



REPUBLIC OF GHANA



TECHNICAL PROPOSAL

FOR

CONSULTANCY SERVICES FOR CONSTRUCTION SUPERVISION OF
50 SENIOR HIGH SCHOOL STRUCTURES AND ANCILLARY WORKS

IN

TEN (10) DISTRICTS IN THE BRONG AHAFO AND UPPER WEST
REGIONS OF GHANA (LOT PII/SC03)

RFP NO: MOE/GOG/CSHSP/RT/01/SC03/2015

FOR

MINISTRY OF EDUCATION
(COMMUNITY SENIOR HIGH SCHOOL PROJECT- CSHSP)

Submitted By

A&QS CONSORTIUM LTD
Post Office Box 531
Wa, Upper West Region

April, 2015



Our Ref. AQS.35
Your Ref.

P.O. Box 531 • Wa, Upper West Region • Ghana • Tel. 0244-222751, 03920-20484 Date: 15th April, 2015

The Chief Director
Ministry of Education, Headquarters
K Block Ground Floor
P. O. Box M45,
Ministries - Accra, Ghana

Dear Sirs:

TECHNICAL PROPOSAL

CONSULTANCY SERVICES FOR CONSTRUCTION SUPERVISION OF 50 SENIOR HIGH SCHOOL STRUCTURES AND ANCILLARY WORKS IN TEN (10) DISTRICTS IN THE BRONG AHAFO AND UPPER WEST REGIONS OF GHANA (LOT PII/SC03)

We, the undersigned, offer to provide the Consulting Services for the **Construction Supervision of 50 Senior High School Structures and Ancillary Works in Ten (10) Districts in the Brong Ahafo and Upper West Regions of Ghana (LOT PII/SC03)** in accordance with your request for Proposal dated **March 20, 2015** and our Proposal.

We are hereby submitting our Proposal, which includes this Technical Proposal and a Financial Proposal enclosed in a separate envelope.

If negotiations are held during the period of validity of the Proposal of **90 days** after submission date i.e. **Monday 20th April 2015**, we undertake to negotiate on the basis of the proposed staff. Our Proposal is binding upon us and subject to the modifications resulting from contract negotiations.

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,

Mr. A. K. Kuundaari
FGhIS, MRICS, MCIOB, MBeng
Director - A&QS Consortium Ltd

Email: aqscon@yahoo.com
Tel: 0244222751/0208390304

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS that **A&QS CONSORTIUM LTD** of P.O. Box 531, Wa, in the Upper West Region of the Republic of Ghana has made constituted and appointed **MR. ANDREW K. KUUNDAARI**, its Managing Director, as its true and **Lawful Attorney** for it and in its stead to do and perform for any and all of the following acts namely:

-
- 1) In its name and on its behalf to negotiate, conclude, sign and execute any contracts, conveyances, transfers deeds and instruments whatsoever.
- 2) In its name and on its behalf to perform and carry into effects any agreements made by the company with any other person or persons.
- 3) To receive, accept and transfer or demand same to enforce payment or receipts and discharges for all sums of money, securities for money, debt and other property now due or belonging or which may hereafter become due or belong to the Company.
- 4) In its name and on its behalf to bring or defend any action or other proceedings affecting the Company's business, with Special Reference to: **CONSULTANCY SERVICES FOR THE CONSTRUCTION SUPERVISION OF 50 SENIOR HIGH SCHOOL STRUCTURES AND ANCILLARY WORKS IN TEN (10) DISTRICTS IN THE BRONG AHAFO AND UPPER WEST REGIONS OF GHANA (LOT PII/SC03)**
- 5) That all signatures appearing on the company's documents are the true signatures of the Managing Director: **MR. ANDREW K. KUUNDAARI**.
- 6) That the company agrees to ratify and confirm whatsoever it's said Attorney shall do or cause to be done by either of these presents and declare that this Power of Attorney shall be operative from today's date until such time it is revoked by the company.

..... (DR. ERNEST Y. KUNFAA)

..... (MR. ANDREW K. KUUNDAARI)

Chairman – Board of Directors

Managing Director

DATED IN WA THIS:.....14th..... Day of April, 2015.

SECRETARY: MR. LAWRENCE YELKUMO

SIGN.....

Witnessed by:

NAME:

SIGN.....



Our Ref. AQS.35
Your Ref.

P.O. Box 531 • Wa, Upper West Region • Ghana • Tel. 0244-222751, 03920-20484 Date: 15th April, 2015

The Chief Director
Ministry of Education, Headquarters
K Block Ground Floor
P. O. Box M45,
Ministries - Accra, Ghana

Dear Sir/ Madam,

STATEMENT OF COMPLIANCE

CONSULTANCY SERVICES FOR CONSTRUCTION SUPERVISION OF 50 SENIOR HIGH SCHOOL STRUCTURES AND ANCILLARY WORKS IN TEN (10) DISTRICTS IN THE BRONG AHAFO AND UPPER WEST REGIONS OF GHANA (LOT PII/SC03)

We the undersigned solemnly declare our adherence to the rules and ethics of all proceedings governing this exercise as stated herein.

We hereby certify that to the best of our knowledge, all the information provided in this proposal, is accurate and complete, no misleading or false information is provided, and that the information provided herein accurately and completely describe the professional qualifications, experience and competence of A&QS Consortium Limited.

We also understand that we risk forfeiting our qualification if any of such information is found to be false or misleading.

We also wish to state that no information about our firm presently or with the passage of time could materially impair our firm's ability to provide the level of services required.

We further certify that, our firm is in good standing and in compliance with the governing laws of Ghana in terms of legal and corporate registration, financial and other tax obligations, SSNIT regulations, and in good standing with the Ghana Institution of Surveyors (GhIS) which regulates consultancy services within the industry.

The following references are provided for your further enquiries concerning this assignment.

**GHANA REVENUE AUTHORITY
MEDIUM TAX OFFICE (MTO)
TAMALE - NORTHERN REGION
TEL: 3720-23445/22204**

**SOCIAL SECURITY AND NATIONAL INSURANCE TRUST
WA BRANCH OFFICE
WA – UPPER WEST REGION
TEL: 03920-22043**

GHANA INSTITUTION OF SURVEYORS
P. O. BOX 916 - ACCRA
EMAIL: info@ghisonline.org
WEBSITE: www.ghisonline.org
TEL: 0302-220191

THE REGISTRAR OF BUSINESS NAMES
P.O. BOX 118 - ACCRA
TEL: 0302-664691-93

We remain,

Yours sincerely,

Mr. A. K. Kuundaari
MRICS, MCIOB, MBeng, FGhIS
Director - A&QS Consortium Ltd

Email: aqsccon@yahoo.com
Tel: 0244222751/0208390304

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0 INTRODUCTION

0.1 General

This proposal has been prepared by **A&QS Consortium Ltd** in response to an invitation by the **Ministry of Education (MOE)**, dated **March 20, 2015** under the Community Senior High School Project (CSHSP) to submit proposals for consultancy services for the **Construction Supervision of 50 Senior High School Structure and Ancillary Works in ten (10) Districts in the Brong Ahafo and Upper West Regions of Ghana.**

0.2 Project Background

The **Ministry of Education (MOE)** intends to apply a portion of its budgetary allocation from the 2015 budget to cover eligible payments under the contract for which this request for proposals is requested towards the **Community Senior High School Project (CSHSP)** for the **Construction Supervision of 50 Senior High School Structure and Ancillary Works in ten (10) Districts in the Brong Ahafo and Upper West Regions of Ghana.**

0.3 Project objectives & Scope of Services

The scope of services to be provided by the consulting firm includes but not limited to pre-and post-contract activities.

The overall objectives of the consultancy services required as stated in the TOR and scope of works given by the Client include the following:

- a) Access existing detailed designs and relevant documentation provided by the Funds and Procurement Management Unit of the Ministry of Education and review all the detailed designs and relevant documentation.
- b) Provide consultancy services for the construction of new educational infrastructure with respect to 24-Unit Classroom Blocks and Ancillary Facilities (E-Block)
- c) Carry out hydrogeological studies to allow for drilling of boreholes which will be mechanized for supply of portable water,
- d) Carry out geotechnical studies to determine soil bearing capacity, soil profile, type of foundations required and probable settlement of proposed sites,
- e) Ensure adherence of contractors to quality assurance requirements in the execution of all prescribed works
- f) Provide sound site supervision practices and general contract administration to secure delivery of the works without undue cost and time overrun
- g) Enforce implementation of all safeguards in collaboration with the environmental and social management team

The Consultant (Messrs A&QS Consortium Ltd) is therefore submitting Technical and Financial proposals for Pre and Post-Contract services covering the review of detailed designs and relevant documentation to be provided by the Employer and **Construction Supervision of 50 Senior High School Structure and Ancillary Works in ten (10) Districts in the Brong Ahafo and Upper West Regions of Ghana.**

The financial proposal will be submitted under a separate cover.

0.4 Outline of Proposal

Chapter 1: Profile of the Firm and examples of similar works undertaken

Chapter 2: The Consultant's appreciation of the project, and a discussion of the TOR.

Chapter 3: Outlines the Consultant's approach and methodology for implementing the Consultancy Services successfully.

Chapter 4: An outline of the Consultant's work programme and key personnel for the project presented. Enclosed are the curriculum vitae of the personnel.

Chapter 5: Gives the outline of the Consultant's Reporting Schedule.

1 PROFILE OF THE FIRM & RELEVANT EXPERIENCE

1.1 Background of Firm

A&QS Consortium Ltd is an Architectural, Engineering, Quantity Surveying and Planning firm. It was established in 1996 as PEPSC A&QS Consortium and re-organised under different management in 2001 to provide Consultancy services through a multi-disciplinary and integrated approach.

The firm as a result, offers a broad spectrum of Consultancy services covering planning, architectural, engineering, project management and quantity surveying and has the requisite capacity to perform assignments to the satisfaction of its Clients.

With a strong presence in the three (3) Northern regions namely; Upper West, Upper East and Northern Region, A&QS Consortium Ltd is strategically located to provide a reliable and sustainable consultancy service to the Ministry of Education (MOE) towards the **Construction Supervision of 50 Senior High School Structure and Ancillary Works in ten (10) Districts in the Brong Ahafo and Upper West Regions of Ghana**. With our vast experience and presence in the Brong Ahafo and Ashanti regions, we have successfully executed consultancy assignments within the country to the satisfaction of our client.

A&QS Consortium Ltd is independent of any Manufacturing, Contracting or Governmental interest and is fully committed to providing professional service and advice based on the most up to date professional tools and relevant practice.

Messrs A&QS Consortium Ltd in providing quality services within the construction industry, liaise with both private and public sector institutions to achieve edge cutting results.

The vast experience of the firm in the delivery of educational infrastructure within the country has resulted in the supervision of classroom blocks, dormitory blocks, administration blocks, staff quarters etc across the Northern, Upper East, Ashanti, Brong Ahafo and Upper West regions of Ghana with the support of donor agencies and partners.

This effort is aim at transforming educational institutions into a highly productive, efficient, competitive and sustainable system that provides tertiary programmes to its students. To achieve this, Messrs A&QS Consortium Ltd understands that, this requires a comprehensive change across the infrastructure base of these institutions facilitated by an equally competent design, supervision, and cost control of educational infrastructure.

1.2 Areas of Professional Operations

A&QS Consortium has over the years handled design and construction supervision of varied rural and urban projects for both public and private sector institutions successfully, with due cognizance to cost control, value for money, construction safety and quality assurance, to the utmost satisfaction of our clients.

The areas of activities of the firm include:

- Educational Infrastructure
- Administrative/offices buildings
- Scientific and medical facilities
- Leisure and recreational facilities
- Industrial and Commercial Building Projects
- Religious/traditional facilities
- Residential and civic infrastructure

Services offered include the following:

- Civil & Structural Engineering Services
- Mechanical and Electrical Engineering services
- Architectural Services and Planning
- Project Review and Appraisal/feasibility studies
- Quantity Surveying and Contract Management
- Management Consultancy

BUSINESS ADDRESS: A&QS Consortium Ltd
P. O. Box 531
Wa UWR
Tel. +233-3920-20484
Mobile: 0244-222751
E-mail: aqscon@yahoo.com

OFFICE LOCATIONS: **Head Office:**
Upper West Region – Wa:
Wa – Dorimon Road (1.5km from Town Centre)
PEPS-C Satellite House

Other Branches:

1. Northern Region – Tamale, Water Village Yard, Tel: 03720-27821
2. Upper East Region – Bolgatanga, Zuarungu Road by the former Police Barrier, Tel: 03820-24901

BANKERS: Stanbic Bank Ghana Ltd, Wa Branch
National Investment Bank, Wa Branch

CONTACT PERSON: Andrew K. Kuundaari
Managing Director (0244222751/0208390304)

1.3 Material Resources, Equipment and Vehicles

The equipment and vehicle holding of the firm which would be utilized, among others in the execution of the assignment are listed below

1.3.1 Material Resources and Software's

1. Masterbill Elite
2. QSCad
3. QS Solutions
4. AutoCAD
5. Autodesk Revit
6. Microsoft office suit(Word, Excel, Power Point, Access)
7. Microsoft office Project

1.3.2 Equipment

1. Computers (Desktops)	6No.
2. Laptops	6No
3. Printers	6No
4. Scanner/Photocopier/Printer	2No
5. Photocopiers	3No
6. HP 500/800 Plotter	1No
7. Binding Machine	4No
8. Blue print and developing machine	1No.
9. Drawing machines	6No.
10. Theodolite and accessories	1No
11. Digital Camera (Sony/Samsung)	4No

1.3.3 Vehicles

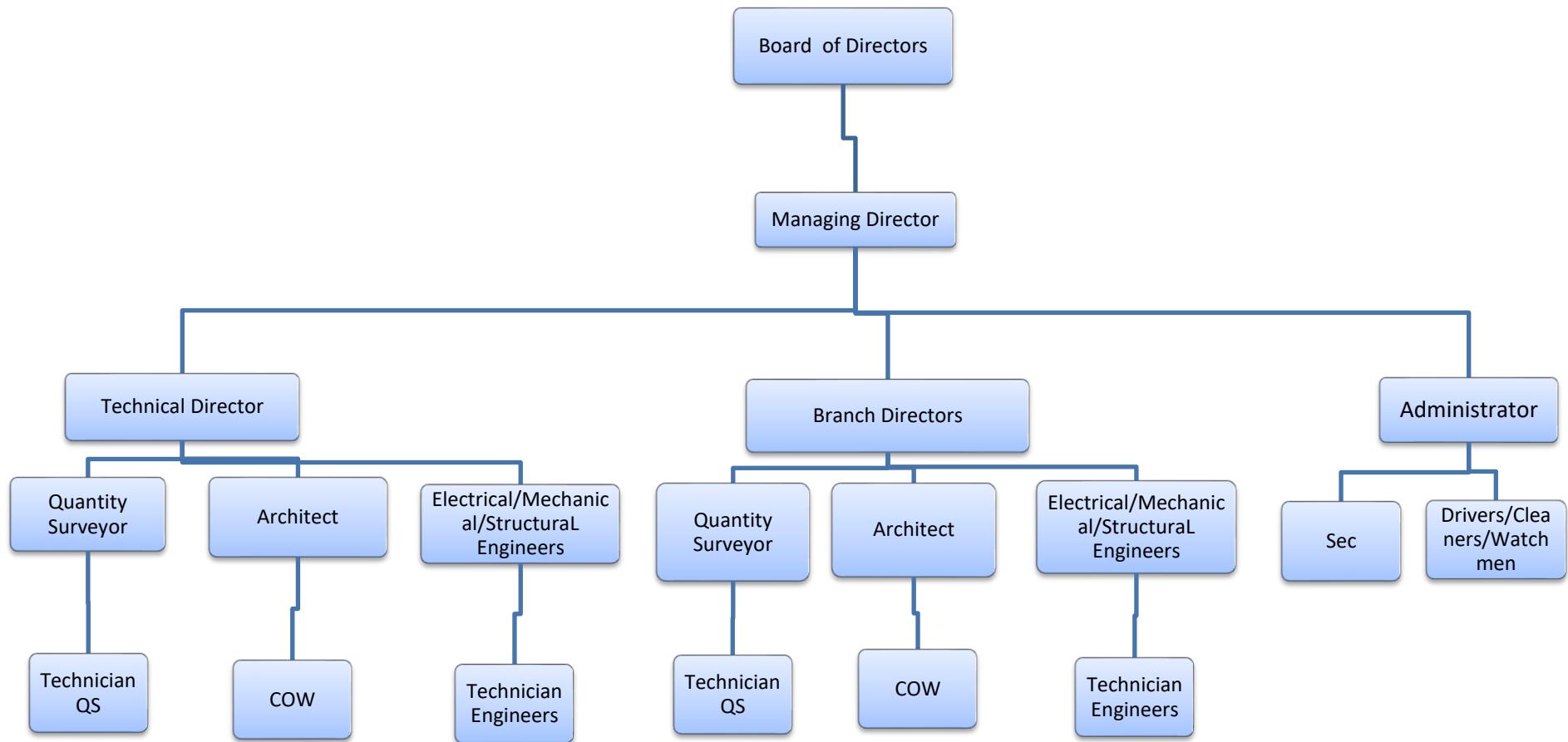
1. Toyota Pick-up (4x4)	5No.
2. Toyota Land Cruiser Prado (4x4)	1No.
3. Nissan Navara (4x4)	1No.
4. Nissan Pickup Hard Body (4x4)	1No.
5. Hyundai Cargo Truck	1No.
6. Motor bike	1No.

1.3.4 List of Board of Directors and Beneficial Ownership

Name & Address of Director	Name & Address of Director
Mr. Andrew K. Kuundaari A&QS Consortium Ltd Post Office Box 531 Wa, Upper West Region Tel: 0244222751/0208390304 Email: aqcon@yahoo.com	Dr. Ernest Y. Kuufaa A&QS Consortium Ltd Post Office Box 531 Wa, Upper West Region Tel: 0243113517/0208121498 Tel: yekuufaa03@yahoo.com
Dr. Francis Banka A&QS Consortium Ltd Post Office Box 531 Wa, Upper West Region Tel: 0392020484	

1.3.5 Organizational Chart of A&QS Consortium Ltd

Please see diagram below



1.4 Assignments of Similar Nature and Complexity

A&QS Consortium Ltd has over the last Fourteen (14) years, designed, supervised and facilitated the construction of 3-storey and 2-storey administration blocks, 3-storey dormitory blocks, 1-storey classroom blocks and dormitory blocks, among others aimed at improving the infrastructure base of educational institutions within the country.

The firm has equally supervised the rehabilitation, refurbishment, renovation, design and construction of various educational infrastructure projects with the aim of ensuring sustainable infrastructure base for educational institutions within the country.

The vast experience of the firm in the delivery of infrastructure within the country has resulted in the supervision of administration blocks, classroom blocks, dormitory blocks etc across the Northern, Upper East and West, Ashanti and Brong - Ahafo Regions of Ghana with the support of donor agencies and partners.

This effort is aim at transforming educational institutions into a highly productive, efficient, competitive and sustainable system. To achieve this, Messrs A&QS Consortium Ltd understands that, this requires a comprehensive change across the infrastructure base of these institutions facilitated by an equally competent design, supervision, and cost control of infrastructure.

1.4.1 New Construction Works Supervision

Please see Page 18 to 62

1.4.2 Rehabilitation/Refurbishment/ Renovation Works Supervision

Please see Page 63 to 73

Table 1: Assignments of Similar Nature**NEW CONSTRUCTION**

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications		
Assignment Name: Construction of 2- Storey Administration/Laboratory Block at OLL SHS (Navrongo)	Country: Ghana	
Location within Country: Navrongo - Upper East Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W	
Name of Client: GETFund/Upper East Regional Coordinating Council		Number of staff :- 4
Address: P O Box 50, Bolgatanga - Ghana Tel:03820-22040/22414	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 3 Duration of Assignment:- 15 months
Start Date (month/year): June 2011	Completion date (month/year) September 2012	Approximate value of services: GHS 37,538.89
Funding Agency: GETFund		
Name of Associated Consultants: None		No. of months of Professional staff provided by Associated consultants: None
Name of Key Personnel involved and functions performed:-		
Design/Supervision Team		
1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Moses Amah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor 8. Appau Kwadwo – Geodetic Engineer		
Narrative Description of project:- Construction of 494m ² capacity block, External works, Drainage works, Rain Water Harvesting System, Electricals, plumbing works		
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)		
Firm's Name: A&QS Consortium Ltd.		

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications		
Assignment Name: Construction of 3-Storey Office Administration Block Complex for Lands Commission	Country: Ghana	
Location within Country: Wa – Upper West Region	Professional staff provided by your firm: 1 A, 1SE, 1 QS, 1 EE & 1 C.O.W	
Name of Client: Lands Commission – Head Office Accra	Number of staff :- 5	
Address: P O Box MB Accra		No. of Staff Months : 24 Duration of Assignment:- 12 months
Start Date (month/year): April 2007	Completion date (month/year) May 2008	Approximate value of services: GHS 52,000.00
Funding Agency:		
Name of Associated Consultants: None		No. of months of Professional staff provided by Associated consultants: None
Name of Key Personnel involved and functions performed:-		
<u>Design/Supervision Team</u>		
1. A. K. Kuundaari - Project Coordinator/Contract Administrator		
2. Yakubu Salifu - Architect		
3. Dabi Kwesi Wolase - Structural Engineer		
4. Festus Quansar - Mechanical Engineer		
5. Ibrahim Azumah - Electrical Engineer		
6. John Bosco Zagleh - Clerk of Works		
7. Diyaudeen Khalid - Assist. Quantity Surveyor		
8. Appau Kwadwo – Geodetic Engineer		
Narrative Description of project:- Construction of modern office complex block, External works, Drainage works, Electricals, plumbing works, drilling and mechanization of boreholes		
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)		
Firm's Name: A&QS Consortium Ltd.		

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications	
Assignment Name: Construction of 1No. Optical Workshop at Sunyani	Country: Ghana
Location within Country: Sunyani – Brong Ahafo Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W
Name of Client: Swiss Red Cross/Ghana Red Cross Society	Number of staff :- 4
Address: P O Box Sunyani BAR	No. of Staff Months : 3 Duration of Assignment:- 4 months
Start Date (month/year): March 2003	Completion date (month/year) June 2003
	Approximate value of services: USD \$ 2,000.00
Funding Agency:	
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None
Name of Key Personnel involved and functions performed:-	
Design/Supervision Team	
1. A. K. Kuundaari - Project Coordinator/Contract Administrator	
2. Yakubu Salifu - Architect	
3. Dabi Kwesi Wolase - Structural Engineer	
4. Festus Quansar - Mechanical Engineer	
5. Ibrahim Azumah - Electrical Engineer	
6. John Bosco Zagleh - Clerk of Works	
7. Diyaudeen Khalid - Assist. Quantity Surveyor	
8. Appau Kwadwo – Geodetic Engineer	
Narrative Description of project:- Construction of 80 chairs capacity block, External works, Drainage works, Electricals, plumbing works	
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)	
Firm's Name: A&QS Consortium Ltd.	

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction of 6No. Rural Technology Facility (RTF) Workshops at Bole, Adidome, Donkorkrom, Goaso, Half Assini (PHASE 3)	Country: Ghana			
Location within Country: Bole, Adidome, Donkorkrom, Goaso, Half Assini	Professional staff provided by your firm: 1 A, 1 QS, 1 E & 1 C.O.W, 1SE			
Name of Client: RURAL ENTERPRISES PROJECT/MSME	Number of staff :- 5			
Address: P O Box 6841, Kumasi - Ghana	No. of Staff Months : 3 Duration of Assignment:- 3 months			
Start Date (month/year): March 2009	Completion date (month/year) June 2009	Approximate value of services: USD \$ 16,800.00		
Funding Agency: African Development Bank (AfDB)				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
Design/Supervision Team				
1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. John Marfo - Architect 3. Dabi Kwesi Wolse - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Ibrahim Azumah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor				
Narrative Description of project:- Construction of 472m2 capacity Workshop, machine rooms & bases, External works (Chain Link Fencing, Pavements), Drainage works, Electrical Installations, Plumbing works, Rain Water Harvesting System				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction & Extension of 2No. Rural Technology Facility (RTF) Workshops at Bechem and Bekwai	Country: Ghana			
Location within Country: Bechem and Bekwai - Ashanti & Brong Ahafo Regions	Professional staff provided by your firm: 1 A, 1 QS, 1 E & 1 C.O.W, 1SE			
Name of Client: RURAL ENTERPRISES PROJECT/MSME	Number of staff :- 5			
Address: P O Box 6841, Kumasi - Ghana	No. of Staff Months : 3 Duration of Assignment:- 3 months			
Start Date (month/year): May 2010	Completion date (month/year) November 2010	Approximate value of services: USD \$ 10,734.00		
Funding Agency: African Development Bank (AfDB)				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
<p>Design/Supervision Team</p> <ol style="list-style-type: none"> 1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. John Marfo - Architect 3. Dabi Kwesi Wolse - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Ibrahim Azumah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor 				
Narrative Description of project:- Construction of 472m ² capacity Workshop, machine rooms & bases, External works (Chain Link Fencing, Pavements), Drainage works, Electrical Installations, Plumbing works, Rain Water Harvesting System				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications		
Assignment Name: Construction & Extension of 2No. Rural Technology Facility (RTF) Workshops at Konongo and Berekum		Country: Ghana
Location within Country: Konongo and Berekum		Professional staff provided by your firm: 1 A, 1 QS, 1 E & 1 C.O.W, 1SE
Name of Client: RURAL ENTERPRISES PROJECT/MSME		Number of staff :- 5
Address: P O Box 6841, Kumasi - Ghana		No. of Staff Months : 3 Duration of Assignment:- 3 months
Start Date (month/year): May 2010	Completion date (month/year) November 2010	Approximate value of services: USD \$ 10,734.00
Funding Agency: African Development Bank (AfDB)		
Name of Associated Consultants: None		No. of months of Professional staff provided by Associated consultants: None
Name of Key Personnel involved and functions performed:-		
<p>Design/Supervision Team</p> <ol style="list-style-type: none"> 1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. John Marfo - Architect 3. Dabi Kwesi Wolse - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Ibrahim Azumah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor 		
Narrative Description of project:- Construction of 472m ² capacity Workshop, machine rooms & bases, External works (Chain Link Fencing, Pavements), Drainage works, Electrical Installations, Plumbing works, Rain Water Harvesting System		
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)		
Firm's Name: A&QS Consortium Ltd.		

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications	
Assignment Name: Construction & Extension of 3No. Rural Technology Facility (RTF) Workshops at Goaso, Biniani and Asankragwa	Country: Ghana
Location within Country: Goaso, Biniani and Asankragwa	Professional staff provided by your firm: 1 A, 1 QS, 1 E & 1 C.O.W, 1SE
Name of Client: RURAL ENTERPRISES PROJECT/MSME	Number of staff :- 5
Address: P O Box 6841, Kumasi - Ghana	No. of Staff Months : 3 Duration of Assignment:- 3 months
Start Date (month/year): May 2010	Completion date (month/year) November 2010
	Approximate value of services: USD \$ 16,800.00
Funding Agency: African Development Bank (AfDB)	
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None
Name of Key Personnel involved and functions performed:-	
Design/Supervision Team	
1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. John Marfo - Architect 3. Dabi Kwesi Wolse - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Ibrahim Azumah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor	
Narrative Description of project:- Construction of 472m2 capacity Workshop, machine rooms & bases, External works (Chain Link Fencing, Pavements), Drainage works, Electrical Installations, Plumbing works, Rain Water Harvesting System	
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)	
Firm's Name: A&QS Consortium Ltd.	

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction of 2- Storey Administration/Laboratory Block at St. Francis Xavier SHS (Wa)	Country: Ghana			
Location within Country: Wa - Upper West Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W			
Name of Client: GETFund/Upper West Regional Coordinating Council	Number of staff :- 4			
Address: P O Box 151, Wa - Ghana Tel:03920-22073/22074	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 3 Duration of Assignment:- 12 months		
Start Date (month/year): June 2013	Completion date (month/year) August 2014	Approximate value of services: GHS 41,428.38		
Funding Agency: GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
Design/Supervision Team				
1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Moses Amah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor 8. Appau Kwadwo – Geodetic Engineer				
Narrative Description of project:- Construction of 494m ² capacity block, External works, Drainage works, Rain Water Harvesting System, Electricals, plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction of 3No. 2-Storey Administration Block/ Library Block at Gwollu SHS, T.I. Ahmadiyya SHS & Wa Islamic SHS	Country: Ghana			
Location within Country: Gwollu, Wa - Upper West Region	Professional staff provided by your firm: 1 A, 1 QS, 1 E & 1 C.O.W, 1SE			
Name of Client: GETFund/Upper West Regional Coordinating Council	Number of staff :- 5			
Address: P O Box 151, Wa - Ghana Tel: 03920-22073/22074	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 3 Duration of Assignment:- 10 months		
Start Date (month/year): March 2011	Completion date (month/year) January 2012	Approximate value of services: GHS69,325.20		
Funding Agency: GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
Design/Supervision Team				
1. A. K. Kuundaari - Project Coordinator/Contract Administrator				
2. Yakubu Salifu - Architect				
3. Dabi Kwesi Wolase - Structural Engineer				
4. Festus Quansar - Mechanical Engineer				
5. Moses Amah - Electrical Engineer				
6. John Bosco Zagleh - Clerk of Works				
7. Diyaudeen Khalid - Assist. Quantity Surveyor				
8. Appau Kwadwo – Geodetic Engineer				
Narrative Description of project:- Construction of 472m ² capacity Administration Block, LAN Network Services, Electrical Installations, Plumbing works, Rain Water Harvesting System				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction of 3No. Single Storey District Assembly Administration/Conference Hall Blocks at Gwollu, Funsi & Wechiau	Country: Ghana			
Location within Country: Gwollu, Funsi & Wechiau - Upper West Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W			
Name of Client: Sissala West, Wa East & Wa West District Assemblies	Number of staff :- 4			
Address: P O Box 99 - Gwollu, PMB – Funsi, Ghana	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 5 Duration of Assignment:- 12 months		
Start Date (month/year): October 2007	Completion date (month/year) September 2008	Approximate value of services: GHS 66,000.00		
Funding Agency: District Assembly Common Fund (DACF)				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
<p>Design/Supervision Team</p> <ol style="list-style-type: none"> 1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Moses Amah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor 				
Narrative Description of project:- Construction of Office administration Block, Conference Halls, External works, Drainage works, Rain Water Harvesting System, Electricals, plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction of 1No. 2-Storey Administration Block Complex at Nadowli	Country: Ghana			
Location within Country: Nadowli - Upper West Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W			
Name of Client: Nadowli District Assembly	Number of staff :- 4			
Address: P O Box 1, Nadowli - Ghana	Contact Person: The District Chief Executive /District Planning Officer	No. of Staff Months : 3 Duration of Assignment:- 12 months		
Start Date (month/year): April 2011	Completion date (month/year) March 2013	Approximate value of services: GHS 25,000.00		
Funding Agency: HIPC Relief Fund /District Assembly Common Fund (DACF)				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
<u>Design/Supervision Team</u>				
1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Moses Amah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor				
Narrative Description of project:- Construction of 1500m ² capacity block, External works, Drainage works, Electricals, plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction of 1No. Single Storey Administration Block at Han SHTS (Upper West Region)	Country: Ghana			
Location within Country: Han - Upper West Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W			
Name of Client: GETFund/Upper West Regional Coordinating Council	Number of staff :- 4			
Address: P O Box 151 - Wa, Ghana Tel: 03920- 22073/22074	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 5 Duration of Assignment:- 11 months		
Start Date (month/year): October 2007	Completion date (month/year) September 2008	Approximate value of services: GHS 38,000.00		
Funding Agency: GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
Design/Supervision Team				
1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Moses Amah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor				
Narrative Description of project:- Construction of Office administration Block, Conference Hall, External works, Drainage works, Rain Water Harvesting System, Electricals, plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications

Assignment Name: Construction of 1No. 3-Storey 750 Bed Capacity Girls Dormitory Block at Ghana SHS - Tamale		Country: Ghana
Location within Country: Tamale - Northern Region		Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W
Name of Client: GETFund/Northern Regional Coordinating Council		Number of staff :- 4
Address: P O Box 100, Tamale - Ghana TeL:03720-22663/22727	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 3 Duration of Assignment:- 12 months
Start Date (month/year): September 2010	Completion date (month/year) February 2014	Approximate value of services: GHS 119,420.79
Funding Agency: GETFund		
Name of Associated Consultants: None		No. of months of Professional staff provided by Associated consultants: None
Name of Key Personnel involved and functions performed:-		
<p>Design/Supervision Team</p> <ol style="list-style-type: none"> 1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Moses Amah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor 8. Appau Kwadwo – Geodetic Engineer 		
Narrative Description of project:- Construction of 750 bed capacity Dormitory, External works, Drainage works, Rain Water Harvesting System, Electricals, plumbing works		
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)		
Firm's Name: A&QS Consortium Ltd.		

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction of 1No. 3-Storey Block of 6-Flats, 3-bedroom Bungalow, External and Associated Works at Gonokrom	Country: Ghana			
Location within Country: Gonokrom – Brong Ahafo Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W			
Name of Client: Ghana Immigration Service	Number of staff :- 4			
Address: P O Box PMB, Ministries Post Office- Accra Ghana		No. of Staff Months : 3 Duration of Assignment:- 10 months		
Start Date (month/year): January 2008	Completion date (month/year) October 2008	Approximate value of services: GHS 42,630.00		
Funding Agency:				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
Design/Supervision Team				
1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Moses Amah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor 8. Appau Kwadwo – Geodetic Engineer				
Narrative Description of project:- Construction of 6 flats, 3bedroom bungalow, External works, Drainage works, Electricals, plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications

Assignment Name: Construction of 1No. 2-Storey 12-Unit Classroom Block at Bole SHS	Country: Ghana			
Location within Country: Bole - Northern Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W			
Name of Client: GETFund/Northern Regional Coordinating Council	Number of staff :- 4			
Address: P O Box 100, Tamale - Ghana TeL:03720-22663/22727	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 3 Duration of Assignment:- 12 months		
Start Date (month/year): September 2010	Completion date (month/year) August 2011	Approximate value of services: GHS 40,293.48		
Funding Agency: GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
Design/Supervision Team				
1. A. K. Kuundaari - Project Coordinator/Contract Administrator				
2. Yakubu Salifu - Architect				
3. Dabi Kwesi Wolase - Structural Engineer				
4. Festus Quansar - Mechanical Engineer				
5. Moses Amah - Electrical Engineer				
6. John Bosco Zagleh - Clerk of Works				
7. Diyaudeen Khalid - Assist. Quantity Surveyor				
8. Appau Kwadwo – Geodetic Engineer				
Narrative Description of project:- Construction of 720 chairs capacity block, External works, Drainage works, Rain Water Harvesting System, Electricals, plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction of 3No. Single Storey 250 Bed Capacity Dormitory Blocks at Ndwura Jakpa SHS, Yagaba STHS & E.P. SHS-Tamale	Country: Ghana			
Location within Country: Damongo, Yagaba-Kubore & Saboba - Northern Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W			
Name of Client: GETFund/Northern Regional Coordinating Council	Number of staff :- 4			
Address: P O Box 100, Tamale - Ghana TeL:03720-22663/22727	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 3 Duration of Assignment:- 11 months		
Start Date (month/year): October 2010	Completion date (month/year) March 2012	Approximate value of services: GHS 99,144.89		
Funding Agency: GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
<p>Design/Supervision Team</p> <ol style="list-style-type: none"> 1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Moses Amah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor 				
Narrative Description of project:- Construction of 250 bed capacity Dormitory, External works, Drainage works, Electricals, plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction of Single Storey Administration Block at Yagaba STHS - Tamale	Country: Ghana			
Location within Country: Yagaba - Kubore - Northern Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W			
Name of Client: GETFund/Northern Regional Coordinating Council	Number of staff :- 4			
Address: P O Box 100, Tamale - Ghana TeL:03720-22663/22727	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 3 Duration of Assignment:- 11 months		
Start Date (month/year): August 2010	Completion date (month/year) October 2012	Approximate value of services: GHS 16,696.2		
Funding Agency: GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
Design/Supervision Team				
1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Moses Amah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor				
Narrative Description of project:- Construction of 494m ² capacity block, External works, Drainage works, Rain Water Harvesting System, Electricals, plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction of 1no. Single Storey 250 Bed Capacity Girls Dormitory Block at Pong Tamale SHS	Country: Ghana			
Location within Country: Pong Tamale - Northern Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W			
Name of Client: GETFund/Northern Regional Coordinating Council	Number of staff :- 4			
Address: P O Box 100, Tamale - Ghana TeL:03720-22663/22727	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 3 Duration of Assignment:- 12 months		
Start Date (month/year): March 2011	Completion date (month/year) April 2012	Approximate value of services: GHS 32,979.77		
Funding Agency: GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
Design/Supervision Team				
1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Moses Amah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor				
Narrative Description of project:- Construction of 250 bed capacity Dormitory, External works, Drainage works, Electricals, plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction of 2no. Single Storey 6-Unit Classroom Block at Buipe SHS & 1no. Single Storey 6-Unit Classroom Block at Yagaba STHS,	Country: Ghana			
Location within Country: Buipe & Yagaba - Northern Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W			
Name of Client: GETFund/Northern Regional Coordinating Council	Number of staff :- 4			
Address: P O Box 100, Tamale - Ghana TeL:03720-22663/22727	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 3 Duration of Assignment:- 12 months		
Start Date (month/year): June 2012	Completion date (month/year) December 2012	Approximate value of services: GHS 55,313.50		
Funding Agency: GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
Design/Supervision Team				
1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Moses Amah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor				
Narrative Description of project:- Construction of 240 chairs capacity block, External works, Drainage works, Rain Water Harvesting System, Electricals, plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction of 2No. 2-Storey 12-Unit Classroom Block at T.I. Ahmadiyya SHS - Wa & Ko SHS	Country: Ghana			
Location within Country: Wa & Ko, Upper West Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W			
Name of Client: GETFund/Upper West Regional Coordinating Council	Number of staff :- 4			
Address: P O Box 151, Wa - Ghana Tel: 03920-22073/22074	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 3 Duration of Assignment:- 12 months		
Start Date (month/year): July 2010	Completion date (month/year) June 2011	Approximate value of services: GHS 55,807.20		
Funding Agency: GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
<u>Design/Supervision Team</u>				
1. A. K. Kuundaari - Project Coordinator/Contract Administrator				
2. Yakubu Salifu - Architect				
3. Dabi Kwesi Wolase - Structural Engineer				
4. Festus Quansar - Mechanical Engineer				
5. Moses Amah - Electrical Engineer				
6. John Bosco Zagleh - Clerk of Works				
7. Diyaudeen Khalid - Assist. Quantity Surveyor				
8. Appau Kwadwo – Geodetic Engineer				
Narrative Description of project:- Construction of 480 Capacity Classroom Blocks, Water Closet Systems, External Works, Electricals, Plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction of 3No. 2-Storey Classroom Blocks at Kaleo SHTS, Jirapa SHS & Wa SHS	Country: Ghana			
Location within Country: Kaleo, Jirapa & Wa - Upper West Region	Professional staff provided by your firm: 1 A, 1 QS, 1 E & 1 C.O.W			
Name of Client: GETFund/Upper West Regional Coordinating Council	Number of staff :- 4			
Address: P O Box 151, Wa - Ghana Tel: 03920-22073/22074	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 3 Duration of Assignment:- 12 months		
Start Date (month/year): February 2011	Completion date (month/year) January 2012	Approximate value of services: GHS 124,137.00		
Funding Agency: GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
<p>Design/Supervision Team</p> <ol style="list-style-type: none"> 1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Moses Amah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor 8. Appau Kwadwo – Geodetic Engineer 				
Narrative Description of project:- Construction of 480 Capacity Classroom Blocks, Water Closet Systems, External Works, Electricals, Plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications		
Assignment Name: Construction of 1No. 2-Storey (500 Bed Capacity) Dormitory Block at Jirapa SHS		Country: Ghana
Location within Country: Jirapa, Upper West Region		Professional staff provided by your firm: 1 A, 1 QS, 1 E & 1 C.O.W, 1SE
Name of Client: GETFund/Upper West Regional Coordinating Council		Number of staff :- 5
Address: P O Box 151, Wa - Ghana Tel: 03920-22073/22074	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 3 Duration of Assignment:- 11 months
Start Date (month/year): January 2011	Completion date (month/year) December 2011	Approximate value of services: GHS 47,890.68
Funding Agency: GETFund		
Name of Associated Consultants: None		No. of months of Professional staff provided by Associated consultants: None
Name of Key Personnel involved and functions performed:-		
<p>Design/Supervision Team</p> <ol style="list-style-type: none"> 1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Moses Amah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor 8. Appau Kwadwo – Geodetic Engineer 		
Narrative Description of project:- Construction of 500 bed capacity block, Electrical Installations, Plumbing works, Rain Water Harvesting System		
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)		
Firm's Name: A&QS Consortium Ltd.		

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction of 1No. 2-Storey 12 Unit Classroom Block at Gwollu SHS	Country: Ghana			
Location within Country: Gwollu, Sissala East District, Upper West Region	Professional staff provided by your firm: 1 A, 1 QS, 1 E & 1 C.O.W, 1SE			
Name of Client: GETFund /Upper West Regional Coordinating Council	Number of staff :- 5			
Address: P O Box 151 Wa - Ghana Tel: 03920-22073/22074	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 3 Duration of Assignment:- 10 months		
Start Date (month/year): April 2010	Completion date (month/year) October 2011	Approximate value of services: GHS 42,558.42		
Funding Agency: GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
Design/Supervision Team				
1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Moses Amah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor 8. Appau Kwadwo – Geodetic Engineer				
Narrative Description of project:- Construction of 480 Capacity Classroom Blocks, Water Closet Systems, External Works, Electricals, Plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction of 3No. Assembly Hall/Dining Hall/Kitchen Block at T.I. Ahmadiyya SHS, Lassia Tuolu SHS & Ko SHS	Country: Ghana			
Location within Country: Ko, Lassia Tuolu & Wa - Upper West Region	Professional staff provided by your firm: 1 A, 1 QS, 1 C.O.W, & 1SE			
Name of Client: GETFund/Upper West Regional Coordinating Council	Number of staff :- 4			
Address: Box 151, Wa - Ghana Tel: 03920-22073/22074	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 2 Duration of Assignment:- 18 months		
Start Date (month/year): May 2011	Completion date (month/year) November 2013	Approximate value of services: GHS 67,140.96		
Funding Agency: GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
Design/Supervision Team				
1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. John Bosco Zagleh - Clerk of Works 5. Diyaudeen Khalid - Assist. Quantity Surveyor				
Narrative Description of project:- Construction of 2130m2 capacity Assembly Hall, Office spaces, Chain Link Fencing, Pavements, Drainage works, Electrical Installations, Plumbing works, Rain Water Harvesting System				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications		
Assignment Name: Construction of Single Storey Classroom (Ground Type) Block at Han SHTS		Country: Ghana
Location within Country: Han, Upper West Region		Professional staff provided by your firm: 1 A, 1 QS, 1 C.O.W, & 1SE
Name of Client: GETFund/Upper West Regional Coordinating Council		Number of staff :- 4
Address: Box 151 Wa – Ghana Tel: 03920-22073/22074	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 2 Duration of Assignment:- 7 months
Start Date (month/year): December 2012	Completion date (month/year) July 2013	Approximate value of services: GHS 10,000.00
Funding Agency: GETFund		
Name of Associated Consultants: None		No. of months of Professional staff provided by Associated consultants: None
Name of Key Personnel involved and functions performed:-		
<p>Design/Supervision Team</p> <ol style="list-style-type: none"> 1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. John Bosco Zagleh - Clerk of Works 5. Diyaudeen Khalid - Assist. Quantity Surveyor 		
Narrative Description of project:-Construction of 1224m² Capacity Block, Pavements, Drainage works, Electrical Installations, Plumbing works,		
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)		
Firm's Name: A&QS Consortium Ltd.		

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction of 2No. 2-Storey 12-Unit Classroom Block at Bongo SHS & OLL SHS (Navrongo)	Country: Ghana			
Location within Country: Bongo & Navrongo - Upper East Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W			
Name of Client: GETFund/Upper East Regional Coordinating Council	Number of staff :- 4			
Address: P O Box 50, Bolgatanga - Ghana Tel:03820-22040/22414	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 5 Duration of Assignment:- 12 months		
Start Date (month/year): April 2010	Completion date (month/year) October 2011	Approximate value of services: GHS 91,595.22		
Funding Agency: GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
<u>Design/Supervision Team</u>				
1. A. K. Kuundaari - Project Coordinator/Contract Administrator				
2. Yakubu Salifu - Architect				
3. Dabi Kwesi Wolase - Structural Engineer				
4. Festus Quansar - Mechanical Engineer				
5. Moses Amah - Electrical Engineer				
6. John Bosco Zagleh - Clerk of Works				
7. Diyaudeen Khalid - Assist. Quantity Surveyor				
8. Appau Kwadwo – Geodetic Engineer				
Narrative Description of project:- Construction of 720 chairs capacity block, External works, Drainage works, Rain Water Harvesting System, Electricals, plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Construction of 1No. 2-Storey 500 Bed Capacity Girls Dormitory Block at OLL SHS (Navrongo)	Country: Ghana			
Location within Country: Navrongo - Upper East Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W			
Name of Client: GETFund/Upper East Regional Coordinating Council	Number of staff :- 4			
Address: P O Box 50, Bolgatanga - Ghana Tel:03820-22040/22414	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 3 Duration of Assignment:- 12 months		
Start Date (month/year): April 2010	Completion date (month/year) October 2011	Approximate value of services: GHS 50,555.32		
Funding Agency: GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
Design/Supervision Team				
1. A. K. Kuundaari - Project Coordinator/Contract Administrator				
2. Yakubu Salifu - Architect				
3. Dabi Kwesi Wolase - Structural Engineer				
4. Festus Quansar - Mechanical Engineer				
5. Moses Amah - Electrical Engineer				
6. John Bosco Zagleh - Clerk of Works				
7. Diyaudeen Khalid - Assist. Quantity Surveyor				
8. Appau Kwadwo – Geodetic Engineer				
Narrative Description of project:- Construction of 500 bed capacity Dormitory, External works, Drainage works, Electricals, plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications

Assignment Name: Construction of 1No. 3- Storey 18 - Unit Classroom Block at Bolgatanga Technical Institute		Country: Ghana
Location within Country: Bolgatanga - Upper East Region		Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W
Name of Client: GETFund/Upper East Regional Coordinating Council		Number of staff :- 4
Address: P O Box 50, Bolgatanga - Ghana Tel:03820-22040/22414	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer	No. of Staff Months : 5 Duration of Assignment:- 18 months
Start Date (month/year): June 2011	Completion date (month/year) December 2012	Approximate value of services: GHS 141,628.46
Funding Agency: GETFund		
Name of Associated Consultants: None		No. of months of Professional staff provided by Associated consultants: None
Name of Key Personnel involved and functions performed:-		
<p>Design/Supervision Team</p> <ol style="list-style-type: none"> 1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Moses Amah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor 8. Appau Kwadwo – Geodetic Engineer 		
Narrative Description of project:- Construction of 720 chairs capacity block, External works, Drainage works, Rain Water Harvesting System, Electricals, plumbing works		
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)		
Firm's Name: A&QS Consortium Ltd.		

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications

Assignment Name: Construction of 1No. Single Storey 250 Bed Capacity Dormitory Block at Zebilla SHTS	Country: Ghana
Location within Country: Zebilla - Upper East Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W
Name of Client: GETFund/Upper East Regional Coordinating Council	Number of staff :- 4
Address: P O Box 50, Bolgatanga - Ghana Tel:03820-22040/22414	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer
	No. of Staff Months : 3
	Duration of Assignment:- 11 months
Start Date (month/year): January 2012	Completion date (month/year) July 2013
	Approximate value of services: GHS 42,725.99
Funding Agency: GETFund	
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None
Name of Key Personnel involved and functions performed:-	
<u>Design/Supervision Team</u>	
1. A. K. Kuundaari - Project Coordinator/Contract Administrator	
2. Yakubu Salifu - Architect	
3. Dabi Kwesi Wolase - Structural Engineer	
4. Festus Quansar - Mechanical Engineer	
5. Moses Amah - Electrical Engineer	
6. John Bosco Zagleh - Clerk of Works	
7. Diyaudeen Khalid - Assist. Quantity Surveyor	
Narrative Description of project:- Construction of 250 bed capacity Dormitory, External works, Drainage works, Electricals, plumbing works	
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)	
Firm's Name: A&QS Consortium Ltd.	

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications

Assignment Name: Construction of 1no. Single Storey Library Block at OLL SHS (Navrongo)	Country: Ghana
Location within Country: Navrongo - Upper East Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W
Name of Client: GETFund/Upper East Regional Coordinating Council	Number of staff :- 4
Address: P O Box 50, Bolgatanga - Ghana Tel:03820-22040/22414	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer
	No. of Staff Months : 3
	Duration of Assignment:- 12 months
Start Date (month/year): July 2010	Completion date (month/year) May 2011
	Approximate value of services: GHS 21,196.46
Funding Agency: GETFund	
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None
Name of Key Personnel involved and functions performed:-	
<u>Design/Supervision Team</u>	
1. A. K. Kuundaari - Project Coordinator/Contract Administrator	
2. Yakubu Salifu - Architect	
3. Dabi Kwesi Wolase - Structural Engineer	
4. Festus Quansar - Mechanical Engineer	
5. Moses Amah - Electrical Engineer	
6. John Bosco Zagleh - Clerk of Works	
7. Diyaudeen Khalid - Assist. Quantity Surveyor	
Narrative Description of project:- Construction of 250 Chairs capacity Library, External works, Drainage works, Electricals, plumbing works	
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)	
Firm's Name: A&QS Consortium Ltd.	

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications

Assignment Name: Construction of 2no. Single Storey 6-Unit Classroom Block at Kogadin & Bolgatanga SHS	Country: Ghana
Location within Country: Kogadin & Bolgatanga - Upper East Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W
Name of Client: GETFund/Upper East Regional Coordinating Council	Number of staff :- 4
Address: P O Box 50, Bolgatanga - Ghana Tel:03820-22040/22414	Contact Person: Regional Coordinating Director /Chief Economic Planning Officer
	No. of Staff Months : 3
	Duration of Assignment:- 9 months
Start Date (month/year): January 2011	Completion date (month/year) October 2011
	Approximate value of services: GHS 33,923.21
Funding Agency: GETFund	
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None
Name of Key Personnel involved and functions performed:-	
Design/Supervision Team	
1. A. K. Kuundaari - Project Coordinator/Contract Administrator	
2. Yakubu Salifu - Architect	
3. Dabi Kwesi Wolase - Structural Engineer	
4. Festus Quansar - Mechanical Engineer	
5. Moses Amah - Electrical Engineer	
6. John Bosco Zagleh - Clerk of Works	
7. Diyaudeen Khalid - Assist. Quantity Surveyor	
Narrative Description of project:- Construction of 240 chairs capacity block, External works, Drainage works, Rain Water Harvesting System, Electricals, plumbing works	
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)	
Firm's Name: A&QS Consortium Ltd.	

1.5 Certificates of Completion

*In case of reply the number and
the date of the letter should be
quoted.*



Our Ref. No RPCU/UWR/D.30/57
Your Ref No
Tel. 03920-22074
Fax. 03920-22176/9

Office of the Regional Coordinating Council
Upper West Region
P. O. Box 151
Wa

21st October, 2014

TO WHOM IT MAY CONCERN

I write to certify that A&Qs Consortium Limited has supervised the completion of 11No projects, as per the attachment of this correspondence, in the Upper West Region.

2. I also certify that these projects have been satisfactorily completed in accordance with the terms of reference of the respective contracts
3. I further recommend that you kindly extend to them any necessary assistance

A handwritten signature in blue ink, appearing to read "J. B. ATOBIGA".

CHIEF DIRECTOR

FOR; REGIONAL MINISTER

Letter head of client/employer

To:

Whom it may concern

Certificate of Completion

Consultancy Services

Project Details:

1. Design and Construction Supervision of:

- a. Construction of 2- Storey Administration/Laboratory Block at St. Francis Xavier SHS (Wa)
- b. Construction of 3No. 2-Storey Administration Block/ Library Block at Gwollu SHS, T.I. Ahmadiyya SHS & Wa Islamic SHS
- c. Construction of 3No. Single Storey District Assembly Administration/Conference Hall Blocks at Gwollu, Funsi & Wechiau
- d. Construction of 1No. 2-Storey Administration Block Complex at Nadowli
- e. Construction of 1No. Single Storey Administration Block at Han SHTS (Upper West Region)
- f. Construction of 2No. 2-Storey 12-Unit Classroom Block at T.I. Ahmadiyya SHS - Wa & Ko SHS
- g. Construction of 3No. 2-Storey Classroom Blocks at Kaleo SHTS, Jirapa SHS & Wa SHS
- h. Construction of 1No. 2-Storey (500 Bed Capacity) Dormitory Block at Jirapa SHS
- i. Construction of 1No. 2-Storey 12 Unit Classroom Block at Gwollu SHS
- j. Construction of 3No. Assembly Hall/Dining Hall/Kitchen Block at T.I. Ahmadiyya SHS, Lassia Tuolu SHS & Ko SHS
- k. Construction of Single Storey Classroom (Ground Type) Block at Han SHTS

Location of Project: Upper West Region

Name of Consultant: A&QS Consortium Ltd

Funding Agency: GETFund

Description of Services provided: Pre-and Post-Contract Services)

An inspection of the above noted project(s) was carried out by the client, Project Sponsor and user agency and, all work on this contract has been satisfactorily completed to the requirements of all parties.

We, the undersigned Owner and Client, do hereby certify that:

- 1. The Project has been completed in accordance with the provisions of the Construction supervision consultancy Contract

2. The design and construction supervision was done in accordance with the terms of reference of the contract, standards approved by the client and all statutory legislations

Authorised Representative

Signed: 

Name : J.B. AIGANOT

Title : CHIEF DIRECTOR

Date: 21/10/14

REGIONAL CO-ORDINATING DIRECTOR
UPPER WEST REGION
WA

REGIONAL CO-ORDINATING COUNCIL

*In case of reply the date
and number of this letter
should be quoted*
Email: uppereastrcc@gmail.com
uppereastrcd@gmail.com

Our Ref. No:

Your Ref. No:



Republic of Ghana

Upper East Region
P.O. Box 50
Bolgatanga

Tel: 0302 22431/22433/22414

Date: 21st October 2014

To:

Whom it may concern

CERTIFICATE OF COMPLETION

CONSULTANCY SERVICES

PROJECT DETAILS:

1. Design and construction supervision of 2- STOREY ADMINISTRATION/ LABORARTORY BLOCK AT OLL SHS (NAVRONGO)

LOCATION OF PROJECT: NAVRONGO

FUNDING AGENCY: GETFund

NAME OF CONSULTANT: A & QS CONSORTIUM LIMITED

DESCRIPTION OF SERVICES PROVIDED: Pre-and post-contract services

On 10th April 2013 an inspection of the above noted project was carried out by representatives of UERCC, A&Qs staff, OLL school authorities and other stakeholders. All works on this contract has been satisfactorily completed to the requirements of all parties.

We, the undersigned Owner and Client, do hereby certify that:

1. The Project has been completed in accordance with the provisions of the Construction supervision consultancy Contract.
2. The design and construction supervision was done in accordance with the terms of reference of the contract, standards approved by the client and all statutory legislations.

Signed:

**REGIONAL
CO-ORDINATING COUNCIL**
Authorised representative: DIRECTOR
Name: P. K. ABDUL KORANGO

Title: CHIEF DIRECTOR/RCD

Date:

REGIONAL CO-ORDINATING COUNCIL

*In case of reply the date
and number of this letter
should be quoted*
Email: uppereastrcc@gmail.com

uppereastrcd@gmail.com

Our Ref. No:

Your Ref. No:



Republic of Ghana

Upper East Region
P.O. Box 50
Bolgatanga

Tel: 0302 22431/22433/22414

Date: 21st October 2014

To:

Whom it may concern

CERTIFICATE OF COMPLETION

CONSULTANCY SERVICES

PROJECT DETAILS:

1. Design and construction supervision of 2NO. 2-STORY 12-UNIT CLASSROOM BLOCK
AT BONGO SHS & OLL SHS (NAVRONGO)

LOCATION OF PROJECT: BONGO AND NAVRONGO

FUNDING AGENCY: GETFund

NAME OF CONSULTANT: A & QS CONSORTIUM LIMITED

DESCRIPTION OF SERVICES PROVIDED: Pre-and post-contract services

On 11th September, 2011 and August 8 2011 an inspection of the above noted project(s) was carried out by representatives of UERCC, A&Qs staff, OLL school authorities and other stakeholders. All work on this contract has been satisfactorily completed to the requirements of all parties.

We, the undersigned Owner and Client, do hereby certify that:

2. The Project has been completed in accordance with the provisions of the Construction supervision consultancy Contract.
3. The design and construction supervision was done in accordance with the terms of reference of the contract, standards approved by the client and all statutory legislations.

Signed:.....
CHIEF DIRECTOR

Authorised representative

BOLGATANGA

Name: P. K. ABDUL-KORAH

Title: CHIEF DIRECTOR/RCD

Date:.....
21ST OCT. 2014.

REGIONAL CO-ORDINATING COUNCIL

*In case of reply the date
and number of this letter
should be quoted*
Email: uppereastrcc@gmail.com
uppereastrcd@gmail.com

Our Ref. No:

Your Ref. No:



Republic of Ghana

Upper East Region
P.O. Box 50
Bolgatanga

Tel: 0302 22431/22433/22414

Date: 21st October 2014

To:

Whom it may concern

CERTIFICATE OF COMPLETION

CONSULTANCY SERVICES

PROJECT DETAILS:

1. Design and construction supervision of 1NO. 2-STORY 500 BED CAPACITY GIRLS DORMITORY BLOCK AT OLL SHS (NAVRONGO)

LOCATION OF PROJECT: NAVRONGO

FUNDING AGENCY: GETFund

NAME OF CONSULTANT: A & QS CONSORTIUM LIMITED

DESCRIPTION OF SERVICES PROVIDED: Pre-and post-contract services

On 14th September 2011 an inspection of the above noted project was carried out by representatives of UERC, A&Qs staff, OLL school authorities and other stakeholders. All work on this contract has been satisfactorily completed to the requirements of all parties.

We, the undersigned Owner and Client, do hereby certify that:

2. The Project has been completed in accordance with the provisions of the Construction supervision consultancy Contract.
3. The design and construction supervision was done in accordance with the terms of reference of the contract, standards approved by the client and all statutory legislations.

Signed:

Authorised representative:
REGIONAL CO-ORDINATING DIRECTOR
G. CO-ORDINATING COUNCIL
BOLGATANGA

Name: P. K. ABDUL-KORAH

Title: CHIEF DIRECTOR/RCD

Date: 21st Oct 2014

REGIONAL CO-ORDINATING COUNCIL

*In case of reply the date
and number of this letter
should be quoted*
Email: uppereastrcc@gmail.com

uppereastrcd@gmail.com

Our Ref. No:

Your Ref. No:

To:

Whom it may concern



Republic of Ghana

Upper East Region
P.O. Box 50
Bolgatanga

Tel: 0302 22431/22433/22414

Date: 21st October 2014

CERTIFICATE OF COMPLETION

CONSULTANCY SERVICES

PROJECT DETAILS:

1. Design and construction supervision of 1NO. SINGLE STOREY 250 BED CAPACITY DORMITORY BLOCK AT ZEBILLA SHTS

LOCATION OF PROJECT: ZEBILLA

FUNDING AGENCY: GETFund

NAME OF CONSULTANT: A & QS CONSORTIUM LIMITED

DESCRIPTION OF SERVICES PROVIDED: Pre-and post-contract services

On 28th October 2013 an inspection of the above noted project was carried out by representatives of UERCC, A&Qs staff, OLL school authorities and other stakeholders. All work on this contract has been satisfactorily completed to the requirements of all parties.

We, the undersigned Owner and Client, do hereby certify that:

2. The Project has been completed in accordance with the provisions of the Construction supervision consultancy Contract.
3. The design and construction supervision was done in accordance with the terms of reference of the contract, standards approved by the client and all statutory legislations.

Signed:

ORDINATING DIRECTOR
Authorised representative

KOLOKATANGA

Name: P. K. ABDUL-KORAH

Title: CHIEF DIRECTOR/RCD

Date: 21st OCT. 2014.

REGIONAL CO-ORDINATING COUNCIL

*In case of reply the date
and number of this letter
should be quoted*
Email: uppereastrcc@gmail.com

uppereastrcd@gmail.com

Our Ref. No:

Your Ref. No:



Republic of Ghana

Upper East Region
P.O. Box 50
Bolgatanga

Tel: 0302 22431/22433/22414

Date: 21st October 2014

To:

Whom it may concern

CERTIFICATE OF COMPLETION

CONSULTANCY SERVICES

PROJECT DETAILS:

1. Design and construction supervision of 2NO. SINGLE STOREY 6-UNIT CLASSROOM BLOCK AT KOGADIN & BOLGATANGA SHS

LOCATION OF PROJECT: KOGADIN AND BOLGATANGA

FUNDING AGENCY: GETFund

NAME OF CONSULTANT: A & QS CONSORTIUM LIMITED

DESCRIPTION OF SERVICES PROVIDED: Pre-and post-contract services

On 18th May 2012 and 31st October 2012 an inspection of the above noted project(s) was carried out by representatives of UERCC, A&Qs staff, OLL school authorities and other stakeholders. All work on this contract has been satisfactorily completed to the requirements of all parties.

We, the undersigned Owner and Client, do hereby certify that:

2. The Project has been completed in accordance with the provisions of the Construction supervision consultancy Contract.
3. The design and construction supervision was done in accordance with the terms of reference of the contract, standards approved by the client and all statutory legislations.

Signed:
P. K. ABDUL-KORAH
CHIEF DIRECTOR/RCD
REGIONAL CO-ORDINATING COUNCIL
Authorised representative:

Name: P. K. ABDUL-KORAH

Title: CHIEF DIRECTOR/RCD

Date: 21st Oct. 2014

REGIONAL CO-ORDINATING COUNCIL

*In case of reply the date
and number of this letter
should be quoted*
Email: uppereastrcc@gmail.com
uppereastrcd@gmail.com

Our Ref. No:

Your Ref. No:
.....



Republic of Ghana

*Upper East Region
P.O. Box 50
Bolgatanga*

Tel: 0302 22431/22433/22414

Date: 21st October 2014

To:

Whom it may concern

CERTIFICATE OF COMPLETION

CONSULTANCY SERVICES

PROJECT DETAILS:

1. Design and construction supervision of 1NO. SINGLE STOREY LIBRARY BLOCK AT OLL SHS (NAVRONGO)

LOCATION OF PROJECT: NAVRONGO

FUNDING AGENCY: GETFund

NAME OF CONSULTANT: A & QS CONSORTIUM LIMITED

DESCRIPTION OF SERVICES PROVIDED: Pre-and post-contract services

On 20th October 2012 an inspection of the above noted project was carried out by representatives of UERCC, A&Qs staff, OLL school authorities and other stakeholders. All work on this contract has been satisfactorily completed to the requirements of all parties.

We, the undersigned Owner and Client, do hereby certify that:

2. The Project has been completed in accordance with the provisions of the Construction supervision consultancy Contract.
3. The design and construction supervision was done in accordance with the terms of reference of the contract, standards approved by the client and all statutory legislations.

Signed:
[Signature]
REGIONAL CO-ORDINATING DIRECTOR
REGIONAL CO-ORDINATING COUNCIL

Authorised representative
[Signature]

Name: P. K. ABDUL-KORAH

Title: CHIEF DIRECTOR/RCD

Date: *21st OCT. 2014*

REGIONAL CO-ORDINATING COUNCIL

*In case of reply the date
and number of this letter
should be quoted*
Email: uppereastrcc@gmail.com
uppereastrcd@gmail.com

Our Ref. No:

Your Ref. No:



Republic of Ghana

Upper East Region
P.O. Box 50
Bolgatanga

Tel: 0302 22431/22433/22414

Date: 21st October 2014

To:

Whom it may concern

CERTIFICATE OF COMPLETION

CONSULTANCY SERVICES

PROJECT DETAILS:

1. Design and construction supervision of 1NO. 3- STOREY 18 - UNIT CLASSROOM BLOCK
AT BOLGATANGA TECHNICAL INSTITUTE

LOCATION OF PROJECT: BOLGATANGA

FUNDING AGENCY: GETFund

NAME OF CONSULTANT: A & QS CONSORTIUM LIMITED

DESCRIPTION OF SERVICES PROVIDED: Pre-and post-contract services

On 30th May 2013 an inspection of the above noted project was carried out by representatives of UERCC, A&Qs staff, OLL school authorities and other stakeholders. All work on this contract has been satisfactorily completed to the requirements of all parties.

We, the undersigned Owner and Client, do hereby certify that:

4. The Project has been completed in accordance with the provisions of the Construction supervision consultancy Contract.
5. The design and construction supervision was done in accordance with the terms of reference of the contract, standards approved by the client and all statutory legislations.

Signed:
[Signature]

REgional Co-ordinating Director
Authorised representative: COUNCIL

BOLGATANGA

Name: P. K. ABDUL-KORAH

Title: CHIEF DIRECTOR/RCD

Date: 21st Oct 2014.

NORTHERN REGIONAL COORDINATING COUNCIL

In case of reply the number
And the date of this Letter
should be quoted

TEL. 03720 - 22256



P.O. BOX 100

TAMALE

My Ref. No.: NRCC/RPCU/RTRB/VOL.5/89

REPUBLIC OF GHANA

Your Ref. No.....

To:

Whom it may concern

Certificate of Completion

Project Details:

1. Construction supervision of
2. Design and construction supervision of 1no. 3- Storey 750 Bed Capacity Girls' Dormitory Block at Ghana SHS

Location of project: Tamale – Tamale Metropolis, N/R

Funding agency: Ghana Education Trust Fund (GETFund)

Consultant: A & QS Consortium Ltd

Description of services provided: (**pre-and post-contract services**), others specify.....

On 14th October, 2013 an inspection of the above noted project(s) was carried out by (client, Project Sponsor and user agency) and, all work on this contract has been satisfactorily completed to the requirements of all parties.

We, the undersigned Owner and Client, do hereby certify that:

1. The Project has been completed in accordance with the provisions of the Construction supervision consultancy Contract

2. The design and construction supervision was done in accordance with the terms of reference of the contract, standards approved by the client and all statutory legislations



Signed

Authorised representative

Name ALHAJI ABDUL-KARIM ADAM

Title REGIONAL ECONOMIC PLANNING OFFICER

Date 21ST OCTOBER, 2014

NORTHERN REGIONAL COORDINATING COUNCIL

In case of reply the number
And the date of this Letter
should be quoted

TEL. 03720 - 22256



P.O. BOX 100

TAMALE

My Ref. No.: NRCC/RPCU/RTRB/VOL-5/89

REPUBLIC OF GHANA

Your Ref. No.....

To:

Whom it may concern

Certificate of Completion

Project Details:

1. **Construction supervision of**
2. **Design and construction supervision of 1no. 2- Storey 12 – Unit Classroom Block at Bole SHS**

Location of project: Bole— Bole District, N/R

Funding agency: Ghana Education Trust Fund (GETFund)

Consultant: A & QS Consortium Ltd

Description of services provided: (**pre-and post-contract services**), others specify.....

On 30th November, 2012 an inspection of the above noted project(s) was carried out by (client and user agency) and, all work on this contract has been satisfactorily completed to the requirements of all parties.

We, the undersigned Owner and Client, do hereby certify that:

1. The Project has been completed in accordance with the provisions of the Construction supervision consultancy Contract

NORTHERN REGIONAL COORDINATING COUNCIL

In case of reply the number
And the date of this Letter
should be quoted

TEL. 03720 - 22256



P.O. BOX 100

TAMALE

My Ref. No.: NRCC/RPCU/RTRB/VCL-S/89

REPUBLIC OF GHANA

Your Ref. No.....

To:

Whom it may concern

Certificate of Completion

Project Details:

1. Construction supervision of
2. Design and construction supervision of Single Storey Administration Block at Yagaba SHTS

Location of project: Yagaba – West Mamprusi District, N/R

Funding agency: Ghana Education Trust Fund (GETFund)

Consultant: A & QS Consortium Ltd

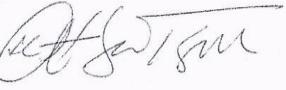
Description of services provided: (**pre-and post-contract services**), others specify.....

On 30th October, 2012 an inspection of the above noted project(s) was carried out by (client and user agency) and, all work on this contract has been satisfactorily completed to the requirements of all parties.

We, the undersigned Owner and Client, do hereby certify that:

1. The Project has been completed in accordance with the provisions of the Construction supervision consultancy Contract

2. The design and construction supervision was done in accordance with the terms of reference of the contract, standards approved by the client and all statutory legislations



Signed

Authorised representative

Name ALHAJI ABDUL-KARIM ADAM

Title REGIONAL ECONOMIC PLANNING OFFICER

Date 21ST OCTOBER, 2014

REHABILITATION/REFURBISHMENT/RENOVATION WORKS

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Rehabilitation and Renovation of 5no. infrastructure projects at Nusrat Jahan College of Education - Wa	Country: Ghana			
Location within Country: Wa - Upper West Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W			
Name of Client: Ministry of Education/Nusrat Jahan College of Education		Number of staff :- 4		
Address: P O Box 71, Wa -UWR Ghana Tel:03920-22338	Contact Person: The Principal	No. of Staff Months : 3 Duration of Assignment:- 6 months		
Start Date (month/year): April 2011	Completion date (month/year) October 2011	Approximate value of services: GHS 36,530.65		
Funding Agency: Ministry of Education/GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
<u>Design/Supervision Team</u>				
1. A. K. Kuundaari - Project Coordinator/Contract Administrator				
2. Yakubu Salifu - Architect				
3. Moses Amah - Electrical Engineer				
4. John Bosco Zagleh - Clerk of Works				
5. Diyaudeen Khalid - Assist. Quantity Surveyor				
Narrative Description of project:- Renovation of 4No. Dormitory blocks, Construction of Fence wall, External works, Drainage works, Rain Water Harvesting System, Electricals, plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Renovation of 5no. infrastructure projects at Bimbilla E.P. College of Education – Northern Region	Country: Ghana			
Location within Country: Bimbilla - Northern Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W			
Name of Client: Ministry of Education/Bimbilla College of Education	Number of staff :- 4			
Address: P O Box 16, Bimbilla-NR Ghana Tel:03720-81750/93548	Contact Person: The Principal	No. of Staff Months : 3 Duration of Assignment:- 6 months		
Start Date (month/year): August 2011	Completion date (month/year) January 2012	Approximate value of services: GHS 47,295.63		
Funding Agency: Ministry of Education/GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
<p>Design/Supervision Team</p> <ol style="list-style-type: none"> 1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Moses Amah - Electrical Engineer 4. John Bosco Zagleh - Clerk of Works 5. Diyaudeen Khalid - Assist. Quantity Surveyor 				
Narrative Description of project:- Renovation of 3No. Classroom Blocks, Library Block, Construction of Fence wall, Rehabilitation of dormitory blocks, External works, Drainage works, Rain Water Harvesting System, Electricals, plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications				
Assignment Name: Rehabilitation of 4no. infrastructure projects at Tumu College of Education – Upper West Region	Country: Ghana			
Location within Country: Tumu – Upper West Region	Professional staff provided by your firm: 1 A, 1 QS, 1 EE & 1 C.O.W, 1SE			
Name of Client: Ministry of Education/Tumu College of Education	Number of staff :- 4			
Address: P O Box 19, Wa -UWR Ghana Tel:03720-20901	Contact Person: The Principal	No. of Staff Months : 3 Duration of Assignment:- 3 months		
Start Date (month/year): January 2012	Completion date (month/year) April 2012	Approximate value of services: GHS 24,717.23		
Funding Agency: Ministry of Education/GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
<p>Design/Supervision Team</p> <ol style="list-style-type: none"> 1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Moses Amah - Electrical Engineer 5. John Bosco Zagleh - Clerk of Works 6. Diyaudeen Khalid - Assist. Quantity Surveyor 				
Narrative Description of project:- Renovation of 4No. Dormitory blocks, Construction of Fence wall, External works, Drainage works, Rain Water Harvesting System, Electricals, plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates

qualifications		
Assignment Name: Rehabilitation of Science Laboratory Block Complex– Upper West Region		Country: Ghana
Location within Country: Lassia Tuolu SHS – Upper West Region		Professional staff provided by your firm: 1 A, 1 QS, & 1 C.O.W, 1SE
Name of Client: Upper West Regional Coordinating Council/GETFund		Number of staff :- 4
Address: P O Box 151, Wa -UWR Ghana Tel:03920-22074	Contact Person: The Chief Director/Regional Economic Planning Officer	No. of Staff Months : 9 Duration of Assignment:- 12 months
Start Date (month/year): August 2011	Completion date (month/year) February 2012	Approximate value of services: GHS 101,346.18
Funding Agency: Upper West Regional Coordinating Council/Ministry of Finance		
Name of Associated Consultants: None		No. of months of Professional staff provided by Associated consultants: None
Name of Key Personnel involved and functions performed:-		
<p>Design/Supervision Team</p> <ol style="list-style-type: none"> 1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Moses Amah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor 		
Narrative Description of project:- Renovation of Science block, External works, Drainage works, Supply and installation of laboratory equipment, Electricals, plumbing works,		
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)		
Firm's Name: A&QS Consortium Ltd.		

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications

Assignment Name: Completion of 3-Storey Classroom Block – Upper East Region	Country: Ghana
Location within Country: Bolgatanga Technical Institute – Upper East Region	Professional staff provided by your firm: 1 A, 1 QS, 1 C.O.W, 1 SE, 1 EE
Name of Client: Upper East Regional Coordinating Council/GETFund	Number of staff :- 5
Address: P O Box 50, Bolgatanga -UER Ghana Tel:0246409502	Contact Person: Regional Coordinating Director /The Regional Economic Planning Officer
	No. of Staff Months : 12 Duration of Assignment:- 12 months
Start Date (month/year): August 2011	Completion date (month/year) December 2012
	Approximate value of services: GHS 148,166.06
Funding Agency: Upper West Regional Coordinating Council/Ministry of Finance	
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None
Name of Key Personnel involved and functions performed:-	
Design/Supervision Team	
1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Festus Quansar - Mechanical Engineer 5. Moses Amah - Electrical Engineer 6. John Bosco Zagleh - Clerk of Works 7. Diyaudeen Khalid - Assist. Quantity Surveyor	
Narrative Description of project:- Rehabilitation works, Refurbishment works, External works, Drainage works, Electricals, plumbing works	
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)	
Firm's Name: A&QS Consortium Ltd.	

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates

qualifications				
Assignment Name: Rehabilitation of 3No. Infrastructure Projects at Navrongo SHS – Upper East Region	Country: Ghana			
Location within Country: Navrongo – Upper East Region	Professional staff provided by your firm: 1 A, 1 QS, 1 C.O.W, 1EE			
Name of Client: Upper West Regional Coordinating Council/Ministry of Finance	Number of staff :- 4			
Address: P O Box 50, Bolgatanga -UER Ghana Tel:0246409502	Contact Person: Regional Coordinating Director /The Regional Economic Planning Officer	No. of Staff Months : 9 Duration of Assignment:- 9 months		
Start Date (month/year): December 2012	Completion date (month/year) September 2013	Approximate value of services: GHS 67,801.11		
Funding Agency: Upper West Regional Coordinating Council/Ministry of Finance				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
Design/Supervision Team				
1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Moses Amah - Electrical Engineer 4. Festus Quansar - Mechanical Engineer 5. John Bosco Zagleh - Clerk of Works 6. Diyaudeen Khalid - Assist. Quantity Surveyor				
Narrative Description of project:- Rehabilitation of Science laboratory block, 2-storey girls dormitory block, single storey boys dormitory block, External works, Drainage works, Electricals, plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications

Assignment Name: Rehabilitation of 2No. Boys & Girls Dormitory block at Sandema SHTS and Rehabilitation & re-equipment of Science Laboratory at Bolgatanga Girls SHS– Upper East Region	Country: Ghana
Location within Country: Sandema & Bolgatanga – Upper East Region	Professional staff provided by your firm: 1 A, 1 QS, 1 C.O.W, 1EE, 1ME, 1SE,
Name of Client: Upper East Regional Coordinating Council/GETFund	Number of staff :- 6
Address: P O Box 50, Bolgatanga -UER Ghana Tel:03720-22040/22414	Contact Person: Regional Coordinating Director /The Regional Economic Planning Officer
	No. of Staff Months : 6
Start Date (month/year): November 2011	Completion date (month/year) May 2012
	Approximate value of services: GHS 76,832.63
Funding Agency: Upper West Regional Coordinating Council/ GETFund	
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None
Name of Key Personnel involved and functions performed:-	
Design/Supervision Team	
1. A. K. Kuundaari - Project Coordinator/Contract Administrator	
2. Yakubu Salifu - Architect	
3. Dabi Kwesi Wolase - Structural Engineer	
4. Festus Quansar - Mechanical Engineer	
5. Moses Amah - Electrical Engineer	
6. John Bosco Zagleh - Clerk of Works	
7. Diyaudeen Khalid - Assist. Quantity Surveyor	
Narrative Description of project:- Rehabilitation of Science laboratory block, 2-storey girls dormitory block, single storey boys dormitory block, External works, Drainage works, Electricals, plumbing works	
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)	
Firm's Name: A&QS Consortium Ltd.	

FIRM'S REFERENCE: Relevant Services carried out in the last years that illustrates qualifications

Assignment Name: Rehabilitation and Refurbishment of Assembly Hall Complex at Tamale College of Education - Northern Region	Country: Ghana			
Location within Country: Tamale – Northern Region	Professional staff provided by your firm: 1 A, 1 QS, 1 C.O.W, 1EE, 1SE,			
Name of Client: Tamale College of Education/GETFund	Number of staff :- 5			
Address: P O Box 100, Wa -UWR Ghana Tel:03720-23663/22727	Contact Person: The Principal	No. of Staff Months : 4 Duration of Assignment:- 5 months		
Start Date (month/year): July 2011	Completion date (month/year) December 2011	Approximate value of services: GHS 97,023.28		
Funding Agency: Tamale College of Education/ GETFund				
Name of Associated Consultants: None	No. of months of Professional staff provided by Associated consultants: None			
Name of Key Personnel involved and functions performed:-				
<p>Design/Supervision Team</p> <ol style="list-style-type: none"> 1. A. K. Kuundaari - Project Coordinator/Contract Administrator 2. Yakubu Salifu - Architect 3. Dabi Kwesi Wolase - Structural Engineer 4. Moses Amah - Electrical Engineer 5. John Bosco Zagleh - Clerk of Works 6. Diyaudeen Khalid - Assist. Quantity Surveyor 				
Narrative Description of project:- Rehabilitation of Science laboratory block, 2-storey girls dormitory block, single storey boys dormitory block, External works, Drainage works, Electricals, plumbing works				
Description of Actual Services:- Architectural, Engineering & Quantity Surveying Design Services (Pre- and Post-Contract Services for the project)				
Firm's Name: A&QS Consortium Ltd.				

REGIONAL CO-ORDINATING COUNCIL

REGIONAL CO-ORDINATING COUNCIL

*In case of reply the date
and number of this letter*

1-05-2015
Email: uppereastrcc@gmail.com

uppereastrcd@gmail.com

Our Ref. No:

Your Ref. No:



Republic of Ghana

Upper East Region
P.O. Box 50
Bolgatanga

Tel: 03820 22431/22433/22414

Date: 4th March, 2015

To:

Whom it may concern

CERTIFICATE OF COMPLETION

CONSULTANCY SERVICES

PROJECT DETAILS:

1. Design and construction supervision for
 - a. REHABILITATION OF GIRLS' DORMITORY BLOCK AT SANDEMA SHTS
 - b. REHABILITATION OF BOYS' DORMITORY BLOCK AT SANDEMA SHTS

LOCATION OF PROJECT: SANDEMA

FUNDING AGENCY: GETFund

NAME OF CONSULTANT: A & QS CONSORTIUM LIMITED

DESCRIPTION OF SERVICES PROVIDED: PRE AND POST - CONTRACT SERVICES

On 10th September, 2013 an inspection of the above noted projects was carried out by representatives of UERCC, A&QS Staff, Sandema SHTS Authorities and other stakeholders. All works on these contracts have been satisfactorily completed to the requirements of all parties.

We, the undersigned Owner and Client, do hereby certify that:

1. The Projects have been completed in accordance with the provisions of the Construction supervision consultancy Contract.
2. The design and construction supervision was done in accordance with the terms of reference of the contract, standards approved by the client and all statutory legislations.

Signed: *[Signature]* **REGIONAL CO-ORDINATING DIRECTOR**
CO-ORDINATING COUNCIL, BOLGATANGA

Authorised Representative:

Name: P. K. ABDUL - KORAH

Title: CHIEF DIRECTOR/RCD

Date: 04 - 03 - 15

REGIONAL CO-ORDINATING COUNCIL

*In case of reply the date
and number of this letter*

Email: uppereastrcc@gmail.com

uppereastrcd@gmail.com

Our Ref. No:

Your Ref. No:



Republic of Ghana

Upper East Region
P.O. Box 50
Bolgatanga

Tel: 03820 22431/22433/22414

Date: 4th March, 2015

To:

Whom it may concern

CERTIFICATE OF COMPLETION

CONSULTANCY SERVICES

PROJECT DETAILS:

1. Design and construction supervision for
 - a. REHABILITATION OF LIVINGSTONE HOUSE/ FURGUSON HOUSE AT NAVRONGO SHS
 - b. REHABILITATION OF VOLTA HOUSE/ ABAVANA HOUSE AT NAVRONGO SHS
 - c. REHABILITATION OF 2 – STOREY CLASSROOM BLOCK AT NAVRONGO SHS

LOCATION OF PROJECT: NAVRONGO

FUNDING AGENCY: GETFund

NAME OF CONSULTANT: A & QS CONSORTIUM LIMITED

DESCRIPTION OF SERVICES PROVIDED: PRE-AND POST-CONTRACT SERVICES

On 24th September, 2013 an inspection of the above noted projects was carried out by representatives of UERCC, A&QS Staff, Navrongo SHS Authorities and other stakeholders. All works on these contracts have been satisfactorily completed to the requirements of all parties.

We, the undersigned Owner and Client, do hereby certify that:

1. The Projects have been completed in accordance with the provisions of the Construction supervision consultancy Contract.
2. The design and construction supervision was done in accordance with the terms of reference of the contract, standards approved by the client and all statutory legislations.

Signed:

 REGIONAL
CO-ORDINATING DIRECTOR
CO-ORDINATING COUNCIL
BOLGATANGA

Authorised Representative:

Name: P. K. ABDUL - KORAH

Title: CHIEF DIRECTOR/RCD

Date: 04 - 03 - 15

2 CONSULTANT'S APPRECIATION OF THE PROJECT AND COMMENTS ON THE TERMS OF REFERENCE

2.1 General

A detailed review of the terms of reference, and discussions with the relevant stakeholders has given the Consultant an excellent understanding, and appreciation of the project. The Community Senior High School Project (CSHSP) will help to increase access with equity and quality in senior high schools. This will ultimately increase senior secondary education in underserved districts and improve quality in low performing senior high schools in Ghana.

The Terms of Reference (TOR) with the Letter of Invitation (LOI) for submitting the proposals have provided us adequate information to appreciate the scope of works of the consultancy services, which basically requires pre and post contract consultancy services.

2.2 Comments on the Terms of Reference (TOR)

2.3 General Comments

The following general observations were made after a thorough study of the terms of reference provided:

1. The Terms of Reference (TOR) provided by the client is comprehensive and provides every detail for the successful execution of the assignment

2.4 Specific Comments on TOR

The Client's TOR gives a description of the scope of services to be carried out by the Consultant. The following are the comments on the TOR as jointly observed by members of the A&QS Consortium Team

1. The concurrent procurement of various contractors for the 10 sites and consultants for the project supervision may not allow any design review by the consultant prior to tender
2. In the likely event where these design reviews are allowed and incorporated during the construction phase, this may equally lead to unplanned cost overruns on the projects

2.5 Suggestions & Proposals

1. The early procurement of a construction supervision consultant may allow the inclusion of their findings (reviews on detailed designs and relevant documentations) prior to the procurement of contractor(s) for subsequent projects

3 APPROACH AND METHODOLOGY

3.1 Project Organisation

The entire assignment will be carried out by three (3) approaches:-

- i. Provision of all requisite administration and logistical controls from the Consultant's head office
- ii. The Project Director/Team Leader has the responsibility of the overall management and administration of the project including liaison with clients
- iii. All other professionals will operate from the Consultant's office and visit the project site periodically when the need arises.

The project implementation organization structure is as illustrated in the figure 1 below

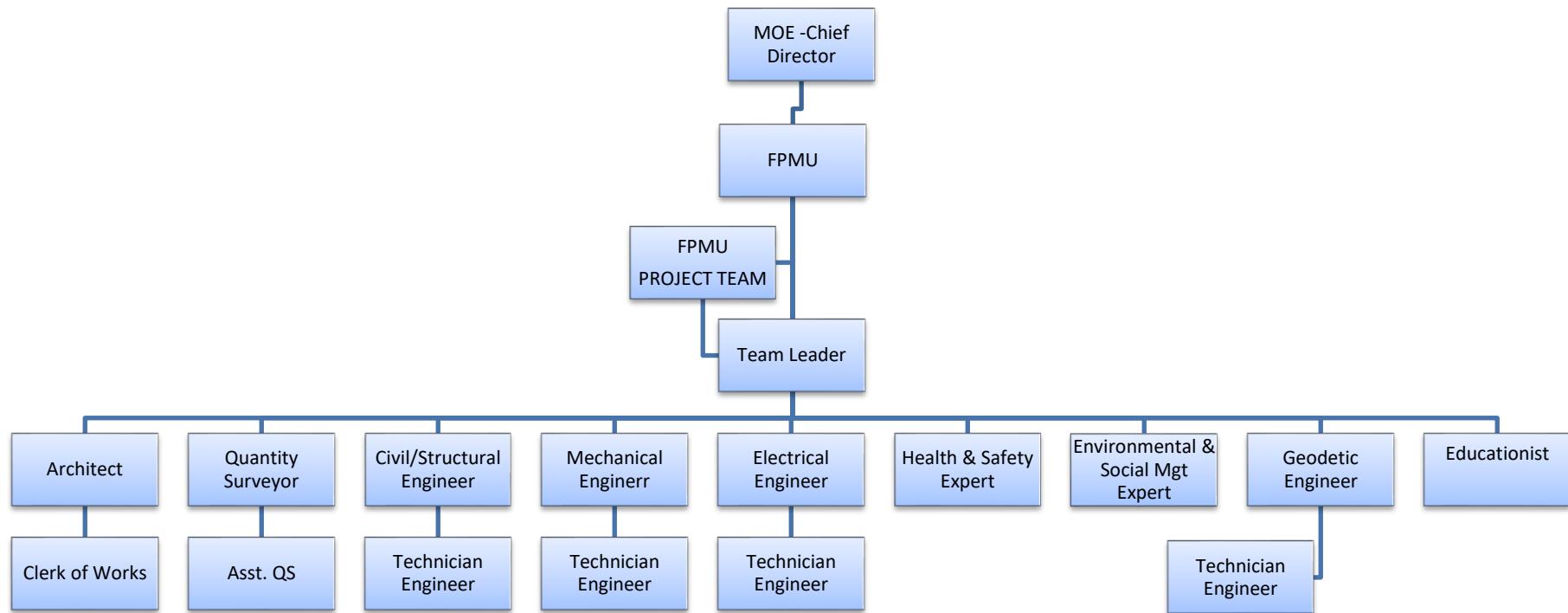
3.2 Work Breakdown Structure (WBS)

A Work Breakdown Structure (WBS) has been identified based on the major activities in the Terms of Reference (TOR), with a few modifications made.

To be able to implement the project works as detailed in the TOR, the Consultant proposes to achieve this in **Five major (5) stages**, namely

1. Methodology for the Review of Detailed Designs and Relevant Documentation to be provided by the Funds and Procurement Management Unit (FPMU) of the Ministry of Education (Existing Architectural and Engineering Designs)
 - a. Mobilisation of Project Team
 - b. Methodology for the Review of Architectural Services
 - c. Methodology for the Review of Building Engineering Services
 - d. Methodology for the Review of Mechanical Engineering Services
 - e. Methodology for the Review of Structural Engineering Services
 - f. Methodology for the Review of Quantity Surveying Services
2. Methodology for Environmental Impact Assessment and Management Plan
3. Methodology for the Acquisition of Statutory Requirements and Permits
4. Methodology for Construction Supervision and Post Construction Phase
 - a. Mobilisation of Project Team
 - b. Pre-Commencement meeting with client

- c. Pre-Commencement meeting with contractors
 - d. Review and approval of contractors works programme
 - e. Review and approval of cash flow estimates
 - f. Review and approval of construction methods
 - g. Possession of work sites
 - h. Control of works
 - i. Safety/security and environmental controls
 - j. Claims and extension of time
 - k. Taking over of the works
 - l. Records
 - m. Defects liability period and final take over
 - n. Reports
5. Methodology for the Establishment of Quality Assurance Plan and Standards



4 METHODOLOGY FOR THE REVIEW OF DETAILED DESIGNS AND RELEVANT DOCUMENTATION

4.1 Mobilisation of Project Team

As soon as A&QS Consortium Ltd is notified of approval of our proposal and the subsequent award of the Contract, the Team Leader would mobilize members of the project team and logistics and also draw a programme of activities for achieving the objectives of the assignment as planned. A revised works programme will be submitted to the client for approval.

The Team Leader would clarify with the Ministry of Education - Funds and Procurement Management Unit (MOE - FPMU) all administrative procedures and set up communication lines for information flow between stake holders.

4.2 Consultation & Coordination Meeting

A coordination meeting would be held between the Consortium and the Client. The role of the various teams would be carefully defined and channels for communications would be established. A Coordinator to represent the client would be introduced to the Consortium.

The meeting would also discuss further the scope of the works, the work plan and methodology for undertaking the consultancy services. The client would be expected to make available all detailed designs and relevant documentation in their possession relating to the project (as stated in the terms of reference) any other requirements that may not have been taken into account in the preparation of the terms of reference.

4.3 Submission of Reviewed Detailed designs Report

After the coordination meeting Messrs A&QS Consortium Ltd would deal directly with MOE-FPMU to submit an overview report on the prepared detailed designs and documentation received.

The reviewed detailed design report would highlight the following:

- I. Comments from the Consultant on the prepared designs giving clear reasons of any possible amendments to the designs and documentation received

II. The overview report would also contain an implementation plan for the assignment.

The Firm in reaching a decision on the existing detailed design and relevant documentation would be guided by the following;

4.4 Review of Architectural Drawings

The Consultants led by the Team Leader would use the clients brief, the Ghana Building Code, National Building Regulation 1996 (LI 1630), BS 6399, BS 8110 and other relevant standards in assessing the designs submitted for review.

In particular, each requirement in the brief would be assessed against the drawings to ascertain whether provisions have been made for them and if so whether the provisions have met the minimum requirements in the building codes and the national building regulation.

An assessment would also be made of the finishes as to whether they are appropriate for the facilities or met the client's brief requirements.

Spatial relationships, flow and functions as well as vertical and horizontal communications of the various proposed infrastructure projects across the ten (10) proposed sites will be assessed. Adequacy of the detailed designs and access for the physically challenged and as much greens as possible to make the entire design ambience environmentally friendly will be considered.

The team will check detailed production or working drawings i.e. Site plans, Block plan, Elevations, Floor plans, Sections, Roof plan, External works, details, schedules, specifications etc, in their appropriate scales to conform with client's requirements and standard practice.

Comments for amendments and revisions would be made if possible on the level of detailing of the building elements in the drawings of the designs already prepared.

4.5 Review of Civil/Geotechnical/Hydrogeological and Structural Designs and Drawings

The Lead Structural /Civil Engineer together with his team will review the structural/civil engineering drawings and calculations as follows:

By using the available geotechnical investigations report supplied by MOE-FPMU for new buildings, indicating recommendations for foundation types and depths as well as the presence and quality of ground water, the team will run a parallel analysis using current structural engineering software's to confirm adequacy of foundation type, sub-structural elemental sizes, retaining walls, reinforcement details foundation depths etc.

A comprehensive hydrogeological survey will be carried out on each proposed site to ascertain the availability of portable ground water for usage. Where this activity is carried out, detailed reports will be presented to the employer in order to inform the method of drilling suitable for the site and all features necessary for proper functioning of a mechanised borehole given.

Geotechnical studies and survey will be done to determine the soil bearing capacity of sites, the soil profile and the type of foundations necessary and required for the site. Investigations will be done with respect to possible settlement of the ground considering the expected load from the 24-Unit Classroom Block (E-Block).

Similar analysis will be run for the structural frame for superstructure to confirm the adequacy of the design and all related structural elements by using relevant loading factors (dead, live, wind and seismic) to determine adequacy of elemental size specification and concrete strength, particularly, columns, beams, shear wall, floor slabs, ramps etc., to ensure the structural design will pass the structural integrity test.

For existing infrastructures which will need rehabilitation or refurbishment, the supplied Structural Integrity Test Report will be used to make recommendations on the works to be carried out on each facility.

The consultant would use different software from that used by the MOE - FPMU Technical Team in checking the structural designs.

Comments would also be made on the level of detailing of the drawings and checks would also be done on the entire bending schedule for new designs.

4.6 Review of Electrical/Mechanical/Electronic Engineering Drawings

The lead Electrical and lead Mechanical Engineers would review the services design comprising drawings, specifications, calculations and services Bills of Quantities along the following lines:

Review of detailed Mechanical and Electrical Engineering drawings showing layouts and schematic diagrams in the appropriate drawing scales and associated calculations.

The electrical and mechanical designs would be checked against the clients brief to ascertain whether all the requirements of the clients are met and also whether the provisions made conforms to the Ghana building code, the ECG, the Ministry of Power and Energy, Institute of Electrical Engineers, the Institute of Mechanical Engineers, United Kingdom.

Confirmation of technical specification, technical support from manufacturers, confirm guarantees and warranties from manufacturers and accredited suppliers, power ratings of equipment, papers and brochures for (Electric Generating set, electrical fittings, fixtures, luminaries, cabling , switchgear, LCT requirements, air-conditioners, and sanitary appliances, security systems etc).

Comments would also be made on the level of detailing of the drawings

To achieve the objective of review the electrical/electronic design details to be provided, the following parameters shall apply;

Designs will be reviewed based on generally accepted international and local standards and in particular with the requirements of

1. Electricity Company of Ghana (ECG) regulations
2. BS 7671: 1992 Requirements for Electrical installations (Institution of Electric Engineers Wiring Regulations 16th Edition)
3. International Electro- Technical Commission (IEC) Regulations
4. Chartered Institution of Building Services Engineers Guides and Application Manuals

Normal lighting system for all the spaces should be designed on the basis of the minimum illuminance levels required for the performance of specific visual tasks without impairment of vision or discomfort glare.

Criteria for choice of fittings shall be influenced by functionality, aesthetics and cost. Illumination levels shall be set by latest standards taking into account the need to reduce glare to a minimum.

The mechanical engineering services will be designed generally in accordance with the requirements of the relevant British Standards. ASHRAE, CIDSE, statutory authorities and appropriate legislations.

4.7 Review of Quantity Surveying/Contract Administration Services

The Lead Quantity Surveyor/Cost Consultant/Contract Administrator together with his team will review the submitted Tender Documentation and the general Procurement Systems and Structures used in procuring contractors for the sites as follows;

Most importantly, the key area to look out is the procurement system and routes used to engage the various contractors for the sites. This will be to ascertain whether the provisions are in line with the Public Procurement Law (Act 663, 2003) or the World Bank whichever is required by the client. The usage of relevant Standard Tender Documents (STD's) as a result of the estimated cost thresholds and risks involve in each project site. The approval processes of these procurement contracts will be reviewed to ensure compliance with the Public Procurement Act and Manual of the Public Procurement Authority (PPA) or that of the World Bank.

The team will quickly but effectively check quantities in the tender Documents to find out if they fairly represent what has been indicated in the drawings. This operation is very important because the facilities in question spread across 10 different districts (Brong Ahafo, and Upper West regions) and missing out or under measuring a quantity can prove disastrous. These are different regions with different land topography

Checks will also be conducted on specifications and description of Bill items to make sure they are thorough and leave no doubt for ambiguity and they are consistent with what the drawings indicate. Since these can also affect pricing adversely and ultimately the cost of the project.

Others such as instructions to tenderers, Project Data sheet, all relevant information to be supplied has been spelled out clearly in order to ensure that risks and liabilities of each site are done meticulously.

The conditions of contract are also a very important area whether standard conditions are applicable or may require modification or addition of special conditions peculiar to the project.

Where price adjustment is allowed for in the tender documents, it will be of particular interest, the consultant will make sure all relevant components of the formula, i.e. Coefficients and weightings reflect a balance and characteristics of the projects in all 28 districts.

Also of equal importance for review are wording for Bid Bond, Performance Bond, Advance Mobilization, Form of Agreement. The consultant will ensure that they conform to standard terminology.

The consultant will also re-price the Bills of Quantities to arrive at a current price taking into consideration time lapse and to also take care of inflation, changes in prices etc upon the request of the client (MOE-FPMU).

4.8 Submission of Draft Design Review findings

Hard copies and soft copy of the reviewed design and documentation Report will be submitted to the client allowing time for their review, responses and approval.

Comments from the client on the overview report would be taken into account in the preparation (if any) of any amendments to the existing designs.

4.9 Final Design Review Findings

The project team led by the team leader/coordinator will proceed to the final stage of the adaptation stage taking into consideration the final review responses and approval from the client (MOE-FPMU) especially on Design Modifications/ Amendments and changes In Specification.

Comments received from the client would be taken into account in the submission of the final revised drawings and documents.

5 METHODOLOGY FOR THE ACQUISITION OF STATUTORY REQUIREMENTS AND PERMITS

This assignment would be done in parallel with the review work, the reports include fire, Traffic and environmental as well obtaining building permits for the project.

5.1 Fire Reports and Certification

Due to the complexities of human activities fire hazards can occur anytime, so there should always be systems in place to fight them.

The Ghana Fire service Department (GNFS) therefore requires that appropriate measures and systems are put in place for fire outbreaks for all public structures.

As a registered Fire Design Consultant with the Ghana National Fire Service, the Consultant (A&QS Consortium Ltd) has a thorough understanding and appreciation of the requirements of the consultancy services for this project. This understanding has been enhanced through the involvement of our firm in the acquisition of various fire certificates to a number of clients in the built environment.

As part of the permitting process, the Consultant will require from the client the appropriate drawings of the intended facility. It is required that these drawings will show the floor plans with their dimensions. The type of fire alarm systems to be adopted, fire assembly points, water storage systems, pipe systems, entry and exist points to the facility etc will have to be provided.

Existing facilities to be rehabilitated or refurbish will equally be subjected to these requirements so as to make them safe as per the safety management framework.

In adherence to the Ghana Fire Precaution Regulation, 2003 LI 1724 Regulation 1, the Consultant will consult the Fire Service Department for fire certificate as well as technical advice for building plans in respect of structural layout to facilitate escape from fire, rescue operations and fire management.

As part of the requirements for the acquisition of a fire certificate, the Consultant shall submit to the GNFS:

1. Four (4) sets of fire engineering drawings in the scale of 1:50, 1:10 and 1:20 (in hard copies)
2. Four (4) sets of fire installation protection or conceptual report on the project or

building and other information demanded in the check list

3. An application letter written on the beneficiary school letter head or logo and addressed to the Chief Fire officer or his representative (Regional Fire Officer, District Fire Officer etc.).

The Consultant will acquire a Form "A" application form from the fire department. After completion of form, the Consultant shall submit the form with all other attachments as specified above. After a thorough assessment and approval of this, the GNFS will raise an invoice to be paid by the client. After which a fire certificate will be issued.

5.2 Traffic Impact Assessment

New developments and rehabilitations in any part of the country and specifically the ten (10) sites in two different regions of the country may have both positive and negative impacts on their immediate environments. In order that such developments do not unacceptably destabilize existing environmental systems, it is important that their influence zone is determined and the extent to which they affect the environment is quantified so that the requisite steps are taken to mitigate any negative environmental impacts as much as possible.

In urban areas specifically, transport efficiency is one socio-economic environmental quality that responds very sensitively to new developments, especially where the development is likely to attract a significant amount of trips. A Traffic Impact Assessment (TIA) is therefore required to evaluate the effect of generated traffic from a new development on the surrounding road network.

If the development is of a size that will generate significant proportion of trips on adjoining transport infrastructure, this additional demand may necessitate changes to be made to the road layout or public transport facilities to accommodate additional demand.

The above-mentioned assessment is mandatory since the planning Laws of Ghana stipulates the need for assessment studies for new developments.

5.3 Building Permit

The Consultant on submitting the final drawings would purchase a permit application form from the various Metropolitan, Municipal and District Assemblies (MMDAs) within the ten (10) beneficiary schools, fill it and submit it together with the drawings to the Metropolitan, Municipal and District Assemblies (MMDAs) Town and Country planning offices. The consultant will make all necessary follow ups till the building permit is issued.

In accordance with Section 7 of the National Building Regulation 1996 (LI 1630) and Section 64(1) of the Local Government Act 1993, (Act 462), the necessary building permits for the various infrastructure projects - new constructions of 24-Unit Classroom Block (E-Block) among the ten selected district schools will be issued and communicated to the client.

All fees chargeable would be communicated to MOE-FPMU for settlement. The review and the provision of the building reports end the active role of the consultant.

6 METHODOLOGY FOR ENVIRONMENTAL IMPACT ASSESSMENT

The consultant proposes to undertake an Environmental Impact Assessment Study for the constructional activities at the project site. The study will follow EPA guidelines for EIA on development projects. In line with EPA requirements, the Consultant will undertake a scoping exercise (stakeholders consultations), which entails discussions and consultations with all interested and affected parties.

These discussions will provide relevant background information and also ensure that key issues and concerns raised by affected persons are given due consideration when conducting the EIA.

The Consultant's approach to the subject will incorporate;

- i. Existing baseline environmental conditions;
- ii. Potential environmental impact both direct and indirect including opportunities for environmental enhancement;
- iii. Proposed preventive, mitigation and compensatory measures, presented in the form of an action plan;
- iv. Proposed environmental monitoring arrangements;
- v. Engineering requirements to protect the environment.

6.1 Baseline Environmental Conditions

As a first step, the Consultant shall make a comprehensive inventory of the existing environmental components with respect to each of the project measures and components mentioned.

The inventory exercise would enable the Consultant to come up with an evaluation of both the positive and negative impact from each of the project interventions proposed for the works.

6.2 Potential Environmental Impact of Project Interventions

After the baseline data have been analyzed and evaluated, the Consultant shall identify negative and positive environmental impacts of the project. In particular, the potential negative impacts will be reviewed critically to enable adequate mitigatory, compensatory measures to be put in place.

In this regard, the Consultant shall focus on negative impacts arising out of:

- i) Contamination of water bodies (ground and surface) due to wastewater from drains and lavatories from the developed facilities at the project site

- ii) Dust pollution and excessive noise during construction.

6.3 Mitigatory and Compensatory Measures

The consultant will identify and propose measures for mitigating the adverse environmental impacts of the project. In this regard, options other than those proposed will be considered to permit an evaluation of all the viable mitigatory measures to arrive at a realistic intervention strategy.

After careful evaluation of all options, the consultant shall present an Action Plan for the implementation of preventive, mitigatory and compensatory measure to either reduce or eliminate negative impacts identified. Wherever possible, the cost and benefits of the environmental impacts will be quantified in monetary terms.

6.4 Environmental Monitoring

The consultant shall prepare guidelines for environmental monitoring. This is to ensure that impacts have been accurately predicted and that mitigation measures are being implemented as planned.

The guidance will incorporate among other things:

- i. A monitoring programme
- ii. Identification of personnel and their training needs
- iii. Identification of agency to perform this task.

6.5 Environmental Management

The consultant considers this aspect of the Environmental Impact Assessment process very crucial if mitigatory measures necessary for the success of the environmental management are to be achieved.

In this regard, the Consultant will take the necessary steps to ensure that an environmental management strategy is put in place to protect environmental resources within each town without necessarily foregoing the virtues of exploiting the environment for the socio-economic enhancement of the population.

The consultant recognizes the need for educating the project beneficiaries to make them aware of their roles and responsibilities in maintaining clean environment.

The Consultant will develop an Environmental Management Plan. This will not only include clear recommendations for action and the procedures for their implementation but will also

define a programme and costs. Mitigation and management measures will not be adopted unless they can be shown to be practicable and good value for money.

The Preliminary Environmental Report contains the findings of the Preliminary Environmental Assessment (PEA). If the findings indicate significant impacts, then an Environmental Impact Assessment will be required.

7 METHODOLOGY FOR CONSTRUCTION SUPERVISION (POST CONTRACT SERVICES)

7.1 Introduction

The role of construction supervision is to interpret contract documents, check compliance with specifications and drawings, test, measure and, modify if necessary the works, and certify payments.

Post Contract Services involves the co-ordination, contract administration and supervision of all construction works as indicated by the Terms of Reference (TOR). For the purposes of this report this period is divided into two (2) phases as follows;

1. Construction Phase
2. Post Construction Phase

7.2 Pre-Commencement Meeting with client and contractor

A coordination meeting would be held between the consultant and the client. The role of each individual would be carefully defined and channels for communication would be established.

To enable the consultant to perform his role of supervising, investigating and co-ordinating all project information effectively, he would arrange the pre-commencement meeting which is the first official meeting prior to the possession of site involving empowered representatives of the contractor, subcontractor(s) if any, the consultant and the employer.

This preliminary meeting would be chaired by the consultant or the employer. All members mentioned above (and any others invited most probably providers of utility services) would receive details of the meeting such as the place, date and time with a proposed agenda. A recognised format of taking and corrections of minutes would also be adopted. The agenda for this meeting will include the following;

1. Introduction
2. Mobilization
3. Communication procedure
4. Delegation of responsibility
5. Subcontractors
6. Insurances and securities
7. Contract particulars
8. Site meetings
9. Measurements
10. Any other business

7.3 Geotechnical/Hydrogeological Studies

Prior to the commencement of works by the contractor, geotechnical and hydrogeological studies will be done on each site. This will be carried out as follows;

7.3.1 Geotechnical and Topographic Surveys

Topographic studies will be carried out to provide information on the levels on the site. The levels will enable the Consultant to optimise the design, and provide the Quantity Surveyor with information to determine the volumes of earth works undertaken on the project. The following details, among others, should be documented during the surveys: site and adjoining ground levels, existing drains and their invert levels, location of walls, existing buildings, electric poles, Trees, centre line of adjoining roads etc. The built up nature of the site and surrounding developments will be observed as well.

Geotechnical survey is to provide information on the soil characteristics, especially information on the sub-surface material, will serve as the basis for the determination of the bearing capacity of the soil and consequently the type of building foundation and structural elements to be used.

7.3.2 Hydrogeological Studies

7.3.2.1 Desk Study

The desk study approach will be used aimed at identifying the geology of the area, to establish their relationship with the availability, depth, and quantity of groundwater. Reports on previous drilling projects undertaken in the area will be studied.

7.3.2.2 Reconnaissance Survey

Reconnaissance surveys will be carried out to have first-hand knowledge of the groundwater potential of the communities. This involved ground-truthing; which is the verification of findings made from the desk study in the field; and inspection of access roads and sanitary sites.

Results of the reconnaissance survey will be used to delineate areas with highest groundwater potential. These will be selected for more detailed investigations, using geophysical methods.

7.3.2.3 Terrain Evaluation

A detailed terrain evaluation will be carried out in all communities to help delineate a good site for further geophysical work. This will involve:

1. The examination of topographic features such as valleys, drainage patterns and also vegetation.
2. Study of the characteristics of existing and abandoned water sources such as boreholes, wells, streams and springs.

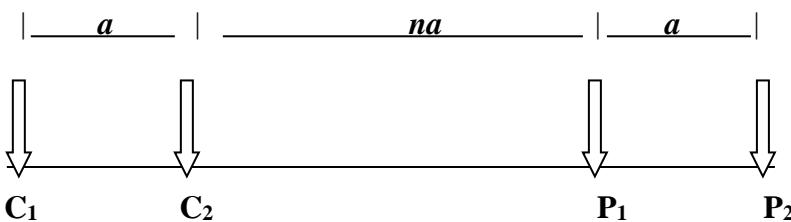
The chance of encountering water is expected to be higher where topography is low, the weathered layer is thick and the vegetation is lush. The chances will be lower at hilltops with thin weathered layers.

7.3.2.4 Geophysical Investigations

Vertical Electrical Sounding (VES)

Points will be selected for Vertical Electrical Sounding (VES) depending on the outcome of a detailed terrain evaluation, for VES . The Dipole-Dipole electrode configuration will be used for all VES investigations. This configuration involved the introduction of direct current into the ground by means of two electrodes and the resulting potential distribution on the ground measured by means of two probes. With this array, P₁ and P₂ are outside C₁ and C₂, with each pair having a constant mutual separation, a, as shown below:

Dipole-Dipole Array



If “na” is the distance between the two innermost electrodes (C₂ P₁), then the apparent resistivity, ρ_a , is given as:

$$\rho_a = a\pi n(n + 1)(n + 2) \cdot R$$

Measurements were taken by increasing “n” in steps, and $n \gg 1$, each electrode pair having been treated as an electric dipole.

Each point will be probe to a maximum depth of 70 metres, and the results plotted on a log-log graph of Apparent Resistivity, ρ_a , against Depth. As a result of the detailed terrain evaluation that will be carried out, spots will also be selected for VES, in some cases.

7.4 Commencement Meeting

Prior to the start of construction activities, there will be a **Commencement Meeting** to establish the basic guidelines for the Client-Consultant-Contractor relationship lines of communication.

The supervision services will be results oriented to ensure adherence to the Contract drawings and specifications and to promote timely completion of the works within budget. This can be accomplished through regular inspection of all parts of the work as they are being constructed, by recognising problem areas before work delays occur, by the quick and cost effective resolution of any problems, and thus minimising their impact on the overall project cost and schedule.

The Consultant will exercise control over construction to monitor that:

1. works are executed to the correct lines and levels;
2. materials used are in accordance with the contract documents
3. work progresses in accordance with the approved programme of works and specifications, and that any modification in design or construction procedures, made necessary by change or unforeseen conditions on site, are resolved expeditiously by the development of sound technical solutions
4. monthly contract payment estimates are completely justified on the basis of the work done to date;
5. actual quantities and payments are monitored to identify potential cost overruns before they occur, advise the Client accordingly, and recommend actions to be taken
6. the Contractor carries out the works in accordance with Contract requirements to minimise interference with local traffic and services and provide access to local buildings and properties of neighbours at all times

The Consultant will also be alert to any possible cost saving that can be made without risk to the integrity of the Works

The Consultant will mobilise and maintain the supervisory personnel required to ensure that the Contractor undertakes the works in conformity with specifications, drawings and other contract documents. The Consultant will provide the necessary support from the Head Office to ensure that the project is well co-ordinated and managed.

7.5 Review and Approval of Contractor's Construction Programme for Monitoring and Evaluation

Within a specified period after the issuance of the letter of acceptance, the contractor is required to submit his programme of work which the consultant would evaluate, agree with the contractor on critical areas and make appropriate recommendations to the client for approval. Relevant issues to look out for in the programme are identifiable work items (or operations) timing and duration of operations, dates for delivery of material and components, labour and equipment resource requirements and subcontractors (if any) site commencement and completion date.

The programme should also identify the critical path. When the programme is accepted, it then becomes the "cornerstone" for management of the contract and the basis for all progress reporting and contract delay considerations.

If at any time during the currency of works the consultant is not impressed with the progress of the works as compared to the approved work schedule he would request the contractor to

submit a revised programme. This procedure would continue throughout the contract period but the originally agreed programme forms the basis for contractual time-keeping.

The consultant's site representatives would in the course of the works request the contractor to produce for approval monthly, weekly and daily programmes conforming to the overall programme.

The review of the Works Programme will pay special attention to the adequacy of the following aspects

- Conformity with the contractual requirements
- Detailed work schedule by Critical Path Method (CPM) or other suitable method showing the interrelationship of work activities
- Measures for safety control, particularly from the viewpoint of securing the existing traffic, adjoining properties and the public
- Mobilization of equipment and personnel and their adequacy for the work: requirements: and
- Arrangements made to ensure smooth and quick relocation of existing services if any within the right-of-way
- Avoidance and/or minimising the effects of the construction on the environment and implementing the mitigation measures indicated in the Preliminary Environmental Assessment Report submitted and approved by the Environmental Protection Agency

7.6 Review and Approval of Cash Flow Estimates

Shortly after award of contract, the consultant's Quantity Surveyor would carry out analysis of the tender by breaking down the contract price into distinct sections of the works for easier appreciation by the employer. In furtherance of this, the consultant would request the contractor to submit for his information, a detailed Cash Flow Estimate.

The Cash Flow forecast would be prepared from the contractor's master programme (by using the work values in Bills of Quantities) and this gives an indication of all payments and their timing so the employer may have an advance knowledge of this financial commitments to enable him make the appropriate financial arrangements to meet the contractual obligations accordingly.

7.7 Review and Approval of Construction Methods

The consultant would request the contractor to submit for his information, a construction method document giving a general description of the arrangements and methods which he proposes to adopt for the execution of the works.

This involves concerting the drawings and Bills of Quantities into a number of construction operations (in a descriptive form), tasks or activities and detailing a suitable method of carrying out every operation and their durations. This should correspond in all respect to the contract programme (which is pictorial).

The consultant would thoroughly examine the method statement to assure himself that the equipment and labour schedules presented are adequate. The consultant would also satisfy himself of the adequacy, suitability and safety of all site operations and methods of construction to be adopted by the contractor.

7.8 Possession of Work Site

Since the master programme is the basis of cash flow forecast, it goes without saying therefore that at any time when the consultant requests for a review of the work programme, the cash flow forecast should also be reviewed.

Before handing over the site to the contractor (on behalf of the employer) the consultant would ensure that the site is free from all encumbrances as would hinder the commencement of works on schedule.

7.9 Setting Out

The consultant would provide (in writing) for the use of the contractor all necessary geodetic survey data and ground survey controls to enable the contractor to set out the works and the contractor would be responsible for setting out all necessary reference points and their maintenance throughout the contract period including Defects Liability Period.

The contractor would be wholly responsible for the accuracy of such reference points, unless such error is based on incorrect data supplied by the consultant. The consultant would issue amended drawings or instruction for correction of any error detected by the contractor in respect of data supplied by the consultant.

7.10 Handing Over of Site

As provided for by the contract, the consultant is required to issue the contractor with the notice to commence work within a specified period after the issuance of the letter of acceptance by the employer.

As part of the notice to commence work the consultant would be empowered to hand over the site of the work to the contractor to commence work as well as give him access.

The consultant would, on behalf of the employer hand over the whole of the site at a go or if specified by the contract hand over portions (or sections) to the contractor for execution and completion within specified times.

7.11 Control of the Works

The nature of the works requires effective supervision. The consultant would assign very experienced Clerks of Works to each construction site. The level of experience of the Clerks of Works would be such that they can take independent decisions on site without necessarily waiting for the project Coordinator or other members of the key personnel staff.

The Clerk of Works would supervise the day to day work activities at the site and submit weekly report to the Project Coordinator.

The Project Coordinator would visit the site every week. The project Coordinator would schedule regular visits of all the consulting team members who would be called upon to move to site at very short notices should the clerk of works require any assistance.

The consultant expects that the contractor would provide adequate site office for the consultant's clerk of works.

During the execution of the works, the consultant would supervise by imposition of managerial, technical and fiscal controls on the performance of the contractors on each site on a day to day basis to ensure the execution of the works in compliance with the contractual stipulations.

The tasks which would be performed by the consultant to achieve the above stated objectives can be classified under two major headings, namely

1. Field control
2. Administrative and managerial control

7.11.1 Field Control

- Quality control
- Quantity control

The contractor's site Engineer would be required to submit to the consultant a "report for inspection". The clerk of works after the inspection would report his findings to the Project Coordinator for his information. Copy of the decision would be sent to the contractors site engineer.

In these inspections and measurements, the clerk of works would consult the technical specification, Bills of Quantities, the civil engineering standard method of measurement and relevant material testing manuals.

7.11.1.1 Quality control

Ultimately, the quality of the finished works will depend, inter alia, on how well the Contractor adheres to the specifications for the works, particularly the quality control tests, as well as the design drawings. The following will be applicable in this case

1. Materials quality control
2. Workmanship control
3. Geometric and topographical control

7.11.1.1.1 Material quality control

This would be carried out to ensure that the materials proposed by the contractors are suitable and satisfactory. The stockpiles would also be subjected to the same quality assurance before being approved for incorporation in the works.

7.11.1.1.2 Workmanship control

This aspect of the quality control is to ensure that the finished products of the contractor's work meets the standards specified in the contract. Examples of the workmanship control test comprising of laboratory and fields test are;

1. Degree of compaction achieved in the construction of the various aspects of the work, such as hardcore filling
2. Concrete mix test such as slump test and water content of the mix
3. Concrete cube strength tests

The results of the workmanship control test would be submitted by the clerk of works on site to the project Coordinator with appropriate recommendations to enable him to decide whether to accept or reject the work

7.11.1.1.3 Geometric and Topographical Control

The third aspect of quality control is the geometric control which is required to check compliance with specified dimensions and tolerance. Examples of these tests are;

1. Setting out of the buildings
2. Depth and width of excavated footings

The consultant would check and verify the basic horizontal and vertical controls set out by the contractor.

The project Coordinator would instruct the clerk of works to carry out series of duties pertaining to quality control in order to:

1. Supervise continuously the contractor's technicians in carrying out specified sampling & testing and reporting
2. Instruct the contractor where to take representative samples and ensure frequency of sampling and testing in accordance with the specifications.
3. Ensure that all test records on materials and field operations are correctly summarized in daily reports and maintain the contractor's record of all such reports and test data.
4. Submit a weekly summary of all test results to the project Coordinator, together with recommendations regarding approval or rejection of materials and work, based on the test data and observation.
5. Carry out independently from the contractor's technicians, any sampling and testing for the purpose of confirming the test results submitted by the contractor.

7.11.1.2 Routine Quality Control Testing

Quality control testing of completed work segments such as slump and compressive strength for concrete works, measurement of laid tolerances of block work, form work and all other necessary tests will be conducted throughout the construction period and to an extent as detailed in the Specifications

Where necessary, and not in conflict with the Specifications, additional testing systems based on random sampling will be employed

7.11.1.3 Quantity Control

Quantity control is necessary to ensure that a good record is kept of the actual quantities of work executed. This is because the effects of variations which are directed by the consultant have to be accurately recorded.

The consultant's quantity surveyor and his technical supporting staff would monitor all works executed by the contractors and record and treat appropriately any variation instructed by the engineer. In this respect the quantity surveyor would:

1. Keep up to date quantity records including field measurements
2. Carryout quantity measurement in the field
3. Assist the project Coordinator in completing weekly and monthly reports evaluated variations and rates submitted by the contractor.
4. Prepare the forecast of final construction cost and revise it from time to time

7.12 Administrative and Managerial Control

7.12.1 General

The importance of administrative and managerial control in the supervision of any construction project cannot be over emphasized.

The daily, weekly and monthly monitoring of the activities on site to ensure adherence to the programme and the cost projections and therefore the early completion of the works have always been of great concern to **A&QS Consortium Limited-**

7.12.2 Cost Control and Payment

Cost control involves the process whereby a construction project cost is intentionally managed in every way possible to ensure that there are no cost over-runs which would give shocks to the project.

The process, therefore, calls for the formulation of a financial plan for the future against which to monitor and measure performance by a continuous comparison of actual with planned expenditure and taking such remedial action towards the rectification of divergences from planned expenditure.

To ensure the realization of these objectives the consultant would address the following issues;

Cash flow forecast immediately before or shortly after commencement of work on site the consultant would give the employer a clear knowledge of his/her financial outlay as to when payments are due and how much is involved.

The consultant would, therefore prepare a cash flow forecast (or project budget) from the contractor's master programme (by using the values of the work items in the bills of quantities).

The consultant would examine the forecast to ensure that an optimum expenditure pattern is achieved so that the employer does not commit too much resource in the initial stages of production or at the tail end of the construction process.

7.12.3 Interim Payment Statement

The appropriate method to be adopted in the preparation of interim payment statement is likely to be mixture of payment relating to time and payment by elements of work completed (otherwise known as stage payments, milestones on payment schedule).

The consultant and the contractor would agree on the time (likely to be the end of each month) as well as the defined stages of construction which qualify for inclusion in the interim statement.

The likely defined stages of constructions are:

1. Substructure (up to and including concrete bed)
2. Super structural walls and concrete elements including gables
3. Roof structure and covering
4. Doors and windows completed with all ironmongery and other fittings
5. Plumbing and electrical installation
6. Finishes (i.e. all floor, wall and ceiling finishes as well as painting and decorating)

The consultant and the contractors would agree on the method of dealing with the preliminary items, whether they be distributed evenly over the contract period or separated into fixed and time related items.

In order to forestall any dispute arising, the consultant and the contractor's quantity surveyors would jointly undertake the inspection of the works to determine which stages have actually been completed as at the agreed time. The interim payment statement would incorporate the following items;

1. The value of the completed defined stages of work
2. The value of materials on site
3. The value of price fluctuations
4. The amount of authorized variations (if any)
5. The value of any day works (if any)
6. The amount of plant/mobilization advance credited to the contractor as well as repayments of advance (debited to the contractor)
7. Any other sum to which the contractor may be entitled under the contract otherwise (i.e. claims if any)

7.12.4 Materials on Site

The consultant would, based on the recommendation of the Clerk of Works, allow in the interim payment certificate an amount to cover materials intended for the works but not yet incorporated in the works. This will only be possible when allowed for in the contract document signed between the client and the contractors.

7.12.5 Variations

This is a very important link in the cost monitoring process. During the construction phase of projects, variations do arise in one or more of the following situations;

1. The wish of the client or consultant to vary sections of the original design and/or specification
2. Discovery of ambiguity in the contract document and consequent clarification
3. Discovery of any omission or error in the contract drawings, bills of quantities or specification
4. An action taken to meet statutory requirements under the orders of building inspectors, district surveyors or other persons with a statutory right control
5. Reduction of cost owing to financial constraints

The consultant would carefully study the contract conditions with a view to determining the machinery for financial adjustment of the effects of the variations.

The consultant's quantity surveyors would ensure that they act expeditiously to facilitate the provision of an effective cost management by valuing variations within the shortest possible time. The consultant's quantity surveyors would provide information on the financial implications of any variations anticipated before a decision is taken by the consultant or client.

The consultant's quantity surveyor would follow the procedure for pricing variations as given in the condition of contract.

7.12.6 Variation Orders

An essential element of cost control is to establish at the outset of the project a precise procedure for introducing the financial effects of necessary changes in the scope of work

Whenever we propose to make a major change in design and/or scope of the work covered in the contract, or takes other action, which will require the issue of a Variation Order under the terms of contract, a request will first be issued to the Client for approval of the change.

The request will include:

1. Description of the change of the work
2. Technical justification of the change including any necessary drawings, calculations, etc
3. The Consultant's estimated of costs of the change
4. Allocation of estimated costs to appropriate sections of the Bill of Quantities

After review and approval by the Client, we will issue the draft Variation Order to the Contractor and proceed to negotiate and finalise costing. Provided this final negotiated cost is within an authorised percentage limit we may proceed with formal issue of a Variation Order under the terms of the contract.

7.12.7 Day Works

Day works normally arise as a result of the consultant's instructions varying sections of the works.

The Consultant's Quantity Surveyors would carefully study the contract conditions to determine the most appropriate method for pricing variations. Where it is not possible by any means to value any variation then the consultant would instruct that it be carried out on a day work basis.

Before any work executed under day work is included in any interim statement, the consultant's quantity surveyor would satisfy himself that the following requirements have been met;

1. Work involved is backed by a written instruction from the clerk of works or the project Coordinator/ architect
2. All day works sheets have been signed by the clerk of works or the project Coordinator/architect
3. Day works is the correct method of valuing the work
4. The prime cost rates are correct and the percentage additions claimed agree with that contained in the bills of quantities
5. There are no inconsistencies regarding quantities of labour, materials and plant

7.12.8 Retention Money

The normal allowance for retention is 10% of the value of work done up to a limit of 5% of the contract sum. The consultant would certify the release of the first moiety of the retention money upon the issuance of the taking over certificate. The consultant would certify the release of the second moiety of the retention money on the issuance of the Defects Liability Certificate. In some cases the contractor would produce a guarantee to cover the release of the second moiety of retention on the issuance of the taking over certificate. The consultant would vet the guarantee and advise the employer accordingly.

7.12.9 Price Adjustment

The consultants would presume that the contract is not a firm price contract and the contractor would be duly reimbursed financially for any increase in the cost of materials, wages and plant.

The general formula to be used for price adjustment would take the following form as given in the conditions of contract $Pc = Ac + Bc (Imc /loc)$ where;

P_c is the price adjustment factor for the portion of the contract price payable in a specific currency "c"

A_c and B_c are coefficients specified in the contract data representing the non-adjustable and adjustable portions respectively of the contract price in that specific currency.

I_{mc} is the index prevailing at the end of the month being invoiced and I_{oc} is the index prevailing 28 days before bid opening for inputs payable both in the specific currency

The consultant would agree with the contractor before the signing of the contract on the weightings or coefficients of the adjustable and non-adjustable portions respectively of the contract.

The consultant would expect the contractor to have submitted base cost indices for the adjustable and nonadjustable portions respectively of the contract including dates.

7.12.10 Financial Statement

The consultant's quantity surveyor(s) would prepare periodic cost reports (as part of the monthly progress report) to appraise the client of the financial status of the project(s) at any particular time during the currency of the works. The report would be composed of the total value of variations to date, cost of unconfirmed variations, fluctuations, possible contractor's claims for direct loss and/or expense and adjustment of provisional sums (if any).

The consultant would endeavour to predict the financial effect of variations and contractor's claims and thus, make the client aware of his future financial commitments. The financial report is the sole consumption of the client. Consequently the consultant would include a disclaimer caution to dissuade the contractor from using the information contained in the report to justify a contractual claim.

7.12.11 Contractual Claim

The consultant would examine all claims submitted and where he deems it justified include whatever amount is due to the contractor in the payment certificate after thorough negotiations with the client. The final approval of a claim exclusively rest with the client.

7.12.12 Interim Payment Certificate

On receipt of the contractors monthly statements of the estimated value of the work executed, the consultant would check the statement and certify the amount to be paid to the contractor. The consultant would adjust the payments due to the contractor by deducting for advance payments and retention. The consultant would draw the attention of the employer to

effect payment of the amount certified within the period stipulated in the contract failing which the employer would be required to pay interest on delayed Payments.

7.12.13 Time and Progress Control

The consultant would obtain from the contractor(s), a detailed work programme which would have details of the plant, equipment and labour for the work. The consultant would monitor the progress of the work closely to ensure adherence to the programme. The progress of the work and the programme would be scrutinized critically at every monthly meeting and where the rate of progress is found to be inadequate, the contractor would be advised to take steps to expedite the works. The contractor would also be written to by the consultant to be mindful of the liquidated damages which would be applied should they fail to complete the works as scheduled. In the event of the contractor not being able to meet the timing the consultant would write to them to submit a revised work programme. The employer would be notified immediately, should the consultant find that the contractor is unable to complete the works as scheduled.

The progress of the works would be determined by comparing the quantum as well as the cost of work done against those indicated on the work programme.

7.12.14 Routine Site Meetings

The consultant would hold monthly meetings with the contractor(s) and all the relevant stakeholders to review the progress of work, cash flow projections and issues pertinent to the site(s). This would ensure that where lapses are observed, quick remedial measures are put in place to correct them. The agenda to consider at meetings include the following

1. Comments on minutes of last meeting
2. Progress status
3. Technical matters
4. Financial matters
5. Contractor's staff
6. Contractor's equipment
7. Material on site
8. Administrative matters
9. Variations
10. Claims
11. Any other matter

The consultant would hold technical meetings with the contractor(s) alone to resolve technical and other issues that may hinder the progress of the works. All the minutes of the meetings held would be correctly documented and copies distributed to all participants before the next schedule meeting and also produced in the monthly progress reports

7.13 Safety, Security and Environmental Control

Prior to the commencement of construction works, we will hold a meeting with the Client and the Contractor to further discuss safety measures needed during construction. The Contractor will then be required to finalize their Project Safety Control Plan, which will include, but not be limited to the following;

1. Appointment of Safety Representative, who is fully familiar with the contents of the Safety Control Plan;
2. Large scale sign boards visible both night and day to be provided. where needed. to caution the public
3. Erection of reflective barriers next to excavation sites to protect vehicles. cyclist and pedestrians
4. Establishment of a procedure to be applied in the case of an emergency
5. Identification of areas to be restricted to stockpiling of materials and/or parking of equipment
6. Identify and indicate safe routes for staff and students to the existing facility

Will observe the construction operations of the Contractor and will advise on any activities considered unsafe or which may endanger workmen, supervisors visitors to the site and the public, or which may have the effect of reducing the durability and safety of the work

During the construction period, the contractor will be required to regularly conduct safety patrols and hold safety control meetings attended by the Client the Construction and the Contractor. The purpose of the meetings will be to monitor and improve safety standards

The safety, security and environmental control aspect of the work would be given important consideration by the consultant. It is the view of the consultant that the contractor(s) should ensure;

1. The safety of all workers on site and other persons within and around the project area. To achieve this, the consultant would therefore ensure that appropriate safety apparels like hard hats, gloves and shoe are used by all personnel.
2. The security of all personnel, materials, plants and equipment, develop for the works
3. The protection of the environment (both within and outside the work area) from acts resulting from the works being undertaken.

The consultant would inspect locations selected for the disposal of excavated materials and other materials not required for the works. The disposal points would be inspected to ensure there are no hazards before approval is given to the contractor for its use. The consultant would ensure that the noise level would be controlled and no work would be allowed at night.

7.14 Claims and Extension of Time

7.14.1 Claims

Claims constitute a dark spot in the administrative and managerial control of a project and may eventually (if not handled with care) take all the parties to the courtroom. The consultant would familiarise himself with all situations which give rise to claims, including disputes over quantities, delay in issue of drawings or instructions, delay in payment by the employer etc.

The consultant would also familiarize with the three main types of claims so that they would know how to approach claims problem if one should arise. The three main classifications of claims are contractual, extra contractual and ex-gratia claims.

The consultant would consider, assess and determine all contractual and extra contractual claims because these are considered to be legally enforceable. The consultant would leave ex-gratia claims to the employer to deal directly with the contractor because ex-gratia claims do not have a legal basis and are paid at the discretion of the employer.

The consultant would assess any claim to ascertain whether they have reasonable grounds and are acceptable.

7.14.2 Procedure for dealing with Claims

If the contractor wants to make a claim, then, within a period of 28 days of an event necessitating that claim, the contractor would notify the consultant (in writing) who would duly acknowledge receipt of the notice and assign a claim number to it. The consultant would then bring the notice to the employer, the possibility of additional cost that may arise and that the contract sum may change. The consultant would instruct the contractor to take action to modify or reduce the effects of the claim e.g. by attending to other works in the programme not affected by the event in dispute.

The consultant would investigate and study contemporary records including supporting data on site including photographs, if any.

He would ensure and advise the contractor to keep adequate records such as labour, materials, plants (including standing and broken down) time and inclement weather.

Within 28 days (or such other reasonable time as may be agreed by the consultant) of giving notice, the contractor would send to the consultant an account giving detailed particulars of the amount claimed and the grounds upon which the claim is based.

7.14.3 Examination of Contractors Claim

In examining the contractor's representation, the consultant would look out for the following;

1. A statement of the contractors contractual reasons for his stance that the employer is liable for the extra cost, etc
2. A statement of the relevant events giving rise to the claim including a statement of how circumstances have changed from those the contractor would reasonably have foreseen
3. Copies of all relevant documents including original tender programme and mark-up of all major bills of quantities rates which are necessary to substantiate the amount of the claim
4. A detailed calculation of entitlement claimed by the contractor with copies of relevant substantiating information, records, invoices etc

7.14.4 Assessment of Claims

When the consultant receives the detailed particulars of the claim from the contractor, he would first decide whether the claim has reasonable grounds to be acceptable in principle. If he considers it unacceptable he would inform the contractor promptly in writing that his claim has been rejected giving reasons for rejection. If he needs further data and ground to reach a reasoned judgement he would request for further information and/or explanation to enable him to assess and determine the amount of the claim.

7.14.5 Negotiation of Claims

When the claim has been accepted in principle, the consultant would evaluate and determine promptly such amount which he deems the contractor is entitled to. In certain situations where a clear-cut solution cannot be achieved, the consultant may set out a working group comprising nominated member from the consultant's and contractor's outfits to negotiate and agree on the disputed points of the claim.

Where a settlement is reached, the consultant would include the amount arrived at in the interim certificates. If an agreement cannot be reached, the consultant would nevertheless determine the amount which he considers the contractor is entitled to and the contractor can resort to arbitration (if he so wishes). In all his dealings with the contractor, the consultant would act in an independent and impartial manner in settling the claim.

7.14.6 Failure to Comply

Should the contractor fail to notify the consultant in respect to any claim which he seeks to make, the consultant would nevertheless assess the amount which he considers the contractor is entitled to having regard to information verified by contemporary records.

7.14.7 Standard Form of Claim

Much as the World Bank and Ghana's Public Procurement Authority's conditions of contract do not give a standard form for claim, the consultant would design a format suitable for the purpose which incorporates all the information required by the conditions.

7.14.8 Extension of Time

The contractor(s) would notify the consultant within 28 days of event necessitating the extension of time occurring and consultant would evaluate the request and seek the necessary approval from the employer before granting the extension of time.

When evaluating the contractor's request for extension of time, the consultant would determine if the event is of a critical nature and would directly influence the overall completion of the project. The consultant would also consider the financial effect the extension would have on the contract, having regard to liquidated damages or possible aggregate additional consequential cost. Much as the consultant is under obligation to seek clearance from the employer when granting extension of time, he would approach the exercise in an impartial manner.

7.15 Taking Over of the Works

The consultant would upon notification by the contractors that the works are substantially completed, issue instruction to the contractor specifying all the works necessary to be completed prior to the substantial completion inspection.

The consultant would carry out the substantial completion inspection jointly with the client, contractor and other relevant bodies and compile a list of all defects /outstanding works observed during the inspection. This list would be agreed and signed by the inspecting parties. The consultant would then issue a taking over certificate. The taking over certificate would confirm that the works have been substantially completed, stating that the certificate is subject to the completion of the attached list of defects/outstanding works within 4 weeks.

The certificate would also establish the date on which the substantial completion was achieved and the work taken over by the client. The defects liability period would commence with the issue of the taking over certificate. The consultant would prepare a certificate for

release of part of the retention fund having regard to the relative value of completed sections in accordance with the conditions of the contract.

7.16 Records

The consultant, knowing that good record keeping and documentation are very essential in the monitoring and management of a project, and also in dealing with claims, would keep detailed records of works activities, rate of progress, weather conditions, verbal and written instruction given to the contractor among others. The following are types of records which would be kept;

7.16.1 Project Daily Diary

The consultant would keep a site diary to enable him keep daily records of works activities including mistakes made by the contractor, the progress of the work and any other relevant activities that would be useful in negotiating of variations, verifying or rejection claims for extra works or delays.

7.16.2 Photographs

The consultant would take photographs at regular intervals to indicate the general progress of work. Photographs of subjects requiring particular attention which include changed condition, damaged equipment or materials, defective work, block access to site, flooding, landslide etc would be taken as and when necessary. The photographs would be dated and the location and subject noted. The photographs would be kept in a series of albums.

7.16.3 As - Built Drawings

The consultant would indicate on a copy of the drawings, details of all changes done in the works. This would be done progressively during the execution of the works in order not to loose any details when preparing the as-built drawings. As-built drawings are essential for future operation and maintenance of the facilities and subsequent rehabilitation works.

7.16.4 Measurement Book

The consultant would keep records of all measurement taken jointly with the contractor in the measurement book. The consultant would also keep records of receipt and uses of materials to enable him certify that specified amounts of various materials have been incorporated in the works.

7.16.5 Minute of Meetings

The consultant would record and prepare minutes of all meetings held in connection with the project. Copies of these would be submitted to the employer for his information.

7.16.6 Other Documents

The consultant would keep records of all other documents on the project. The documents include certificates, quality control records, survey records, variations, claims and correspondence required under the conditions of contract.

7.17 Defects Liability Period and Final Taking Over

The consultant would ensure that the contractor(s) carries out the works listed in the substantial taking over report within a specified period during the defects liability period. The consultant would agree with the contractor(s), the type and extent of maintenance during the defects liability period to ensure that the works are adequately protected throughout the period.

The consultant would also conduct regular inspection and ensure that the contractor makes good any defects that require immediate attention. The consultants together with the contractor would inspect the project at the expiration of the defects liability period, prepare a schedule of defects to be made good by the contractor.

The consultant would prepare reports concerning any defects discovered during the inspection. The contractors would then be requested to programme the execution of the outstanding works and defects for a final inspection of the works with the employer. Should the need arise, the consultant would assist the employer with the rectification of defects which are not deemed to be the contractor's fault.

After successful execution of the defects, a final certificate would be issued together with a certificate for release of the residue of retention fund with the employer's approval. The consultant and the contractor would prepare and agree on final account which would be submitted to the employer for payment.

The consultant would recommend to the employer the release of all outstanding bonds and guarantee, etc provided by the contractor under the terms of the contract.

At the end of defects liability period, the consultants would submit a project completion report and as built drawings to the client. The project is thus deemed completed and taken over.

7.18 Reports

The consultant would prepare reports covering the works. All reports would be submitted to the employer with an information copy to the contractor. The reports and documents to be presented are:

1. Inception report

2. Monthly reports
3. Substantial completion report
4. Final construction report

7.18.1 Inception Report

An inception report would be submitted to the client two weeks after the commencement of the works contract. The report would comprise the following:

1. All activities relating to the handing over of sites
2. Consultant's impression and recommendations on any major change in the original design
3. Guidelines for administering and monitoring and evaluating the project and quantity assurance plan

7.18.2 Monthly Reports

The consultant would prepare monthly a progress report on the work activities performed on the site, physical progress during the month, cumulative progress and target dates. The report would show targeted progress as well as actual progress and variation. Reasons for any short fall in the progress would be included in the report. The reports would contain among others the following:

1. Description of the consultant's and contractor's activities
2. Construction progress bar chart (i.e. summary of network schedule) showing planned and actual progress
3. An updated estimate of final construction and engineering cost compared to funds still available
4. List of important letters, instructions and variations orders issued to date
5. Contractor's and consultant's staffing during the period
6. Consultant's and contractors equipment in use during the period
7. Permanent materials delivered during the period
8. Pending questions and problems
9. Any unusual or special circumstances occurring during the report period
10. Weather conditions and their effect on progress and project photographs
11. The minutes of all meetings that take place with the contractor during the reporting period

In addition to the monthly progress report and charts, the following would be reported;

1. Contract data: showing contract name, employer, contractor, consultant, commencement and completion dates

2. Financial Summary: showing a brief abstract of the last payment certificate including certificate number, date issued etc
3. General site information: incorporating weather conditions on site, rainfall figure temperature, and variation orders issued during the quarters, visitors to site indicating organisations they represent and their mission to the site. Site accidents would also be recorded indicating date and time of accident. All correspondence concerning the project received on site within the period would be recorded with date and subject matter. These would include correspondence from residential engineer, correspondence from the contractor and those from the employer. Any extension of time granted within the period indicating the reasons for granting the extension of time would be recorded. New designs and drawings submitted during the period. Laboratory tests conducted including site sampling and testing of aggregates. Appendices showing the consultant's and contractors operatives and supervisory staff, vehicles, plant and equipment on site would be recorded

The monthly reports would be submitted within seven (7) days after the end of the respective month being reported upon. Three (3) hard copies and one soft copy of the monthly reports on each site would be submitted.

7.18.3 Substantial Completion Reports

The substantial completion report which would be prepared at the end of the substantial completion of the project would detail out the following:

1. State of works at completion and list of defects and outstanding works
2. Programme for making good the defects
3. Demobilization and programme for the defects liability period
4. As-built drawings (to be issued within thirty days of issuing substantial completion certificates)
5. Three (3) hard copies and one soft copy of the substantial completion report on each site would be submitted.

7.18.4 Final Account

The quantity surveyor will provide the Final Project(s) Cost Report to be incorporated in the Project Close-Out Report to be submitted to the MOE-FPMU on completion of the Consultancy assignment by A&QS Consortium Ltd.

Construction contracts generally provide some mechanism for the final payment to be made to the contractor on completion of the works described in the contract. Generally this

payment will be made at the end of the defects liability period providing that all patent defects have been

Preparing the final account is the process of calculating and agreeing any adjustments to the contract sum (the amount originally set out in the contract to be paid to the contractor for completion of the works) so that the amount of the final payment can be determined. The amount of the final payment is then set out in the final certificate (or final statement). It is possible for the final certificate to show that money is owed to the client, rather than due to the contractor.

Construction contracts may not also specifically require the preparation of a final account, although they generally do require the contractor to provide all documents necessary for the adjustment of the contract sum within a specified time, and set out the time scale for and consequences of issuing the final certificate.

The contract sum may need to be adjusted for a number of reasons, including:

1. Variations.
2. Fluctuations.
3. Prime cost sums.
4. Provisional sums.
5. Payments to nominated sub-contractors or nominated suppliers.
6. Statutory fees.
7. Payments relating to the opening-up and testing of the works.
8. Loss and expense.
9. Liquidated and ascertained damages.
10. Contra claims imposed as a result of the contractor's operations (such as a third-party claim resulting from contractor negligence or contractual breach, for example, flooding a neighbour's property).
11. The release of any remaining retention.

Agreeing the final account can be a complicated, time consuming and adversarial process, often resulting in disputes. The process can be made easier if adjustments to the contract sum are agreed as the project progresses rather than saving them up for the end. It is also beneficial if the client's quantity surveyor and the contractor's quantity surveyor work together on drafts of the final account before agreement is sought. It is preferable that a draft copy of the final account is signed off by the contractor as an 'in full and final settlement' prior to issue.

Agreement of the final account will allow the contract administrator to issue the final certificate. The final certificate is conclusive that all patent defects have been remedied, all

adjustments to the contract sum have been agreed and all claims settled. Latent defects may still become apparent after completion of the contract and these may give rise to action for damages, for breach of contract or negligence.

If the client intends to pay a different amount from that shown on the certificate, they must give notice to the contractor of the amount they intend to pay and the basis for its calculation.

7.18.5 Final Construction Report (Project Close-Out Report)

The project final report would be prepared at the end of the defects liability period. The final report would compare the original implementation plan and actual progress, initial budget and final cost and would contain the following:

1. Summary of work performed by the contractor(s)
2. Project records
3. Itemised summary of payments made to the contractor(s) and consultants
4. Analysis of the quantities of work items
5. Final account
6. Project photographs and video documentary
7. A description of any significant occurrences with a bearing on the construction contract.
8. Three (3) hard copies and one soft copy of the final construction report would be submitted.

8 METHODOLOGY FOR THE ESTABLISHMENT OF QUALITY ASSURANCE PLAN AND STANDARDS

The Consultant would adopt its company's quality approach procedures for the performance of all works. The procedures cover all the requisite planning, controlling and documentation process mainly;

1. Planning - the objectives, goals, authority and responsibility relationship of each activity area to be defined and understood
2. Controlling - measures would be instituted to ensure the meeting of the goals and objectives and the taking of corrective action to avert problems.
3. Documentation to facilitate feedback on how well the quality management system is performing to satisfy the client's needs and what changes may be necessary.

A quality system is defined by the ISO 9000 standards as the "organisational structure, procedures and resources needed to implement quality management".

It thus consists of all arrangements made regarding quality for the operation of the company and provision of its services.

The Consortium would therefore adopt the quality systems that are guided by the rules of the ISO 9000 standard for the construction supervision-upgrading of facilities within these 28 selected beneficiary schools.

This approach has three beneficial objectives in terms of quality assurance:

Firstly, it provides confidence to our clients. Secondly, it gives us the necessary motivation and confidence in reaching quality standards; thirdly it provides the guidelines for optimizing the management of employees, welfare.

It is thus essential that our responses to invitations to tender be carried out under pre-established and systematic conditions, the record of which must be kept and whose application must be demonstrated in the preparation of project quality plans.

Our quality manual describes the whole organisational set up regarding quality assurance and this is reviewed annually at a yearly management review meeting where quality objectives are set to the following year.

At the inception of the project, a Project Quality Plan (PQP) is drawn. The PQP states the practices, resources and sequence of the quality related activities peculiar to the project. The project quality plan mainly relies on the initial technical proposal, but it must be updated continuously according to the project development and especially the requirements of the client

In the PQP the project Coordinator is the person directly in charge of the achievement of the project objectives. In terms of the quality system, the project Coordinator usually manages a team of several persons temporarily grouped together for the project duration. The quality system provides that a project director is assigned to each project. The project director in the PQP is the experienced executive who is entrusted with the project supervision responsibility by the company. The project director prepares the project quality plan and makes sure that it is implemented properly.

9 WORK PROGRAMME AND IMPLEMENTATION SCHEDULES FOR ASSIGNMENT

9.1 Project Implementation Schedule

The Total duration for the assignment as given in the TOR is Thirty (30) calendar months.

Eighteen (18) calendar months for Construction supervision and Twelve (12) calendar months for Post Construction/ Defects Liability Period (Maintenance Management Period) as proposed by the Terms of Reference.

The work plan for the assignment is therefore divided into Two (2) separate stages.

1. Stage 1 : Review of Detailed Designs and Relevant Documentation and Construction Supervision- 18 months
2. Stage 2: Post Construction Stage - 12 months

The Consultant's programme and manning schedule for undertaking the assignment is illustrated in the attached Works and Personnel schedule (figures 1, 2 and, 3). In each case the staffing programme, duration of activity and reporting programmes are indicated.

Please Refer to figure 1, 2 & 3 below and Works Programme attached

9.2 Professional Staff Schedule

Stage 1 – 2: Key Professional Staff Involved

1. Team Leader (Architect)
2. Lead Architect
3. Lead Civil/Structural Engineer
4. Lead Quantity Surveyor
5. Lead Mechanical Engineer
6. Lead Electrical/Electronic/ICT Engineer
7. Lead Hydrogeological Engineer
8. Lead Geodetic Engineer
9. Lead Geotechnical/Materials Engineer
10. Lead Clerk of Works

Please Refer to table below and professional Staff schedule Programme attached

No.	ACTIVITY	REVIEW OF DESIGNS & CONSTRUCTION PHASE															DEFECTS LIABILITY PERIOD				
		WEEKS				MONTHS											MONTHS				
		1	2	3	4	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	
A	Review of Detailed Designs & Relevant Documentation																				
1	Mobilisation of Project Team	■																			
2	Hold consultation with client and relevant organizations		■																		
3	Review of Architectural Services Designs & Documentation			■	■	■	■	■													
4	Review of Electrical Engineering Designs & Documentation																				
5	Review of Civil/Structural Engineering Designs & Documentation																				
6	Review of Mechanical Engineering Designs & Documentation																				
7	Review of Quantity Surveying/Contract Administration Services & Documentation		■	■	■	■	■	■													
8	Submission of Draft Report- Review of Detailed Designs & Documentations						■														
9	Client's Review/Response/Approval							■													
10	Final Report on Review of Detailed Designs & Documentation								■	■											
11	Environmental Impact Assessment and Management Plans								■	■											
12	Submission of Report - Environmental Impact Assessment & Management Report																	■	■		
13	Health & Safety Management Plan								■	■											
14	Submission of H & S Management Framework & Report									■	■								■		
15	Fire Reports & Certification										■							■	■		
16	Traffic Impact Assessment Report										■										
17	Building Permit											■									
18	Pre-Commencement meeting with Client											■									
19	Pre-Commencement meeting with Contractors																				
20	Health & safety, Environmental Protection & Security of Work Sites											■	■	■	■	■	■				

Figure 1: Project Implementation Schedule**Authorised Representative**Name: Andrew K. KuundaariPosition/Title: Director A&QS Consortium LtdAddress: P.O. Box 531, Wa UWR

Signature:

No.	ACTIVITY	CONSTRUCTION+DEFECTS LIABILITY PERIOD											
		MONTHS											
		2	4	6	8	10	12	14	16	18	20-30		
A	CONSTRUCTION SUPERVISION												
1	Pre - Commencement & Commencement meeting with Client & Contractor	■											
2	Review and Approval of Contractors Work Plan/Schedule		■										
3	Review and Approval of Contractors Cashflow Estimates			■									
4	Review and Approval of Contractors Construction Methods		■										
5	Site Possession/Commencement of Works			■									
6	Health & safety, Environmental Protection & Security of Work Sites			■	■	■	■	■	■	■	■	■	■
7	Supervision/Inspections	■	■	■	■	■	■	■	■	■			
8	Measurements/Payment Certificates		■	■	■	■	■	■	■	■	■		■
9	Progress Meetings/Reports			■	■	■	■	■	■	■	■	■	■
10	Joint Site Inspection For Interim Take over										■		
11	Interim Taking Over & Commissioning of Works											■	
12	Defects Liability Period											■	■
13	Preparation of Final Account												■
14	Project Close Out Report												■

Figure 2: Construction Supervision Schedule**Authorised Representative**Name: Andrew K. KuundaariPosition/Title: Director A&QS Consortium LtdAddress: P.O. Box 531, Wa UWR

Signature:

POSITION	REVIEWED OF DETAILED DESIGNS & RELEVANT DOCUMENTATION								CONSTRUCTION SUPERVISION									DEFECTS LIABILITY PERIOD						
	WEEKS								MONTHS									MONTHS						
	1	2	3	4	2	4	6	8	8	10	12	14	16	18	20	22	24	26	28	30				
TEAM LEADER																								
LEAD ARCHITECT																								
LEAD CIVIL/STRUCTURAL ENGINEER																								
LEAD ELECTRICAL ENGINEER																								
LEAD MECHANICAL ENGINEER																								
LEAD ICT SPECIALIST ELECTRICAL ENG																								
LEAD GEODETIC ENGINEER																								
LEAD GEOTECHNICAL ENG.																								
LEAD HROGEOLOGIST																								
LEAD QUANTITY SURVEYOR																								
LEAD CLERK OF WORKS																								
TOTAL																								

Figure 3: Time Schedule for Personnel

Authorised RepresentativeName: Andrew K. KuundaariPosition/Title: Director A&QS Consortium LtdAddress: P.O. Box 531, Wa UWR

Signature:

9.3 Completion and Submission of Reports Schedule

Report	Proposed Submission Date
1. Inception Report	4-weeks after commencement of the assignment
2. Monthly Progress Report	8 weeks after commencement of assignment and monthly thereafter
3. Draft Completion Report	4-weeks after practical completion of works and issuance of practical completion certificate
4. Completion Report	Within 2 weeks after receipt of comments on the drafty completion report
5. Defects Status Report (Maintenance Management Report)	Quarterly (i.e. Every 3 months from date of completion) till expiration of defects liability period
6. Draft Final Report	Within 4 weeks after expiration of defects liability period and issuance of defects liability certificate
7. Final Project Completion and Close Out Report	Within 2 weeks after receipt of comments on the draft final report

9.4 Team Composition and Key Project Personnel

The breakdown of the Key Project Personnel proposed for the assignment is as follows:

ITEM	NAME	POSITION	NO.	TOTAL ALLOCATED MAN-MONTHS
A	Review of Detailed Designs and Relevant Documentation			
1	John S. MARFO	Team Leader (Architect)	1	1
2	Thomas N. MARFO	Lead Architect	1	1
3	George OSEI-WUSU MENSAH	Lead Structural/Civil Engineer	1	1
4	Joseph APPIAH	Lead Mechanical Engineer	1	1
5	Samuel Baba ABIKO	Lead Electrical Engineer	1	1
6	Andrew Kofi KUUNDAARI	Lead Quantity Surveyor/Contract Administrator	1	1
7	Ayer Joseph TAWIAH	Lead Hydrogeological Engineer	1	1
8	John C. ACQUAAH	Lead Geodetic Engineer	1	1
9	John F. PINKRAH	Lead Geotechnical/Materials Engineer	1	1
			Subtotal-A	9
B	Construction Supervision + Defects Liability Period			
1	John S. MARFO	Team Leader (Architect)	1	19
2	Thomas N. MARFO	Lead Architect	1	19
2a	Geaoge Akwaah	Architect	1	15
2b	Benjamin Darko	Architect	1	15
2c	Joshua Konkuri	Assist. Architect	1	15
2d	Sherifdeen Issahaque	Assist Architect	1	15
3	George OSEI-WUSU MENSAH	Lead Structural/Civil Engineer	1	18
3a	Dabi Kwesi Wolase	Structural/Civil Engineer	1	9
4	Joseph APPIAH	Lead Mechanical Engineer	1	18
4a	Festus Quansar	Mechanical Engineer	1	9

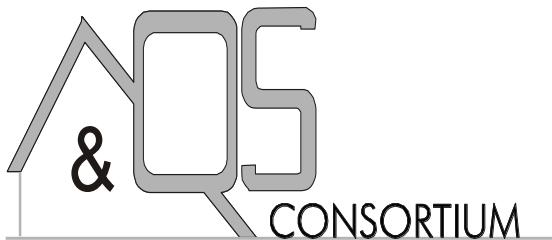
5	Samuel Baba ABIKO	Lead Electrical Engineer	1	18
5a	Fusieni Issahaque	Electrical Engineer	1	9
6	Andrew Kofi KUUNDAARI	Lead Quantity Surveyor/Contract Administrator	1	19
6a	Diyaudeen M. Khalid	Quantity Surveyor	1	9
6b	Suleman Abdul - Razak	Quantity Surveyor	1	9
6c	Yakubu Abdul -Razak	Assist Quantity Surveyor	1	9
6d	Shaqib Ibn Umar	Assist Quantity Surveyor	1	9
7	Ayer Joseph TAWIAH	Lead Hydrogeological Engineer	1	18
8	John C. ACQUAAH	Lead Geodetic Engineer	1	18
9	John F. PINKRAH	Lead Geotechnical/Materials Engineer	1	18
10	John Bosco ZAGLEH	Lead Clerk of Works	1	18
10a	Gilbert Kwaku Duodu	Clerk of Works	1	18
10b	Yitiereh N. Peter Paul	Clerk of Works	1	18
10c	Richard Danso	Clerk of Works	1	18
10d	Peter Mahama	Clerk of Works	1	18
10e	Fatawu Osman	Clerk of Works	1	18
10f	Abdul Ganiyu Iddrisu	Clerk of Works	1	18
10g	Adams Nurideen	Clerk of Works	1	18
10h	Richard Mensah	Clerk of Works	1	18
10i	Diyau Mahmud	Clerk of Works	1	18
			Subtotal-B	468
	TOTAL MAN-MONTHS (subtotal A+ Subtotal B)			477

9.5 Professional Associations and License Numbers of Proposed Staff

No.	Name of Staff	Proposed Position	General Years of Experience	Professional Years of Experience	Professional Association	License Certificate No.	Address	
1	John S. Marfo	Architect (Team Leader)	30 Yrs	18 Yrs	Ghana Institute of Architects (GIA)	ARC.S.0185	GIA P.O. Box Accra	
2	Thomas N. Marfo	Lead Architect	10 Yrs	6 Yrs	Ghana Institute of Architects (GIA)	ARC.S.0713	GIA P.O. Box Accra	
2a	Geaoge Akwaah	Architect	12 Yrs	4Yrs	Ghana Institute of Architects (GIA)	Probation Members		
2b	Benjamin Darko	Architect	8 Yrs	3 Yrs				
2c	Joshua Konkuri	Architect	3 Yrs	1 Yr				
2d	Sherifdeen Issahaque	Architect	3 Yrs	1 Yr				
3	Andrew Kofi Kuundaari	Lead Quantity Surveyor/Contract Administrator	20 Yrs	15 Yrs	Ghana Institution of Surveyors (GhIS)	584	GhIS P.O. Box GP 916, Accra Tel: 0302220191	
3a	Diyaudeen M. Khalid	Quantity Surveyor	12 Yrs	5 Yrs	Ghana Institution of Surveyors (GhIS)	1211	GhIS P.O. Box GP 916, Accra Tel: 0302220191	
3b	Suleman Abdul - Razak	Quantity Surveyor	8 Yrs	3 Yrs		1299		
3c	Yakubu Abdul - Razak	Quantity Surveyor	3 Yrs	1 Yr		Trainee Members		
3d	Shaqib Ibn Umar	Quantity Surveyor	4 Yrs	1 Yr				
4	George Osei-Wusu Mensah	Lead Civil/Structural Engineer	10 Yrs	5 Yrs	Ghana Institution of Engineers (GhIE)	06179	GhIE 3 Continental Road, Roman Ridge P. O. Box. AN 7042, Accra North Tel:0302760867/9	
5	Joseph Appiah	Lead Mechanical Engineer	21 Yrs	10 Yrs	Ghana Institution of Engineers (GhIE)	03034		

6	Samuel Baba Abiko	Lead Electrical Engineer	17 Yrs	15 Yrs	Ghana Institution of Engineers (GhIE)	07761	UK Engineering Council 246 High Holborn London WC1V 7EX T: +44 (0)20 3206 0500: F: +44 (0)20 3206 0501
					UK Engineering Council/ Institution of Engineering and Technology (MIET)/	017924	
7	Ayer Joseph Tawiah	Lead Hydrogeological Engineer	17 Yrs	11 Yrs	Ghana Institution of Engineers (GhIE)	05689	GhIE 3 Continental Road, Roman Ridge P. O. Box. AN 7042, Accra North Tel:0302760867/9
8	John C. Acquaah	Lead Geodetic Engineer	30 Yrs	25 Yrs	Ghana Institution of Surveyors (GhIS)	0478	
9	John F. Pinkrah	Lead Geotechnical/Materials Engineer	35 Yrs	28 Yrs	Ghana Institution of Engineers (GhIE)	14781	
10	John Bosco Zagleh	Clerk of Works – Upper West Region-Nadowli Kaleo; Naro	25 Yrs	25 Yrs	None	None	
10a	Gilbert Kwaku Duodu	Clerk of Works – BA Donkro-Nkwanta	12 Yrs	8 Yrs	None	None	None
10b	Yitiereh N. Peter Paul	Clerk of Works – BA Nkwantoso	10 Yrs	6 Yrs	None	None	None
10c	Richard Danso	Clerk of Works – BA Gyarko - Techiman	8 Yrs	6 Yrs	None	None	None
10d	Peter Mahama	Clerk of Works – BA – Duadaso No. II	7 Yrs	7 Yrs	None	None	None
10e	Fatawu Osman	Clerk of Works – BA Adamsu	19 Yrs	7 Yrs	None	None	None
10f	Abdul Ganiyu Iddrisu	Clerk of Works BA - Buoko	12 Yrs	8 Yrs	None	None	None
10g	Adams Nurideen	Clerk of Works – UWR Konzokala	7 Yrs	7 Yrs	None	None	None

10h	Richard Mensah	Clerk of Works – UWR Wellembelle	15 Yrs	8 Yrs	None	None	None
10i	Diyau Mahmud	Clerk of Works – UWR Boo	14 Yrs	10 Yrs	Ghana Institution of Surveyors (GhIS)	Technician Member	GhIS P.O. Box GP 916, Accra Tel: 0302220191



Our Ref. AQS.35
Your Ref.

P.O. Box 531 • Wa, Upper West Region • Ghana • Tel. 0244-222751, 03920-20484 Date: 15th April, 2015

The Chief Director
Ministry of Education, Headquarters
K Block Ground Floor
P. O. Box M45,
Ministries - Accra, Ghana

Dear Ladies / Gentlemen,

Availability of Proposed Staff

CONSULTANCY SERVICES FOR CONSTRUCTION SUPERVISION OF 50 SENIOR HIGH SCHOOL STRUCTURES AND ANCILLARY WORKS IN TEN (10) DISTRICTS IN THE BRONG AHAFO AND UPPER WEST REGIONS OF GHANA (LOT PII/SC03)

Please find below the professional associations and license numbers of key technical and managerial staff proposed for the above assignment and for purposes of seeking clarification from their registered professional associations.

The following details are provided for ease of verification of the qualification and experience of the proposed staff for the assignment.

No.	Name of Staff	Proposed Position	Professional Association	License Certificate No.	Address
1	John S. Marfo	Team Leader (Architect)	Ghana Institute of Architects (GIA)	ARC.S.0185	GIA P.O. Box Accra
2	Thomas N. Marfo	Lead Architect	Ghana Institute of Architects (GIA)	ARC.S.0713	GIA P.O. Box Accra
3	Andrew Kofi Kuundaari	Lead Quantity Surveyor/Contract Administrator	Ghana Institution of Surveyors (GhIS)	584	GhIS P.O. Box GP 916, Accra Tel: 0302220191
4	George Osei-Wusu Mensah	Lead Structural/Civil Engineer	Ghana Institution of Engineers (GhIE)	06179	GhIE 13 Continental Road, Roman Ridge P. O. Box. AN 7042, Accra North Tel:0302760867/9
5	Joseph Appiah	Lead Mechanical Engineer	Ghana Institution of Engineers (GhIE)	03034	GhIE 13 Continental Road, Roman Ridge P. O. Box. AN 7042, Accra North Tel:0302760867/9
6	Samuel Baba Abiko	Lead Electrical Engineer	Ghana Institution of Engineers (GhIE)/ UK Engineering Council/ Institution of Engineering	07761	GhIE 13 Continental Road, Roman Ridge P. O. Box. AN 7042, Accra North Tel:0302760867/9

			and Technology (MIET)	017924	Ridge P. O. Box. AN 7042, Accra North Tel:0302760867/9
7	Ayer Joseph Tawiah	Lead Hydrogeological Engineer	Ghana Institution of Engineers (GhIE)	05689	GhIE 13 Continental Road, Roman Ridge P. O. Box. AN 7042, Accra North Tel:0302760867/9
8	John C. Acquaah	Lead Geodetic Engineer	Ghana Institution of Surveyors (GhIS) /Ghana Institution of Engineers (GhIE)	0478	
9	John F. Pinkrah	Lead Geotechnical/Materials Engineer	Ghana Institution of Engineers (GhIE)	14781	
10	John Bosco Zagleh	Lead Clerk of Works	None	None	None
11	Gilbert Kwaku Duodu	Clerk of Works	None	None	None
12	Yitiereh N. Peter Paul	Clerk of Works	None	None	None
13	Richard Danso	Clerk of Works	None	None	None
14	Peter Mahama	Clerk of Works	None	None	None
15	Fatawu Osman	Clerk of	None	None	None
16	Abdul Ganiyu Iddrisu	Clerk of Works	None	None	None
17	Adams Nurideen	Clerk of Works	None	None	None
18	Richard Mensah	Clerk of Works	None	None	None
19	Diyau Mahmud	Clerk of Works	Ghana Institution of Surveyors (GhIS)	Technician Class	GhIS P.O. Box GP 916, Accra Tel: 0302220191

The availability of these personnel for the job should our offer be considered is guaranteed and their respective letters of availability shall be made available when requested.

We remain,

Yours faithfully,

Mr. A. K. Kuundaari
FGhIS, MRICS, MCIQB, MBeng
Director - A&QS Consortium Ltd

Email: aqscon@yahoo.com
Tel: 0244222751/0208390304

10 REPORTING SCHEDULE AND TASK ASSIGNMENT

10.1 Project Management/Design/Supervision & Supporting Staff Schedules

1a. Technical/Managerial Staff-Duties in <u>Project Management</u>		
Name	Position	Task
JOHN S. MARFO	Team Leader (Architect)	Will be responsible for the overall management of the assignment. He will liaise between the consultant's project team and the MOE-FPMU . He will be responsible for ensuring that, the output of the consultant is in accordance with best practices and in conformity with the TOR. He shall also be the convener of progress meetings and chair same. He will submit progress reports and all other reports as specified in the reporting requirements
THOMAS N. MARFO	Lead Architect	The architect shall be responsible for carrying out all design review of architectural designs, provide clarification to contractors in the course of construction and ensure that the contractors build the building structures and facilities in accordance with the reviewed design works through effective supervision. Shall provide all data and information for all architectural works and participate in all project management team meetings.
GEORGE OSEI-WUSU MENSAH	Lead Civil/Structural Engineer	Shall provide all data and information for all civil works and participate in all project management team meetings. Shall be responsible for all structural engineering works. He shall ensure structural stability and general propriety of construction of all structures.
JOSEPH APPIAH	Lead Mechanical Engineer	Shall be responsible for the review of all mechanical engineering installations and supervision for all plumbing and pump installation works for water supply. Booster pumps for distribution of water including the mechanization of boreholes where applicable. Shall provide all data and information for all mechanical services and participate in all project management team meetings.

SAMUEL BABA ABIKO	Lead Electrical/Electro nic/ICT Engineer	<p>He shall be responsible for the design review of all electrical engineering designs and installations supervision during construction. He shall ensure that, all electrical requirements for the installation of all equipment are in accordance with the manufacturer's specifications and recommendations. He shall also outline the maintenance requirements of all electrical systems to ensure consistency and reliability when in operation</p> <p>Shall provide all data and information for all electrical services and participate in all project management team meetings.</p>
ANDREW KOFI KUUNDAARI	Lead Quantity Surveyor/ Contract Administrator	<p>The QS shall be responsible for review of all Bills of Quantities (BoQs) for the works and project cost control, preparation of interim payment certificates and final accounts for the projects.</p> <p>Shall provide all cost data and information and participate in all project management team meetings.</p>
AYER JOSEPH TAWIAH	Lead Hydrogeological Engineer	He shall carry out detailed field survey within respective SHS sites in order to determine exact points for test drilling of boreholes that will meet the demand of the projected population of the school within the designed life span of the facility.
JOHN C. ACQUAAH	Lead Geodetic Engineer	He shall carry out validation of all available site plans and topographical layouts and all setting out for all structures carried out by the contractors on site
JOHN F. PINKRAH	Lead Geotechnical/Ma terials Engineer	He would be responsible for the planning and, managing the Geotechnical Engineering services for all aspect of the project and would involve in the fieldwork and coordinate laboratory testing of soil / rock material. He would prepare technical reports.
JOHN BOSCO ZAGLEH	Lead Clerk of Works (COW)	Shall be responsible for the daily supervision of All Resident Clerk of Works on Each Site

<u>1b. Technical/Managerial Staff-Duties in Review of detailed Design and Documentation</u>		
Name	Position	Task
JOHN MARFO	Team Leader	Shall be responsible for the coordination and review of all aspects of the works across the 28 selected beneficiary schools
THOMAS MARFO	Lead Architect	Will carry out review of existing designs, provide the necessary drawings and technical specifications.
GEORGE OSEI-WUSU MENSAH	Lead Civil/Structural Engineer	Shall review all design works for all civil works and structural details and subsequently provide the requisite input in the preparation of the final review report document
JOSEPH APPIAH	Lead Mechanical Engineer	Will carry out the review of all mechanical services designs and provide the requisite input in the preparation of the final review report document
SAMUEL BABA ABIKO	Lead Electrical/Electronic/ICT Engineer	Will carry out the review of all electrical services designs and provide the requisite input in the preparation of the final review report document
ANDREW KOFI KUUNDAARI	Lead Quantity Surveyor	Shall be responsible for review of BOQS and the preparation of cost plans for the various projects
AYER JOSEPH TAWIAH	Lead Hydrogeological Engineer	He shall review and carry out detailed field survey within respective SHS sites in order to determine exact points for test drilling of boreholes that will meet the demand of the projected population of the school within the designed life span of the facility.
JOHN C. ACQUAAH	Lead Geodetic Engineer	He shall review and carry out validation of all available site plans and topographical layouts and all setting out for all structures carried out by the contractors on site
JOHN F. PINKRAH	Lead Geotechnical/Materials Engineer	He shall review and be responsible for the planning and, managing the Geotechnical Engineering services for all aspect of the project and would involve in the fieldwork and coordinate laboratory testing of soil / rock material. He would prepare technical reports.

1c. Technical/Managerial Staff-Duties in Construction Supervision		
Name	Position	Task
JOHN S. MARFO	Team Leader	Will be responsible for the overall management of the assignment
THOMAS N. MARFO	Lead Architect	Will provide clarifications to the contractors in the course of construction and ensure that the contractors build the facilities in accordance with the design works through effective supervision during works the construction phase.
GEORGE OSEI-WUSU MENSAH	Lead Civil/Structural Engineer	Shall provide the requisite supervision of their construction to ensure structural stability and propriety of development of the facilities in accordance with all technical specifications as provided in the works contract agreement.
JOSEPH APPIAH	Lead Mechanical Engineer	Will carry out all construction supervision of all mechanical services within the structure that will be constructed
SAMUEL BABA ABIKO	Lead Electrical Engineer	Will carry out all construction supervision of all mechanical services within the structure that will be constructed
ANDREW KOFI KUUNDAARI	Lead Quantity Surveyor	Shall be responsible for the project cost control, preparation of interim payment certificates and final accounts.
AYER JOSEPH TAWIAH	Lead Hydrogeological Engineer	He shall carry out detailed field survey within respective SHS sites in order to determine exact points for test drilling of boreholes that will meet the demand of the projected population of the school within the designed life span of the facility.
JOHN C. ACQUAAH	Lead Geodetic Engineer	He shall carry out validation of all available site plans and topographical layouts and all setting out for all structures carried out by the contractors on site
JOHN F. PINKRAH	Lead Geotechnical/Materials Engineer	He shall be responsible for the planning and, managing the Geotechnical Engineering services for all aspect of the project and would involve in the fieldwork and coordinate laboratory testing of soil / rock material. He would prepare technical reports.

JOHN BOSCO ZAGLEH	Lead Clerk of Works	Shall be responsible for the daily supervision of All Resident Clerk of Works on Each Site
Gilbert Kwaku Duodu	Clerk of Works	Site Supervision of ; 1. Brong Ahafo Region – Donkro-Nkwanta
Yitiereh N. Peter Paul	Clerk of Works	Site Supervision of ; 1. Brong Ahafo Region - Nkwantoso
Richard Danso	Clerk of Works	Site Supervision of ; 1. Brong Ahafo Region – Gyarko-Techiman
Peter Mahama	Clerk of Works	Site Supervision of ; 1. Brong Ahafo Region - Duadaso No. II
Fatawu Osman	Clerk of Works	Site Supervision of ; 1. Brong Ahafo Region – Adamsu
Abdul Ganiyu Iddrisu	Clerk of Works	Site Supervision of ; 1. Brong Ahafo Region - Buoko
Adams Nurideen	Clerk of Works	Site Supervision of ; 1. Upper West Region; Lawra -Boo
Richard Mensah	Clerk of Works	Site Supervision of ; 1. Upper West Region; Jirapa - Konzakala
Diyau Mahmud	Clerk of Works	Site Supervision of ; 1. Upper West Region; Sissala East - Wellemelle
John Bosco Zagleh	Clerk of Works	Site Supervision of ; 1. Upper West Region; Nadowli Kaleo -Naro

2. Support Staff-Duties		
Name	Position	Task
Geaoge Akwaah	Architect	Will assist the Lead Architect to carry out site supervision and the interpretation of drawings to contractors with the aid of AutoCAD
Benjamin Darko	Architect	Will assist the Lead Architect to carry out site supervision and the interpretation of drawings to contractors with the aid of AutoCAD
Joshua Konkuri	Architect	Will assist the Lead Architect to carry out site supervision and the interpretation of drawings to contractors with the aid of AutoCAD
Sherifdeen Issahaque	Architect	Will assist the Lead Architect to carry out site supervision and the interpretation of drawings to contractors with the aid of AutoCAD
Diyaudeen M. Khalid	Quantity Surveyor	Will assist the project(s) QS on project cost control, preparation of interim payment certificates and final accounts.
Suleman Abdul - Razak	Quantity Surveyor	Will assist the project(s) QS on project cost control, preparation of interim payment certificates and final accounts.
Yakubu Abdul – Razak	Assist. Quantity Surveyor	Will assist the project(s) QS on project cost control, preparation of interim payment certificates and final accounts.
Shaqib Ibn Umar	Assist. Quantity Surveyor	Will assist the project(s) QS on project cost control, preparation of interim payment certificates and final accounts.
Lawrence YELKUMO	Administrative Secretary	Will carry out typing of reports, Minutes of Meetings and Office project management.

10.2 Curriculum Vitae of Key Staff

PROPOSED POSITION: TEAM LEADER (ARCHITECT)

Name of firm:	A&QS Consortium
Name of staff:	John Serbe Marfo
Profession:	Architect
Date of Birth:	28th July 1946
Years of Experience in Similar Position	25 Years
Year with firm/entity:	15 years
Nationality:	Ghanaian
Tel:	0244611630
Email:	

Membership of Professional Societies: - Member of Ghana Institute of Architects (GIA).

Detailed tasks Assigned: -

1. Will be responsible for the overall management of the assignment. He will liaise between the consultant's project team and the MOE- FPMU.
2. Will carry out review of existing designs, will help the lead Architect to provide clarifications to contractors in the course of construction and ensure that the contractors build the facilities in accordance with the design works through effective supervision during the construction phase.

Key Qualifications: -

John Serbe Marfo has over 30 years post qualification experience in the field of project coordination and management and construction supervision.

Position: -

Team Leader (Architect)

Key Projects Handled:-

- Design and Supervision of 18 No. Rural Technology Facility Industrial Workshops Building under the RURAL ENTERPRISES PROJECT, across the country (Phase 2 and 3)
- Design and Supervision of Water Research Institute Labs, Accra
- Design and Supervision of Plant Protection and Regulatory Services Directorate Accra
- Design and Supervision of Regional Office for DVLA, Greater Accra.
- Design and Supervision of Executive Guest Lodge and Residence for COCOBOD, Kumasi.

- Design & Construction of 3-storey block of 6 Flats, 4-storey block of 24 flats, 2 storey Office blocks and 3 Bedroom Bungalow at selected Border Posts throughout the country under the Border Patrol Programme of GIS. .
- Design and Supervision of Rehabilitation of Existing CT Unit into Modern MRI/CT/Duodiognostic Centre at Korle Teaching Hospital for Philips International/ F. Malawi Co. Ltd.
- Design and Supervision of 15 No. schools refurbished under the MILLENIUM DEVELOPMENT AUTHORITY, across the country. (Phase 1A)
- Design and Supervision of 18 No. schools refurbished under the MILLENIUM DEVELOPMENT AUTHORITY, across the country. (Phase 1B)
- Design of Ministry of Local Government and Rural Development, District Offices across the country.
- Design and Supervision of Rehabilitation of Arrival Hall & Offices for Ghana Immigration Service, Aflao Border Post- Volta Region, Ghana.
- Design and Supervision of Rehabilitation of Departure Hall & Offices for Ghana Immigration Service, Aflao Border Post- Volta Region, Ghana.
- Design and Supervision of Rehabilitation of Data Processing Centre & Offices for Ghana Immigration Service, Greater Accra Region, Ghana.
- Design and Supervision of Rehabilitation of Dormitory Block & Staff Apartments for Ghana Immigration Service at Assin Fosu, Central Region, Ghana.
- Design and Supervision of Rehabilitation of Departure & Arrival Halls & Offices for Ghana Immigration Service at Paga.
- Design and Supervision of 30 No. Schools under the MINISTRY OF EDUCATION QUICK FIX SCHOOLS PROJECT in Greater Accra And Volta Region.
- Design and supervision of 6-storey office complex for Amerighan Resources Ltd, Tema, Accra.
- Design and Supervision of Interior, UNIBANK ESTEEM BANKING, Head Office Accra.
- Design of Interior, BARCLAYS PREMIER BANKING, Liberation Circle, Accra.
- Design of new Research Department, Kofi Annan International Peacekeeping and Training Centre, Teshie, Accra.
- Supervision of the construction of 6-storey office complex for Amerighan Resources Ltd, Spintex Road, Accra.
- Supervision of 5-storey office complex for CADS Ltd, Tetteh Quarshie, Accra.
- Design and Supervision of Interior, TULLOW OIL GH. LTD, Labone, Accra
- Design and supervision of Interior, BARCLAYS OFFSHORE BANKING, Liberation Circle, Accra.
- Design and supervision of 4- story luxury facility for FIRST ANCHOR RISK MGT. LTD., East Legon, Accra.
- Design and supervision of 10- story luxury facility for FIRST ANCHOR RISK MGT. LTD., Ridge, Accra.
- Design and supervision of BARCLAYS BANK BRANCH,EAST LEGON
- Design and supervision of 12- story luxury facility for MACE CONSULT, Nigeria.
- Construction of 1No. 3-Storey 750 Bed Capacity Girls Dormitory Block at Ghana SHS – Tamale
- Construction of 1No. 2-Storey 12-Unit Classroom Block at Bole SHS

- Construction of 2No. Single Storey 250 Bed Capacity Dormitory Blocks at Chereponi SHS & Kalpohin SHS- Tamale
- Construction of 3No. Single Storey 250 Bed Capacity Dormitory Blocks at Ndewura Jakpa SHS, Yagaba STHS & E.P. SHS- Tamale
- Construction of Single Storey Administration Block at Yagaba STHS – Tamale
- Construction of 1no. Single Storey 250 Bed Capacity Girls Dormitory Block at Pong Tamale SHS
- Construction of 2no. Single Storey 6-Unit Classroom Block at Buipe SHS & 1no. Single Storey 6-Unit Classroom Block at Yagaba STHS,
- Construction of 2No. 2-Storey 12-Unit Classroom Block at Bongo SHS & OLL SHS (Navrongo)
- Construction of 1No. 2-Storey 500 Bed Capacity Girls Dormitory Block at OLL SHS (Navrongo)
- Construction of 1No. 3- Storey 18 - Unit Classroom Block at Bolgatanga Technical Institute
- Construction of 1No. Single Storey 250 Bed Capacity Dormitory Block at Zebilla SHTS
- Construction of 2- Storey Administration/Laboratory Block at OLL SHS (Navrongo)
- Construction of 1no. Single Storey Library Block at OLL SHS (Navrongo)
- Construction of 2no. Single Storey 6-Unit Classroom Block at Kogadin & Bolgatanga SHS
- Construction of 3No. Single Storey District Assembly Administration/Conference Hall Blocks at Gwollu, Finsi & Wechiau
- Construction of 1No. 2-Storey Administration Block Complex at Nadowli
- Construction of 2No. 2-Storey 12-Unit Classroom Block at T.I. Ahmadiyya SHS - Wa & Ko SHS
- Construction of 3No. 2-Storey Classroom Blocks at Kaleo SHTS, Jirapa SHS & Wa SHS
- Construction of 1No. 2-Storey (500 Bed Capacity) Dormitory Block at Jirapa SHS
- Construction of 1No. 2-Storey 12 Unit Classroom Block at Gwollu SHS

Education:

1971 – 1974, Kwame Nkrumah University of Science and Technology, Kumasi (Post Graduate Diploma in Architecture).

1966 – 1970, Kwame Nkrumah University of Science and Technology, Kumasi (BSc Architecture)

Experience Record:

2000 – to date, Architect of A&QS Consortium Ltd/ Sermans Consult.

1991-1997, Director of Architect, AESL - Accra

1980 – 1996, Regional Consultant – AESL Accra

Language:	SPEAKING	READING	WRITING
English	Excellent	Excellent	Excellent
Twi	Excellent	Excellent	Excellent

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications and my experience, and I am available to undertake the assignments in case of an ward. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the client, and/or sanctions by the Bank

Signature Date: Monday, March 02, 2015

Full name of staff member:

.....

Full name of authorised representative: Andrew K. Kuundaari

Signature/Dates

PROPOSED POSITION: LEAD ARCHITECT

Name of firm:	A&QS Consortium
Name of staff:	Thomas Ntiamoah Marfo
Profession:	Architect
Date of Birth:	3 rd July 1982
Years of Experience in Similar Position	10 Years
Year with firm/entity:	5 years
Nationality:	Ghanaian
Membership of Professional Societies: -	Member of Ghana Institute of Architects (GIA).
Tel:	0244-959353
Email:	marfothomas2000@yahoo.com

Detailed tasks Assigned: -

Will carry out review of existing detailed designs, provide clarifications to contractors in the course of construction and ensure that the contractors build the facilities in accordance with the design works through effective supervision during the construction phase.

Key Qualifications: -	Thomas Marfo has over 10 years post qualification experience in the field of project coordination and management and construction supervision.
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Position: -	Project(s) Architect
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Key Projects Handled:-

- Design and Supervision of 18 No. Rural Technology Facility Industrial Workshops Building under the RURAL ENTERPRISES PROJECT, across the country. (Phase 2 AND 3)
- Design And Supervision of Water Research Institute Labs, Accra
- Design And Supervision of Plant Protection And Regulatory Services Directorate Accra
- Design and Supervision of Regional Office for DVLA, Greater Accra.
- Design and Supervision of Executive Guest Lodge and Residence for COCOBOD, Kumasi.
- Design & Construction of 3-storey block of 6 Flats, 4-storey block of 24 flats,
- 2 storey Office blocks and 3 Bedroom Bungalow at selected Border Posts throughout the country under the Border Patrol Programme of GIS. .
- Design and Supervision of Rehabilitation of Existing CT Unit into Modern MRI/CT/Duodiognostic Centre at Korle Teaching Hospital for Philips International/ F. Malawi Co. Ltd.
- Design and Supervision of 15 No. schools refurbished under the MILLENIUM DEVELOPMENT AUTHORITY, across the country. (Phase 1A)

- Design and Supervision of 18 No. schools refurbished under the MILLENIUM DEVELOPMENT AUTHORITY, across the country. (Phase 1B)
- Design of Ministry of Local Government and Rural Development, District Offices across the country.
- Design and Supervision of Rehabilitation of Arrival Hall & Offices for Ghana Immigration Service, Aflao Border Post- Volta Region, Ghana.
- Design and Supervision of Rehabilitation of Departure Hall & Offices for Ghana Immigration Service, Aflao Border Post- Volta Region, Ghana.
- Design and Supervision of Rehabilitation of Data Processing Centre & Offices for Ghana Immigration Service, Greater Accra Region, Ghana.
- Design and Supervision of Rehabilitation of Dormitory Block & Staff Apartments for Ghana Immigration Service at Assin Fosu, Central Region, Ghana.
- Design and Supervision of Rehabilitation of Departure & Arrival Halls & Offices for Ghana Immigration Service at Paga.
- Design and Supervision of 30 No. Schools under the MINISTRY OF EDUCATION QUICK FIX SCHOOLS PROJECT in Greater Accra And Volta Region.
- Design and supervision of 6-storey office complex for Amerighan Resources Ltd, Tema, Accra.
- Design and Supervision of Interior, UNIBANK ESTEEM BANKING, Head Office Accra.
- Design of Interior, BARCLAYS PREMIER BANKING, Liberation Circle, Accra.
- Design of new Research Department, Kofi Annan International Peacekeeping and Training Centre, Teshie, Accra.
- Supervision of the construction of 6-storey office complex for Amerighan Resources Ltd, Spintex Road, Accra.
- Supervision of 5-storey office complex for CADS Ltd, Tetteh Quarshie, Accra.
- Design and Supervision of Interior, TULLOW OIL GH. LTD, Labone, Accra
- Design and supervision of Interior, BARCLAYS OFFSHORE BANKING, Liberation Circle, Accra.
- Design and supervision of 4- story luxury facility for FIRST ANCHOR RISK MGT. LTD., East Legon, Accra.
- Design and supervision of 10- story luxury facility for FIRST ANCHOR RISK MGT. LTD., Ridge, Accra.
- Design and supervision of BARCLAYS BANK BRANCH,EAST LEGON
- Design and supervision of 12- story luxury facility for MACE CONSULT, Nigeria.
- Construction of 1No. 3-Storey 750 Bed Capacity Girls Dormitory Block at Ghana SHS – Tamale
- Construction of 1No. 2-Storey 12-Unit Classroom Block at Bole SHS
- Construction of 2No. Single Storey 250 Bed Capacity Dormitory Blocks at Chereponi SHS & Kalpohin SHS- Tamale
- Construction of 3No. Single Storey 250 Bed Capacity Dormitory Blocks at Ndewura Jakpa SHS, Yagaba STHS & E.P. SHS- Tamale
- Construction of Single Storey Administration Block at Yagaba STHS – Tamale
- Construction of 1no. Single Storey 250 Bed Capacity Girls Dormitory Block at Pong Tamale SHS

- Construction of 2no. Single Storey 6-Unit Classroom Block at Buipe SHS & 1no. Single Storey 6-Unit Classroom Block at Yagaba STHS,
- Construction of 2No. 2-Storey 12-Unit Classroom Block at Bongo SHS & OLL SHS (Navrongo)
- Construction of 1No. 2-Storey 500 Bed Capacity Girls Dormitory Block at OLL SHS (Navrongo)
- Construction of 1No. 3- Storey 18 - Unit Classroom Block at Bolgatanga Technical Institute
- Construction of 1No. Single Storey 250 Bed Capacity Dormitory Block at Zebilla SHTS
- Construction of 2- Storey Administration/Laboratory Block at OLL SHS (Navrongo)
- Construction of 1no. Single Storey Library Block at OLL SHS (Navrongo)
- Construction of 2no. Single Storey 6-Unit Classroom Block at Kogadin & Bolgatanga SHS
- Construction of 3No. Single Storey District Assembly Administration/Conference Hall Blocks at Gwollu, Fensi & Wechiau
- Construction of 1No. 2-Storey Administration Block Complex at Nadowli
- Construction of 2No. 2-Storey 12-Unit Classroom Block at T.I. Ahmadiyya SHS - Wa & Ko SHS
- Construction of 3No. 2-Storey Classroom Blocks at Kaleo SHTS, Jirapa SHS & Wa SHS
- Construction of 1No. 2-Storey (500 Bed Capacity) Dormitory Block at Jirapa SHS
- Construction of 1No. 2-Storey 12 Unit Classroom Block at Gwollu SHS

Education:

2005 – 2007, Kwame Nkrumah University of Science and Technology, Kumasi (M. Arch – Master of Architecture)

2001 – 2005, Kwame Nkrumah University of Science and Technology, Kumasi (BSc Architecture)

Experience Record:

2010 – to date, Architect of A&QS Consortium Ltd/ Sermans Consult.

2008-2010, Architect, Arch-Portfolio Consult

2007 – 2008, Architect, Dept. of Architecture - KNUST

Language:	SPEAKING	READING	WRITING
English	Excellent	Excellent	Excellent
Fanti	Excellent	Good	Good
Twi	Excellent	Fair	Fair

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications and my experience, and I am available to undertake the assignments in case of an ward. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the client, and/or sanctions by the Bank

Signature Date: Friday, January 24, 2025

Full name of staff member:

.....

Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

PROPOSED POSITION: LEAD QUANTITY SURVEYOR/CONTRACTS MANAGER

Name of firm:	A&QS Consortium
Name of staff:	A.K. Kuundaari
Profession:	Quantity Surveyor
Date of Birth:	27 th September 1957
Nationality:	Ghanaian
Years of Experience in Similar Position	22 Years
Year with firm/entity:	14 years
Tel:	0244222751/0208390304
Email:	aqson@yahoo.com

Membership of Professional Societies: - Fellow of Ghana Institution of Surveyors (FGhIS)
 Member of Association Building Engineers (UK),
 Member of Chartered Institute of Building (CIOB) and
 Member of Royal Institution of Chartered Surveyors (RICS).

Detailed tasks Assigned: -

He will be responsible for the review of bills of quantities and tender documents, bid evaluation, preparation of project cost control, preparation of interim payment certificates and final accounts.

Key Qualifications: - A. K. Kuundaari has over 20 years post qualification experience in the field of project coordination and management, quantity surveying and construction supervision.

Position:- **Quantity Surveyor and Contracts Manager**

Key Projects Handled:-

- Construction of 1No. 3-Storey 750 Bed Capacity Girls Dormitory Block at Ghana SHS – Tamale
- Construction of 1No. 2-Storey 12-Unit Classroom Block at Bole SHS
- Construction of 2No. Single Storey 250 Bed Capacity Dormitory Blocks at Chereponi SHS & Kalpohin SHS- Tamale
- Construction of 3No. Single Storey 250 Bed Capacity Dormitory Blocks at Ndewura Jakpa SHS, Yagaba STHS & E.P. SHS- Tamale
- Construction of Single Storey Administration Block at Yagaba STHS – Tamale
- Construction of 1no. Single Storey 250 Bed Capacity Girls Dormitory Block at Pong Tamale SHS

- Construction of 2no. Single Storey 6-Unit Classroom Block at Buipe SHS & 1no. Single Storey 6-Unit Classroom Block at Yagaba STHS,
- Construction of 2No. 2-Storey 12-Unit Classroom Block at Bongo SHS & OLL SHS (Navrongo)
- Construction of 1No. 2-Storey 500 Bed Capacity Girls Dormitory Block at OLL SHS (Navrongo)
- Construction of 1No. 3- Storey 18 - Unit Classroom Block at Bolgatanga Technical Institute
- Construction of 1No. Single Storey 250 Bed Capacity Dormitory Block at Zebilla SHTS
- Construction of 2- Storey Administration/Laboratory Block at OLL SHS (Navrongo)
- Construction of 1no. Single Storey Library Block at OLL SHS (Navrongo)
- Construction of 2no. Single Storey 6-Unit Classroom Block at Kogadin & Bolgatanga SHS
- Construction of 3No. Single Storey District Assembly Administration/Conference Hall Blocks at Gwollu, Fensi & Wechiau
- Construction of 1No. 2-Storey Administration Block Complex at Nadowli
- Construction of 2No. 2-Storey 12-Unit Classroom Block at T.I. Ahmadiyya SHS - Wa & Ko SHS
- Construction of 3No. 2-Storey Classroom Blocks at Kaleo SHTS, Jirapa SHS & Wa SHS
- Construction of 1No. 2-Storey (500 Bed Capacity) Dormitory Block at Jirapa SHS
- Construction of 1No. 2-Storey 12 Unit Classroom Block at Gwollu SHS
- Construction of 3No. 2-Storey Administration Block/ Library Block at Gwollu SHS, T.I. Ahmadiyya SHS & Wa Islamic SHS
- Construction of 3No. Assembly Hall/Dining Hall/Kitchen Block at T.I. Ahmadiyya SHS, Lassia Tuolu SHS & Ko SHS
- Construction of Single Storey Classroom (Ground Type) Block at Han SHTS

Education:

1994 – 1996, University of Westminster, London (BSc Hons- Quantity Surveying).

1992 – 1993, University of Dortmund, Germany (P/G Diploma Planning and Management).

1979 – 1984, University of Science and Technology, Kumasi (BSc Hons- Building Tech)

Experience Record:

2001 – to date, Director and Quantity Surveyor of A&QS Consortium.

1988 – 2001, Assistant Manager and Quantity Surveyor of PCSC now PEPSC.

1986 – 1987, Assistant Lecturer with Department of Building Technology UST, Kumasi.

1984 – 1986, National Service with Department of Building Technology UST, Kumasi.

Language:	SPEAKING	READING	WRITING
English	Excellent	Excellent	Excellent
Dagaari	Excellent	Good	Good

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications and my experience, and I am available to undertake the assignments in case of an ward. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the client, and/or sanctions by the Bank

Signature

Date: Friday, January 24, 2025

Full name of staff member:

.....

Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

PROPOSED POSITION: LEAD STRUCTURAL/CIVIL ENGINEER

Name of firm: A&QS Consortium
Name of staff: George Osei-Wusu Mensah
Profession: Civil /Structural Engineer
Date of Birth: 26th June 1979
Years of Experience in Similar Position **10 Years**
Year with firm/entity: 6 years
Nationality: Ghanaian
Tel: 0249147251/0200799388
Email: gowmens@yahoo.com

Membership of Professional Societies: - Member of Ghana Institution of Engineers (MGhIE)

Detailed tasks Assigned: -

Will carry out the design review of all civil works and structural details and subsequently provide the requisite supervision of their construction to ensure structural stability and propriety of development of the facilities in accordance with technical specifications as provided in the works contract agreement.

Key Qualifications: -

George Osei-Wusu Mensah has over 10 years post-qualification experience in structural design and construction supervision of varied types and scope of civil works. His experience in coordinating and managing workers on a large scale project is remarkable.

Position:- **Civil (Structural) Engineer**

Key Projects Handled:-

- Project Engineer for the supervision of US\$ 12 million office complex at Tamale, for SSNIT (2012 – date)
- Project Engineer for the Civil works supervision of selected Ghana-Acrow and Ghana-Spanish Bridges in the Upper West Region of Ghana. (2011 – date)
- Member of the Project Management Support Consultant Monitoring Team for the construction of Millennium Development Authority (MiDA) Community Services Projects (Educational Infrastructure and other facilities, Water Supply Systems and Boreholes, Electrification) in the Northern, Afram and Southern zones. (2009 -2012)
- Member of the design team of the proposed Multi-Storey Car Park at the Airport City, Accra for Ghana Post Office Ltd. (2010)

- Structural Engineer for the design and supervision of the construction / rehabilitation of US\$ 1,987,610.00 Demonstration Centres at Amrahia, Kade, Vakpo and Okyereko for MOFA. (2010)
- Member of the supervision team of a US\$ 16.8 million Multi-storey Car Park at Pension House, Accra for SSNIT (2010 – 2011)
- Member of the design and supervision team of 16 number 4 Storey Block of Apartments at the Balloon Gate Project Site for Regimmanuel Gray Estates Ltd at Kwabenya-Accra. (2009 – 2011)
- Structural Engineer for the design and supervision of the Ultramodern Hospital Complex for Foundation for Orthopaedic and Complex Spine (FOCOS) at Pantan, Accra – Ghana. (2007)
- Designed a 61.8m span Reinforced Concrete Foot Bridge for Akim Akroso Community – Ghana. (2007)
- Designed a 100 KM approach roads for the ACROW Bridge Projects in the Central, Ashanti, Eastern and Volta Regions of Ghana. (2008)
- Structural Engineer for the redesigned a four storey Head office Building at Spintex Road, Accra – Ghana for Azar Chemical Industries. (2008)
- Redesigned a warehouse and a shed at Tema for Unilever – Ghana. (2007)
- Designed and supervision of a four storey Office complex for Letap Pharmaceuticals at South Industrial Area, Accra – Ghana. (2008)
- Member of the design team of a two storey Development office building at Tema for Amalgamated Bank Ghana Limited. (2009)
- Member of the design and supervision teams of a four storey Office Complex for The Controller and Accountant Generals Department. Accra – Ghana. (2008)
- Designed a two storey Hotel Extension at Airport, Accra – Ghana for Esther's Hotel. (2008)
- Structural Engineer for the design of a three storey Villa Monte Cello Hotel at Airport, Accra – Ghana. (2007)
- Designed a proposed Tetteh Quarshie Reception Centre Complex for Cocoa Board at Mampong – Akuapim, Ghana. (2007)
- Designed of a proposed four storey Church Complex at Dzorwulu – Accra for Bethany Methodist Church. (2008)
- Designed of a proposed three storey Church Complex at Osu – Accra for Osu Methodist Church. (2008)
- Designed a proposed three storey church complex for Holy Trinity Presbyterian Church, Accra. (2007)

Education:

2005 - 2006, Epson Training Centre, UK (Cert. Environmental Management)

2001 –2005, Kwame Nkrumah University of Science and Technology, Kumasi (B.Sc. Civil Engineering).

Experience Record:

July 2009 – To date, Structural Engineer, A&QS Consortium/Lamda Consult

March 2007 – June 2009, Structural Engineer, Oriental Engineering Consult

February 2006 – December 2007, Structural Engineer, Architectural & Engineering Services Ltd.

January 2005 – December 2006, Engineer, Epson Cooperation

Language:	SPEAKING	READING	WRITING
English	Excellent	Excellent	Excellent
Ga	Excellent	Excellent	Excellent
Twi	Very Good	Very Good	Very Good
Fante	Good	Good	Good

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications and my experience, and I am available to undertake the assignments in case of an ward. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the client, and/or sanctions by the Bank

Signature

Date: Friday, January 24, 2025

Full name of staff member:

.....

Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

PROPOSED POSITION: LEAD ELECTRICAL/ELECTRONIC/ICT ENGINEER

Name of firm:	A&QS Consortium
Name of staff:	Samuel Baba Abiko
Profession:	Electrical/Electronic/ICT Engineer
Date of Birth:	21 st April 1963
Years of Experience in Similar Position	15 Years
Year with firm/entity:	Two (2) years
Nationality:	Ghanaian
Tel:	0244043615 / 0202804727
Email:	sam.abiko@yahoo.com

Membership of Professional Societies: -

Chartered Engineer (CEng) of UK Engineering Council

Member of the Institution of Engineering and Technology (MIET)

Member of Chartered Institution of Building Services Engineers (MCIBSE)

Member of Ghana Institution of Engineers (MGhIE)

Detailed tasks Assigned: -

Will carry out review of all designs and supervision of all Electrical/Electronic/ICT services within the facilities that will be constructed

Key Qualifications: -

Samuel Baba Abiko has over 15 years post qualification experience in the electrical designs and supervision of varied types and scope of structures. His experience in such jobs is immerse and remarkable.

Position:-

Electrical/Electronics/ICT Engineer

Key Projects Handled:-

Foreign Projects:

- Construction of Phase 3 of the Heart of Doha – Doha comprising apartments, shops, restaurants, offices, 2 health clubs and a 180 Bedroom hotel
- Construction of Central Market - Abu Dhabi comprising a retail souk, a shopping mall and 6 levels 5000 cars capacity car parking connecting the shopping mall with an atrium; three High Rise including a 89 floor residential Tower , 60 floors office tower, 58 floor 5star hotel and 16floors
- Construction of Sheikh Zayed National Museum - Abu Dhabi

- Construction oPune International Cricket Centre – India comprising 55,000-seat cricket stadium in Pune with squash courts, swimming pools, a spa, restaurants and bars, ‘state-of-the-art’ indoor cricket academy, with residential accommodation for youth training schemes

Ghanaian Projects

- Construction of 1No. 3-Storey 750 Bed Capacity Girls Dormitory Block at Ghana SHS – Tamale
- Construction of One Airport Square multi complex project Accra,
- Construction of 1No. 2-Storey 12-Unit Classroom Block at Bole SHS
- Construction of 2No. Single Storey 250 Bed Capacity Dormitory Blocks at Chereponi SHS & Kalpohin SHS- Tamale
- Construction of 3No. Single Storey 250 Bed Capacity Dormitory Blocks at Ndewura Jakpa SHS, Yagaba STHS & E.P. SHS- Tamale
- Construction of Single Storey Administration Block at Yagaba STHS – Tamale
- Construction of 3No. 2-Storey Administration Block/ Library Block at Gwollu SHS, T.I. Ahmadiyya SHS & Wa Islamic SHS
- Construction of 3No. Assembly Hall/Dining Hall/Kitchen Block at T.I. Ahmadiyya SHS, Lassia Tuolu SHS & Ko SHS

Education:

Feb/2010- Jun/2012: Master of Business Administration - Kingston University (UK) :

Sept/2000- May/2003: Master of Science - Brunel University (UK)

Sept/1995- Jul/1998: Bachelor of Engineering- South Bank University (UK)

Experience Record:

Jul/2013 – Present, Senior Electrical Engineer (HOD) - University for Development Studies Electrical Engineer (Part-time), A&QS Consortium Ltd - Wa.

Jan/2012–May/2013, Director Buke Electricals Ltd

Mar/2012– May/2013, Senior Electrical Engineer for Frankham Consulting Engineers

Jan/2011– Feb/2013, Senior Electrical Engineer – for Atelier Ten Consulting Engineers

Feb/2008– Dec/2011, Associate Director Electrical BDSP Consulting Engineers

Jan/2007 – Jan/2008, Electrical Associate Engineer WSP Group Consulting Engineers

Dec/2004- Jan/2007, Electrical Group Leader/ Deputy Head of M&E Atkins Global

Language:	SPEAKING	READING	WRITING
English	Excellent	Excellent	Excellent
Huasa	Excellent	Good	Good

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications and my experience, and I am available to undertake the assignments in case of an ward. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the client, and/or sanctions by the Bank

Signature

Date: Friday, January 24, 2025

Full name of staff member:

.....

Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

PROPOSED POSITION: LEAD MECHANICAL ENGINEER

Name of firm: A&QS Consortium
Name of staff: Ing. Joseph Appiah
Profession: Mechanical Engineer
Date of Birth: 27th October, 1964
Years of Experience in Similar Position **21 Years**
Year with firm/entity: Four (4) years
Nationality: Ghanaian
Tel:
Email: joeapp63@yahoo.com

Membership of Professional Societies: -

Member of Ghana Institution of Engineers (MGhIE)

Detailed tasks Assigned: -

Will carry out design reviews and supervision of all Mechanical services within the structures that will be constructed

Key Qualifications: -

Ing. Joseph Appiah has over 21 years post qualification experience in the mechanical designs and supervision of varied types and scope of structures. His experience in such jobs is immerse and remarkable.

Position:-

Mechanical Engineer

Key Projects Handled:-**2007 to date**

1. Designed the Air-conditioning, Plumbing, Firefighting & Lift Services to the 10-storey NewHead Office building with 2-level basement car parking for National Communication Authority at Airport City, Accra.
2. Designed and supervised the Air-conditioning, Plumbing, Lift and Catering Services to the rehabilitation of the 13-storey Job 600 into Offices including a data centre for Parliamentarians at Osu, Accra.
3. Designed & supervised the Air-conditioning and Plumbing Installations to the Office building for KEK Insurance Brokers Ltd. at Airport Residential Area, Accra

4. Designed & supervised the Air-conditioning and Plumbing Installations to the Electrical & Electronic Engineering block for Accra Polytechnic at Accra.
5. Design & supervision of the Air-conditioning, Lift and Plumbing Installations to the Head Office block for Intercontinental Bank at Osu.
6. Design and supervision of Air-conditioning & Plumbing Installations to the Residential Apartments, Club House and New Stables for Accra Polo Club at Airport Area, Accra.
7. Designed, prepared bills of quantities and supervised the Plumbing & Airconditioning Installations to the New building for Sunlodge Hotel at Tesano, Accra.
8. Design and supervision of Air-conditioning & Plumbing Installations to the Commercial/Residential building for Mrs. Constance Holdbrook at Dansoman, Accra.
9. Design, preparation of bills of quantities and supervision of the Plumbing Installations to the Students' Hostel Complex for University of Ghana at Legon.
10. Design, preparation of bills of quantities and supervision of the Plumbing Services to the Students' Hostels for Teachers' Fund at North Legon.
11. Design, preparation of bills of quantities and supervision of the Plumbing Services to the Students' Hostels for Bani Investment Ltd. at Legon
12. Design and supervision of Air-conditioning and Plumbing Installations to the 4-Storey Lecture hall block for University of Ghana at Accra City Campus.
13. Designed& prepared bill of quantities of Plumbing & Air conditioning Installations to the 7-level Multi-Storey Car Parks for Taysec/SSNIT at Ridge, Accra.
14. Design, preparation of bills of quantities and supervision of the Catering, Laundry, swimming pool, cold room and lifts Installations to the Golden Tulip Hotel at Kumasi.
15. Designed and prepared bills of quantities of Plumbing & Air conditioning Installations to the 4-Storey branch office for Ecobank Ltd at Tema.
16. Design, preparation of bill of quantities & supervision of Plumbing & Air conditioning Installations to the 5-Storey Office block for Sulana Electrical Eng. Wks. Ltd. at Kokomlemle.

1999 to 2007

- Involved in the design and supervision of Air-conditioning and Plumbing Installations to the branches for Ghana Commercial Bank at 9-storey Liberty house, 10-storey Head Office at Accra High Street, Adum, Kumasi, Cape Coast, Techiman and Aflao.
- Involved in the design and supervision of Air-conditioning, Lifts and Plumbing Installations to the 6-storey Regional Office for Bank of Ghana at Takoradi.
- Involved in the design and supervision of Air-conditioning, Plumbing and Lifts

Installations to the renovated 8-storey GNTC Building (Ghana House) at Accra for Ministry of Trade and Industry

- Designed, prepared bills of quantities and supervised the airconditioning and plumbing

Installations to the renovated office (Annex) for Netherlands Embassy at Accra.

- Designed, prepared bills of quantities and supervised the airconditioning and plumbing

Installations to the new offices for Institute of African Studies for University of Ghana

- Designed, prepared bills of quantities and supervised the airconditioning and plumbing
- Installations to the office block for Centre for African Wetlands for University of

Ghana at Legon.

- Involved in the design and supervision of the Standchart Bank Ltd. Branch offices at Harper road, Kumasi; Sunyani; Cape Coast and Spintex road, Accra.

- Designed and supervised the Plumbing Installation of WAEC Examination Halls at Ho and Tamale as well as Registrar's Residence at Accra Airport Res. Area, Accra

- Involved in the design and supervision of Plumbing Installations to the Coconut Husk Processing factory at Tikobo No.1 for Wienco Fibers Ltd.

- Involved in the design and supervision of Air-conditioning and Plumbing Installations to the New Science Laboratory for Ghana International School (G.I.S), Accra.

- Involved in the design and supervision of Air-conditioning and Plumbing Installations to the Proposed and Refurbished branches for National Investment Bank at Takoradi and Accra Main respectively

- Involved in the design and supervision of the Plumbing Installations to the Students' Hostels for Ghana Hostels Ltd at University of Cape Coast

- Involved in the design and supervision of Air-conditioning and Plumbing Installations to the Administration block of BoankraInlandPort for Ghana Shippers Council at Boankra, Ashanti Region.

- Supervised the Plumbing Installations to the renovation & upgrading of second cycle schools at BaidooBonsu, AduGyamfi, OkomfoAnokye and Asuogyaman secondary schools for Ministry of Education, Youth and Sports Region.

- Supervised the Plumbing Installations to the Students' Hostel, classroom block and Auditorium(PSI) for Ministry of Education, Youth and Sports Region.

- Designed, prepared bills of quantities & supervised the plumbing Installations to the 7th Hall of Residence for KNUST at Kumasi.

- Designed, prepared bills of quantities & supervised the plumbing & air conditioning Installations to the offices & conference hall for Volta Hall Women Resource Centre at University of Ghana, Legon.

- Designed, prepared bills of quantities & supervised the plumbing & air conditioning installations to the offices and fuel filling station for Goil at Tantra Hill, Accra.
- Designed, prepared bills of quantities & supervised the plumbing & air conditioning installations to the Sports Complex (Hale & Hearty) for KNUST, Kumasi.
- Designed, prepared bills of quantities & supervised the plumbing installations to the International Students Hostel Phase 2 for University of Ghana at Legon.
- Involved in the design, preparation of bills of quantities & supervision of the plumbing installations to the Graduate Hostel Phase 2 for University of Ghana.
- Designed, prepared bills of quantities & supervised the plumbing installations to the 'N' Block Lecture Hall for University of Ghana at Legon.

Education:

1994 - 1996: Certificate in Tools Design, Pakistan Industrial Technical Assistance Centre - Pakistan

1987- 1991: BSc Mechanical Engineering- Kwame Nkrumah University of Science & Tech.- Kumasi

Experience Record:

2011 – Date; Mechanical Engineer (Part Time), A&QS Consortium Ltd Wa

2007 to Date; Unique Josap Eng. Ltd. Director Accra

1999 to 2007; X-Cel Engineering Ltd. Mechanical Engineer Accra

1995 – 1999; GRATIS Project Design Engineer Tema

1991 –1995; Ghana Publishing Corp. Acting Head of Tema Engineering Dept.

Language:	SPEAKING	READING	WRITING
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English	Excellent	Excellent	Excellent
Akan	Excellent	Excellent	Good

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications and my experience, and I am available to undertake the assignments in case of an ward. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the client, and/or sanctions by the Bank

Signature

Date: Friday, January 24, 2025

Full name of staff member:

.....

Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

PROPOSED POSITION: LEAD GEOTECHNICAL/MATERIALS ENGINEER

Name of firm: A&QS Consortium
Name of staff: John F. Pinkrah
Profession: Geotechnical/Materials Engineer
Date of Birth: 24th March 1955
Years of Experience in Similar Position **28 Years**
Year with firm/entity: **Five (5) years**
Nationality: Ghanaian
Tel:
Email: johnpinkrah@gmail.com

Membership of Professional Societies: -

Member of Ghana Institution of Engineers (MGhIE)
Member of Ghana Geotechnical Society
Member, International Geosynthetics Society – Ghana Chapter.

Detailed tasks Assigned: -

Will carry out design reviews and supervision of all geotechnical/material engineering services within the structures that will be constructed

Key Qualifications: -

Ing. John F. Pinkrah has over 28 years post qualification experience in the geotechnical designs and supervision of varied types and scope of structures. His experience in such jobs is immerse and remarkable.

Position:-

Geotechnical/materials Engineer

Key Projects Handled:-

1. Design and construction of a 21 – Storey Residential Apartments for Trasacco Estates Development Co. Ltd – Accra.
2. Design and construction of 4-storeys accommodation Flats on behalf of Simed International of The Netherlands at Tamale Teaching Hospital
3. Design and construction of 12-storey with basements and 5-storey with underground parking for CAL BANK Ltd, on behalf of Atelier, the Consulting Architects at Independence Avenue, Accra.

4. Construction of Hangar for the Ghana Air Force – main Contactor Messrs Contracta Engeharia Ltd of Brazil at Air Force Base in Accra.
5. Carried out Geotechnical investigations to provide foundation design data for the construction of a 7 - Storey Office Building Complex with one level basement at West Airport Residential Area–Accra, for the Public Procurement Authority and Internal Audit Agency.
6. Carried out Geotechnical investigations for the development of 14- Storey with 3no level basements for Retail and Hotel Complex Building at Osu for Messrs Multicad (Consultants) on behalf of Ghana Libyan Arab Holding Company Ltd.
7. Carried out Geotechnical investigation to provide foundation design parameters for 4No units of 3- Storey Offices Blocks and Conference facilities for National Council for Tertiary Education at East Legon – Accra on behalf Messrs Akuffo and Associates – Project Consultants.
8. Carried out Geotechnical investigation on a site near the Kotoka International Airport- Accra for the design and construction of two storey Offices and Warehouse for World Food Programme / United Nations Humanitarian Response (WFP/UNHR) Depot
9. Carried out Geotechnical investigations to provide soil parameters for the design and construction of 2No Blocks of 6-Storeys and 15-Storeys with basements Buildings on a site at West Ridge in Accra for Ghana reinsurance Company limited – Head Office
10. Carried out Geotechnical investigation for the design and construction of Multi-Purpose Building at the University of Ghana – Legon for College of Allied Sciences on behalf of Femme Arc Consults – Project Consultants.

Education:

1976 - 1980: BSc Geological Engineering, Kwame Nkrumah University of Science & Tech.- Kumasi

1988- 1990: MSc Materials Engineering - State University of Ghent, Belgium

Experience Record:

2010 – Date; Geotechnical/Materials Engineer (Part Time), A&QS Consortium Ltd Wa

May 2004 to Date; Senior Consultant – Geotechnical Engineer; Geoconsultants –Accra.

1998 – March, 2004 Snr. Consultant /Geotechnical Engineer, Acting Head and Substantive

Head of Geotechnical Department of Architectural and Engineering Services Limited (AESL).

1985 - 1998 Architectural & Engineering Services Ltd (AESL); Geotechnical Engineer

Dec.1982 – Dec.1984: Jodda Construction Ltd. Ilorin, Nigeria Geotechnical/Material
Engineer

Language:	SPEAKING	READING	WRITING
English	Excellent	Excellent	Excellent
Akan	Excellent	Excellent	Good
Hausa	Excellent	Poor	Poor

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications and my experience, and I am available to undertake the assignments in case of an ward. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the client, and/or sanctions by the Bank

Signature

Date: Friday, January 24, 2025

Full name of staff member:

Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

PROPOSED POSITION: LEAD GEODETIC ENGINEER

Name of firm: A&QS Consortium
Name of staff: John Christian Acquaah
Profession: Geodetic Engineer/Surveyor
Date of Birth: 20th April, 1950
Years of Experience in Similar Position **25 Years**
Year with firm/entity: **Six (6) years**
Nationality: Ghanaian
Tel:
Email: acquaah1950@yahoo.com

Membership of Professional Societies: -

Member of Ghana Institution of Surveyors (MGhIS)
Member of Royal Institution of Chartered Surveyors (Assoc. RICS)
Member of Ghana Institution of Engineers (MGhIE)

Detailed tasks Assigned: -

Will carry out design reviews and supervision of all geotechnical/material engineering services within the structures that will be constructed

Key Qualifications: -

Surv. John C. Acquaah has over 25 years post qualification experience in the geodetic/geomatic surveys, designs and supervision of varied types and scope of structures. His experience in such jobs is immerse and remarkable.

Position:-

Geodetic Surveyor/Engineer

Key Projects Handled:-

1. Topographical/detail survey for Calvary Baptist Church at Shiashie.
2. Boundary/topographical survey for SIRIUS REAL ESTATE FUND LTD.
3. Topographical/detail survey for Delico Ghana Limited at Achimota.
4. Demarcation and survey of proposed site for City Homes at Movenpick Ambassador Hotel.

5. Boundary survey of a 500 Acre land at the Tema Free Zone Enclave for International Land Development Company (I.L.D.C).
6. Vertical/Horizontal Controls for fixing of Claddings etc. by the Consultants (ie. S. Tetteh & Associates) on the Kempinski Gold Coast City Hotel project by ZAKHEM International Construction (GH) Limited.
7. Boundary and topographic surveys of a 300 Acre land at Mankoadze in the Central Region for installation of solar panels.
8. Survey of Refugee Camps at Egyekrom in the Central Region, Fetanta in the Brong-Ahafo Region and Ampain in the Western Region for UNHCR.
9. Topographic survey of site for Netas Concession at Tarkwa Nsuaem (5 square miles).
10. Boundary survey and preparation of cadastral plan for a 4,878 Acres land for Diamond Cement for the mining of lime stone.
11. Topographical/detail survey of Ghana Institution of Journalism (G.I.J) and preparation of site plan.

Education:

1977 - 1980: BSc Geodetic Engineering, Kwame Nkrumah University of Science & Tech.- Kumasi

1975- 1977: Diploma Geodetic Engineering - Kwame Nkrumah University of Science & Tech.-Kumasi

Experience Record:

2009 – Date; Geodetic Engineer (Part Time), A&QS Consortium Ltd Wa

March 2005 to Date; Director – Acquaah-Lartey & Associates –Accra.

2000 – 2010 Regional Surveyor; Greater Accra Region- Survey Department

1990 - 2000 Head of Geodetic Section of Survey Department, Accra

Language:	SPEAKING	READING	WRITING
English	Excellent	Excellent	Excellent
Akan	Good	Poor	Poor
Ga	Excellent	Poor	Poor

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications and my experience, and I am available to undertake the assignments in case of an ward. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the client, and/or sanctions by the Bank

Signature

Date: Friday, January 24, 2025

Full name of staff member:

.....

Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

PROPOSED POSITION: LEAD HYDROGEOLOGICAL ENGINEER

Name of firm: A&QS Consortium
Name of staff: Ayer Joseph Tawiah
Profession: Hydrogeological Engineer
Date of Birth: 2nd May, 1979
Years of Experience in Similar Position **15 Years**
Year with firm/entity: **Six (6) years**
Nationality: Ghanaian
Tel:
Email:

Membership of Professional Societies: -

Member of Ghana Institution of Engineers (MGhIE)

Detailed tasks Assigned: -

Will carry out design reviews and supervision of all hydrogeological engineering services within the structures that will be constructed

Key Qualifications: -

Ayer Joseph Tawiah has over 17 years post qualification experience in the hydrogeological works, designs and supervision of varied types and scope of works. His experience in such jobs is immerse and remarkable.

Position:-

Hydrogeological Engineer

Key Projects Handled:-

1. Drilling and construction of 50No Boreholes in the Jirapa District of Upper West Region under Rural Water and Sanitation Project (RWSP) of the World Bank 2012
2. Field Survey and Drilling of 36No. Boreholes under the Water, Sanitation and Health (WASH) programme 2011 in the Wa West District Assembly
3. Drilling and construction of 12No. Boreholes under 3 Small Towns Water and Sanitation Project in the Upper West Region
4. Supervision of RC and DD drilling programme, Akoasi Project - Vikings Ashanti, Ghana.
5. Supervision of RC and DD drilling programme, West Star and Blue River Project - Vikings Ashanti, Ghana.

6. Re-logging of DD core and supervision of RC drilling programme, Esaase project - Keegan Resources, Ghana.
7. Supervision of RC and DD drilling programme, Batie Project – Ampella Mining, Burkina Faso.

Education:

2001 - 2005: BSc Geological Engineering, Kwame Nkrumah University of Science & Tech.- Kumasi

1995 – 1998; Diploma in Geological Engineering - Kwame Nkrumah University of Science & Tech.-Kumasi

1991 - 1994: SSCE, Opoku Ware SHS - Kumasi

Experience Record:

November 2012 – Date; Hydrogeologist, CWSA - Upper West Region

April 2011 – November 2012, Project Exploration Geologist, CWSA – Head Office

December 2009 – Date; Hydro geologist (Part Time), A&QS Consortium Ltd Wa

May 1998 to 2009; Hydrogeologist, – Coffey Mining Pty, West Africa, Accra.

Language:	SPEAKING	READING	WRITING
English	Excellent	Excellent	Excellent
Akan	Good	Poor	Poor
Ga	Excellent	Poor	Poor

Certification:

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Signature

Date: Friday, January 24, 2025

Full name of staff member:

Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

PROPOSED POSITION: CLERK OF WORKS – UWR NADOWLI KALEO; NARO

Name of firm: A&QS Consortium
Name of staff: John Bosco Zagleh
Profession: Construction Technician
Date of Birth: 28th December 1957
Years of Experience in Similar Position 20 Years
Year with firm/entity: Fourteen (14) years
Nationality: Ghanaian
Membership of Professional Societies: - None
Tel: 0208722160/0263134144
Email: johnbzagleh@yahoo.com

Detailed tasks Assigned: -

UWR Nadowli Kaleo; Naro : Will be responsible for daily out on-site supervision of Works & carry out the supervision of all Clerks Of Works on the various Sites structure that will be constructed

Key Qualifications: John Bosco Zagleh has over 18 years post qualification experience in the supervision of varied types and scope of construction projects. His experience in such jobs is immense and remarkable.

Position: - **Clerk of Works - UWR Nadowli Kaleo; Naro**

Key Projects Handled:-

- Construction of 1No. 3-Storey 750 Bed Capacity Girls Dormitory Block at Ghana SHS – Tamale
- Construction of 1No. 2-Storey 12-Unit Classroom Block at Bole SHS
- Construction of 2No. Single Storey 250 Bed Capacity Dormitory Blocks at Chereponi SHS & Kalpohin SHS- Tamale
- Construction of 3No. Single Storey 250 Bed Capacity Dormitory Blocks at Ndewura Jakpa SHS, Yagaba STHS & E.P. SHS- Tamale
- Construction of Single Storey Administration Block at Yagaba STHS – Tamale
- Construction of 1no. Single Storey 250 Bed Capacity Girls Dormitory Block at Pong Tamale SHS
- Construction of 2no. Single Storey 6-Unit Classroom Block at Buipe SHS & 1no. Single Storey 6-Unit Classroom Block at Yagaba STHS,
- Construction of 2No. 2-Storey 12-Unit Classroom Block at Bongo SHS & OLL SHS (Navrongo)

- Construction of 1No. 2-Storey 500 Bed Capacity Girls Dormitory Block at OLL SHS (Navrongo)
- Construction of 1No. 3- Storey 18 - Unit Classroom Block at Bolgatanga Technical Institute
- Construction of 1No. Single Storey 250 Bed Capacity Dormitory Block at Zebilla SHTS
- Construction of 2- Storey Administration/Laboratory Block at OLL SHS (Navrongo)
- Construction of 1no. Single Storey Library Block at OLL SHS (Navrongo)
- Construction of 2no. Single Storey 6-Unit Classroom Block at Kogadin & Bolgatanga SHS
- Construction of 3No. Single Storey District Assembly Administration/Conference Hall Blocks at Gwollu, Fensi & Wechiau
- Construction of 1No. 2-Storey Administration Block Complex at Nadowli
- Construction of 2No. 2-Storey 12-Unit Classroom Block at T.I. Ahmadiyya SHS - Wa & Ko SHS
- Construction of 3No. 2-Storey Classroom Blocks at Kaleo SHTS, Jirapa SHS & Wa SHS
- Construction of 1No. 2-Storey (500 Bed Capacity) Dormitory Block at Jirapa SHS
- Construction of 1No. 2-Storey 12 Unit Classroom Block at Gwollu SHS
- Construction of 3No. 2-Storey Administration Block/ Library Block at Gwollu SHS, T.I. Ahmadiyya SHS & Wa Islamic SHS
- Construction of 3No. Assembly Hall/Dining Hall/Kitchen Block at T.I. Ahmadiyya SHS, Lassia Tuolu SHS & Ko SHS
- Construction of Single Storey Classroom (Ground Type) Block at Han SHTS

Education:

1997 – 2000: HND Building Tech. Takoradi Polytechnic, Western Region

1995 – 1997: Construction Technician Part 3 Takoradi Polytechnic, Western Region

1993 – 1996: Construction & Drawing - Nandom Vocational School, Upper West Region

Experience Record:

October 2001 – Date Chief Clerk of Works, A&QS Consortium Ltd - Wa.

Sep. 2000 – Sep. 2001, Clerk of Works, PEPSC – Nandom UWR

Jan 1991 – Sep. 2000, Construction Engineer, PWD, Takoradi

1983 – 1991, Works Superintendent, Council for Scientific and Industrial Research (CSIR), Ayimase Western Region.

Languages:

	SPEAKING	READING	WRITING
English	Excellent	Excellent	Excellent
Twi	Excellent	Good	Good
Dagaari	Excellent	Good	Good

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications and my experience, and I am available to undertake the assignments in case of an ward. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the client, and/or sanctions by the Bank

Signature

Date: Friday, January 24, 2025

Full name of staff member:

.....

Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

PROPOSED POSITION: CLERK OF WORKS – BA NKORANZA MAMPONG; DONKOR NKWANTA

Name of firm:	A&QS Consortium
Name of staff:	Gilbert Kwaku Duodu
Profession:	Construction Technician
Date of Birth:	5 th May 1982
Years of Experience in Similar Position	8 Years
Year with firm/entity:	Seven (7) years
Nationality:	Ghanaian
Membership of Professional Societies: -	None
Tel:	0242045010, 0208240266
Email:	gillyhot1010@gmail.com

Detailed tasks Assigned: -

BA Nkoranza Mampong; Donkor: Will carry out on-site supervision of Works on the structures that will be constructed and renovated.

Key Qualifications:	Gilbert Kwaku Duodu has over 8 years post qualification experience in the supervision of varied types and scope of construction projects. His experience in such jobs is immense and remarkable.
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Position: -	Resident Clerk of Works - BA Nkoranza Mampong; Donkor
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Key Projects Handled:-

Resident Clerk of Works

- Construction of 1No. 3-Storey 750 Bed Capacity Girls Dormitory Block at Ghana SHS – Tamale
- Construction of 1No. 2-Storey 12-Unit Classroom Block at Bole SHS
- Construction of 2No. Single Storey 250 Bed Capacity Dormitory Blocks at Chereponi SHS & Kalpohin SHS- Tamale
- Construction of 3No. Single Storey 250 Bed Capacity Dormitory Blocks at Ndewura Jakpa SHS, Yagaba STHS & E.P. SHS- Tamale
- Construction of Single Storey Administration Block at Yagaba STHS – Tamale
- Construction of 1no. Single Storey 250 Bed Capacity Girls Dormitory Block at Pong Tamale SHS
- Construction of 2no. Single Storey 6-Unit Classroom Block at Buipe SHS & 1no. Single Storey 6-Unit Classroom Block at Yagaba STHS,

Education:

2004 – 2008: HND Building Tech. Tamale Polytechnic, Northern Region

2000 –2003:Construction Technician Part3 Dabokpa Technical / Vocational Institute Tamale,

1996 – 1999: Construction & Drawing – Vitting Secondary Technical School, Tamale

Experience Record:

January 2009 – Date Resident Clerk of Works, A&QS Consortium Ltd – Bolga Branch.

May. 2008 – Jan. 2009, National Service Clerk of Works, A&QS Consortium Ltd-Bolga Office

August **2003** – April. 2008, Student Trainee, AESL, Tamale N/R

Languages:

	SPEAKING	READING	WRITING
English	Excellent	Excellent	Excellent
Twi	Excellent	Good	Good
Fanti	Excellent	Good	Good
Dagbani	Good	Good	Poor

Certification:

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Signature

Date: Friday, January 24, 2025

Full name of staff member:

.....
Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

PROPOSED POSITION: CLERK OF WORKS- BA DORMAA WEST; NKWANTASO

Name of firm:	A&QS Consortium
Name of staff:	Peter Paul Yitiereh
Profession:	Construction Technician
Date of Birth:	2 nd October 1979
Years of Experience in Similar Position	6 Years
Year with firm/entity:	5 Years
Nationality:	Ghanaian
Membership of Professional Societies: -	None
Tel:	0245115133/0200468367
Email:	ppyitiereh@gmail.com

Detailed tasks Assigned: -

BA Dormaa West; Nkwantaso: Will carry out on-site supervision of Works on the structures that will be constructed and renovated.

Key Qualifications: Peter Paul Yitiereh has over 7 years post qualification experience in the supervision of varied types and scope of construction projects. His experience in such jobs is immense and remarkable.

Position: - **Clerk of Works - BA Dormaa West; Nkwantaso**

Key Projects Handled:-

- Construction of 2No. 2-Storey 12-Unit Classroom Block at Bongo SHS & OLL SHS (Navrongo)
- Construction of 1No. 2-Storey 500 Bed Capacity Girls Dormitory Block at OLL SHS (Navrongo)
- Construction of 1No. 3- Storey 18 - Unit Classroom Block at Bolgatanga Technical Institute
- Construction of 1No. Single Storey 250 Bed Capacity Dormitory Block at Zebilla SHTS
- Construction of 2- Storey Administration/Laboratory Block at OLL SHS (Navrongo)
- Construction of 1no. Single Storey Library Block at OLL SHS (Navrongo)
- Construction of 2no. Single Storey 6-Unit Classroom Block at Kogadin & Bolgatanga SHS

Education:

2006 – 2009: HND Building Tech. Wa Polytechnic, Upper West Region
2001 – 2005: Construction Technician Part 2&3 Wa SHTS, Upper West Region
1997 – 2000: Islamic Junior High School, Upper West Region

Experience Record:

July 2010 – Date Clerk of Works, A&QS Consortium Ltd – Tamale Office
Sep. 2006 – May 2009 Construction Technician, PWD – Wa UWR

Languages:

	SPEAKING	READING	WRITING
English	Excellent	Good	Excellent
Twi	Good	Good	Good
Dagaari	Excellent	Good	Good

Certification:

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Signature

Date: Friday, January 24, 2025

Full name of staff member:
.....Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

PROPOSED POSITION: CLERK OF WORKS- BA TECHIMAN MUNICIPAL; GYARKO-TECHIMAN

Name of firm:	A&QS Consortium
Name of staff:	Richard K. Danso
Profession:	Construction Technician
Date of Birth:	18 th February 1985
Years of Experience in Similar Position	6 Years
Year with firm/entity:	4 Years
Nationality:	Ghanaian
Membership of Professional Societies: -	None
Tel:	0243812529
Email:	kofidanso@yahoo.com

Detailed tasks Assigned: -

BA Techiman Municipal; Gyarko-Techiman: Will carry out on-site supervision of Works on the structures that will be constructed and renovated.

Key Qualifications: Richard K. Danso has over 7 years post qualification experience in the supervision of varied types and scope of construction projects. His experience in such jobs is immense and remarkable.

Position: - Clerk of Works - BA Techiman Municipal; Gyarko-Techiman

Key Projects Handled:-

- Construction of 3No. Single Storey District Assembly Administration/Conference Hall Blocks at Gwollu, Fensi & Wechiau
- Construction of 1No. 2-Storey Administration Block Complex at Nadowli
- Construction of 2No. 2-Storey 12-Unit Classroom Block at T.I. Ahmadiyya SHS - Wa & Ko SHS
- Construction of 3No. 2-Storey Classroom Blocks at Kaleo SHTS, Jirapa SHS & Wa SHS
- Construction of 1No. 2-Storey (500 Bed Capacity) Dormitory Block at Jirapa SHS

Education:

2002 – 2006: HND Building Tech. Ho Polytechnic, Volta Region

1995 – 1997: Construction Technician Part 1-3 Ho Polytechnic, Volta Region

Experience Record:

October 2010 – Date Clerk of Works, A&QS Consortium Ltd – Tamale Office.

Sep. 2007 – Sep. 2010, Works Superintendent, Department of Feeder Roads - NR

Jan **2005** – Sep. 2007, Construction Engineer, P&W Ganem Ltd, Wa

Languages:

	SPEAKING	READING	WRITING
English	Excellent	Excellent	Excellent
Twi	Excellent	Good	Good
Ga	Excellent	Good	Good

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications and my experience, and I am available to undertake the assignments in case of an ward. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the client, and/or sanctions by the Bank

Signature

Date: Friday, January 24, 2025

Full name of staff member:

.....

Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

PROPOSED POSITION: CLERK OF WORKS- BA JAMAN NORTH; DUADASO No. II

Name of firm: A&QS Consortium
Name of staff: Peter Mahama
Profession: Construction Technician
Date of Birth: 4th April 1982
Years of Experience in Similar Position 7 Years
Year with firm/entity: 4 years
Nationality: Ghanaian
Membership of Professional Societies: - None
Tel: 0244089888
Email: mahamap@ymail.com

Detailed tasks Assigned: -

BA Jaman North; Duadaso No. II: Will carry out on-site supervision of Works on the structures that will be constructed and renovated.

Key Qualifications: Peter Mahama has over 8 years post qualification experience in the supervision of varied types and scope of construction projects. His experience in such jobs is immense and remarkable.

Position: - **Clerk of Works - BA Jaman North; Duadaso No. II**

Key Projects Handled:-

- Construction of 2No. 2-Storey 12-Unit Classroom Block at T.I. Ahmadiyya SHS - Wa & Ko SHS
- Construction of 1No. 2-Storey Classroom Blocks at Kaleo SHTS,
- Construction of 1No. 2-Storey (500 Bed Capacity) Dormitory Block at Jirapa SHS

Education:

2004 – 2008: HND Building Tech. Accra Polytechnic, Greater Accra Region

2001 – 2003: SSS Certificate - Wa SHS, Upper West Region

Experience Record:

August 2009 – Date; Clerk of Works, A&QS Consortium Ltd - Wa.

May 2008 – August. 2009 Service Personnel, A&QS Consortium Ltd, PEPSC –UWR

Languages:

	SPEAKING	READING	WRITING
English	Excellent	Excellent	Excellent
Twi	Excellent	Good	Good
Dagaari	Excellent	Good	Good

Certification:

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Signature

Date: Friday, January 24, 2025

Full name of staff member:

Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

PROPOSED POSITION: CLERK OF WORKS – BA JAMAN SOUTH; ADAMSU

Name of firm: A&QS Consortium
Name of staff: Osman Fatawu
Profession: Construction Technician
Date of Birth: 2nd June 1983
Years of Experience in Similar Position **9 Years**
Year with firm/entity: 3 years
Nationality: Ghanaian
Membership of Professional Societies: - None
Tel: 0546081685
Email: fat6060@yahoo.co.uk

Detailed tasks Assigned: -

BA Jaman South; Adamsu: Will carry out on-site supervision of Works on the structures that will be constructed and renovated

Key Qualifications: Osman Fatawu has over 9 years post qualification experience in the supervision of varied types and scope of construction projects. His experience in such jobs is immense and remarkable.

Position: - Clerk of Works- BA Jaman South; Adamsu**Key Projects Handled:-**

- Construction of 1No. Single Storey District Assembly Administration/Conference Hall Blocks at Wechiau
- Construction of 1No. 2-Storey Administration Block Complex at Nadowli
- Construction of 2No. 2-Storey 12-Unit Classroom Block at T.I. Ahmadiyya SHS - Wa & Ko SHS
- Construction of 1No. 2-Storey 12 Unit Classroom Block at Gwollu SHS
- Construction of 3No. 2-Storey Administration Block/ Library Block at Gwollu SHS, T.I. Ahmadiyya SHS & Wa Islamic SHS
- Construction of 3No. Assembly Hall/Dining Hall/Kitchen Block at T.I. Ahmadiyya SHS, Lassia Tuolu SHS & Ko SHS
- Construction of Single Storey Classroom (Ground Type) Block at Han SHTS

Education:

2004 – 2008: HND Building Tech. Wa Polytechnic, Upper West Region
2001 – 2003: CTC 1, 2 & 3 Certificate - Wa Senior High Technical School, Upper West Region

1993 – 1996: Brick Laying – Wa Technical Institute School, Upper West Region

Experience Record:

Nov. 2009 – Date Clerk of Works, A&QS Consortium Ltd - Wa.

Sep. 2008 – Nov. 2009, Site Manager, F.B. Telmax Construction Ltd – Wa - UWR

Feb. **2006** – Sep. 2008, Construction Engineer, PWD, Takoradi

April 2004 – Jan 2006, Works Engineer, Mallam Issa & Sons Ltd - Wa UWR

Oct. 2001 – March. 2004; Site Foreman, Uncleco Construction & Trading Ltd – Wa UWR

May 1996 – March 2004; Senior Mason – Alhaji Makubu Co Ltd – Wa UWR

Languages:

	SPEAKING	READING	WRITING
English	Good	Good	Good
Twi	Excellent	Poor	Poor
Dagaari	Excellent	Poor	Poor
Booni	Good	Poor	Poor

Certification:

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Signature

Date: Friday, January 24, 2025

Full name of staff member:

.....

Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

PROPOSED POSITION: CLERK OF WORKS- BA WENCHI MUNICIPAL; BUOKO

Name of firm:	A&QS Consortium
Name of staff:	Iddrisu Abdul Ganiyu
Profession:	Construction Technician
Date of Birth:	16 th November 1981
Years of Experience in Similar Position	8 Years
Year with firm/entity:	2 years
Nationality:	Ghanaian
Membership of Professional Societies: -	None
Tel:	0209096085
Email:	iddrisuganiyu@yahoo.com

Detailed tasks Assigned: -

BA Wenchi Municipal; Buoko: Will carry out on-site supervision of Works on the structures that will be constructed and renovated

Key Qualifications: Iddrisu Abdul Ganiyu has over 8 years post qualification experience in the supervision of varied types and scope of construction projects. His experience in such jobs is immense and remarkable.

Position: - **Clerk of Works- BA Wenchi Municipal; Buoko**

Key Projects Handled:-

- Construction of 1No. 2-Storey Administration Block/ Library Block at Wa Islamic SHS
- Construction of No. Assembly Hall/Dining Hall/Kitchen Block at T.I. Ahmadiyya SHS, Lassia Tuolu SHS & Ko SHS
- Construction of Single Storey Classroom (Ground Type) Block at Han SHTS

Education:

2003 – 2007: HND Building Tech. Wa Polytechnic, Upper West Region

1999 – 2002: Carpentry & Joinery Advance Wa Technical Institute, Upper West Region

1995 – 1998: BECE Certificate – T.I. Ahmadiyya JHS, Upper West Region

Experience Record:

Jan. 2012 – Date Clerk of Works, A&QS Consortium Ltd

Nov. 2009 – Dec. 2011, Carpenter Foreman Hambros Construction Works - UWR

Jan 2005 – Nov. 2009, Carpenter, Baba Alim Company Ltd, Lawra - UWR

May 2001 – Jan 2005, Carpenter, Milakson Enterprise, Wa UWR

Languages:

	SPEAKING	READING	WRITING
English	Excellent	Excellent	Excellent
Dagbani	Excellent	Good	Good
Dagaari	Excellent	Good	Good

Certification:

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Signature

Date: Friday, January 24, 2025

Full name of staff member:

Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

PROPOSED POSITION: CLERK OF WORKS- UWR JIRAPA; KONZOKALA

Name of firm:	A&QS Consortium
Name of staff:	Adams Nurideen
Profession:	Construction Technician
Date of Birth:	5 th January 1983
Years of Experience in Similar Position	7 Years
Year with firm/entity:	3 years
Nationality:	Ghanaian
Membership of Professional Societies: -	None
Tel:	0247878084/0209425747
Email:	a.nurideen@yahoo.com

Detailed tasks Assigned: -

UWR Jirapa; Konzokala: Will carry out on-site supervision of Works on the structures that will be constructed and renovated

Key Qualifications: Adams Nurideen has over 7 years post qualification experience in the supervision of varied types and scope of construction projects. His experience in such jobs is immense and remarkable.

Position: - **Clerk of Works- UWR Jirapa; Konzokala**

Key Projects Handled:-

- Construction of 1No. 2-Storey 12-Unit Classroom Block at Ko SHS
- Construction of 1No. 2-Storey Classroom Blocks at Jirapa SHS
- Construction of 1No. 2-Storey Administration Block/ Library Block at T.I. Ahmadiyya SHS
- Construction of 1No. Assembly Hall/Dining Hall/Kitchen Block at Lassia Tuolu SHS

Education:

2005 – 2008: HND Building Tech. Kumasi Polytechnic, Ashanti Region

2001 – 2004: SSCE Certificate Wa Senior High School, Upper West Region

1997 – 2000: BECE Certificate – Jujeidayiri Prim School, Upper West Region

Experience Record:

October 2012 – Date Clerk of Works, A&QS Consortium Ltd -

Dec. 2011 – September 2012, General Foreman, Black Star Company Ltd - Tamale

Sep. 2009 – Nov. 2011, Site Foreman, Builders Brothers Construction Wks - Tema

May. 2008 – Sep. 2009, Service Personnel, Ashaiman Municipal Assembly – Accra

Languages:

	SPEAKING	READING	WRITING
English	Excellent	Excellent	Excellent
Gonja	Good	Poor	Poor
Dagaari	Excellent	Good	Good
Twi	Average	Poor	Poor

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications and my experience, and I am available to undertake the assignments in case of an ward. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the client, and/or sanctions by the Bank

Signature

Date: Friday, January 24, 2025

Full name of staff member:

.....

Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

PROPOSED POSITION: CLERK OF WORKS- UWR SISSALA EAST; WELLEMBELE

Name of firm:	A&QS Consortium
Name of staff:	Richard Mensah
Profession:	Construction Technician
Date of Birth:	23 rd May 1978
Years of Experience in Similar Position	10 Years
Year with firm/entity:	8 years
Nationality:	Ghanaian
Membership of Professional Societies: -	None
Tel:	0242145414
Email:	ogbenoto1@yahoo.com

Detailed tasks Assigned: -

UWR Sissala East; Wellembele: Will carry out on-site supervision of Works on the structures that will be constructed and renovated

Key Qualifications: Richard Mensah has over 10 years post qualification experience in the supervision of varied types and scope of construction projects. His experience in such jobs is immense and remarkable.

Position: - **Clerk of Works- UWR Sissala East; Wellembele**

Key Projects Handled:-

- Construction of 1No. 3-Unit Classroom Block at Gumbihini JSS – Tamale
- Construction of 6-Unit Classroom Block with ancillary facilities at Gwollu Primary School
- Construction of ICT/Library Block at Kalpohini SHS – Tamale
- Rehabilitation of 3no masters Bungalow at Tamale College of Education

Education:

2005 – 2007: HND Building Tech. Ho Polytechnic, Volta Region

2002 – 2004: Construction Technician Part 3 Accra Polytechnic, Accra

2000 – 2002: Construction Technician Part 2 -, Accra Polytechnic, Accra

1998 – 2000: Construction Technician Part 1 Accra Polytechnic, Accra

1991 – 1997: Christ The King JHS Achimota, Accra

Experience Record:

Dec 2007 – Date Clerk of Works, A&QS Consortium Ltd - Wa.

Aug. 2005 – Sep. 2006, Clerk of Works, PEPSC – Nandom UWR

Feb. 2000 – July. 2005, Site Foreman, Cyman Ghana Ltd – Sunyani - BAR

Languages:

	SPEAKING	READING	WRITING
English	Excellent	Excellent	Excellent
Twi	Excellent	Good	Good
Ga	Excellent	Good	Good
Dagaari	Good	Poor	Poor

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications and my experience, and I am available to undertake the assignments in case of an ward. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the client, and/or sanctions by the Bank

Signature

Date: Friday, January 24, 2025

Full name of staff member:

.....

Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

PROPOSED POSITION: CLERK OF WORKS- UWR LAWRA; BOO

Name of firm:	A&QS Consortium
Name of staff:	Diyau Mahmud
Profession:	Construction Technician
Date of Birth:	6 th March 1977
Years of Experience in Similar Position	10 Years
Year with firm/entity:	Four (4) years
Nationality:	Ghanaian
Membership of Professional Societies: -	GhIS-Technician Class
Tel:	0244209828
Email:	diyaudeenk@gmail.com

Detailed tasks Assigned: -

UWR Lawra; Boo: Will carry out on-site supervision of Works on the structures that will be constructed and renovated

Key Qualifications: Diyau Mahmud has over 10 years post qualification experience in the supervision of varied types and scope of construction projects. His experience in such jobs is immense and remarkable.

Position: - **Clerk of Works -UWR Lawra; Boo**

Key Projects Handled:-

- Construction of 1No. 3-Storey 750 Bed Capacity Girls Dormitory Block at Ghana SHS – Tamale
- Construction of 1No. 2-Storey 12-Unit Classroom Block at Bole SHS
- Construction of 2No. Single Storey 250 Bed Capacity Dormitory Blocks at Chereponi SHS & Kalpohin SHS- Tamale
- Construction of 3No. Single Storey 250 Bed Capacity Dormitory Blocks at Ndewura Jakpa SHS, Yagaba STHS & E.P. SHS- Tamale
- Construction of Single Storey Administration Block at Yagaba STHS – Tamale
- Construction of 1no. Single Storey 250 Bed Capacity Girls Dormitory Block at Pong Tamale SHS
- Construction of 2no. Single Storey 6-Unit Classroom Block at Buipe SHS & 1no. Single Storey 6-Unit Classroom Block at Yagaba STHS,
- Construction of 2No. 2-Storey 12-Unit Classroom Block at Bongo SHS & OLL SHS (Navrongo)
- Construction of 1No. 2-Storey 500 Bed Capacity Girls Dormitory Block at OLL SHS (Navrongo)

- Construction of 1No. 3- Storey 18 - Unit Classroom Block at Bolgatanga Technical Institute
- Construction of 1No. Single Storey 250 Bed Capacity Dormitory Block at Zebilla SHTS
- Construction of 2- Storey Administration/Laboratory Block at OLL SHS (Navrongo)
- Construction of 1no. Single Storey Library Block at OLL SHS (Navrongo)
- Construction of 2no. Single Storey 6-Unit Classroom Block at Kogadin & Bolgatanga SHS
- Construction of 3No. Single Storey District Assembly Administration/Conference Hall Blocks at Gwollu, Fensi & Wechiau

Education:

1997 – 2000: HND Building Tech. Takoradi Polytechnic, Western Region

1994 – 1997: SSCE Certificate St. Augustine's College,

Experience Record:

October 2003 – Date Chief Clerk of Works, A&QS Consortium Ltd - Wa.

Oct. 2001 – Dec. 2002, General Foreman, P&W Ghanem Ltd– Upper West Region

April. 2000 – Sep. 2001, Clerk of Works, PWD – Upper West Region

Languages:

	SPEAKING	READING	WRITING
English	Excellent	Excellent	Excellent
Twi	Excellent	Good	Good
Waali	Excellent	Good	Good
Farifara	Average	Poor	Poor
Fanti	Good	Good	Poor

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications and my experience, and I am available to undertake the assignments in case of an ward. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the client, and/or sanctions by the Bank

Signature

Date: Friday, January 24, 2025

Full name of staff member:

.....

Full name of authorised representative: **Andrew K. Kuundaari**

Signature/Date

10.3 Professional Qualifications & Practicing Certificates of key Personnel

Please Note: As at the time of submission of this proposal, Ghana Institute of Architects (GIA) has not issued 2015 renewal of Architects license yet

ARCHITECTS REGISTRATION COUNCIL OF GHANA

ARCHITECTS DECREE, 1969 (N.L.C.D. 357)



Annual Practising Certificate as an Architect

This is to certify that

John Serbe Marfo

Having received a recognised training as an Architect, having passed necessary qualifying examinations and having fulfilled the prescribed requirements of practical experience,

Has been accepted on the Council's

STANDING REGISTER NO.: ARC.S.0185

And is thus permitted to practice as an Architect, in the Republic of Ghana

This License expires on the 31st Day of December 2014

IN WITNESS whereof, the common seal has been hereunto affixed
by Authority of the Council in Accra

On the 27th day of October, 2014


Registrar

ARC - C - 06



ARCHITECTS REGISTRATION COUNCIL OF GHANA

ARCHITECTS DECREE, 1969 (N.L.C.D. 357)

*Annual Practising Certificate
as an Architect*

This is to certify that

Thomas Ntiamoah Marfo

Having received a recognised training as an Architect, having passed necessary qualifying examinations and having fulfilled the prescribed requirements of practical experience,

Has been accepted on the Council's

ARC.S.0713

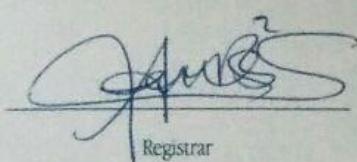
STANDING REGISTER NO.: _____

And is thus permitted to practice as an Architect, in the Republic of Ghana

This License expires on the 31st Day of December 2014

IN WITNESS whereof, the common seal has been hereunto affixed
by Authority of the Council in Accra

On the 26th day of February, 2014


Registrar

ARC - C - 06

GHANA INSTITUTION OF SURVEYORS



This is to certify that

Duru. Andrew Kofi Kuundaari

was on the 11th day of January, 2013 elevated

Fellow

of the
GHANA INSTITUTION OF SURVEYORS

Given under my hand this 16th day of January, 2013

Membership No.

584

President

This certification is subject to annual renewal and under the condition stipulated in the Bye-Law of the Institution

CERTIFICATE OF MEMBERSHIP



The Chartered Institution of
Building Services Engineers

Registered Charity No. 278104

222 Bathurst High Road
London SW12 8BS

Telephone 020 8675 5211
Facsimile 020 8673 5448
E-mail hq@cibse.org
www.cibse.org

Chief Executive & Secretary
Stephen Matthews CEng FCISE FIMechE

This is to certify that

Samuel Baba Abiko

is a

Member

of the Chartered Institution of Building
Services Engineers

Signed on 09 September 2014

Chief Executive

President

Your CIBSE membership number is 017924

**GHANA INSTITUTION OF ENGINEERS**

ESTABLISHED 1968

This is to Certify that*Samuel Baba Abiko**has this day been admitted to the
corporate membership grade of***Member**

OF THE GHANA INSTITUTION OF ENGINEERS

Electrical/Electronic

DIVISION

*M. Abiko*President
Dated 7/11/2014*Executive Secretary*
Registered No. 07761

**GHANA INSTITUTION OF ENGINEERS**

ESTABLISHED 1968

This is to certify thatGeorge Osei-Wusu Mensah*has this day been admitted to the
corporate membership grade of*Member

OF THE GHANA INSTITUTION OF ENGINEERS

Civil

DIVISION

MwakwaPresident
12/01/2011

Dated

Executive Secretary
06179
Registered No _____

NATIONAL BOARD FOR PROFESSIONAL
AND TECHNICIAN EXAMINATIONS
(NABPTEX) GHANA



This is to certify that

JOHN BOSCO, ZAGLEH

having pursued the prescribed programme of studies

at **TAKORADI POLYTECHNIC**

and having passed the prescribed examinations

by **22nd November, 2000**

has been awarded the **HIGHER NATIONAL DIPLOMA** in

BUILDING TECHNOLOGY

SECOND CLASS LOWER DIVISION

Certificate No B **0018850**

Candidate No **08020030**



HEAD OF INSTITUTION

EXECUTIVE SECRETARY, NABPTEX

Dated the **5th** day of **March, 2001**

**NATIONAL BOARD FOR PROFESSIONAL
AND TECHNICIAN EXAMINATIONS
(NABPTEX) GHANA**



This is to certify that

DUODU, GILBERT KWAKU

having pursued the prescribed programme of studies

at.....**TAMALE POLYTECHNIC**

and having passed the prescribed examinations

by.....**31st July, 2008**

has been awarded the **HIGHER NATIONAL DIPLOMA** in

BUILDING TECHNOLOGY

SECOND CLASS LOWER DIVISION

Certificate No E **0018203**

Candidate No **08070454**



HEAD OF INSTITUTION

EXECUTIVE SECRETARY, NABPTEX

Dated the **2nd** day of **November, 2009**

NATIONAL BOARD FOR PROFESSIONAL
AND TECHNICIAN EXAMINATIONS
(NABPTEX) GHANA



This is to certify that

YITIEREH, PETER PAUL

having pursued the prescribed programme of studies

at..... WA POLYTECHNIC

and having passed the prescribed examinations

by..... 13th July, 2009

has been awarded the **HIGHER NATIONAL DIPLOMA** in

BUILDING TECHNOLOGY

SECOND CLASS LOWER DIVISION

Certificate No E 0007156

Candidate No.....

1009060010

HEAD OF INSTITUTION

EXECUTIVE SECRETARY, NABPTEX

Dated the 19th day of March, 2010

**NATIONAL BOARD FOR PROFESSIONAL
AND TECHNICIAN EXAMINATIONS
(NABPTEX) GHANA**



This is to certify that

DANSO, RICHARD

having pursued the prescribed programme of studies

HO POLYTECHNIC

at.....

and having passed the prescribed examinations

by.....**31st July, 2006**.....

has been awarded the **HIGHER NATIONAL DIPLOMA** in

BUILDING TECHNOLOGY

SECOND CLASS UPPER DIVISION

Certificate No B **0045257**

Candidate No _____ **BUT 0306845**



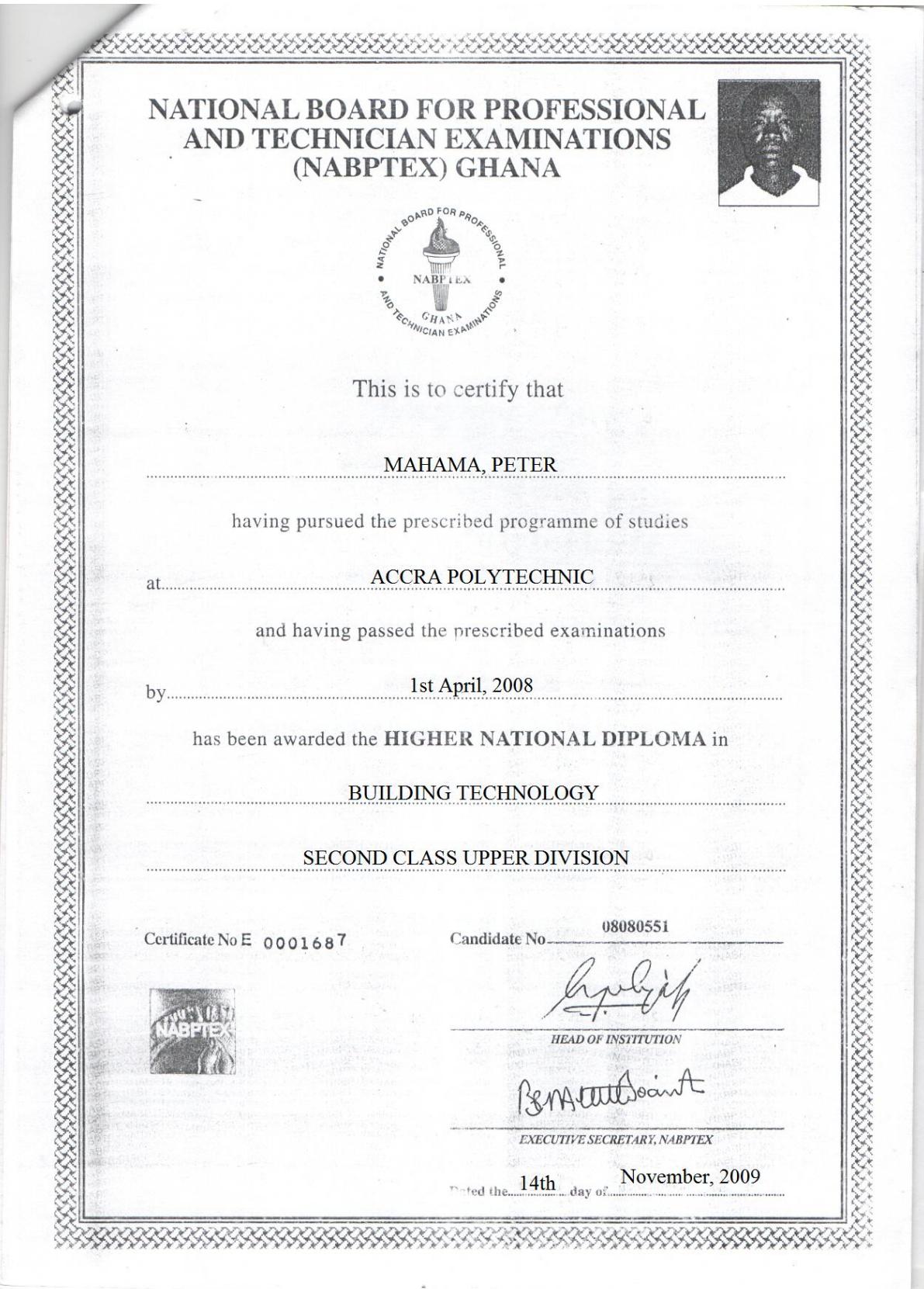
Adu Boafo

HEAD OF INSTITUTION

B. M. Attah-Safo

EXECUTIVE SECRETARY, NABPTEX

Dated the **4th** day of **May, 2007**



NATIONAL BOARD FOR PROFESSIONAL
AND TECHNICIAN EXAMINATIONS
(NABPTEX) GHANA



This is to certify that

OSMAN, FATAWU

having pursued the prescribed programme of studies

at.....
WA POLYTECHNIC

and having passed the prescribed examinations

by.....
23rd July, 2008

has been awarded the **HIGHER NATIONAL DIPLOMA** in

Civil Engineering

SECOND CLASS UPPER DIVISION

Certificate No E 0101527

Candidate No.....
[Signature]

CE 2104050020

HEAD OF INSTITUTION

[Signature]

EXECUTIVE SECRETARY, NABPTEX

Dated the *19th* day of *March, 2009*

**NATIONAL BOARD FOR PROFESSIONAL
AND TECHNICIAN EXAMINATIONS
(NABPTEX) GHANA**



This is to certify that

IDDRISU, ABDUL GANIYU

having pursued the prescribed programme of studies

WA POLYTECHNIC

at.....

and having passed the prescribed examinations

by..... **31st May, 2007**

has been awarded the **HIGHER NATIONAL DIPLOMA** in

BUILDING TECHNOLOGY

SECOND CLASS UPPER DIVISION

Certificate No C **0007161**

Candidate No..... **10/07/BUT/0020**



HEAD OF INSTITUTION

EXECUTIVE SECRETARY, NABPTEX

Dated the **1st** day of **April, 2008**



11 Appendices

11.1 Evidence of Vehicles ownership

5 7672 71
19/4/11

RECENT PASSPORT SIZE PICTURE OF VEHICLE OWNER	DRIVER AND VEHICLE LICENSING AUTHORITY (Ministry of Roads and Transport)		RECENT PASSPORT SIZE PICTURE OF AUTHORISED AGENT
	FORM A (Duplicate)	DVL FA 0359243	
FORM OF APPLICATION TO REGISTER A MOTOR VEHICLE (Registration 2 of the Road Traffic Regulations, 1974)			
4201114684110 12/10/11 Duplicate			
1. PARTICULARS OF VEHICLE OWNER			
FULL NAME OF APPLICANT: TOYOTA GHANA COMPANY LIMITED			
(BLOCK LETTERS)			
Postal Address: P.O. BOX 1644 ACCRA Tel.			
Residential Address: PLOT 15, SOUTH INDUSTRIAL AREA Tel. 0302.21.286526			
2. PARTICULARS OF AUTHORISED AGENT			
Full Name of Agent: Mr. Denb. 4201114684110			
(BLOCK LETTERS)			
Postal Address: Tel.			
Residential Address: Tel.			
DESCRIPTION OF VEHICLE (According to manufacturer's specification)			
A. CHASSIS			
Make:	TOYOTA	Colour:	1647 GREY METALLIC
Model:	L/C TRADOTX	Type:	5/WAGON
Chassis Number:	3TEBD9FJ10K005040	Year of Manufacture:	2011
Country of importation: JAPAN			
Measurements (cm) Length: 4930		Width: 1895	Height: 1890
Number of Axles: 2		Number of Tyres (Excl. Spares): 4	
TO BE FILLED BY LICENSING AUTHORITY:			
Permissible Axle Load (kg) Front: 2265		Middle: 2265	Rear: 2265
Net Vehicle Weight (kg): 2265		Gross Vehicle Weight (kg): 2990	
Permissible Loading Capacity (kg):		No. Of Persons allowed: 7	
B. ENGINE			
Make: TOYOTA 1/C PRADO TX			
Engine Number: St-0169245			
Number of Cylinders: 4		Cubic Capacity: 2700	
Horse Power:		Fuel:	DIESEL
4. PRIVATE OR COMMERCIAL USE (State the appropriate use)			
5. DATE OF ENTRY: 12/10/11			
6. REFERENCE NUMBER OF LETTER OF ATTORNEY FROM VEHICLE OWNER:			
<p>I declare that, this application to register a motor vehicle contains full and true account of the particulars, which the Law requires me to state. Date: 10/10/11</p>			
VEHICLE LICENSING DIVISION Signed: TOYOTA GHANA CO. LTD.			

REGISTRATION PARTICULARS

VEHICLES REG. NUMBER

OWNER TOM'S CHAND CO. LTD		Postal Address P.O. Box 1644 KCCRA	
Hse. No.			
Make Of Vehicle Model	TOYOTA COLOR MEET		
Chassis Number JTEBDAFT10K003046	Type Station Wagon	Year of manuf. JAN	Height 181
Country of Origin Measurements (cm)	Length 493	Width 188	Height 181
Number Of Axles Sizes Of Tyres	2 No. Of Wheels Front Middle Rear Front Middle Rear		
Perm. Axle Load (kg) Weight (kg)	NW 2265	G.W 2690	No. Of Persons 7
Perm. Capacity ENGINE	Load(kg) Make HC READO	Engine No. co2700 HP	Date Of Entry 10/10/2015
No Of Cyls	4	File No.	Private

Sign Vehicle Owner

Sign Licensing Authority

VEHICLE EXAMINATION CERTIFICATE VALIDATION



DRIVER AND VEHICLE LICENSING AUTHORITY
(Ministry of Roads and Transport)

FORM A(Duplicate) DVL FA 0354133

2011520967/0 FORM OF APPLICATION TO REGISTER A MOTOR VEHICLE
(Registration 2 of the Road Traffic Regulations, 1974)

1617111 Duplicate

1. PARTICULARS OF VEHICLE OWNER

FULL NAME OF APPLICANT: **TOYOTA GHANA COMPANY LIMITED**
(BLOCK LETTERS)

Postal Address: P.O.BOX 1644 ACCRA Tel.

Residential Address: PLOT 15. SOUTH INDUSTRIAL AREA Tel. 233-0302-221316

2. PARTICULARS OF AUTHORISED AGENT

FULL NAME OF AGENT.....
(BLOCK LETTERS)

Postal Address:..... Tel.

Residential Address:..... Tel.

DESCRIPTION OF VEHICLE (According to manufacturer's specification)

A. CHASSIS
Make: 16 DEC 2011 TOYOTA Colour: 040/SUPER WHITE II
Model: HILUX-IMV-4WD-DLX Type: PICK-UP
Chassis Number: AHTFK22G602062658 Year of Manufacture: 2011
Country of Importation: SOUTH AFRICA

Measurements (cm) Length..... 513 Width..... 183 Height..... 181
Number of Axles: TWO (2) Number of Tyres (Excl. Spares) FOUR

TO BE FILLED BY LICENSING AUTHORITY:

Permissible Axle Load (Kg) Front: 1255 Middle: 1600 Rear: 1600
Net Vehicle Weight (kg): 2790 Gross Vehicle Weight (kg): 4290
Permissible Loading Capacity (kg): No. of Persons allowed: FIVE (5)

B. ENGINE
Make: TOYOTA HILUX DLX
Engine Number: 5L-6180980
Number of Cylinders: FOUR (4) Cubic Capacity: 2986
Horse Power: Fuel: DIESEL

4. PRIVATE OR COMMERCIAL USE (State the appropriate use): PRIVATE
5. DATE OF ENTRY:
6. REFERENCE NUMBER OF LETTER OF ATTORNEY FROM VEHICLE OWNER:

I declare that, this application to register a motor vehicle contains full and true account of the particulars, which the Law requires me to state.
Date: 16 DEC 2011

Signed: TOYOTA GHANA CO. LTD.
(To be signed)

MOTOR UNIT DEPARTMENT

REGISTRATION PARTICULARS																																			
VEHICLES REG. NUMBER: EL 3773 - 11																																			
OWNER	TOYOTA GHANA CO. LTD																																		
Postal Address	P. O. Box 1644 Accra																																		
Hse. No.																																			
Make Of Vehicle	TOYOTA	Colour	WHITE																																
Model/Type	4WD D4D	PICK UP																																	
Chassis Number	ATTFK 22G603062658																																		
Country of Origin	SAFARI CA																																		
Year of manuf.	2011																																		
Measurements (cm)	Length 513	Width 183	Height 181																																
Number Of Axles	2	No. Of Wheels	4																																
Size Of Tyres	Front	Middle	Rear																																
Perm. Axle Load (kg)	Front	1250	Middle																																
Weight (kg)	N.W	2790	G.W	4290																															
Perm. Capacity	Load(kg)		No. Of Persons	5																															
ENGINE	Make/HILUX	4WD D4D	Engine No.	SL-6180980																															
USE	No. Of Cyls	4	Fuel Type	DIESEL																															
PRIVATE / COMMERCIAL	DRIV. TYPE	FRONT																																	
VEHICLE EXAMINATION CERTIFICATE VALIDATION																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>AMT. PD</th> <th>RECEIPT NO.</th> <th>DATE OF INSPI.</th> <th>STICKER NO.</th> <th>NEXT INSPI. DATE</th> </tr> </thead> <tbody> <tr> <td>16/04/2015</td> <td>800</td> <td>0582X</td> <td>16/04/2015</td> <td>16/03/2016</td> <td>16/04/2017</td> </tr> <tr> <td colspan="6" style="text-align: center;">DECC 2015</td> </tr> <tr> <td colspan="6" style="text-align: center;">VEHICLE EXAMINATION CERTIFICATE</td> </tr> <tr> <td colspan="6" style="text-align: center;">VALID FOR ONE YEAR</td> </tr> </tbody> </table>						DATE	AMT. PD	RECEIPT NO.	DATE OF INSPI.	STICKER NO.	NEXT INSPI. DATE	16/04/2015	800	0582X	16/04/2015	16/03/2016	16/04/2017	DECC 2015						VEHICLE EXAMINATION CERTIFICATE						VALID FOR ONE YEAR					
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DECC 2015																																			
VEHICLE EXAMINATION CERTIFICATE																																			
VALID FOR ONE YEAR																																			
SIGN VEHICLE OWNER																																			

DRIVER AND VEHICLE LICENSING AUTHORITY
Ministry of Roads and Transport

GT 7672-11

FORM C **Coo/ DVL FC** **552529**

APPLICATION FOR AND CERTIFICATION OF OWNERSHIP OF A MOTOR VEHICLE
(Regulation 2 of the Road Traffic Regulation, 1974)

original

1. VEHICLE REGISTRATION NO. GT 7672 -11

2. NAME OF PRESENT OWNER
(Block Letters)
Postal Address
Residential Address

3. NAME OF NEW OWNER
(Block Letters)
Postal Address
Residential Address

DESCRIPTION OF VEHICLE ACCORDING TO VEHICLE REGISTRATION CERTIFICATE NO. _____
Date _____

A. CHASIS

Make	TOYOTA	Colour	1G3/GREY METALLIC
Model	L/C PRADO TX	Type	STATION WAGON
Chasis Number	JTEBD9F110K005046	Year of Manufacture	2011
Country of Origin	JAPAN	Width	1885
Measurements (CM)	Length 4930	Height	1890
Number of Axle	Front TWO (2)	Number of Tyres (Excl. Spares)	265/65X17
Size of Types	Middle	Rear	265/65X17

TO BE FILLED BY LICENSING AUTHORITY

Permissible Axle Load (kg)	Front 2265	Middle	Rear 2990
Net Vehicle Weight (kg)	Gross Vehicle Weight (kg) 7		
Permissible Loading Capacity (kg)	No Of Persons allowed		

B. ENGINE

Make	Engine No	5L-6169245
Number of Cylinders	Cubic Capacity	2700
Horse Power	Fuel	DIESEL

DECLARATION: I DECLARE THAT, THE FOREGOING APPLICATION FOR CHANGE OF OWNERSHIP CONTAINS A FULL AND TRUE ACCOUNT OF THE PARTICULARS WHICH THE LAW REQUIRES ME TO STATE AND I SHALL BE LIABLE UNDER THE LAW FOR THE CONCEALMENT OF RELEVANT FACTS AND ANY FALSE REPRESENTATION MADE IN RESPECT OF THIS APPLICATION

TOYOTA GHANA CO. LTD

SIGNATURE OF PRESENT OWNER

FOR OFFICIAL USE: The above information has been checked and found to be correct and Approval is hereby given for the change of ownership

Place _____

Date _____

SIGNED _____
(LICENSING AUTHORITY)

form 5

MOTOR - OWN GOODS R W.A.Z 300

MOTOR VEHICLES (THIRD PARTY INSURANCE) ACT, 1958 (GHANA)

Certificate Of Insurance

COMPREHENSIVE
CERTIFICATE NUMBER
No. 0012638

POLICY NUMBER DMOGSM0080251400

1. Index mark and registration GT 2539-14 4557904 number of vehicle

A & QS CONSORTIUM

2. Name of Policy holder

3. Effective date of the commencement of insurance 21 January 2014 for the purposes of the Ordinance(s)

4. Date of expiry of insurance 20 January 2015

5. Persons or classes of persons entitled to drive*

(a) The Policy holder.
(b) Any other person who is driving on the Policy holder's order or with his permission.

Provided that the person driving is permitted in accordance with the licensing or other laws or regulations to drive the Motor Vehicle or has been so permitted and is not disqualified by order of a Court of Law or by reason of any enactment or regulation in that behalf from driving such Motor Vehicle.

6. Limitations as to use*

Use in connection with the Policy holder's business;
Use for social domestic and pleasure purpose.

The Policy does not cover -

Use for hire or reward or for racing pace-making reliability trial or speeding testing.
Use whilst drawing a trailer except the towing of any one disabled mechanically propelled vehicle

*Limitations rendered inoperative by the provisions of the Motor Vehicles (Third Party Insurance) Act, 1958 (Ghana) are not to be included under this heading.

I/We hereby Certify that the Policy to which this Certificate relates is issued in accordance with the provisions of the Motor Vehicles (Third Party Insurance) Act, 1958 (Ghana).

ENTERPRISE INSURANCE COMPANY LIMITED

Authorized Insurers

Examined ACC&A

Managing Director

M/SAPAC /N 0015470/21-01-2014--08:59:46

REGISTRATION PARTICULARS				VEHICLE EXAMINATION CERTIFICATE VALIDATION			
VEHICLES REG. NUMBER		RECEIPT NO.		DATE OF INSPI.		NEXT INSPI. DATE	
OWNER	10Y014	AMT. PD.	100	STICKER NO.	100	SIGN/STAMP	100
Postal Address	P. O. Box 1644						
Hse. No	12C RA						
Make Of Vehicle	TOYOTA COROLLA	Colour	GREY				
Model Year	81X	Type	P1 CK W				
Chassis Number	A45FK22G003071250						
Country of Origin	SAFRA	Year of manuf	2013				
Measurements (cm)	Length 513	Width 183	Height 187				
Number Of Axles	2	No. Of Wheels	4				
Sizes Of Tyres	Front	Middle	Rear				
Perm. Axle Load (kg)	Front 1255	Middle	Rear	1600			
Weight (kg)	NW 2790	GW 4290					
Perm. Capacity	Load(kg)			No. Of Persons	5		
ENGINE	Make H4 1600X	Engine No. 51-6221539		Fuel	Gas		
USE	No. of Cyls 4	cc 2078 HP	Date Of Entry				
PRIVATE / COMMERCIAL	PRIVAT	CO					

Signature of Licensing Authority
No. 1

Sign Vehicle Owner

DRIVER AND VEHICLE LICENSING AUTHORITY
Ministry of Roads and Transport

FORM C Co/o/ DVI
FC 690309

APPLICATION FOR AND CERTIFICATION OF OWNERSHIP OF A MOTOR VEHICLE
(Regulation 2 of the Road Traffic Regulation, 1974)

1. VEHICLE REGISTRATION NO. ER 3773 - 11

2. NAME OF PRESENT OWNER
(Block Letters)
Postal Address
Residential Address

3. NAME OF NEW OWNER
(Block Letters)
Postal Address
Residential Address

DESCRIPTION OF VEHICLE ACCORDING TO VEHICLE REGISTRATION CERTIFICATE NO

Date

A. CHASIS

Make	TOYOTA	040/SUPER WHITE II
Model	HILUX DLX	Colour "PICK-UP"
Chasis Number	AHTFK22G603062658	Type
Country of Origin	S/AFRICA	Year of Manufacture 2011
Measurements (CM)	513	width 176 Height FOUR (4)
Number of Axle	TWO (2)	Number of Tyres (Excl. Spare) 255/70X15
Size of Types	Front 255/70X15 Middle	Rear

TO BE FILLED BY LICENSING AUTHORITY

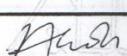
Permissible Axle Load (kg)	Front 1255 Middle	Rear 4290
Net Vehicle Weight (kg)	2790	Gross Vehicle Weight (kg) FIVE (5)
Permissible Loading Capacity (kg)	No Of Persons allowed	

B. ENGINE

Make	TOYOTA	Engine No 5L-6180980
Number of Cylinders	FOUR (4)	Cubic Capacity DIESEL
Horse Power	Fuel	

Date

DECLARATION: I DECLARE THAT, THE FOREGOING APPLICATION FOR CHANGE OF OWNERSHIP CONTAIN FULL AND TRUE ACCOUNT OF THE PARTICULARS WHICH THE LAW REQUIRES ME TO STATE AND I SHALL BE LIABLE UNDER THE LAW FOR THE CONCEALMENT OF RELEVANT FACTS AND ANY FALSE REPRESENTATION MADE IN RESPECT OF THIS APPLICATION

TOYOTA GHANA CO. LTD. 

SIGNATURE OF PRESENT OWNER
Sales Manager **SIGNATURE OF NEW OWNER**
FOR OFFICIAL USE: The above information has been checked and found to be correct and Approval is hereby given for the change of ownership

Place.....

Date..... SIGNED.....
(LICENSING AUTHORITY)

REGISTRATION PARTICULARS

GT 3294-11

OWNER
Postal Address
Hse. No
TAPAN MOTORS TRADING LTD.
P.O. Box 5016, ACORA

Model	Type	Make Of Vehicle
Pickup	N/CABIN	MITSUBISHI L200

Crasis Number : ANCTU122Z0005320
Country of Origin : SOUTH AFRICA | Year of manuf. : 2010

Number Of Axles	Measurements (cm)
	Length
Two (2)	With 1825 Height 1780
	No. Of Wheels
	Four (4)

Sizes Of Tyres			
Front	Middle	Rear	
Front	Middle	Rear	
All Year	100/90-14	90/80-14	

USE
PRIVATE / COMMERCIAL

Sign Vehicle Owner



VEHICLE EXAMINATION CERTIFICATE VALIDATION