



COMPANY PROFILE

“Strive for Impact Together”



ABOUT OUR COMPANY

AQGOLA Engineering & Management Services Ltd was established in July 2006. We offer solutions of engineering for public and private sectors, taking part in all development phases of projects, from their identification and basic conception to operation.

Our lines of business are :-

- ✓ Roads, Railways, Airports and Ports;
- ✓ Water Supply, Waste water and Sewerage Systems;
- ✓ Oil and Gas Engineering;
- ✓ Buildings;
- ✓ Project Management; and
- ✓ Procurement Management

The firm's mission is to establish AQGOLA as a leading Engineering Consultancy and Project Management Practice in Tanzania. To collaborate with other Engineering and Management firms within Tanzania and outside in order to benefit from technology transfer.



ENGINEERING

A

AQGOLA provides engineering services in connection with the development of an integrated approach to the planning and implementation of infrastructures, superstructure and services. Other abilities include all aspects of mechanical hydraulic and sanitary works.

Main areas of expertise are : -

- Infrastructure - i.e., roads/highways, airports, railways and ports.
 - Oil & Gas Engineering
 - Water Supply & Sanitation
 - Buildings

It is the policy of AQGOLA that the design stages of the project are carried out in close consultation with the clients and the design staff remains on their projects through to completion, to ensure continuity in the design, working drawings and during construction stages.



CONSTRUCTION MANAGEMENT

B

AQGOLA consultancy capabilities embrace many engineering disciplines together with operational and project management.

Main areas of expertise: -

- Contractors Pre-qualifications.
- Preparation of bidding documents and evaluations.
- Procurement Management.
- Cost Management and Control.
- Quality Assurance and Quality Control.



TRAINING

C

AQGOLA team believes in imparting the vast knowledge and experience it has accumulated to their clients.

The main areas of expertise are:

- Design Software Training
- Project Management Training
- Procurement Management Training
- Contract Management Training



BRIDGES



BUILDINGS



BRT
INFRASTRUCTURE



ROADS



AIRPORT
INFRASTRUCTURE



OIL



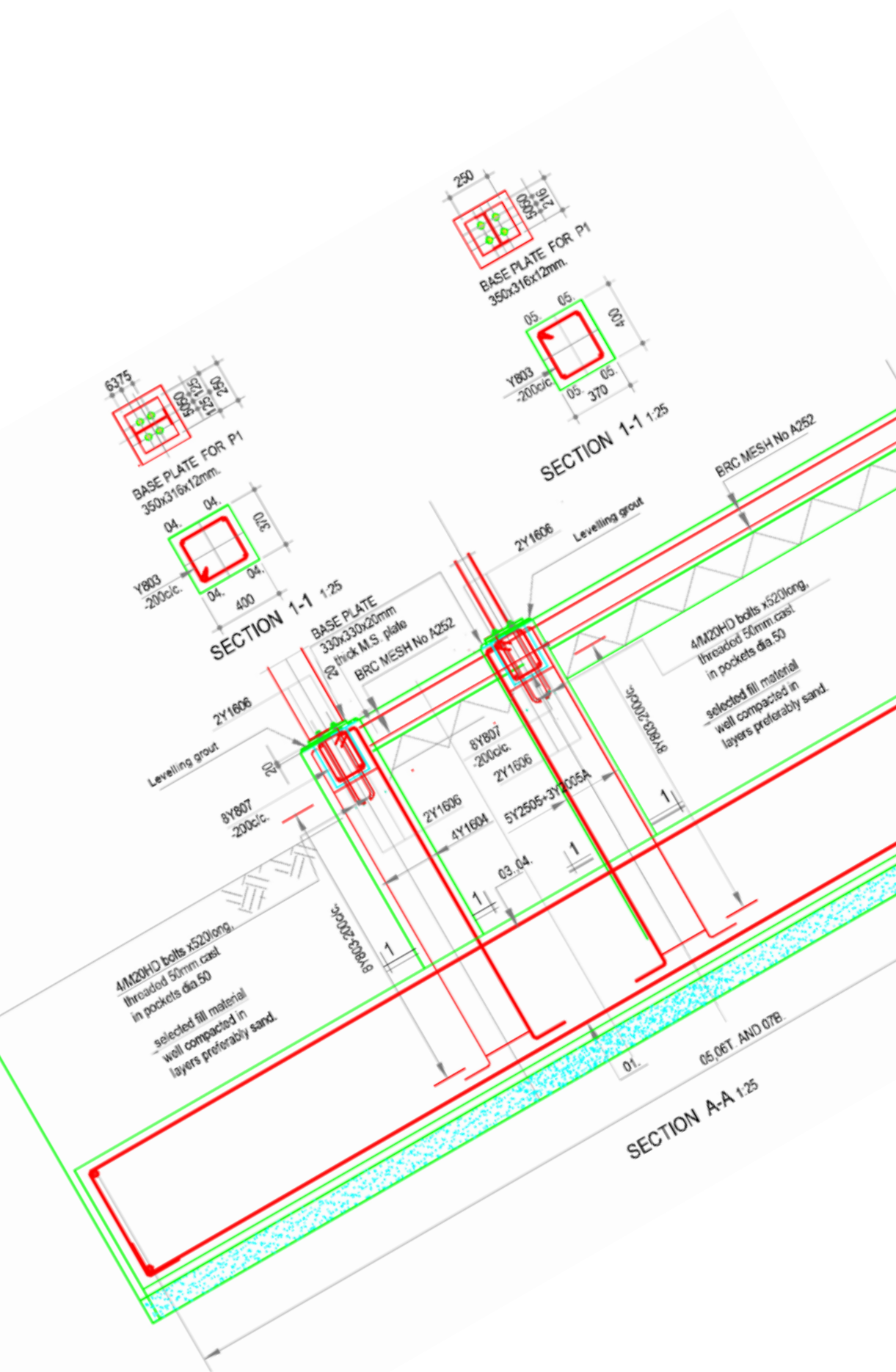
GAS
FACILITIES



RAILWAY
TRACKS

HIGHWAY

DESIGNING



FEASIBILITY STUDY & DETAILED DESIGN

AQGOLA have available staff with special knowledge in the design of roads, airports, railway tracks, ports, water supply, wastewater and storm water drainages and buildings. The firm is accustomed to working closely with Central and Local Government Transport Departments throughout the whole of the design process, from brief to supervision of construction. If necessary, reports or specialist advice can be given covering only part of the whole engineering design spectrum. Alternatively, for existing roads, condition surveys, upgrading proposals, maintenance schemes, repair contracts and site supervision can be undertaken. Every project will have unique factors. Projects will be considered on their own particular functional needs taking account of future planning, site limitations, climate conditions, maintenance etc. If required, alternative designs or specifications can be produced to allow options to be compared.

PROGRAMMING

Project programming is of prime importance to control the timing from briefing, conducting soil investigation, topographical survey and the preparation of specifications and contracts. Programming is to ensure continuity and co-ordination of design, and this should allow time for the checking and approval procedures that are appropriate to a particular project.

STATUTORY BODIES

Various authorities will need to be consulted for specifying services to be accommodated or provided i.e., (electricity, water, drainage, street lighting, road signs etc.) as well as ensuring that planning, building regulations and other statutory requirements are met. Every stage must be carefully controlled to ensure that at no stage in the dissemination of information, checking or approval is omitted and that all parties involved in the checks are alerted prior to the event.

SITE EVALUATION

An appraisal of the proposed sites or routes will be necessary to establish appropriate design and construction criteria based on the following:-

- ✓ Existing and future use of land at or adjacent to the project
- ✓ Visual Environment
- ✓ Planning regulations and restrictions
- ✓ Utility services
- ✓ Routing or communication or engineering facilities
- ✓ Geological substrata
- ✓ Hydrology of the area
- ✓ Local materials
- ✓ Condition Survey of existing roads

Alternative sites or routes may need to be studied for the same criteria to determine the best solution of route for a road or bridge.

Des

STANDARDS

Standards of materials, of design parameters and environmental impact must be decided as is appropriate to the project, its sitting, cost, programme and social importance. These standards are defined in part by the brief and regularly revised and updated so that the project construction specification and drawings clearly specify all standards.

AQGOLA are used to working with design codes or materials specifications of Tanzania / British, or other or international institutions as the need arises.

DESIGN STUDIES

Studies of alternative materials or forms of construction are carried out for each project to determine the best solutions having in mind, costs, programme, future maintenance, local materials, local preferences, environmental impact etc.

DESIGN REPORTS

Feasibility studies can be produced, which evaluate alternative routes, proposals or methods, thereby helping the client to decide on his detailed design brief. Periodic design reports are compiled stating the rate of completion of the design task and laying down the principal decisions made since previous reports. Master plans can be submitted, as an end in themselves, or as a stage in the design process, when the client can take stock of how the project is going and indicate his approval or otherwise.

CONTRACT APPRAISAL

1

Bidding Documents

- Bidding Procedure.
- Works requirement (Standard & Specific Specification).
- Condition of Contract and Contract Forms
- Technical Specifications (Standard & Special).
- Drawings.
- Other reports relevant to the project.

2

Engineering Confidential Cost Estimates

- Unit Price analysis for the works
- Cost estimates for EMP, RAP & HIV/AIDS Programs

3

Economic Assessment/Appraisal

- Cost effectiveness analysis
- Scoring and weight

4

Financial Assessment/Appraisal

- Estimated Project Costs
- Financial Plan
- Project Financial Viability
- Economic and Economic Objectives
- Financial forecast
- Financial covenants

The client can be advised on alternative forms of contract, tender procedures and methods of measurement or financial control. With the drawings and specifications, Bills of Quantities suitable to the project and the form of contract can be prepared so that tenders are called locally, nationally or internationally by the client or his agents. After receipt of tenders, reports and evaluations, based on cost, construction, methodology, alternative design and detailing special conditions or constraints on the contract can be prepared to aid the client in his decision to appoint contractors.



CONSTRUCTION SUPERVISION

AQGOLA provide partial or full-time supervision of construction depending on the needs of the client. Such supervision may include financial control, inspection of materials, or workmanship, overseeing laboratory tests, instigation of special investigation etc. In cases where the client has his own organization to provide these services, AQGOLA may be retained solely to provide technical advice during construction.

Some of the civil projects undertaken and ongoing include: -

1. Design and supervision of construction of road network, parking and storm water to Tunduma One Stop Border Post.
2. Project Management and Supervision of Construction Works of two Natural Gas Processing Plants and Transportation Pipeline from Mtwara (Mnazi bay) to Dar es Salaam.
3. Consultancy Services for Detailed Engineering Design, Preparation of bidding documents and Supervision of Works for Dar es Salaam Bus Rapid Transit (BRT) Infrastructure – Phase 4.
4. Economic Evaluation, Detailed Environmental and Social Impact Assessment, Preparation of Bidding Documents for Port Access Section and the Dar Es Salaam Bus Rapid Transit (BRT) Infrastructure - Phase 5





STRUCTURAL ENGINEERING

At AQGOLA we focus on the framework of structures, and on designing the structures to withstand the stresses and pressures of their environment and remain safe, stable and secure throughout their use by;

- ✓ Analyzing architectural blueprints, maps, reports, and topographical and geological data;
- ✓ Computing load and grade requirements, water flow rates and material stress factors to determine design specifications;
- ✓ Estimating the cost and quantities of materials, equipment and labor;
- ✓ Inspecting project sites to monitor progress and ensure the project is being constructed according to design specifications;
- ✓ Conducting studies of traffic patterns or environmental conditions to identify potential problems and assess how they will affect the project structures.





UNPAVED
RURAL ROAD

FIRM'S EXPERIENCE

August 2018 – August 2021

Tanzania Petroleum
Development Corporation

Detailed Engineering Design And Supervision Of Compressed Natural Gas (CNG) At Dar Es Salaam And Kibaha

The project entails detailed design, Environmental Impact Assessment (ESIA) and Construction supervision of five compressed natural gas (CNG) stations which includes, Two Mother stations at Mawasiliano near Magufuli UDSM hostels and Ubungo DART depot, and three daughter stations at Ferry fish market, Muhimbili hospital and Kairuki pharmaceuticals Kibaha. AQGOLA Engineering and Management Firm provides detailed design and supervision of these station. In this project AQGOLA is responsible for Environmental Impact Assessment, design and construction supervision of all civil infrastructures associated with the project.

July 2020 - December 2020

Ministry of Infrastructure,
Communications and Transportation of the
Revolutionary Government of Zanzibar

**Construction of the new Passenger
Terminal II building at Zanzibar
International Airport.**

- construction supervision services to the ongoing construction of the New Terminal (T3) Building.

September 2017 - September 2020

Tanzania National Roads Authority
(TANROADS)

**Detailed Engineering Design, Preparation
of Bidding Document and Supervision of
Works for Dar es Salaam Bus Rapid Transit
(BRT Infrastructure - Phase**

- The BRT Phase 4 corridor comprising about 30.12 Km covers:
 - (i) A section of Bibi Titi Mohamed road from Maktaba Street junction to Ohio Street junction (0.23km);
 - (ii) Ali Hassan Mwinyi road (from the junction of Ohio Street to Morocco) (5.92 km);
 - (iii) New Bagamoyo Road from Morocco junction to Tegeta (DAWASA Daladala Bus Station) (20 km); and
 - (iv) A spur on Sam Nujoma Road from its junction with New Bagamoyo Road to Ubungo junction (4 km).

-The designed infrastructure consists of not only the roadwork that form the busway and mixed traffic but also a range of other components, the infrastructure components include:

- Busway infrastructure;
- Mixed traffic infrastructure;
- Stations;
- Intermediate transfer stations;
- Terminals;
- Depots;
- Control centre;
- Traffic control signals;
- Integration infrastructure;
- Park and ride facilities;
- Landscape;
- Public utilities

September 2017 - September 2020

Tanzania National Roads Authority
(TANROADS)

Economic Evaluation, Detailed Engineering Design, Detailed Environmental and Social Impact Assessment, Preparation of Bidding Documents for Port Access Section and The Dar Es Salaam Bus Rapid Transit (BRT) Infrastructure - Phase 5

- the project is covering the following sections:

(i) Port Access Road – Bandari road and Mandela road – (Dar PortNyerere Bridge approach road (2.975km) and (ii) BRT Phase 5 - Mandela Road from Nyerere Bridge approach road to Buguruni to Ubungo (12.895km), Kwa Aziz Ally

– Veterinary corridor referred to here as Aziz Ally – Sudani – Veterinary Mandela junction (3.440km), Mandela road to Tabata route referred to as Tabata Relini junction to Segerea Daladala Terminal (6.660km) and TabataRelini - Kigogo - Kawawa road roundabout (2.779km).

- The designed infrastructure is as per BRT 4 above.

November 2016 - May 2019

Tanzania Revenue Authority
(TRA)

Design and Supervision of Construction One Stop Border Post (OSBP) at Tunduma border crossing.

-Detailed design of the structural component of the buildings - main 2 storey main building, passenger and trucks inspection sheds, passenger toilets, warehouse, & other associated buildings and civil works mainly approach roads concrete carriage ways for trucks&otherpassengervehicles,carandtrucks parking and associated drainageworks, preparation of detailed structural and civil drawings and bar bending schedules and supervision of construction of the works to completion.

September 2013 - December 2016

Department of International Relations and
Corporation (DIRCO) – Ministry of Works,
Republic of South Africa - Tanzania

**Consultancy Services for Supervision of
Construction Works of South African Chan-
cery Building in Dar es Salaam, Tanzania**

-To manage and supervise construction of the structural and civil component of the above works, i.e. issuing site instructions, authorizing concreting works on conformity, attending site meetings and advising on key issues pertaining to variations on site for the good of the project and cost control

October 2012 – June 2016

Tanzania Petroleum Development
Corporation (TPDC), – Tanzania

**Consultancy Services for Project Manage-
ment and Supervision of Construction Works
of Two (2) Natural Gas Processing Plants and
Transportation Pipeline from Mtwara (Mnazi
Bay) to Dar es Salaam (Tegeta) (532 km)**

- To manage and supervise construction of the above works by supervising the construction, report preparation i.e. progress report and financial appraisal, monthly meetings, contractor payment certification and final project conclusion.

June 2006 - October 2011

National Museum of Tanzania,
Dar es Salaam, Tanzania

**Design and supervision of construction of
House of Culture and National Museum of
Tanzania**

- Designing of house of culture and National museum of Tanzania for National museum Tanzania and supervision of construction to completion . Project consists of 3 storey buildings and remodeling of two existing buildings and associated external works.



Aqgola Engineering & Management Services
Consulting Engineers • Project Managers • Planners

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