



**GEM**

# **COMPANY**

## **PROFILE**

**GLOBAL  
ENVIRONMENTAL  
AND ENERGY  
MANAGERS**

COMPLETE CIVIL  
ENGINEERING/QHSE SOLUTIONS



[www.gemangersgh.org](http://www.gemangersgh.org)

# INDEX

- **Company Overview**
- **Expertise**
- **Services**
- **Our mission**
- **Our vision**
- **Our approach to quality assurance & Quality control policy**
- **Safety**
- **Human resource**
- **List of instrument & equipment**
- **Jobs ongoing and executed in the past**
- **Consultancy section**
- **Glimpses of project**
- **Attachment**
- **Certificate of Registration**
- **Trading License**
- **Tax and SSNIT Clearance**
- **Cv's of Proposed Civil Engineers**



## COMPANY OVERVIEW

Global Environmental & Energy Managers Limited also known as “GEM” with its head office based in Takoradi (Ghana) and affiliated with Global Environmental Managers in the United Kingdom. The company was established in the year 2012 there year experiencing and extending with diversification of company business, now company stand as a group of companies.

With our affiliation with Global Environmental Manages UK overs the years, GEM has acquired vast national & international experience gearing up to play leading role in the field of contracting services like civil works, electrical works, building constructions and maintenance, Consultancy and Engineering Service, Quality Health Safety and Environment training and consultancy etc. GEM is to build quality construction projects according to their original specifications, on time and in budget. Architectural craftsmanship, engineering, integrity, honesty, and quality workmanship are what they have built their reputation on since incorporation.



## EXPERTISE

GEM has deep experience in dreamless sector of civil works, electrical works, building constructions and maintenance, Health Safety and Environment, Consultancy and Engineering Service, etc. Since enterprise needs are becoming more challenging, change is more frequent and projects require a variety of skills, we operate cross platform teams for complex projects fusing different technologies.

That is why we pride ourselves on the knowledge, skills and expertise of our employees who work together as a team delivering successful projects. Valuing the importance of relationships, we have a collaborative approach that is flexible and can respond quickly to the needs of our clients

## SERVICES

The company serves its customers at every project phase, from strategy formulation through design, project management and implementation right through to support and upgrades. We are committed to best practices and professional integrity to ensure we deliver quality. Customer satisfaction drives every aspect of their commercial contractor business. These time-honoured qualities are incorporated into every project built by GEM.

GEM's ability to combine the right equipment with our experienced crews and project managers ensures that your site is ready on time even on an accelerated schedule.





Our history of commercial services successes ranges from small scale bridges, warehouses, auditoriums, retrofitting of buildings, training, residential and industrial complexes. GEM provides the highest quality of service for just about every type of commercial project, and that's a promise that's backed by the testimony of more than a half century's worth of satisfied customers.

- Consulting Service
- Architectural Designs
- Civil Works
- Household Construction
- Marine Engineering Works
- Energy Advisory Service
- Environmental Works
- Nebosh Training

## OUR MISSION

Our mission is: To perform for our customers the highest level of quality construction services at fair and market competitive prices. To ensure the longevity of our company through repeat and referral business achieved by customer satisfaction in all areas including timeliness, attention to detail and service-minded attitudes. To maintain the highest levels of professionalism, integrity, honesty and fairness in our relationships with our suppliers, subcontractors, professional associates and customers.

## OUR VISION

To become a global leader in QHSE/ Civil Engineering consultancy and construction and provide our clients the benefit of quality and cost effective QHSE /Civil Engineering solutions services that understands the economic need for future development.





### OUR APPROACH TO QUALITY ASSURANCE/QUALITY CONTROL POLICY

- The Quality group is a collection of individuals responsible for implementing GEM Quality Policy.
- The Quality group is well supported by the Construction Quality Assurance, Civil Engineering Group, knowledge Management Group, and the Training Group
- The Civil Quality Assurance group ensures that the project quality activities are planned and implemented in accordance with our Quality Policy, in all deliverables
- The Civil Engineering Group defines, maintains and improves our Quality Management System.

*GEM is focused to Set the Highest Standards and Benchmarks in QHSE, Civil Engineering Projects and often strive to achieve excellence in their execution, through constant innovation and continual improvement and above all, to always keep foremost in mind our responsibility to the environment and having in mind the sustainability and well-being of our future generations.*

.....  
Date

.....  
Managing Director





## SAFETY

At GEM, we have developed a culture that promotes an injury-free environment and provides the safest workplace possible for our employees, subcontractors, clients and others who enter or who are near our construction sites. Our mantra is: *“Every worker goes home from each of our jobs, every day.”*



We are dedicated to elevating the standards for safety in the construction industry through a wide variety of methods—from zero-tolerance drug testing to our aggressive fall-protection program, which includes partnering with the leaders in the insurance industry to develop the next generation of fall-protection systems. Through innovative training and education programs, we also provide our employees and subcontractors with the tools, knowledge and resources they need to increase safety, reduce risk and improve loss control on every project we manage.

The Company will comply with all relevant environmental legislation, prevention of pollution in all its activities and a sustainable approach to the development and provision of services where applicable.

The Company is committed to high environmental; health, safety and quality standards and we expect all employees to be familiar with and comply with the contents of this Policy, failure of which will be treated as a disciplinary matter. We will encourage the adaption of similar principles by our clients.

This policy will be reviewed and modify whenever necessary at least annually.



## HUMAN RESOURCE

Our human resource department is divided into three (3) namely;

- The Consultancy section: this is made up Well Seasoned Professionals like: Civil Engineers, Oil and Gas Engineering Specialist, Surveyors, MEP Engineers, Environmental/Safety Engineers, Marine Engineers and Architects. Each with more than ten (10 years) experience both locally and abroad.
- The Construction Section: this is made up of professionals like: Technician Engineers, Foremen, Environmental and Safety Technicians and Draughtsmen.
- Administration/Management Section: This is made up of: The Managing Director, HR specialist, Financial Administrator and Logistics Manager and team, and Board of Directors.

## KEY STAFF

|  |                                    |   |
|--|------------------------------------|---|
|  | Managing Director/Team Leader      | 1 |
|  | Principal QHSE/Structural Engineer | 1 |
|  | Hydrologist                        | 1 |
|  | Material Engineer                  | 1 |
|  | Quantity Surveyors                 | 1 |
|  | Administrative /Accounts           | 1 |
|  | Architect                          | 1 |
|  | Geotechnical Engineers             | 2 |
|  | Site Supervisors                   | 5 |
|  | CAD Specialist                     | 2 |
|  | CAD Draughters.                    | 3 |

**LIST OF INSTRUMENT & EQUIPMENT**

| ITEM                        | DESCRIPTIONS                        | NO. | CONDITION |
|-----------------------------|-------------------------------------|-----|-----------|
| <b>LEVELLING INSTRUMENT</b> |                                     |     |           |
|                             | Leica TC 600 Total Station          | 1   | Good      |
|                             | Sokkia Theodolites                  | 1   | Good      |
|                             | Sokkia Surveyor's Level             | 1   | Good      |
|                             | Automatic Level                     | 1   | Good      |
|                             | Nikon Optical Theodolite            | 1   | Good      |
| <b>HEAVY EQUIPMENT</b>      |                                     |     |           |
|                             | Backhoe                             | 1   | Good      |
|                             | Dumper                              | 1   | Good      |
|                             | Kia Trucks                          | 3   | Good      |
|                             | Double Axel Tipper Truck            | 4   | Good      |
|                             | 10 Cubic Drum Mobile Concrete Mixer | 1   | Good      |
|                             | Concrete Mixer (Self-Loader)        | 2   | good      |
|                             | Poker Vibrator                      | 2   | Good      |
|                             | Water Pumping Machine               | 2   | Good      |
|                             | Pickup                              | 6   | Good      |
|                             | Scaffolding                         | Lot | Good      |
|                             | Compressor Machine                  | 1   | Good      |

## OTHER EQUIPMENT AND SOFTWARE

### PROJECT MANAGEMENT SOFTWARE

- Microsoft Project V 2003

### ROAD, BRIDGE, STRUCTURAL DESIGN / SURVEYING & EARTHWORKS SOFTWARE

- Self programmed Excel spread sheet
- Tekla Structures v15
- Staadpro 2005
- Robot Millenium
- F+L Statik
- MIDAS
- GEO5
- PDS v14
- HDM
- MOSS – for Geometric Design Of Roads
- SAM- for Prestressed Bea



### EQUIPMENT THAT CAN BE ACCESSED

- Digital Plane Table with Penmap Software
- Single Frequency Stratus GPS with Pot Processing
- Accessories
- Motorola Communication Equipment
- Field PC's (Laptops to process data )



## JOBS ONGOING AND EXECUTED IN THE PAST

Construction Section:

Table 1. Outlines the list of some relevant works executed and on-going over the past five (5) years as implemented by our firm.

|   | PROJECT NAME                                                                                                   | CLIENT               | AMOUNT INVOLVED | DATE COMPLETED   |
|---|----------------------------------------------------------------------------------------------------------------|----------------------|-----------------|------------------|
| 1 | Refurbishment of a Single Storey Farrage House, Takoradi                                                       | Mrs Christabel Annin | Ghc250,933.00   | Completed (2022) |
| 2 | Construction and retrofitting of 3-Storey Ultimate Hospital at Tema Comm. 25                                   | Dr. Chris Aidoo      | GHc671,285.62   | Completed        |
| 3 | Design and Construction of 4-Bedroom Single Storey at Atiko Junction-Accra                                     | Mr Anthony Barffo    | \$165,094.61    | Completed (2018) |
| 4 | Construction of 5000 seater Auditorium for Faith Alive Church - Ntankoful Highway                              | John Arthur Graham   | \$379,730.56    | Completed (2018) |
| 5 | Design, construction and completion of 33no Piggery Structures at Sanzule                                      | Technoserve Ghana    | GHc596,345.00   | Completed (2018) |
| 6 | Construction and completion of 5no. 3-bedroom flats at winneba                                                 | Emmanuel K. Attah    | Ghc733,408.00   | Completed (2018) |
| 7 | Construction of 3no. 2-bedroom flats at Twifo-Praso                                                            | Praso Oil Palm       | \$99,169.78     | Completed (2017) |
| 8 | Design and Construction of Canteen and Dispensary as part of Refurbishment of Komenda Sugar Factory at Komenda | Saftech PVT. India   | \$414,381.19    | Completed 2017   |



|    |                                                                                                  |                               |                |                  |
|----|--------------------------------------------------------------------------------------------------|-------------------------------|----------------|------------------|
| 9  | Construction of 6 Unit Classroom block, Offices and External works for Dangbe West District      | Dangbe West District Assembly | \$519,024.8    | Completed 2017   |
| 10 | Design, construction and completion of 2no 4-Sstorey Teachers flat at Takoradi                   | Mr Emuna                      | \$1,879,248.00 | Completed 2017   |
| 11 | Design and Construction of a 6-bedroom single storey at Bogoso                                   | Mr. Eward Kojo Mensah         | \$209,144.10   | Completed 2016   |
| 12 | Construction of 1km road at komenda as part of Refurbishment of Komenda Sugar Factory at Komenda | Saftech PVT. India            | \$1,099,478.00 | Completed 2016   |
| 13 | Construction and Completion of 3-Storey Hostel Block at Adenta housing down.                     | Mr Paul Koranteng             | \$455,940.65   | Completed (2015) |
| 14 | Construction and completion of Single Storey block of flats                                      | Mr. Mohammed Saibu            | \$535,135.84   | Completed (2014) |
| 15 | Design, construction and completion of a 3-Storey Blocks of flats for residents                  | Mr. Maxwell Osobabi           | \$1,116,734.89 | Completed (2014) |



# CONSULTANCY SECTION

## Consultant's References (GEM)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                    |                                                                              |
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| Assignment name:<br>Structural Integrity and Accident Investigation<br>for 16 Storey<br>EDAIF Towers Project by AMANDI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    | Country:<br>Ghana                                                            |
| Location within country:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    | Professional Staff Provided by Your<br>Consultancy (profiles)<br>2           |
| Name of Employer:<br>AMANDI CONSTRUCTION / ACCRA METROPOLITAN<br>AUTHORITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    | No. of Staff: over 200                                                       |
| Address:<br>Accra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                    | No. of Professional Staff-Months; Duration<br>of Assignment<br>12            |
| Start date (month/year):<br>December, 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Completion date<br>(month/year):<br>November, 2016 | Approx. Value of Services (in Current US\$):<br>30,000                       |
| Name of associated Consultants, if<br>any:<br>BONADES LTD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    | No. of Months of Professional Staff provided<br>by Associated Consultants: 1 |
| Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and<br>Functions Performed:<br>ING. JOSHUA ALLOTEY & ING MOSES ARKOH (TEAM LEADERS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                    |                                                                              |
| Narrative description of Project:<br>After the partial collapse of a Mezzanine floor during construction, the<br>structural integrity of the whole proposed 16 floor building was to be<br>assessed, and the cause of the accident was to be investigated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |                                                                              |
| Description of actual services provided by your staff: <ul style="list-style-type: none"> <li>■ Initial reconnaissance survey and collection of all necessary data<br/>(including engineering design calculations, drawings, construction methodology,<br/>project plan, safety plans and measures, staffing of the contractor and material test results)</li> <li>■ Conduction of material test, geotechnical test, testing of props, structural remodelling of the<br/>building, structural analysis, conduction of interviews with workers and eye witnesses, reviewing<br/>of drawings and design calculations</li> <li>■ Report writing, conferencing and leading discussions with 21 member committee of investigators</li> </ul> |                                                    |                                                                              |
| <b>CONSULTANT'S NAME: GLOBAL ENVIRONMENTAL &amp; ENERGY MANAGERS LTD (GEM)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                    |                                                                              |



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| Assignment name:<br>5 Level Warehouse Structure at Adabraka                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                               | Country:<br>Ghana                                                       |
| Location within country:<br>Adabraka, Accra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                               | Professional Staff Provided by Your Consultancy (profiles):<br>1        |
| Name of Employer:<br>Accra Metropolitan Authority                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                               | No. of Staff: -                                                         |
| Address:<br>Adabraka, Accra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                               | No. of Professional Staff-Months; Duration of Assignment 2              |
| Start date (month/year):<br>NOVEMBER 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Completion date (month/year):<br>JANUARY 2017 | Approx. Value of Services (in Current US\$):<br>15,000                  |
| Name of associated Consultants, if any:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               | No. of Months of Professional Staff provided by Associated Consultants: |
| Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions Performed:<br>ING. JOSHUA ALLOTEY & ING MOSES ARKOH (TEAM LEADERS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               |                                                                         |
| Narrative description of Project:<br>Neighbours head sounds from the building like sounds of cracks. Looking at the cracks around the building, the neighbours called on the AMA to check on the building. The AMA alerted us to conduct a structural condition survey on the building. Our work led to the recommendation to demolish the building.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                                                         |
| Description of actual services provided by your staff: <ul style="list-style-type: none"> <li>Initial reconnaissance survey and collection of all necessary data (including engineering design calculations, drawings, construction methodology, project plan, safety plans and measures, and material test results)</li> <li>Conduction of material test, geotechnical test, structural remodelling of the building, structural analysis, conduction of interviews with workers and eye witnesses, reviewing of drawings and design calculations</li> <li>Conduction of material test, geotechnical test, structural remodelling of the building, structural analysis, conduction of interviews with workers and eye witnesses, reviewing of drawings and design calculations</li> <li>Report writing</li> <li>Worked out for the controlled demolishing of whole building.</li> </ul> |                                               |                                                                         |
| <b>CONSULTANT'S NAME: GLOBAL ENVIRONMENTAL &amp; ENERGY MANAGERS LTD (GEM)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               |                                                                         |



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| Assignment name:<br>Structural Integrity Assessment of the 6 storey<br>Airport Kudalor building at Airport- Accra, 2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    | Country:<br>Ghana                                                          |
| Location within country:<br>Airport, Accra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    | Professional Staff Provided by Your<br>Consultancy (profiles):<br>4        |
| Name of Employer:<br>AKOSUA INVESTMENT, ACCRA / ACCRA<br>METROPOLITAN AUTHORITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    | No. of Staff: 15                                                           |
| Address:<br>Accra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                    | No. of Professional Staff-Months;<br>Duration of Assignment<br>2           |
| Start date (month/year):<br>JANUARY, 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Completion date<br>(month/year):<br>February, 2015 | Approx. Value of Services (in Current<br>US\$): 6,000                      |
| Name of associated Consultants, if any:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    | No. of Months of Professional Staff<br>provided by Associated Consultants: |
| Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions<br>Performed:<br>ING. JOSHUA ALLOTEY & ING MOSES (TEAM LEADER)                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                    |                                                                            |
| Narrative description of Project:<br>As routine check of the AMA on buildings around the Airport area, some of structural<br>elements were found by the AMA to be suspiciously slender. And hence there was the<br>call for a Structural Integrity Assessment of the 6 floor building.                                                                                                                                                                                                                                                                                                                 |                                                    |                                                                            |
| Description of actual services provided by your staff: <ul style="list-style-type: none"> <li>Initial reconnaissance survey and collection of all necessary data<br/>(including engineering design calculations, drawings, construction methodology,<br/>project plan, safety plans and measures, and material test results)</li> <li>Conduction of material test, geotechnical test, structural re-modelling of the building,<br/>structural analysis, conduction of interviews with workers and eye witnesses,<br/>reviewing of drawings and design calculations.</li> <li>Report writing</li> </ul> |                                                    |                                                                            |
| CONSULTANT'S NAME: GLOBAL ENVIRONMENTAL & ENERGY MANAGERS LTD (GEM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                    |                                                                            |



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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------|
| Assignment name:<br>Structural Integrity Assessment of 3 floors<br>12 classroom block for Wesley girls High S<br>chool at Cape Coast, 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    | Country:<br>Ghana                                                                   |
| Location within country:<br>Cape Coast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                    | Professional Staff Provided by Your<br>Consultancy (profiles):<br><br>1             |
| Name of Employer:<br>Ministry Of Education, Accra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                    | No. of Staff: –                                                                     |
| Address:<br>Ministries, Accra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    | No. of Professional Staff-Months; Duration of<br>Assignment<br><br>1                |
| Start date (month/year):<br>OCTOBER 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Completion date<br>(month/year):<br>February, 2014 | Approx. Value of Services (in Current US\$):<br>6,000                               |
| Name of associated Consultants, if any:<br><br>CAAD AND CAD CONSULT LTD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    | No. of Months of Professional Staff provided<br>by Associated Consultants:<br><br>3 |
| Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions<br>Performed:<br>ING. JOSHUA ALLOTEY (TEAM LEADER) / ING. DR. CYPRIAN WENYONU (PROJECT DIRECTOR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |                                                                                     |
| <p>Narrative description of Project:</p> <p>The school authorities found cracks on the building structure, and therefore suspected that there was a structural problem. The ministry of Education was therefore called upon to investigate the situation.</p>                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |                                                                                     |
| <p>Description of actual services provided by your staff:</p> <ul style="list-style-type: none"> <li>■ Initial reconnaissance survey and collection of all necessary data (including engineering design calculations, drawings, construction methodology, project plan, safety plans and measures, and material test results)</li> <li>■ Conduction of material test, geotechnical test, structural re-modelling of the building, structural analysis, conduction of interviews with workers and eye witnesses, reviewing of drawings and design calculations.</li> <li>■ Report writing</li> </ul> <p><b>CONSULTANT'S NAME: GLOBAL ENVIRONMENTAL &amp; ENERGY MANAGERS LTD (GEM)</b></p> |                                                    |                                                                                     |



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| Assignment name:<br>4 storey affordable housing building for the Ghana Armed Forces at Borteiman in Accra                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                  | Country:<br>Ghana                                                            |
| Location within country:<br>Borteiman, Accra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  | Professional Staff Provided by Your Consultancy (profiles):<br>1             |
| Name of Employer:<br>Ministry Of Defense                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                  | No. of Staff: -                                                              |
| Address:<br>Ministries, Accra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  | No. of Professional Staff-Months; Duration of Assignment<br>2                |
| Start date (month/year):<br>AUGUST 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Completion date (month/year):<br>SEPTEMBER, 2013 | Approx. Value of Services (in Current US\$):<br>12,000                       |
| Name of associated Consultants, if any:<br>CAAD AND CAD CONSULT LTD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  | No. of Months of Professional Staff provided by Associated Consultants:<br>1 |
| Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions Performed:<br>ING. JOSHUA ALLOTEY (TEAM LEADER) / ING. DR. CYPRIAN WENYONU (PROJECT DIRECTOR)                                                                                                                                                                                                                                                                                                                                                                                                  |                                                  |                                                                              |
| Narrative description of Project:<br>The Ministry of Defence wanted to acquire some of the affordable housing buildings for the use of the military personnel. It was therefore very necessary for a structural integrity assessment to be conducted on those building before they are acquired. This is to allow for the knowledge if there is the need to retrofit them, or demolish or use them as they stood.                                                                                                                                                                      |                                                  |                                                                              |
| Description of actual services provided by your staff: <ul style="list-style-type: none"> <li>Initial reconnaissance survey and collection of all necessary data (including engineering design calculations, drawings, construction methodology, project plan, safety plans and measures, and material test results)</li> <li>Conduction of material test, geotechnical test, structural re-modelling of the building, structural analysis, conduction of interviews with workers and eye witnesses, reviewing of drawings and design calculations.</li> <li>Report writing</li> </ul> |                                                  |                                                                              |
| CONSULTANT'S NAME: GLOBAL ENVIRONMENTAL & ENERGY MANAGERS LTD (GEM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |                                                                              |



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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Assignment name:<br>10 nos. 2 and 3 storey building for Blue Pod Ltd in Accra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Country:<br>Ghana                                                            |
| Location within country:<br>Osu, Accra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Professional Staff Provided by Your Consultancy (profiles):<br>1             |
| Name of Employer:<br>Blue Pod Estates (Private Ownership)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No. of Staff: -<br>6                                                         |
| Address:<br>Accra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No. of Professional Staff-Months; Duration of Assignment<br>2                |
| Start date (month/year):<br>NOVEMBER 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Completion date (month/year):<br>December, 2013                              |
| Approx. Value of Services (in Current US\$):<br>5,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                              |
| Name of associated Consultants, if any:<br>CAAD AND CAD CONSULT LTD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No. of Months of Professional Staff provided by Associated Consultants:<br>1 |
| Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions Performed:<br>ING. JOSHUA ALLOTEY (TEAM LEADER) / ING. DR. CYPRIAN WENYONU (PROJECT DIRECTOR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                              |
| <p>Narrative description of Project:</p> <p>During the construction of the estate buildings, a lot of cracks were observed on both the completed and uncompleted buildings. The architect therefore called for a structural integrity assessment to investigate the cause of the problem</p>                                                                                                                                                                                                                                                                                                                                                                                        |                                                                              |
| <p>Description of actual services provided by your staff:</p> <ul style="list-style-type: none"> <li>Initial reconnaissance survey and collection of all necessary data (including engineering design calculations, drawings, construction methodology, project plan, safety plans and measures, and material test results)</li> <li>Conduction of material test, geotechnical test, structural re-modelling of the building, structural analysis, conduction of interviews with workers and eye witnesses, reviewing of drawings and design calculations.</li> <li>Report writing</li> </ul> <p><b>CONSULTANT'S NAME: GLOBAL ENVIRONMENTAL &amp; ENERGY MANAGERS LTD (GEM)</b></p> |                                                                              |



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| Assignment name:<br>Movenpick Hotel – Condition survey                                                                                                                                                                                                                                                                                    |                                                  | Country:<br>Ghana                                                       |
| Location within country:<br>Central Business District, Accra                                                                                                                                                                                                                                                                              |                                                  | Professional Staff Provided by Your Consultancy (profiles):             |
| Name of Employer:<br>Movenpick Hotel Ltd                                                                                                                                                                                                                                                                                                  |                                                  | No. of Staff: –                                                         |
| Address:<br>Accra                                                                                                                                                                                                                                                                                                                         |                                                  | No. of Professional Staff–Months; Duration of Assignment                |
| Start date (month/year):<br>AUGUST 2013                                                                                                                                                                                                                                                                                                   | Completion date (month/year):<br>SEPTEMBER, 2013 | Approx. Value of Services (in Current US\$):<br>2,500                   |
| Name of associated Consultants, if any:                                                                                                                                                                                                                                                                                                   |                                                  | No. of Months of Professional Staff provided by Associated Consultants: |
| Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions Performed:<br>ING. JOSHUA ALLOTEY & ING. MOSES ARKOH                                                                                                                                                                                              |                                                  |                                                                         |
| Narrative description of Project:<br>As part of the routine maintenance check on the Movenpick Hotel building, a structural condition survey was conducted, to assess the structural state of the hotel building.                                                                                                                         |                                                  |                                                                         |
| Description of actual services provided by your staff: <ul style="list-style-type: none"><li>■ Initial reconnaissance survey and collection of all necessary data (including engineering design calculations, drawings)</li><li>■ Report writing</li></ul> <b>CONSULTANT’S NAME: GLOBAL ENVIRONMENTAL &amp; ENERGY MANAGERS LTD (GEM)</b> |                                                  |                                                                         |





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| Assignment name:<br>Red Sea Building System Certifications,<br>Free Zone Enclave, Ghana<br>Tema                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Country:<br>Ghana                                                               |
| Location within country:<br>Tema, Free Zone Enclave, Accra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Professional Staff Provided by Your<br>Consultancy (profiles):<br>1             |
| Name of Employer:<br>RED SEA LTD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No. of Staff: -<br>-                                                            |
| Address:<br>TEma, Free Zone Enclave                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No. of Professional Staff-Months; Duration of<br>Assignment<br>1                |
| Start date (month/year):<br>DECEMBER 2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Completion date (month/year):<br>JANUARY 2015                                   |
| Approx. Value of Services (in Current US\$):<br>5,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                 |
| Name of associated Consultants, if any:<br>CAAD AND CAD CONSULT LTD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No. of Months of Professional Staff provided by<br>Associated Consultants:<br>1 |
| Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions<br>Performed:<br>ING. JOSHUA ALLOTEY (TEAM LEADER) / IND. DR. CYPRIAN WENYONU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                 |
| <p>Narrative description of Project:</p> <p>The Red Sea Company Ltd constructs modular and pre-fab houses and exports them. They intended to produce some of these houses for the use in America, Europe and Asia. They therefore wanted to make sure that their products fulfil the structural requirements of those countries. We were therefore engaged to conduct structural Integrity assessment into the buildings and make sure they meet the code of practise of those countries.</p>                                                                                                                                                                                                              |                                                                                 |
| <p>Description of actual services provided by your staff:</p> <ul style="list-style-type: none"> <li>Initial reconnaissance survey and collection of all necessary data (including engineering design calculations, drawings, construction methodology, project plan, safety plans and measures, and material test results)</li> <li>Conduction of material test, geotechnical test, structural re-modelling of the building, structural analysis, reviewing of drawings and design calculations.</li> <li>Checking the structural stability of the buildings and certifying them</li> <li>Report writing</li> </ul> <p><b>CONSULTANT'S NAME: GLOBAL ENVIRONMENTAL &amp; ENERGY MANAGERS LTD (GEM)</b></p> |                                                                                 |



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| Assignment name:<br>STRUCTURAL INVESTIGATION OF FRUIT OF CHRIST CHURCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                               | Country:<br>Ghana                                                       |
| Location within country:<br>Awoshie, Accra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               | Professional Staff Provided by Your Consultancy (profiles):<br>1        |
| Name of Employer:<br>Fruit Of Christ Church                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                               | No. of Staff: -<br>-                                                    |
| Address:<br>Awoshie, Accra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               | No. of Professional Staff-Months; Duration of Assignment<br>2           |
| Start date (month/year):<br>DECEMBER 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Completion date (month/year):<br>JANUARY 2016 | Approx. Value of Services (in Current US\$):<br>12,000                  |
| Name of associated Consultants, if any:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               | No. of Months of Professional Staff provided by Associated Consultants: |
| Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions Performed:<br>ING. JOSHUA ALLOTEY& ING. MOSES ARKOH (TEAM LEADER)                                                                                                                                                                                                                                                                                                                                                                                                                               |                                               |                                                                         |
| Narrative description of Project:<br>Part of the Church 4 storey building collapsed and fell into a neighbour 's house. The AMA decided that an investigation be conducted into the cause of the collapse and also to conduct structural integrity assessment into the stability of the building. This was the work we did.                                                                                                                                                                                                                                                             |                                               |                                                                         |
| Description of actual services provided by your staff: <ul style="list-style-type: none"> <li>Initial reconnaissance survey and collection of all necessary data (including engineering design, calculations, drawings, construction methodology, project plan, safety plans and measures, and material test results)</li> <li>Conduction of material test, geotechnical test, structural re-modelling of the building, structural analysis, conduction of interviews with workers and eye witnesses, reviewing of drawings and design calculations.</li> <li>Report writing</li> </ul> |                                               |                                                                         |
| CONSULTANT'S NAME: GLOBAL ENVIRONMENTAL & ENERGY MANAGERS LTD (GEM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |                                                                         |



## GLIMPSES OF PROJECT

### SAFETY TRAINING SESSION



### CONSTRUCTION OF CONCRETE QUAY





## EXCAVATION OF PIPE COOLING SYSTEM



## CONCRETE CASTING FOR COLLAR



## REDEVELOPMENT OF ACCESS ROAD, AND FILLING AND COMPACTION OF GRP PIPES





## WASHROOMS: PORTA CARBINS



## SOIL DISPLACEMENT TEST AT TICO





## FLOOR CONCRETE TEST AT TICO



## SWIMMING POOL AT 2BN BARRACKS



## NARUBIZ RUBBER PROCESS FACTORY CONSTRUCTION





## STRUCTURAL AUDIT AT NEWMONT



## PLATFORM CONSTRUCTION FOR AIR FILTERS AT TICO





## STRUCTURAL AUDIT AT DAMANG



“

*Hard work + Honesty  
equates success*

ING. MOSES ARKOH



“

*You've got to get up every  
morning with determination if  
you're going to go to bed with  
satisfaction.- George Lorimer*

**ING. MOSES ARKOH**  
CHIEF EXECUTIVE OFFICER

