

SABA ENGINEERING PLC

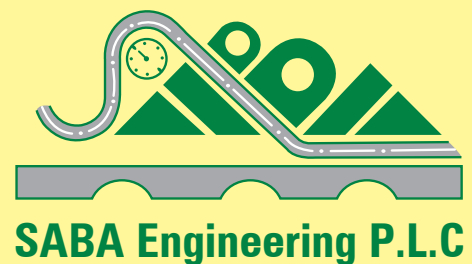
NEWSLETTER



REMARKABLE PERFORMANCE: A CONTRIBUTION TOWARDS THE REALIZATION OF THE NATION'S ROAD NETWORK DEVELOPMENT

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SABA Engineering P.L.C

Vision Statement:

To be a dependable construction and consultancy Engineering service and product provider nationally and internationally

Editor's Message



Warmest Ethiopian New Year greetings to our esteemed customers, staff, management members, business partners and shareholders of SABA Engineering P.L.C

Wishing its readers a happy and prosperous New Year 2002 E.C, this issue contains a series of informative news articles on the major activities of SABA Engineering in the last four months. The publisher has made a focused effort to present an

in-depth coverage of the main accomplishments of the Company in the reporting period. Included among these events are training sessions held in connection with ISO certification and material testing laboratory, SABA's participation in the Capacity Building Program as Construction Management Consultant Company as well as the findings of the final inspection and acceptance of the Kafu-Masindi Road Project under taken in Uganda.

The challenges that a team of SABA staff faced while carrying out our services in one of the national road projects is the cover story of this edition. The visit of Eng. Samson Bekure to Librex Group in Lebanon, partnership discussion with international

company and meetings held on internal issues as well as GTZ Auditor's visit to SABA head office are all included in this edition. This issue also lists SABA's ongoing and notable completed projects in the year 2001 E.C to give you up-to-date information.

Wishing you all a happy Ethiopian New Year once again, we express our hope that you will enjoy reading this publication and help to improve future issues by your contribution.

Please send us your views observations and comments.

Enjoy the newsletter!

Thomas Lulseged
Head of Public Relations Service

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MESSAGE FROM THE MANAGING DIRECTOR



I feel greatly honored to wish our esteemed clients and business partners as well as staff and management members of SABA Engineering PLC and their beloved families, a prosperous and happy Ethiopian New Year.

Unfortunately, we have seen business establishments that we once envied as the most able and strong crumble under the weight of the prevailing economic and financial crises. For SABA engineering PLC, operating in international arena, the crisis had been most challenging. In fact, the year 2001 has been the most difficult year since SABA's transformation into one of the nation's major multidisciplinary contracting and consulting engineering firm. The year has also been daunting in that our tradition of resilience and skill of turning adversities into opportunities have been put to a test. It is precisely because SABA has passed the test that I remain proud of the company's resilience and dedication. It is also on God's grace, that I am able, on behalf of the management members and my self to wish you a heartfelt - **Happy Ethiopian New Year!!!!**

Despite the challenges, SABA is set to consolidate its position in the coming new-year as it is committed to excellence in quality service, a commitment that is soon to be reaffirmed by ISO certification of the company. This recognition will help and encourage the speedy establishment of a new Enterprise Resource Planning /ERP/ with the support of shareholders and the dedication of the management staff and employees. Our commitment to excellence has been evidenced by the recently initiated strategic plan study of SABA that has been prepared in-house with the participation of qualified and committed members. As all the necessary preparation of the new plan has been completed, I can proudly announce that and new-year will see its implementation.

This is also to assure all stakeholders at all levels that the New Year will bring tremendous opportunity to SABA which in turn complement and positively impact the Nation's endeavors, particularly in the infrastructure development sector.

Calling for prompt implementation of the newly-set strategic plan in the coming year that assures us a pivotal position in the engineering services, I wish you once again a prosperous new year !!

PDCA Gives Awareness Training on ISO 9001-2008 Requirements for SABA Management Staff



Ato Abebaw Zelalem, General Manager of PDCA Engineering PLC giving presentation



In-house ISO Training for management members by Ato Tewodros Mekonnen, Quality Assurance & Management Expert

On May 19, 2009, PDCA Engineering PLC, sub-contracted by gtz International Services Ethiopia to facilitate QMS implementation in Engineering firms, held ISO 9001-2008 Requirements Awareness Session for SABA managing staff

in collaboration with in-house quality experts at the company's conference hall. PDCA is working with various Contracting, Consulting and Architectural Engineering companies which are included in gtz IS Tier-I and Tier-II Capacity Building Programs

(UCBP), co-owned by Ministry of Education and Ministry of Capacity Building.

At the opening event of this awareness session, Ato Abebaw Zelalem, the General Manager of PDCA Engineering PLC, gave a brief presentation about his firm-Plan, Do, Check and Act (PCDA) as well as a precise and concise awareness on ISO.

Just before this session, an in-house ISO 9001-2008 Awareness Program was also staged for all SABA management and staff members. The training helped the attendees to familiarize themselves with the requirements of ISO 9001-2008 and its merits that include structuring corporate thinking, improving customer satisfaction, increasing return on investment (ROI) as well as building organizational capability.

SABA Offers Material Testing Laboratory (MTL) Training for gtz IS Tier-I Group Construction Management Consultant Companies (CMCc)



Ato Ayehutsega Awegchew, MTL division head giving the theoretical part of training



The trainees taking practical training in SABA's MTL

SABA Engineering PLC has entered into a contract agreement with gtz International Services Ethiopia to provide with material

testing laboratory training for Tier-I group of Construction Management Consultant Companies (CMCc) of the University Capacity Building Program. Accordingly, SABA has provided the training in this specific area for sixteen engineers from four CMCc. The theoretical part of the training that commenced on May 20, 2009 included on-the-job-training where the trainees have been supplied with appropriate manuals as specified in the contract.

With the completion of the program, the trainees acknowledged the depth of understanding they acquired about Material Testing Laboratory (MTL) from the training, especially the practical component as they were on actual material testing site at SABA's Geotechnical Engineering Department. They further commented that the training has been helpful in upgrading their capacity as Consulting Engineers. Similarly, SABA also provided the same training to Tier-I group infrastructure companies.

East China Investigation and Design Institute (ECIDI) Holds Meeting with SABA

The East China Investigation and Design Institute (ECIDI) business delegation held a second meeting with SABA Management counterpart at SABA conference hall on May 29, 2009. Among



SABA management members on a meeting with the ECIDI business delegation

need to be addressed if greater cooperation were to be achieved. A consensus was reached to assign a focal person for the activity and to revitalize the communication & information exchange between the two companies.

The meeting was concluded after discussing on upcoming projects in Ethiopia and the strategy required to make use of them. It will be recalled that ECIDI, a subsidiary company of China Hydropower Engineering Consulting Group Corporation. It is to be noted that the "clove-leaf" design of Gotera Intersection Road has been carried out by ECIDI.

other business issues, the meeting evaluated the strength and shortcomings of the cooperative activities between the two sides since the first meeting held on

September 18, 2008. On the ECIDI side, the issue of communication gap and lack of focal person in the cooperation efforts were pointed out as the chief drawbacks that

SABA Management Members Review Performance Evaluation Procedure



SABA management members discussing the performance evaluation procedure

On June 19, 2009, SABA management members reviewed the interim performance evaluation format and

implementation guidelines at SABA conference hall. The meeting examined the merits and demerits of group and individual

appraisals focusing on the issue whether retroactive evaluation or starting from effective date is a better approach to take.

After a careful assessment, the management agreed to apply individual appraisal in which all employees will be evaluated by their immediate superiors. The findings of the performance evaluation of a subordinate staff

will be presented to the next authority in line for approval where he/she is highly advised to inspect the presented results of the performance evaluation thoroughly before affirming that the result is free from bias,

prejudice, nepotism and favoritism.

The performance evaluation will be effective as of September, 01 2009 and evaluation will not be conducted retroactively.

Ministry of Works and Urban Development Signed a Training Contract with SABA



The Trainees taking theoretical training on usage of surveying equipment



The Trainees taking theoretical training on material testing laboratory management and operations

A contract agreement between the Ministry of Works & Urban Development and SABA

Engineering PLC has been signed on April 21, 2009 for the project of consultancy services for

the establishment of Regional Construction Material Testing Laboratories.

As the ministry disclosed in the contract document, the lack of well-equipped laboratories in regions and existence of only a handful laboratories, most of them concentrated in Addis Ababa, has created a situation where the costs and quality of tests for the construction industry in general and the Ministry in particular have been negatively impacted. Thus, as part of National Capacity Building Program, the Ministry has taken the initiative to establish laboratories for material testing in eleven regional towns and to equip them with the necessary laboratory facilities and surveying equipment. The Ministry floated a bid to qualified consultants that could undertake the project. As SABA is one of the leading consultants in the area of materials testing in the country with its own modern materials testing center, the Ministry of Works & Urban Development Awarded the project to SABA Engineering PLC.

The objectives of the project include training the manpower required for the management and operation of the regional laboratories. SABA is also required to offer training in the use of surveying equipment to relevant regional staff, produce a training

module, deliver the equipment to regional bureaus, train laboratory staff on the use of the equipment as well as providing post-installation support.

Currently, the bulk of the project has been successfully

accomplished, except for the post-installation support that involves devising mechanism to deal with unforeseen errors during installation of equipment and provisions for documenting and evaluating the performance of the laboratories.

gtz International Services Ethiopia Awards Certificate to SABA on Construction Management



Capacity development program closing ceremony at gtz IS head office

to June 30, 2009. The aim of the program is to enable participants to handle and manage large-scale construction projects to the best satisfaction of clients and demonstrate its readiness for ISO 9001:2008 Quality Management System certification.

Under the UCBP, 13 universities are being built throughout Ethiopia with the full funding of the Ethiopian Ministry of Education and that of Capacity Building. As gtz International Services Ethiopia is the project management and implementation agent, the UCBP is not only building universities but also developing the capacity of the Ethiopian construction sector by a parallel Capacity Building Program, targeting construction management consultancy (CMC) companies –Tier I as well as Architects and Engineers – Tier II.

Participating companies also gear their organizations towards implementation of the quality management system ISO 9001:2008, a powerful management tool created by



Eng. Kebede Telila, SABA CMC team coordinator receiving certificate on the closing ceremony

gtz International Services Ethiopia awarded a certificate to SABA Engineering PLC on July 09, 2009 for its participation in the

University Capacity Building Program (UCBP) as a Construction Management Consultant Company (CMCc) from November 1, 2008



The CMC training engineers conducting skill transfer for SABA management members and concerned staff

the worlds' largest standards organization. The system enhances performance by applying international standards, tools and instruments. The system is designed to help companies upgrade quality at reduced costs and capacities to meet deadlines.

SABA Engineering is a partner in the Capacity Building Program. Affiliated to the program is a construction management team in the company, comprising of one senior engineer as a coordinator and five junior engineering staff. The team has successfully completed an 8-month intensive training on modern construction management in the University Capacity Building Program

(UCBP). The task focused on introductory training in Addis Ababa and intensive on-the-Job-trainings at UCBP construction sites. The training includes developing skills in controlling quality, controlling cost, reporting and documentation. Furthermore, the participants took part in the preparation of the Final Report – Construction Project Management Manual at UCBP.

After the team returned from the project sites, it was able to transfer the knowledge and experiences it acquired during the eight months theoretical and practical training to the appropriate SABA managers and staff members. The experience

increased the operational capacity of our company and therefore strengthened the technical and management skills of SABA's construction department. What is equally important is that the certificate that the team received from gtz International Services Ethiopia enables SABA to compete in international as well as local government construction management bids.

The certificate award ceremony was held at gtz IS head office on July 09, 2009. On the occasion Eng. Kebede Telila, SABA CMC Team Coordinator, briefed the attendants of the ceremony, about SABA Engineering's achievements and highlighted SABA's experiences in the Capacity Building Program representing CMCC – Tier I Group. Similarly, W/rt Debrework Mulugeta DB, Tier-I Program Coordinator of gtz IS also expressed her gratitude to SABA Engineering for its active participation and role in the program, citing its material testing laboratory training for gtz IS CMCC Tier I engineers as one of the most valued by all that took part in the program.

SABA Holds Kick-off Meeting for the Approval of Strategic Plan Implementation

The Kick-off meeting for strategic plan discussion attended by all SABA management members was held at SABA Conference Hall on August 19, 2009. Eng. Samson Bekure, the Managing

Director, opened the meeting by welcoming the attendant managers and expressing his appreciation of the effort of the committee that prepared the draft document presented for

the discussion. Members of the strategic plan preparation committee are Ato Girma Beyene, Deputy Managing Director for Resources; Eng. Kebede Telila, Construction Department Head;



Kick-off meeting at SABA conference hall

Ato Haile Tilahun, Management and Monitoring Service Head and Expert; Ato Seifu Eshete, Planning and Monitoring Service Head and Ato Tewodros Mekonnen, Quality

Assurance & Management Expert.

Ato Girma Beyene gave a short briefing about the strategic planning and its significance to the company. On his part, Ato Haile gave a brief presentation that dealt with Macro Environment analysis. Similarly, Eng. Kebede and Ato Seifu took turns to discuss Industry Analysis with respect to businesses in consultancy, construction and concrete poles production. The meeting continued for three more days and ended in success.

Eng. Samson Bekure Visits Librex Group S.A.L Head Office in Beirut, Lebanon



Eng. Samson Bekure, MD of SABA holding discussion with Mr. Dany Bechanlani, Vice President of Librex Group

The Managing Director of SABA, Eng. Samson Bekure and SABA's Public Relations Service Head, Ato Thomas Lulseged, visited Librex S.A.L's head office in Beirut, Lebanon on August 17, 2009. The visit was planned to discuss about Librex's product, Waterex - an atmospheric water

dispenser, for which SABA is a sole agent in Ethiopia and Juba, South Sudan.

The visitors were warmly received at the Librex S.A.L's head office by Mr. Dany Bechanlani, Vice President of Librex Group. Per the visiting schedule, a

welcoming session was held at the head office in which Mr. Dany Bechalani thanked Eng. Samson Bekure for paying a visit to Librex Group despite his busy schedule. The vice president followed his welcoming remark by a brief presentation about his company and a description of the company's new products Crystello: a digital water filter, and Ritello: a water-based vacuum cleaner.

Eng. Samson Bekure in turn thanked the Librex Group for the warm welcome and briefed his hosts about SABA Engineering's activities. Subsequently, the two sides held a successful discussion on strategic mechanism of marketing Waterex units. On the following day, the visitors observed a detailed demonstration of Ritello presented by



Mr. Dany Bechanlani, demonstrating Ritello water based vacuum cleaner for Eng. Samson Bekure



Meeting with Mr. Sam Bechanlani, President of Librex Group

Mr. Bechalani and conducted a quick tour of the different departments and services at the head office. The visitors learnt that the company has a

very structured and organized marketing and after-sales service departments which play a vital role in accelerating the company's daily-sales rate.

gtz IS ISO 9001:2008 Auditors Visit SABA Engineering PLC Head Office

gtz International Service's ISO 9001:2008 Auditors team led by Mrs. Anna Fuchsmann, Technology Transfer Head of gtz IS, visited SABA Engineering PLC on August 27, 2009. The team consists of two co-auditors from gtz IS W/rt Meron

Mohammed, QMS Assistant and MS. Renate Schindlbeck, Tier-II Program Coordinator as well as Ato Akililu Tadesse, Deputy General Manager of PDCA Engineering PLC. The aim of the visit was to conduct an ISO 9001:2008 gtz IS third party audit

Next, the visitors held an important meeting with Mr. Sam Bachalani, the president of Librex Group. The meeting focused on direct sales marketing strategy which has been found effective in marketing the new Ritello water-based vacuum cleaner and Crystello I8 Model. Finally, the two sides agreed to send one marketing expert to Ethiopia to provide theoretical and practical training on direct sales marketing strategy to SABA's marketing staff. According to their agreement, a SABA staff would also travel to Lebanon to receive on-the-job-training for one month. The two sides also agreed to expand SABA's sole agency territory which subsequently would cover South Sudan, in addition to Ethiopia.

Direct sales marketing strategy is one of marketing tactics that focuses on contacting the end user directly through sub-distributors capable of giving detailed demonstration for the end users about the product.



The audit opening meeting at SABA conference hall



The auditors interviewing Dr. Hailemeskel Awoke, Geotechnical Engineering Department Head

The auditors held a meeting with SABA management members, in which Mrs. Anna Fuchsmann introduced her team members to the attendees and made a brief description about gtz IS and ISO 9001:2008, highlighting the audit procedures and guidelines. As per

the procedures discussed in the meeting, the auditors, along with Ato Tewodros Mekonen, Quality Management Representative, and Ato Thomas Lulseged, Public Relations Service Head of SABA, made a tour of the departments and services at SABA's head

office. Since it is one vital requirement, they reviewed all the ISO documents prepared by and used in SABA Engineering PLC.

The main auditing task conducted in the Geotechnical Engineering Department has been to assess the level of implementation of the ISO standard. The audit ended with a closing meeting where the auditors' findings were disclosed to management members. Mrs. Anna Fuchsmann remarked that the departments have well-prepared ISO procedures and other documents. However, she added that implementation of the procedures should be more rigorous as, for instance, some employs still use the traditional and inconsistent methods. Finally, Anna recommended a follow-up and monitoring activity to ensure strict implementation of ISO procedures in each department and service especially those that are close to be certified. The second audit is scheduled for September after work on improving the implementation is completed. A welcoming luncheon program was held for the visiting guests at Cultural Restaurant of Crown hotel.

EEPCo Awards SABA Power Distribution Network Construction Project

In a contract agreement which was signed on May 8, 2009, EEPCo awarded SABA Engineering PLC a project which involves the

design and construction of power distribution networks for 28 towns at Hosaena and Butajira localities. According to Eng. Tadesse

Teferra, Electromechanical Works and Construction Division Head, the surveying and design work has been finalized. Subsequently,

the construction of Low Voltage distribution line is well underway. The first commissioning and

handover of MV foundations is scheduled for October 2009. The project, with a cost amounting

to around sixteen million birr, is planned to be finalized within 240 calendar days.

SABA's Social Activity Program Provides Summer Job for Students



One of the student assisting the chief accountant at finance service



The other student working at finance service



One of the student doing clerical works at archive section

SABA has provided summer job to eight Derartu Tulu Secondary School students that are endorsed in SABA's Social Activity Program. The students were assigned in HRD & Administration Service, Finance Service, Supply

and Equipment Service and Finnroad Project Office (European consultancy firm associated with SABA). The students have carried out different clerical works and received appreciation from each work unit for their valuable and

successful contribution during their stay.

We have arranged also for two students to be assigned for the similar summer job at our business partner, Gondwana Engineering PLC.

It will be recalled that the program was established on May 17, 2008 to provide financial assistance to twenty outstanding preparatory students of Derartu Tulu Secondary School. Out of that, 10 students are already enrolling in different universities currently completing their preparatory education. The rest will take the entrance exam in the current academic year.

Remarkable Performance: A Contribution Towards the Realization of the Nation's Road Network Development.



Partial view of the route corridor on the rift floor of Omo Rift, approaching Omo river



Mules transporting samples for sub-grade soils & construction materials to Maji town

In its five-year strategic plan, the Ethiopian Roads Authority (ERA) has set a plan to connect all Wereda capitals by all-weather gravel roads of which, Sawla-Maji Road Project is one, covering about two hundred eighty three kilometers across contrasting landscapes in Southern Nations, Nationalities, and Peoples Region. The road starts from Sawla town and passes through Bulki, Laska, Belta, Maizelo, Laha, Salaysh, Dime Gero, Woide, Hana, and

crosses the Omo river at its middle course, ending up at Maji town. The route corridor that passes through diverse physiographic areas interspersed with mountain ranges and escarpments is inhabited by Gamo, Basketo, Melo, Dime, Konso, Body, Surma, and Mursi nationalities.

The surveyed alignment from Sawla to the Omo River is partly motorable while the rest, particularly from Salaysh to

Dime Gero is inaccessible to any type of vehicle. Unlike the route corridor on the opposite side of the Omo River, Omo-Maji, Lot 4, (about 91 kilometers long) is totally inaccessible, crossing escarpment with an altitude drop of 2200 meters in seventy kilometers and, most of all, it is without any human settlement.

Sub-grade soil survey, construction materials investigation, geotechnical investigations of major crossings, and slope stability analyses & calculations are an integral part of the in-put required for the pavement design, involve field investigations for considerable period in remote areas. Though these activities are routinely practiced in all detailed engineering design projects, it requires courage, commitment, and strong team spirit to withstand the challenges posed by rugged terrain described above and the scarcity of daily laborers. However, the determined team, comprised of two geologists, one civil engineer, two soil technicians, and a coordinator, took the responsibility for the investigations and made it a successful project. The geologists, experienced working under difficult circumstances, had the courage to lead the team to the success.



Demobilizing from the fly camp, loading of camping equipments and samples on mules



Cooking food on the field

The team started the investigation backwards to Omo river based at Maji town. After traveling twenty kilometers, however, transporting the samples to Maji, even by daily laborers, became difficult and impossible due to the precipitous of the route corridor. Thus the team decided to build fly camps around KM40+000 and KM70+000 of the surveyed alignment and carried out the investigations to complete Lot 4.

The team organized itself at Maji and left for the proposed fly camp sites determined to conduct the investigations in this remote part of the country that

required spending the night in the wilderness. Eight mules were rented to transport samples as well as paraphernalia like jogs of potable water from the fly camps to Maji.

As planned, the team started the investigation based at fly camp one, and after covering substantial segment of the surveyed alignment, moved to the second fly camp. The second fly camp was located much deeper in the jungle and very far from any human settlement. The complaints of the daily laborers about the working conditions, and that of the mule owners who

were worried that their animals would be bitten by Tse-Tse-flies and die. Fortunately the problem resolved by extra payment to the daily laborers and for the mule owners.

It was quite an experience to find the owner of the mules spending the whole night around a fire set to protect his mules from being bitten by Tse Tse flies; and on one occasion, to find the team of professionals forced to drink Borde (a local drink made of cereal) for dinner, brought by daily laborers from a nearby village, as the food that should come from Maji could not reach the fly camp that particular day. It is surprising that the investigation team travelled back all the way to Maji, eighty one kilometers, on foot after completing their task.

Through out its endeavors, the investigation team had the full backing of the head office. Upon completion of the investigation and arrival at the Head Quarter, the geologists who are experienced through working in rural Ethiopia were asked about their field trip and they replied "they had never came across working conditions as challenging as the one they just completed".

Task oriented, disciplined staff of SABA with strong team spirit faced the challenges of the wilderness successfully and completed the field investigations that will be used as an input for further activity in design. Such are the remarkable performances despite rugged, inaccessible, and

remote part of the country that testify SABA's commitment and

contribution in realizing the nation's development agenda, particularly

in the road construction sector.

Kafu-Masindi Road, one of the Best Road Built in Uganda



Landmark of the project



Final project handover ceremony



Sample sections of the complete road

SABA provided a consultancy service of Design Review and construction supervision for the Kafu-Masindi Road Upgrading Project, following the signing of a contract agreement on October 22, 2002 between the company and Ministry of Works and Transport of Uganda. The design review service project began on November 6, 2002 and ended on August 30, 2004, as the construction of the civil works was scheduled to commence on

December 21, 2004 and to end on May 31, 2008.

Kafu-Masindi road upgrading project involved upgrading a gravel road to class II paved road with a Double Seal Surface (DST) for standard carriage-way of 6-meter width. In addition, the 1.5m wide shoulder on both sides had to receive single bituminous treatment. Likewise in Masindi town, the gravel road was upgraded by constructing a 2m-

wide parking lanes on both sides of the roadway.

Hon. Nathan Byanyima, a member of the Sessional Committee of Parliament on Physical Infrastructure made a cautious remark on the quality of workmanship and condition of Kafu-Masindi road during the joint Donor/Government Transport Sector Review Workshop held at Munyonyo from 28 to 31 October, 2008. Based on his feedbacks,



The inspection team share a light moment at site

the Permanent Secretary of the committee, in a letter dated November 03, 2008, requested the Directorate of Engineering, Contractor and Consultant to carry out a joint inspection and to identify any defects, failures or unfinished works. The trio was also requested to recommend appropriate remedial actions and apportion and to submit its

inspection report by 17 November 2008.

Accordingly, the Directorate of Engineering conducted a joint inspection site visit of the road with the Contractor and the Consultant of the project on November 5, 2008. The main focus of the team was to verify that there are no signs of

deterioration or water erosions of the road since its completion in May, 2008. The team, therefore, carefully examined the pavement, drainage, cut & embankment slopes, landscaping and greening. Upon completion of its inspection, the team submitted its report that summarizes its findings and recommendations. The reports asserted that the Kafu-Masindi road has been built according to the contract specifications. And, that after serving six months, the road has shown no signs of bleeding, stripping or any form of pavement failure. The report affirmed that the Kafu-Masindi road is one of the best roads built in Uganda in the recent years. SABA has, subsequently, received a letter of appreciation from the Ministry of Works and Transport of Uganda for its successful completion of the Kafu – Masindi Road Upgrading Project with high durability and low-budget cost.

Prestressing and Precasting of Concrete

The prestressing and precasting of concrete are inter-related features of the modern building industry. Through the application of imaginative Design and quality control, they have, since the 1930's, had an increasing impact on architectural and construction procedures. Prestressing of Concrete is the application of a compressive force to concrete members and May be achieved by either pretensioning high tensile steel strands before the concrete has set, or by post-tensioning the strands after the concrete has set.

Prestressed Concrete

Prestressing of concrete is defined as the application of compressive stresses to concrete members. Those zones of the member ultimately required to carry tensile stresses under working load conditions are given an initial compressive stress before the application of working loads so that the tensile stresses developed by these working loads are balanced by induced compressive strength. Prestress can be applied in two ways - Pre-tensioning or Post-tensioning.

Pre-tensioning

Pre-tensioning is the application, before casting, of a tensile force to high tensile steel tendons around which the concrete is to be cast. When the placed concrete has developed sufficient compressive strength a compressive force is imparted to it by releasing the tendons, so that the concrete member is in a permanent state of prestress.

Post-tensioning

Post-tensioning is the application of a compressive force to the

concrete at some point in time after casting. When the concrete has gained strength a state of prestress is induced by tensioning steel tendons passed through ducts cast into the concrete, and locking the stressed tendons with mechanical anchors. The tendons are then normally grouted in place.

Advantages

The use of prestressed concrete offers distinct advantages over ordinary reinforced concrete. These advantages can be briefly listed as follows: Prestressing minimizes the effect of cracks in concrete elements by holding the concrete in compression. Prestressing allows reduced beam depths to be achieved for equivalent design strengths. Prestressed concrete is resilient and will recover from the effects of a greater degree of overload than any other structural material. If the member is subject to overload, cracks, which may develop, will close up on removal of the overload. Prestressing

enables both entire structural elements and structures to be formed from a number of precast units, e.g. Segmented and Modular Construction. Lighter elements permit the use of longer spanning members with a high strength to weight characteristic. The ability to control deflections in prestressed beams and slabs permits longer spans to be achieved. Prestressing permits a more efficient usage of steel and enables the economic use of high tensile steels and high strength concrete.

Prestressed concrete can provide significant cost advantages over structural steel sections or ordinary reinforced concrete.

The tensile strength of unreinforced concrete is equal to about 10% of its compressive strength. Reinforced concrete design has in the past neglected the tensile strength of unreinforced concrete as being too unreliable. Cracks in the unreinforced concrete occur

for many reasons and destroy the tensile capability. With prestressed concrete design however, the tensile strength of concrete is not neglected. In certain applications it is used as part of the design for service loadings. In ordinary reinforced concrete, steel bars are introduced to overcome this low tensile strength. They resist tensile forces and limit the width of cracks that will develop under design loadings. Reinforced concrete is thus designed assuming the concrete to be cracked and unable to carry any tensile force. Prestressing gives crack-free construction by placing the concrete in compression before the application of service loads.

*Contributed by Mr. Vimal Kant Arya
Senior Advisor to the Managing Director
on Business Development*

List of Ongoing & Notable Completed Projects

Design Department

- Consultancy Services for the Feasibility Study, Environmental Impact Assessment (EIA) (Phase I) and Detailed Engineering Design and Tender Document preparation (Phase II) for the rehabilitation of Ageremariam – Moyale Road Project in association with AIC PROGETTI SpA, SPTSpl and MGM Consult PLC, 300km Oromia National Regional State, Ethiopia. The first phase of the project is completed. The second phase is substantially completed.
Client: Ethiopian Roads Authority
- Consultancy Services for the Review of Feasibility Study, Review of Environmental Impact Assessment (EIA), (Phase I) Detailed Engineering Design and Tender Document Preparation (Phase II) for Awash – Dofen – Kassamender Road Projects, 300 km, Afar National Regional State, Ethiopia. The first phase of the project is completed. The second phase is substantially completed. The Lead Consultant is Finnroad of Finland.
Client: Ethiopian Roads Authority
- Consultancy Service for the Feasibility Study, EIA, (Phase I) Detailed Engineering Design and Tender Document Preparation (Phase II) for Ankober-Aliyuamba-Awasharba Junction Road Project, 92 km, Afar and Amahara National Regional States, Ethiopia. The first phase of the project is completed. The second phase is near to completion. The Lead Consultant is Finnroad of Finland.
Client: Ethiopian Roads Authority
- Consultancy Service for the Feasibility Study, EIA, (Phase I) Detailed Engineering Design and Tender Document Preparation (Phase II) for Sawla – Maji Road Project, 180 km, Southern People Nations and Nationalities Regional State, Ethiopia. The first phase of the project is completed. The second phase is substantially completed. The Lead Consultant is Finnroad of Finland.
Client: Ethiopian Roads Authority
- Consultancy Service for the Feasibility Study, EIA, (Phase I) Detailed Engineering Design and Tender Document Preparation (Phase II) for Gog - Akobo Road Project, 203 km, Gambela National Regional State, Ethiopia. The first phase of the project is completed. The second phase is underway. The Lead Consultant is Finnroad of Finland.
Client: Ethiopian Roads Authority
- Consultancy Services for the Detailed Engineering Design, Preparation of Tender Document and Construction Supervision of Segen, Geregera and Laha River Bridge Project, Southern Nations and Nationalities Regional State, Tigray National Regional State and Oromia National Regional State, Ethiopia. (Design is Completed, the supervision is underway)
Client: Ethiopian Roads Authority
- Consultancy Services for Detailed Engineering Design, Preparation of Construction Drawings, Bill of Quantity, and Engineering Cost Estimate for the Realignment of Chida – Soda Road Project, 38 km, SNNP National Regional State, Ethiopia. (Completed)
Client: Salini
- Consultancy Services for the Detailed Engineering Design and Tender Document Preparation for Kuri-Qiwe-Dado Road Project, 44km, Oromia National Regional State, Ethiopia. (Completed)
Client: Oromia Rural Roads Authority
- Consultancy Services for the Detailed Engineering Design and Tender Document Preparation for Water-Furda-Kella Road Project, 32km, Oromia National Regional State, Ethiopia. ((Completed)
Client: Oromia Rural Roads Authority
- Consultancy Services for the Detailed Engineering Design for Chole – Magna Section of Dera – Magna Road Project, 21km, Oromia National Regional State, Ethiopia. (Near to Completion)
Client: Ethiopian Roads Authority
- Consultancy Services for the Feasibility Study, Environment Impact Assessment, Detailed Engineering Design and Tender Document Preparation for the Mekele – Abi Adi – Adwa Road Project, 21km, Tigray National Regional State, Ethiopia. The first phase is commenced. The lead consultant is COWI Consult of Denmark. (First phase completed and second phase is commenced)
Client: Ethiopian Roads Authority

List of Ongoing & Notable Completed Projects

Contract Formulation and Supervision Department

- Consultancy Services for the Construction Supervision of Woreta – Gobgob, lot I (Woreta - km 49) Road Upgrading Project, Amhara National Regional State, Ethiopia.
Client: Ethiopian Roads Authority
- Consultancy Services for the Construction supervision of Shire – Adigoshu Road Upgrading Project, Tigray National Regional State, Ethiopia. The lead consultant is Tahal, Israel.
Client: Ethiopian Roads Authority
- Consultancy Services for the Construction Supervision of Assela –Dodola Road Upgrading Project, Oromia Regional State, Ethiopia. (The lead consultant is FINNROAD LTD)
Client: Ethiopian Roads Authority
- Consultancy Services for the Construction Supervision of Wacha – Maji Road Upgrading Project, Southern People Nations and Nationalities Regional State, Ethiopia.
Client: Ethiopian Roads Authority
- Consultancy Services for the Construction Supervision of Debretabor Town Internal Roads Project, Amhara Regional State, Ethiopia.
Client: Debretabor Town Administration
- Consultancy Services for Design review and Construction Supervision of 21 Bridges in North Western Uganda. The Design review has been concluded. the supervision work will be started after finalizing with the contractors.
Client: Republic Of Uganda Ministry of Works and Transport.
- Consultancy Services for the Construction Supervision of Metu - Gore Road Upgrading Project, Oromia Regional State, Ethiopia
Client: Ethiopian Roads Authority
- Consultancy Services for the Construction Supervision of Werabelle River Bridge Project, Oromia Regional

State, Ethiopia (recently awarded).

Client: Ethiopian Roads Authority

- Consultancy Services for the Construction Supervision of Gerbera River Bridge Project, Tigray National Regional State, Ethiopia.
Client: Ethiopian Roads Authority
- Consultancy Services for the Construction Supervision of Wukro-Adigrat-Zalambessa Road Upgrading Project Tigray National Regional State, Ethiopia. (Recently commenced and on progress)
Client: Ethiopian Roads Authority
- Consultancy Services for the Bridge Management Support Lot1: Alemgena, Soddo, Shashemne and Diredawa Districts, Ethiopia. (Recently commenced and on progress)
Client: Ethiopian Roads Authority

Geo-technical Engineering Department

- Geotechnical Investigation Works for the Construction of 2B+G+12 Multi Purpose Building in Addis Ababa, Ethiopia. (Substantially completed)
Client: Athlete Sileshi Sihen
- Geotechnical Investigation Works for the Construction of Textile Factory Building in Sebeta, Ethiopia. (Completed)
Client: Evergreen Textile P.L.C
- Geotechnical Investigation Works for the Construction of Rawian Bridge in Humera, Tigray National Regional State, Ethiopia. (Completed)
Client: Hunan Huanda Road & Bridge Corporation
- Geotechnical Investigation Works for the Construction of Anger Dam Site in Oromia National Regional State, Ethiopia.
Client: Tahal Group
- Plate Load Test for the Construction of Beles Multi Purpose Dam Site in Amhara National Regional State, Ethiopia. (Completed)
Client: Salini Costruttori S.P.A

List of Ongoing & Notable Completed Projects

- Geotechnical Investigation Works for the Construction of Textile Factory and Show Room Building in Addis Ababa, Ethiopia. (Completed)

Client: Yeka Sub City MSE Core Process

- Geotechnical Investigation Works for the Construction of Health Office Building in Addis Ababa, Ethiopia. (Completed)

Client: Akaki-Kality Sub City Health Office

Material Testing Laboratory Division

- Consultancy Services for the Establishment of Regional Construction Material Testing Laboratories in Eleven Towns, Ethiopia. (Completed)

Client: Ministry of Works and Urban Development

Hydrogeology and Water Well Drilling Department

- Drilling of Five Exploratory Wells in the Surrounding Areas of Western Upper Tekeze Catchment Ground Water Evaluation Project, Amhara National Regional State, Ethiopia.

Client: Ministry Of Water Resource

- Drilling of one borehole for consumption of dairy farm in the North of Holeta Town, Oromia National Regional State, Ethiopia. (Completed)

Client: Cocket Dairy Farm

- Drilling of one borehole for consumption of drinking water in Lemi Town North Shewa, Amhara National Regional State, Ethiopia. (Recently commenced and on progress)

Client: Ezana P.L.C

Construction Department

- Design, Manufacturing, Test and Supply of Pre-stressed Concrete Poles to region store at Debretabor for the Construction of Medium and Low Voltage Distribution Networks, Universal Electricity Access Program, Amhara National Regional State.

Client: Ethiopian Electric Power Corporation

- Design, Manufacturing, Test and Supply of Pre-stressed Concrete Poles to nine towns in Amhara & Tigray Regional States.

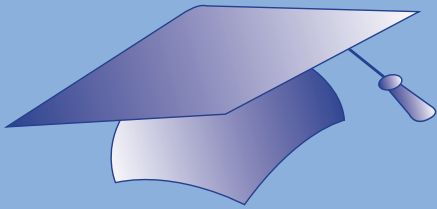
Client: Ethiopian Electric Power Corporation

- Construction of medium and low volt distribution line network to electrify about 30 towns in Amhara and SNNP Regional States. (Completed)

Client: Ethiopian Electric Power Corporation

- Construction of Medium Volt and Low Volt Distribution Networks to Electrify 28 towns in SNNP National Regional States, Ethiopia.

Client: Ethiopian Electric Power Corporation



Graduation



Congratulation!

Amare Tenaw

*Bachelor of Arts in Accounting
from Alpha University College, July 2009*

Our new Family Members



Nathan Yigezu, July 10, 2009



Yididya Mekonnen, Jan 07, 2009



Haleluya Biniam, Aug 13, 2009

Quality Policy

SABA Engineering PLC is committed to satisfy customers' needs and expectations by providing timely quality service.

The Management and Employees' commitment to continuous improvements and meeting customers' expectation is the foundation for achieving our quality objectives

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Mission Statement

➤ *To ensure the delivery of cutting edge construction and consultancy services and products which enhance the development of quality life of the society. SABA realizes these ideals through:*

- *Strategic Business Plan*
- *Attracting and retaining skilled employees*
- *Creating and maintaining partnership on the basis of mutual benefits technical advances*
- *Taking care of natural environment*

Saba Group Wishes you a Happy Ethiopian New Year



SABA - FIELD OF ACTIVITIES:

- CONTRACT ADMINISTRATION & CONSTRUCTION SUPERVISION
- CIVIL WORKS DESIGN
- CONSTRUCTION WORKS
- ELECTRO-MECHANICAL WORKS
- MATERIAL TESTING LABORATORY
- GROUND WATER EXPLORATION & DEVELOPMENT
- GEOTECHNICAL ENGINEERING
- INSTITUTIONAL SUPPORT & SUPPLY BUSINESS

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- HALF HOLLOW CONCRETE BLOCK
- CONCRETE TILES



BOLE BULBULA CONSTRUCTION STONE S.CO.



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