

CURRICULUM VITAE

Personnel Particulars

Name Mutasim Taha Mohamed Elias
Profession Civil Engineer
Nationality Sudanese
Date of Birth 1958
Marital Status Married

Academic Qualifications :

Oct. 1983 B. Sc. Honors in Civil Engineering University of Aleppo- Syria
May 1994 M. Sc. Degree in Road Technology University of Khartoum – Sudan

Membership of Professional Societies:

- Member of the Sudanese Engineering Society-Sudan.
- Member of International Society for soil Mechanics And foundation Engineering.
- Member of the World Road Association.
- Member of the International Forum for Rural Transportation and Development.

Key Qualification :

23 years Experience in the design (Geometrical /Structural) and supervision of Construction of Road Projects special interest in :

- Provide professional services in the position of Resident Engineer .
- Pavement evaluation, rehabilitation remedial measures
- Feasibility study, preliminary and detailed engineering design for roads , traffic. surveys analysis and forecasts, highway material studies.
- Geotechnical investigation, Soil /Material testing, foundation design and recommendation, soil stabilization and Quality Control.

Experience Records :

Jan.2004 to Aug.2007 Provide professional services in the position of **Resident Engineer** for hereunder three projects :

(I) Al Kamp – Maqbanah Road and Attorbah-Tor Al Baha Road Project .

(II) Omdurman - Al Multaga Rehabilitation Project – Contract 2 (Km 163+000 to Km 310+000).

(III) Block 5A , 5B(Tharjath) and Block 8(Dender); field oil operations.

Feb.2007 to Aug. 2007 (I) Al Kamp – Maqbanah Road and Attorbah-Tor Al Baha Road Project .

Client : The Ministry of Public works and Highways, Republic of **Yemen**

Financing : Arab Economic & Social Development ; 12,500,000 US \$

The Construction works carried out involve :

* Unclassified excavation. * Borrow excavation.

* Provision of structural works – Drainage structures / Retaining walls.

* Spreading , watering , mixing and compaction of Granular Base course 150 mm thick material and shaping to the required levels and slopes.

Dec.2005 to Jan. 2007 : (II) Omdurman - Al Multaga Rehabilitation Project – Contract 2 (Km 163+000 to Km 310+000).

Project Length: 150 Km

Client : **Dams Implementation Unit**, Presidency of the Republic of **Sudan**

Financing : Ministry of Finance & National Economy, Government of the Republic of Sudan

Contract Amount: 35,878,976. 91 G SD

The rehabilitation works involved in the overlay section of this contract consist of :

- * Potholes and edge repairs;
- * Overlay of 50 mm of Asphalt Concrete Wearing course (7.0 meters wide);
- * Reinstatement of shoulders with subbase material (2x 1.5 meter wide);
- * Provision of kilometer posts, culverts markers, traffic signs and road marking.

The reconstruction work involve the following:

- * Scarifying the existing asphalt down to a depth of 100-150mm;
- * Addition of 50 -100 mm natural gravel base material to the scarified surface.
- * Spreading , watering , mixing and compaction of the added with the scarified material and shaping to the required levels and slopes.
- * Construction of 200 mm crushed stone base course ;
- * Construction of 70 mm Asphalt Concrete Wearing course (7.0 meters wide);
- * Reinstatement of shoulders with subbase material (2x 1.5 meter wide); and
- * Provision of kilometer posts, culverts markers, traffic signs and road marking.

Jan. 2004 to Dec.2005 : (III) Block 5A , 5B(Tharjath) and Block 8 (Dender) oil field Project:

Client : White Nile Petroleum operation Company

Financing : White Nile Petroleum operation Company

The Construction works carried out involve :

- * Construction of **Hanger Cum Warehouse .**
- * Construction of **Tharjath Air Strip Widening.**
- * Construction **Tharjath APRON.**
- * **Construction of oil well pad.**

Detailed duties of Resident Engineer :

- * Takes over-all technical , administrative and Financial responsibility for the project on site.
- * Sets objectives and prepares programs and schedules of work for construction supervision
- * Organizes the supervision activities on site and manages staff.
- * Manages site supervision performance and seeks improvements in coordination with head office .
- Be knowledgeable of the details of the contract documents (Contract conditions, specifications, B OQ, geotechnical and other reports, drawings...).
- * Ensures that preparatory engineering works including setting out for alignment and elevation are performed accurately prior to the Contractor's work.
- * Liaises and coordinates with the head office , the client ,the contractor and other concerned government agencies .
- * Ensures that the contractor maintains a good planning system and that the work program is well phased . Approves the personnel of the contractor and rejects any person during construction if found unsuitable.
- * Directs the supervision activities to ensure that the permanent works are carried out to correct line and level and that the materials and workmanship conform to specifications and intervenes to solve problems and resolve obstacles.
- * Carries out a daily check of the contractor's Daily Report that shows the planned activities and rejects or accepts the Contractor's request for work approval. Materials, shop drawings and samples shall be reviewed for approval within two weeks of submittal.
- * Reviews and approves monthly certificate ensuring that quantities included are correct.

Responsible for documentation to the client ,including :

- Monthly report*
- Monthly payment certificate to the contractor.*
- Copy of Lab Tests*
- Minutes of important site meetings to client and head office.*
- * Ensures that the Contractor's work methods are satisfactory and in accordance with specifications, that security and safety on site are well managed , plant layout and temporary works are acceptable , and that insurance policies are in place.*
- Oversees work progress against the program and ensures that the project control (time, cost and quality) process is properly implemented.*
- * Holds regular site coordination meetings and monthly progress meetings and ensures that minutes of meetings are prepared and issued to concerned parties.*
- Approves site drawings on diversions and ensures constant follow – up on the maintenance of diversions including warning and safety signs.*
- Oversees checking and inspection of materials delivered to the site and sources of supply.*
- Instructs and supervises Contractor's materials testing arrangements and tests carried out by the Contractor or by others.*
- Approves or rejects samples of materials submitted by the Contractor after testing.*
- Oversees Preparations for work and inspection of materials such as concrete quality at the mixer and on site.*
- Oversees the inspection of works to ensure that workmanship conform to requirements , keeps diaries of the history of construction works and all important events on site , particularly items which may affect the dates of completion or possible claims from the contractor , keeps a diary of weather conditions and temperature as well as number of days work was halted.*
- Carries out the initial site survey before grading works are started , checks variations in foundations details and bearing capacity foundation soil , and checks construction*
- * Oversees site record books and documentation including progress photographs, list of day works in progress, labor , work inspected , instructions and other matters.*
- * Reviews and approves as – built drawings prepared by the Contractor.*
- *Reviews and evaluates claims received from the Contractor.*
- * Directs measurement of works , generally undertaken jointly with the Contractor, ensuring that all quantities are agreed with the Contractor promptly after an item of work is finalized . All record drawings for measurement are agreed. Quantities shall be signed by the Contractor and the engineer's representative.*
- * Oversees record of Day Works including labor and material and signature of Day Work sheets promptly. Allocates Day work to the relevant parts of the BOQ.*
- * Checks and signs the Contractor's monthly statement.*
- * Receives and negotiates Contractor's rates for additional or varied items.*
- * Investigates any variations in the prices of materials claimed by the Contractor , as well as rates for extra time which should be carefully documented in terms of plant , labor , material and time taken so that the assessment of the rate is done objectively.*
- * Maintains a file for all guarantees and certification of material and equipment.*
- * Carries out a thorough inspection at the end of the defects liability period in the presence of the client and Contractor's representative and prepares a report on the Contractor's fulfillment of contractual obligations and recommends the release of retention money and performance securities.*

Jan. 2003–Nov. 2003 Material Engineer for the construction of Atbara – Haya Road project (length 280 km).

Sep.2002–Dec. 2002 : Traffic Engineer for Al Souda – Amran road ;
Yemen

Feb. 2002 to Nov.2002

Associated Consultants & Partners –Senior Material/Road Engineer
Senior Highway Engineer Responsible for pavement design/Evaluation, Material characterization and Construction supervision associate with Newtech Industrial and Engineering group:-

- The construction phase of the pipe line Access Road Keilak-Um Sayala 496 Km).
- Port Sudan –Haya rehabilitation road project (204Km.) ; pavement design/Evaluation phase.

Design and construction supervision of 5 Km link road between the refinery (at El Gaily) and the new electrical generating power station.

Nov. 1999 to Dec. 2001

Senior pavement/Material Engineer, Associate with :
Newtech Industrial and Engineering Group :

- i. * **Design** of link Roads (21 Kms) for Atbra river bridge.
- ii. ***Preparation** of the feasibility study for Keilak-Um Sayala pipeline Access Road (496 km) including technical reports, preliminary engineering design, drawings, plans , bills of quantities and cost estimates
- iii. ***Detailed** Engineering design of Keilak Um Sayala pipe line Access Road (496 km) .

The Main tasks and duties are :

- -Detailed sub grade soil investigation, testing and evaluation.
- -Characterization of construction materials available sources for earth work, pavement work and concrete work.
- -Providing detailed soil / geotechnical investigation for A30 Bridge crossing (widths 10-100 meter).

June 1994 – Nov. 1999 : Senior pavement /Material Engineer, Associated with the following consulting firms:

A. *Al Agib Group Consultant Engineers :*

- i. Detailed Engineering Design of Al Obeid Bara Road A 60 Km asphalt road with seven reinforced concrete bridges.
 - Detailed geotechnical investigation, material survey and testing.
 - Geometrical/Structural Design.
 - Preparation of contract documents.

- ii. Detailed Engineering Design of Western Nile Road A 170 km asphalt road (linking Omdurman to ELM atama) with 6 No. road bridge (5-25m width) and 20 No. pipe culverts.
 - Diagnostic soil/Material investigation.
 - Technical specification
 - Technical Reports.
 - iii. Design/Construction Supervision of Nyala-iedd alfursan road project 90 km runs a terrain of varying nature granular soil, heavy clay soil, it crosses over 25 khours, the road constructed using Intensive labor Based Technique.

The Main tasks and duties are :

 - Providing technical assistance and training in soil, material survey and pavement field investigation and testing.
 - Providing technical assistance to the International labor organization (ILO) in the field of constructing road by labor Intensive methods.
 - Detailed geotechnical investigation of bridge crossings and appropriate structural design adopted.
 - Preparation of special contract documents appropriate to the project nature.
 - iv. Design /Evaluation of Khartoum City (Northern Railways) Streets and drains Rehabilitation project (client: Khartoum Central Development Authority).
 - Extensive Sub grades /pavements investigation using Dynamic cone penetrometer in conjunction with trial pitting and laboratory testing.
 - Make use of over 40 traffic counts (conducted at junctions and road sections) to predict the pavement design loads.
 - Determining the Residual Structural Strength of pavements. Providing the required structural strength of pavements.
- B. Associated with Newtech Industrial Group :**
- * Construction Supervision of Gaili-Shendi road project (150 km).
 - Aug. 92 to May 94 Research study at the Building and Road Research Institute (BRRI), University of Khartoum for M. Sc. Degree In Pavement Evaluation – Road Technology.

Research project on use of Dynamic Cone Pentrometer (DCP) for Design /Structural Evaluation of Roads and Airfields. Fieldwork was carried out at different areas in Sudan and laboratory California Bearing Ratio (CBR)- (DCP) Correlation were developed . From Data analysis it was concluded that a certain CBR-DCP Relationship exists for pavement Evaluation/or Design purposes. The study also established the relationship between the DCP Tests and pavement construction Depth, Layer Strength, sub-grade breading strength and pavement Field Density and in-Situ Moisture Content.

The Conclusion made is consistent with the result, analysis and interpretation obtained by various authors and consultant Engineers.
 - July 92-July 93 : Site Engineer Al Obiedly Construction Company (Qatar), Construction stage of the Khartoum State Roads and Drains rehabilitation project. (Financed by IDA-World Bank) Responsible for rehabilitation work Including Earthwork, Concrete and asphalt work on behalf of the Contractor.
 - May 91 June 92 : Assistance Resident Engineer in Agib Group –Howard Humphereys – JV for the construction Supervision phase of the Khartoum State Roads and Drains Rehabilitation project, main activities were :

- *Supervision of the construction work.
 - *Testing Checking and Approving Materials
 - *Administration of contract i.e Site Requests, Site Instruction, follow-up of variation orders, reporting ...etc.
- Mach 90 May 91 Senior Highway Engineer, Al Agib Group-Howard Humphrey- joint Venture (Consulting Engineers) in the Evaluation phase for the Rehabilitation of Greater Khartoum streets and Drains project.
- June 89 –Feb 90 Highway Engineer with the following consulting firms.
- Muir-Wilson (Ireland) in evaluation the existing 27 Km Network Roads of Kenana Sugar Factory.
 - Building and Road Research Institute, University of Khartoum (Technical –Assistance to Road and Bridges Public Corporation) for Singa –Damazien Highway Road (150 Kms).
 - Newtech Industrial & Engineering Group (Sudan) in Association with Brain Colquhoun (British Consulting Engineers); Employed as Senior Pavement Material For the structural evaluation and detailed geotechnical investigation for Western Sudan Airports(Geniena, Nayala and El Fasher) Including the 3-air –port access roads.
- Dec. 88- June 89 Cood Bilizard (British Consultant Engineers) In the assessment detail inspection of the White Nile Steel Bridge Connecting Khartoum with Omdurman.
- Detailed inspection carried out in a systematic manner. It included a close examination of all inspect able parts of the bridge all observations were logged on standard data sheets. Where specific comment was required, separate notes, sketches and photographs were prepared to ensure accurate recording of the data.
- Assessment rating was adapted.
- For inspection and assessment purposes the bridge was divided into separate zones, each zone including elements of the bridge which could be inspected from the same location. Performa were prepared listing the elements to be inspected and the results of the inspections were later transferred to master summary sheets for the main trusses, the cantilevers, and the piers and joints. Where particular defects were found the defect was fully defined to provide information for design of repair details.
- Tests were carried out to determine the following:
- ❖ How well the bearings are functioning
 - ❖ Deflections under live loading.
 - ❖ Residual stresses under dead load only; and changes in stresses due to the application of the live loads
- Using the data gathered during the inspection and structural analysis based on this data, the state of the whole bridge was assessed taking account of the client intention for its future use.
- April 86-Nov. 88 Municipality Engineer in the Roads Department of the Khartoum Engineering Commission. The main activities were:
- Geometric and Structural Design.
 - Preparation of Technical, General specification and tender

- contract documents.
- Tenders Evaluation.
- Supervision and Quality Control

March 84 – May 86 Employed as an Assistant Resident Engineer, Misr (Egypt) Concrete Development Company (Sudan Branch) Participated in executing the following construction projects:

*College of Science, Cairo University,.

*Khartoum Bank Tower

*Unity Bank Tower

*El Barka Bank Tower

*Khartoum South Water supply project.

Nov. 83- Feb 84 Under training with the military works cooperation Damscous – Syria, received very valuable training in the main aspects of airport design in Syria, including runways, Landing strips, taxiways and parking areas.

June78- Oct. 83 Graduated with B. Sc. Honour in Civil Engineering

Summary and Task & Assignment of Sayed Mutasim :

Sayed Mutasim is project manager for the field work activities and design activities shall be the head and leader of all Engineering staff engaged in the various field and site office activities.

Knowledge of Languages :

	Speaking	Reading	Writing
Arabic	Excellent	Excellent	Excellent
English	Very good	Very good	Very good

Telephone: 0155329293 - 0155329294
0918022476 - 0122674537