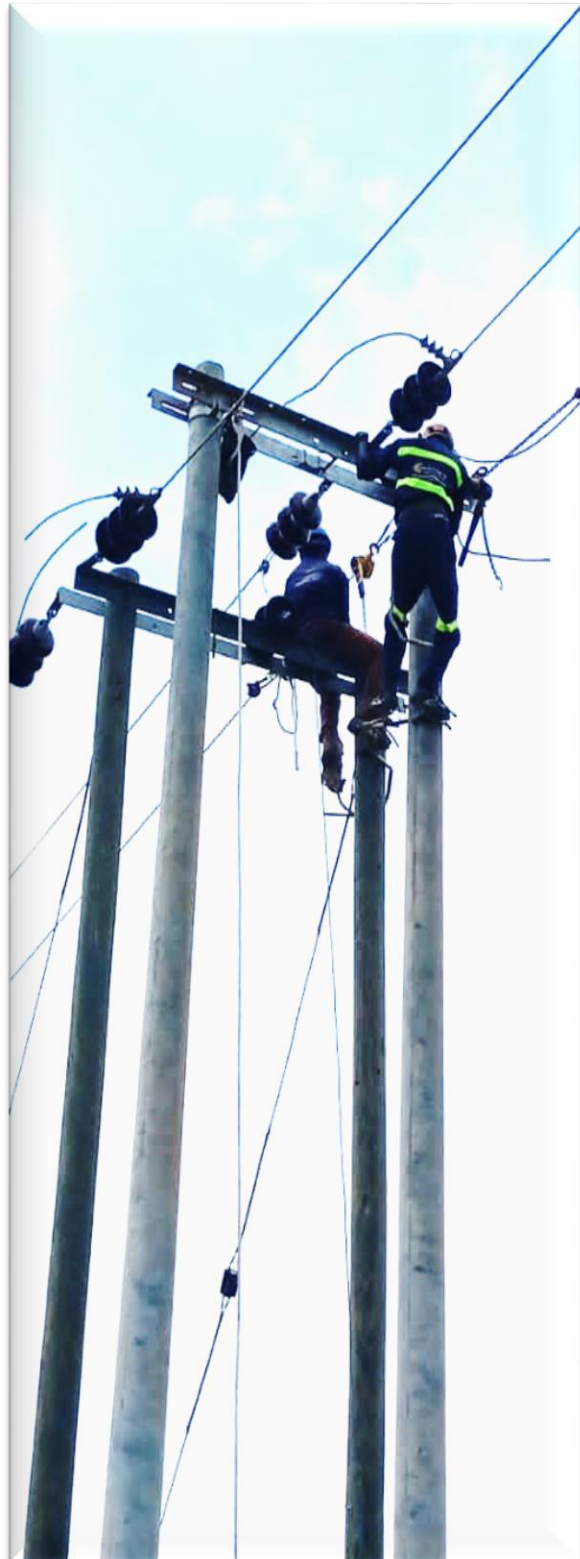
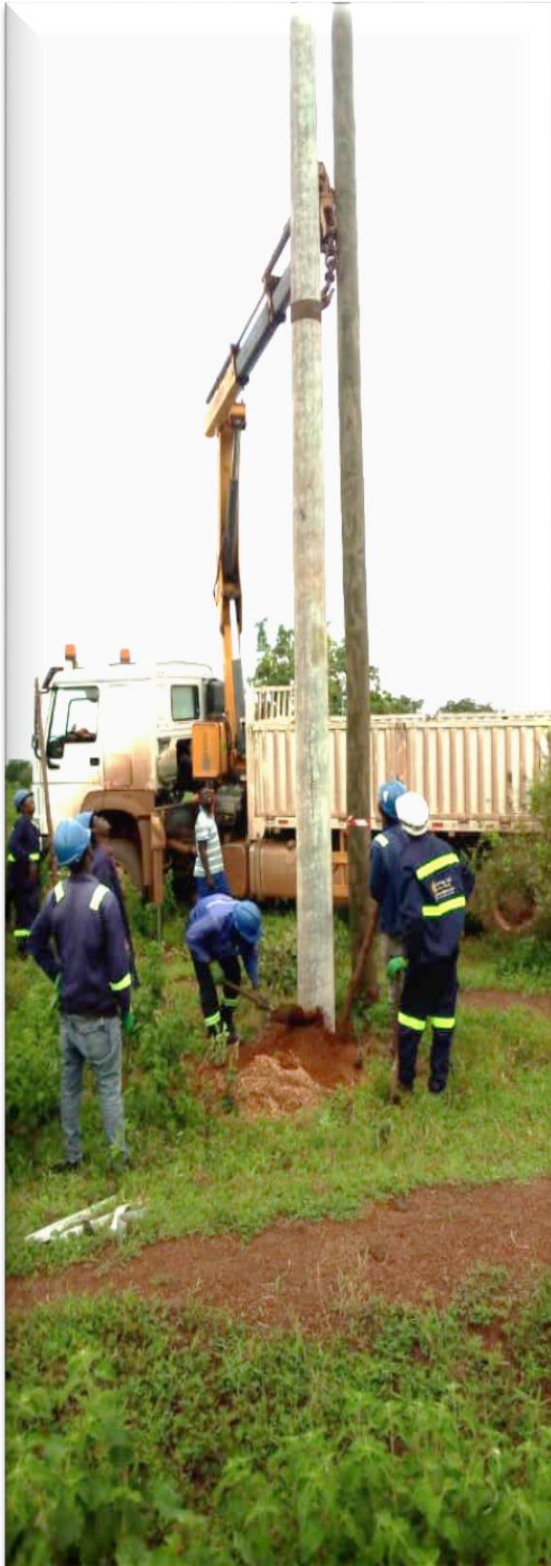


**Gross Pool Engineering Team during the stage of Planting of 15m Concrete Poles**



**Stringing of 33KV Overhead line Nsawan – Aburi Road, March 2023**









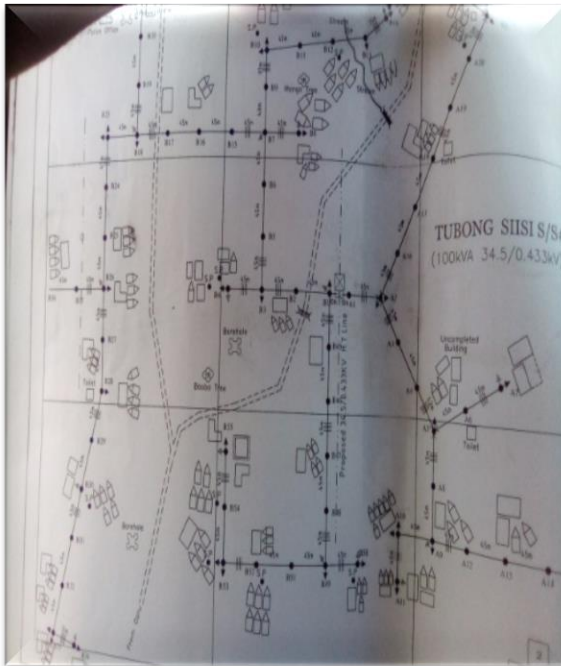
LV Network Improvement at NTHC Estate Adjiringanor East Legon – MiDA Project (Undr ECG Legon District)



LV Network Improvement – MiDA Project (Undr ECG Kaneshie District)



Teams preparing for site work – Upper East Region (Thengashep Project Phase II, November, 2020)



Siting and Pegging for Pole Planting– Upper East Region (Thengashep Project Phase II, November, 2020)

## CERTIFICATES

The company has obtained the following certificates:

- COMPANY REGISTRATION CERTIFICATE
- CERTIFICATE TO COMMENCE BUSINESS
- CERTIFICATE OF INCORPORATION
- CERTIFICATE OF CLASSIFICATION FROM MINISTRY OF WATER RESOURCES, WORKS AND HOUSING ( ELECTRICAL, PLUMBING AND CIVIL WORKS)
- CERTIFICATE AS SUPPLIER, CONTRACTOR, CONSULTANT FROM PUBLIC PROCUREMENT AUTHORITY (PPA)
- CERTIFICATE OF CLASSIFICATION FROM ELECTRICITY COMPANY OF GHANA (ECG)
- ELECTRICAL CONTRACTORS' LICENCE FROM ELECTRICITY COMPANY OF GHANA (ECG)
- CERTIFICATE AS BUILDING CIVIL CONTRACTOR FROM ELECTRICITY COMPANY OF GHANA (ECG)

## SOME OF GP TEAM MEMBERS – THEIR BACKGROUD AND EXPERIENCE

### Mr. Charles D. A. SEY




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#### **Chief Financial Officer (CFO) & Head of Administration**

*Mr. Charles D. A. Sey is the CFO and represents the head of Administration, he is a Chartered Accountant, worked with over 20 years of experience in Finance, Accounting and Administrative Management. He has 7 years experience in logistics & Transport. He works with the Ghana Shippers Authority, currently as branch manager at the Ghana Shippers Authority Tema branch - Ghana. He is a Qualified Chartered Accountant from Institute of Chartered Accountants and also holds the following; Masters Degree in Accounting, Chartered Diploma in Forensic Accounting & Auditing, Chartered Diploma in Oil & Gas, Chartered Diploma in Treasury and Masters in Port & Shipping Management and also he holds an Advance Diploma in Logistic & Transport.*

### Miss Juliana LAMPTEY




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#### **Procurement Manager**

*Miss. Juliana Lamptey is our Procurement Manager, she has a good problem solving skills abilities, an indepth knowledge and many years of experience when it comes to Procurement Management. She attained her first degree in Procurement Management from Takoradi Technical University. She also hold HND in Purchasing and Supply from the same institution. She has a high integrity and proven good track record of work load management skills.*

**Mr. Isaac Short SEY**

**Founder & Managing Director**



Electrical Engineer, Project Consultant with 17 years of experienced in both External and Internal Fields. Currently, he is also acting as Operations Manager for the organization. His major background is Power Systems Economics. He is an Expert in Electricity Construction (from urban to rural Electrification Projects). Also, Expert in Designing and Installation of PV Solar Energy Systems. He is part of the Thengashep Ghana Pty Ltd team – an EPC Contractor as Project Engineer / Project Consultant for the (SHEP 4) Contract in the Upper East Region of Ghana and successfully he assisted the Project Manager for completing the project on time and achieving Thengashep ultimate goal. He has also worked with Wilkins Engineering Ltd and he successfully carried out and completed many projects for the construction of MV and LV Electrical Distribution Network Lines, Electrification Projects through out most of the regions in Ghana and ensuring Projects are delivered on time and within budgets.. He has worked closely with some organization such as; China Water and Electric Corporation (CWE), Hunan Electric Co-operation (HCE), Volta River Authority (VRA), Northern Electricity Distribution Company (NEDCO), Electricity Company of Ghana (ECG) and Ministry of Energy (MoE), MBH Power and Gas Ltd, SMEC-Ghana, MiDA-Ghana Power Compact.

**Mr. Anthony Kwame GATSEY**

**Construction Manager (Electrical and Solar PV Systems)**



Electrical Engineer with over 15 years working experience in Electrification Projects, Substation Construction, Transmission Lines(Tower) Construction, PV Solar Projects (Design, Installations and Maintenanc). He holds Bachelor of Science (BSc) Electrical and Electronic Engineering from Regional Maritime University (RMU) Ghana. He holds Higher National Diploma (HND) in Electrical and Electronic Engineering, from Ho Technical University, Ghana. He has previously worked with MBH Power & Gas Ltd and also Wilkins Engineering Ltd

Some of his achievements are;

- Successfully led Gross Pool Engineering Solar Team to complete many PV Solar System Installation works in Sierra Leone at QCELL Cell Sites
- Successfully supervised and completed the Construction of 13.6 Km Transmission Line from KPONG to JUAPONG involving a total of 93 Double-Circuit Tower completed
- Successfully managed, supervised and completed the Construction of one (1) new Primary substation at Asamankese and Constructed 34 Km Double-Circuit Transmission line Tower involving 207 number of Tower structures
- Successfully completed 33KV substations and transmission lines at Suhum and Asamankese
- He was a major key player in PV Solar Energy System Project with ELECNOR of Spain in installing Solar Systems in some Islands and remote Communities in Ghana including Ada, Dambai, Kete-krachi, Sene, Nzulenzu etc. The Installations includes Lighting and Vaccine frigide for Clinics that are not on the National Grid. Street Lights at places where the Community memebers can charge their mobile phones etc.
- Successfully led a team to complete more than 800 Communities including Teachers, Nurses residence, CHPS, School Building Blocks etc where Stand –Alone Solar Systems have been Installed under Wilkins Engineering for (MoE) Ministry of Energy, Ghana.

**Mr. Alexander DANSO**

**Construction Manager – Civil Department**



*Civil Engineer, an enthusiastic young professional who has acquired formal training in Construction Management and with 15 years experience in the Construction and Energy Sector – 161KV and 33KV Substation Construction and Transmission Lines(Tower) Construction.*

*He holds Bachelor of Science (BSc) in Construction Technology and Management from KNUST – Ghana. He holds Higher National Diploma (HND) in Furniture Design and Construction from Kumasi Technical University, Ghana.*

Some of his achievements are;

- *Successfully led a team to complete Civil works in Sierra Leone at QCELL Sites which enabled all the Installations of PV Solar Systems to be fully installed and commissioned*
- *Successfully completed 161KV substation at Anwomaso-Kumasi, building of control building, site levelling, equipment foundations, erection of structures and construction of drains.*
- *Successfully completed 33KV substations and transmission lines at Suhum and Asamankese*
- *Worked with ongoing 12storey multi-purpose office for Goil at Roman Ridge as safety officer and assistant site supervisor.*
- *Successfully completed two ventilation shafts for Chirano Gold Mines.*
- *Successfully supervised the completion of senior staff apartments at Chirano Gold Mines-Paboasi Mine Village.*

**Mr. Amos AGBETORWOKA**

**Head of Safety Department**



*Mr. Amos Agbetorwoka is currently the Head of Gross Pool Engineering Safety Department. He has a long track record of identifying probable risks, preventing accidents and implementing safety regulations. Amos has considerable experience in Health, safety and Environment (HSE) roles and an expert in drawing-up safe operational procedures and making recommendations following any accidents or incidents. He holds BSc. Environmental and Safety Engineering from University of Mines and Technology, Takwa – Ghana.*

**Mr. Nathaniel Boadu GYAMFI**

**Lead Foreman – (MV and LV Distribution Network)**



*Mr. Nathanie Boadu Gamfi is the Lead Foreman for Medium Voltage (MV) and Low Voltage (LV) Distribution Line Networks. He is an experienced foreman with 20 years working in the Electricity Construction Networks and Domestic & Commercial Wiring Installations. He has indepth capabilities of reading drawings and has a good track records in trouble-shooting and fault finding. He has much indepth knowledge in Earthing System and Protective Multiple Earthing (PME's) Installation works. He has successfully constructed and completed major projects across the entire regions in Ghana under the following projects; MOE (SHEP) Projects, ECG Projects, VRA-NEDCo Projects, CWE and HCE Projects, TMG Project, Thengashep Project and MiDA Project.*





THANK YOU FOR YOUR PRECIOUS TIME ..... WE LOOK FORWARD TO HEAR FROM YOU ..... WE ARE AVAILABLE  
TO ENGAGE WITH YOU

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