

THE CONTRACTOR UGANDA

This magazine is a publication of Uganda National Association of Building and Civil Engineering Contractors (UNABCEC)

OPINION

Financing the Contractor

Tips on how to improve your chances of obtaining credit

FEATURE

Government willing to support the development of local content

MAIN FEATURE

Local Suppliers and sub Contractors to earn big as Entebbe Airport expansion commences

NEWS

300 MILLION dollar Convention Centre opens in Kigali





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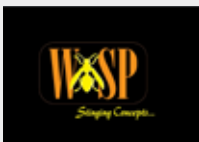
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the contractor magazine



Welcome

We are back people! Welcome to issue 9. If you have been an avid reader of The Contractor, you should have noticed that the magazine was in fresh hands. As we promised in the last issue, we are combing the globe for fresh and exciting content.

On the local scene, the \$200 million Entebbe Airport expansion got underway a while back. Next door in Kenya, the tallest building in East Africa, UAP Towers was opened. South of the border in Rwanda, a \$300 million convention center, the biggest in the region opened its doors for business earlier this month. We have complete coverage for this and other projects in the region.

We have generated some buzz on the international scene. Equipment manufacturers and distributors from Egypt, Italy and Germany have expressed interest in Uganda's growing construction/contracting sector. You definitely don't want to miss out on these juicy deals. We shall keep you posted on all opportunities available as and when they arise.

Last but certainly not least, we would like to thank our partners, the advertisers without whose support this publication would not be possible. I cannot thank you enough. To those companies who are still on the fence whether to feature in the magazine or not, please do not hesitate to get in touch. Apart from advertising, we have space for editorials, press releases and news bits. We have something for everyone. We are looking forward to meeting you soon.

We hope you enjoy reading this issue. See you in the next one.

Adieus !

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WHY Everyone should be passionate about Building local contractors.

ONE OF THE MANY reasons am excited about serving as UNABCEC Chairman for 2015-2017 is that am just so passionate about construction contracting industry.

When you consider how much we need to accomplish, the things to build, the challenges we face & need to overcome and the way we need to give back to the communities we work in, it's hard not to be inspired by the opportunities in our construction industry for us and the next generation.

Lack of local capacity and capabilities in our construction sector has obviously affected our hopes as a country to take advantage of the numerous employment opportunities in the industry and also made it difficult for local businesses to be able to provide works which are competitive in terms of price, quality and timely delivery. Local Contractor contribution is very minimal and diminishes even further in larger infrastructure projects. As all medium to large projects are dominated by foreign contractors and this trend has a direct negative impact on the economy as cash injected into infrastructure does not bring about the desired creation of jobs in the short to medium term, nor does it trigger longer term investment needed for stability. Local Contractors must be brought to the forefront of delivery of infrastructure development if GOU funds (including Oil revenue) are to be invested for equitable returns.

The PPDA law and Regulations which govern the procurement and selection of works contractors has no specific practical alignment and directive to strengthen Local Contractors. The Law is very "Convenient" to large foreign contractors even if some are "ghosts". When such companies undertake the works, the local content is limited to only provision of unskilled or semi-skilled labour, which inputs are insufficient to make meaningful impact and certainly such back stage responsibility has contributed to the slow growth of capacity in the local construction industry.

In the short term, the country continues to lose the benefit of employment - which

the Ugandans anticipate at the inception of construction projects while we are also forfeiting future impact of growth of the skilled workforce and requisite investment in the construction industry. Both are essential ingredients for transformation to a modern and prosperous Country.

The key issues and constraints affecting the development of the construction sector are

1. The erratic and unpredictable work opportunities and resultant inconsistent cash flow that has consequently hampered institutional and human resource development of contractors.
2. The Construction Industry is currently highly distorted and unpredictable.

It is largely dominated by foreign firms, some of which are state owned firms whose business operations are subsidized by their country of origin.

It has another set of approximately 800 local construction firms that do not belong to the national association, the majority of which are speculators – commonly known as "Brief Case Contractors".

All these contractors have been allowed to participate in the construction industry without being regulated. The diversity in capacity and objectives of these industry actors has led to the emergence of an unlevelled playing field. This dynamic has led to the genuine local firms being forced to go without business for many years and many have closed / or are due to close shop and exit the industry.

The foreign firms largely fill all the technical positions with their nationals at the expense of locals thereby negating knowledge sharing and transfer. Ugandans have been relegated to casual works. This has in the long run killed competition from local firms thus giving foreign firms a field day in Uganda on their own terms.

If you look at the certified genuine contractors in this magazine and you equipped them with equipment, skilled craft workers, Registered Technicians and Engineers, this group can build every building, road and piece of infrastructure we take for granted today.

Local construction firms' participation in the supply chain –with strengthened capacity to compete is crucial to the development of our nation. **Adaption of an enterprise development initiative – Stimulation, Incubation and Promotion of local small and medium enterprises (SME's)** will guarantee organic growth of firms into bigger construction firms that will compete with international companies. These deliberate incentives aimed at building capacity of local contractors will safeguard the construction industry and spur meaningful and sustainable economic development. We reproduce our submissions to PPDA, and UNRA on interventions required to grow local construction industry.

We need your support to research the facts, litigate and reach the public to push back the bad clauses in the bill.

You cannot tell me that local contractors will not be the GREATEST people in our country providing 80% employment to all Youth, women and Veterans once the enterprises development initiatives are adapted.

Update from UNABCEC Secretariat

Where we have put our energies
since the Start of 2016:



As the Management arm of the Association, we are accountable to the Board of Directors and to our Members who in return would wish to know the relevance of the Association.

We ought to know that our Activities are guided by the Six Strategic Objectives of the Association where the outcomes would directly measure up to the performance of the Secretariat.

1. Support to Trainings

The two well packaged trainings, CSM and SPP are still sponsored and supported by the Association with funding partially from the members contributions. Since we know the relevance of providing continuous and latest knowledge that equip our Members & their staff with skills required in the Industry and management of their, we have maintained these programs at a reasonable Budget without direct donor Support.

Contributions from participants have helped to break even the cost of the trainings and we know that in future we shall be able to raise numbers that can help to self-finance the trainings in Kampala.

Negotiation with a Donor to have these trainings conducted upcountry and also introduced in Technical colleges was completed. We hope to roll out these developments next year.

Design of additional training packages is underway to ensure that issues in Contract Administration are addressed and members get better skills in managing their contracts.

Our prayer is for the construction industry to clearly understand the need and relevance of these trainings. Plans are underway for participants to obtain CPD points that can contribute to Registration of Engineers and general recognition of the trainings in the Country.

“ The MoU provides that UN-ABCEC member Firms shall be privileged to be sole sub-contractors on these Projects that will be executed by Korean Companies ”

2. Advocacy and Lobbying at all Levels of Influence in the Construction Sector

With Government holding the biggest cake for sharing and especially where our members stand to benefit, we have ensured to tap in all opportunities available so as to sell our objectives clearly to the different sector players.

We have managed to deliver proposals to influence our stakeholders to take into consideration the need to have Local Content Participation in the execution of various projects. We are looking forward to having a batch of our members having access to work especially in the roads sector.

Plans to have our members participating in the upcoming SGR project are still at the negotiation level. We have involved an ad hoc committee to have successful results with the SGR secretariat. An eligibility criterion has been designed



to further guide in the formation of the Consortia's where we may need to get the required capacity.

Advocating for the right legislation shall be reflected in the UCICO Bill where the views that will positively have an impact on our members were incorporated in the Draft. An Ad hoc Committee engaged the Office of the Engineer in Chief to incorporate a range of proposals to be discussed.

The Chairman of UNABCEC, The Chairman of ICAK franked by Association members at the signing of the Memorandum of Understanding during the Visit of the South Korean President;

3. International Partnerships

The association is yet to realise the benefits of the MoU signed with the International Contractors Association of Korea (ICAK), with the Russians pulling out of the construction of the oil refinery and Government going to Korean Companies, only time will tell.

The MoU provides that UNABCEC member firms shall be privileged to be sole sub-contractors on these projects that will be executed by Korean Companies.

Our board members have visited various International Companies and participated in Trade Fairs & Exhibitions, the benefits go beyond benchmarking for our firms to bringing new technology in areas of doing and executing engineering projects and doing business. Various companies have been encouraged to bring their products to the Ugandan market and also help our companies have access to cheaper construction equipment's.

With BGV funding and activities, UNABCEC is sharing and benchmarking with construction companies from neighbouring countries such as KFMB in Kenya and CCAE in Ethiopia. We are learning from our mistakes and share a lot of information in doing things. A unifying website platform shall be developed by the end of the year to allow interactive sharing of the information amongst the member companies.

4. Re - profiling and Database Upgrade.

The secretariat through the Projects Manager have engaged its members to avail substantive information especially on the projects executed in the past 3 Years. Our stakeholders have tasked us to know more about the activities that our members are doing to isolate the genuine ones from the briefcase companies.

We shall utilise the collected information to upgrade our existing database so as to provide concrete and more realistic information beyond just addresses of our members and their contact persons but also to avail substantive information on their projects.

5. SACCO

We have further re introduced the need for our association to establish a strong and alternative source of income for its members; UNABCEC SACCO. The collection of signatures from individual members of the companies was completed. The launch of the SACCO at the our networking event shall help us to officially make the members have ideas of what we expect the SACCO to do for them.

Plans to hold a general meeting where the stakeholders (who are particularly our members) will deliberate to create a consolidated constitution of the SACCO is underway. The meeting with the guidance of a consultant will discuss the requirements for the membership, minimum shares from the members and also other ways and sources of funds for the SACCO.

Generally, the SACCO will help member companies have a fund that will provide guarantees not limited to Performance Securities for their projects but also a solid loans scheme for their employees.

The vision of the SACCO is to see it evolving into a Micro Finance body and later into an investment bank. We plan to utilise our SACCO when lobbying government for financial assistance and acquiring equipment for our members.

The benefits of the SACCO are enormous and therefore we encourage all our members to participate fully in its formation.

Godfrey Lubanga
Ag. Executive Director/Projects Manager
executive.director@unabcec.co.ug
Tel: 0782-136143.



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Rated Power KW (HP)/rpm:
213(290) / 2200
Rated Torque N.M/rpm:
1160/1100-1600
Fuel Consumption: 4 km/L
WEIGHT DATA:
GVW: 35000 kg Payload: 25000 kg

DIMENSIONS

Overall Dimensions (L*W*H): 8472*2495*3260 mm
Inner Dimensions of Cargo box (L*W*H): 5600*2300*1500mm (20 M3)
Wheel Base: 3825+1350 mm Wheel Track: 2005/1865 mm
Ground Clearance: 320 mm

CHASSIS EQUIPMENT

Steering Gear: ZF8098 Gearbox: RT11509C (PTO) 9 forward 1 rear
Rear Axle: 13T Dual Reduction, Speed ratio: 5.73+ABS
Brake system: Service brake - Drum brake (Dual circuits pneumatic brake)
Parking brake - Energy-accumulating spring air-cut brake
Auxiliary brake - Exhaust brake

Suspension

Front: Longitudinal leaf spring with dual acting telescopic shock absorbers and anti-roll bar/ 9
Rear: Longitudinal leaf spring, balance suspension and anti-roll bar / 12
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Congratulations

to Minister of Works



Minister of Works and Transport, Hon. Eng. Monica Azuba Ntege on the right with outgoing Works Minister, Hon. Eng. John Byabagambi at the official handover ceremony on 30th June 2016.

The Board of Directors and Management team at UNABCEC congratulate Hon. Eng. Monica Azuba Ntege on her new appointment as Minister of Works and Transport.

At UNABCEC, we are committed to fostering a conducive environment for local builders, engineers and contractors. We look forward a positive relationship with your Ministry.

Local Suppliers and sub Contractors to earn big as Entebbe Airport expansion works commence

Work on the \$200 million airport has commenced. The expansion is aimed at improving aviation for economic development in the region, according to communication from Civil Aviation Authority spokesperson Mr. Igundura.



The Chairman Board of Directors, Civil Aviation Authority, Eng. Ndawula Kawesi said growth of the aviation industry had especially been experienced in the period following the hosting of the Commonwealth Heads of Government Meeting (CHOGM) in 2007. He attributed it to the good performance of the national economy since 1986, which triggered a high demand for air transport services to and from Uganda.

“The liberal environment that the aviation sector enjoys has also been a catalyst for increased investments in the industry,” he said adding that the planned developments “were a result of the 2014 – 2034 National Civil Aviation Master Plan that was launched earlier in the year”

Mr. Rama Makuza added that they expected passenger traffic

facilitated by a spike in business travels. Passenger traffic at Entebbe has grown gradually to 1.3m last year, 300,000 up from about one million in 2010.

Cargo handled at the airport increased to about 52,000 metric tonnes from 49,000 tonnes in the same period.

Speaking at the ground breaking ceremony performed at the site for the proposed new cargo centre at Entebbe, on Saturday 29th August 2015, President Yoweri Museveni expressed gratitude to the Chinese government for extending financial support to the tune of \$200 million for the upgrade and expansion works.

President Museveni reiterated the importance of infrastructure development and

noted that Uganda produces goods and offers services that require exportation.

“The goods and services should be linked to infrastructure such as airports, roads, the railway, internet and telecommunications,” the President remarked.

He urged the Chinese contractors to use local products and inputs such as cement and steel “if they are of good quality.”

The planned works will be undertaken in three phases with the first phase covering the period 2015 – 2018, the second phase will be implemented in 2019 – 2023 while the third phase would be realized between 2024 – 2034.

The other projects under the first phase of the expansion include:

1. **Strengthening of the main Runway 17/35 and its associated Taxiways**
2. **Expansion and strengthening of Aircraft Parking Aprons 1, 2 and 4**
3. **Rehabilitation of the old Runway 12/30 and its associated Taxiways**

“ Passenger traffic at Entebbe has grown gradually to 1.3m last year, 300,000 up from about one million in 2010. ”



7.5%
annually

expected passenger traffic to increase



1.3m
PASSANGERS

at Entebbe up from about one million in 2010.



3 PHASES

For the project to be completed



On completion of the new Cargo Centre Complex, the old Cargo facilities will immediately be pulled down to pave way for construction of the extension to the Passenger Terminal.

The first and second phases will cost of \$270 million financed through a loan from China. It should be noted that China has financed several mega infrastructure projects in Uganda including the Entebbe Expressway, the Isimba dam, Mandela National Stadium Namboole, Karuma dam, and Standard Gauge Railway.

The Civil Aviation Authority has already acquired land to facilitate the Entebbe International Airport expansion. Government allocated the national aviation governing body 66.5 acres of land to kick start the expansion works. Government allocated Civil Aviation Authority part of the land belonging to the Ministry of Agriculture in Entebbe to enable construction of an ultra modern cargo center to decongest the airport.

Civil Aviation Authority has also earmarked Shs. 60 billion generated internally towards the expansion of the aircraft parking area and maintenance center.

The expansion works are being undertaken by Chinese firm China Communications Construction Company .

The main contractor, China Communications Construction Company is also undertaking the 37.2 kilometers Kampala-Entebbe expressway . The 476 million US dollar project is expected to decongest the Kampala – Entebbe highway and shorten the time of driving from the capital to the airport from two hours to 30 minutes.

Source: CAA, The New Vision, Construct Africa



Metso NW Rapid™, the revolutionary crushing and screening plant concept gains ground among aggregates producers

Metso NW Rapid™, the revolutionary crushing and screening plant concept gains ground among aggregates producers

The revolutionary Metso NW Rapid is the world's first and only wheel-mounted crushing plant that fits into standard containers and can be set up for operation in less than 12 hours. In addition to fast installation, the NW Rapid can increase production capacity by as much as 30% and offer higher uptime, better safety and ease of use.

In the highly competitive aggregates market, Metso's customers are increasingly looking for more cost-efficient ways to improve their productivity and lower cost of operations. The NW Rapid crushing and screening system, introduced a year ago, has proven to provide flexibility at a whole new level. The concept helps aggregates producers to now profit more from even smaller contracts than before and to change site locations more often. NW Rapid's high production capacity was one of the decisive factors when M/s M G Contractors Pvt Ltd in India was looking for a new plant.

"The new Metso NW Rapid plant is a perfect fit for our growing needs for more eco-friendly, mobile and economical solutions. When looking at the available products in the market, we realized that the NW Rapid is a breakthrough in terms of application and quality. It is also backed by Metso's good brand reputation and their service standards. With this purchase, we feel confident that our production efficiency will increase by as much as 30% compared to a traditional solution. The 12-hour set-up time is extraordinary," says Udit Mittal, Director, M/s M G Contractors Pvt Ltd.

Unique design features increase production and cost efficiency

Setting up a conventional portable crushing and screening plant normally takes at least a week and often requires preparations with foundations and other site conditions. In addition, equipment transportation can be difficult and require special arrangements. The NW Rapid is the first and only compact wheel-mounted crushing plant on the market that fits compactly into standard 40-foot (12-meter) containers, allowing it to be easily transported from one place to another by sea, rail or truck. Fast installation and dismantling is facilitated with hydraulically fine-adjustable support legs, hopper walls and screen lifting.

"Cost-efficiency achieved by easy set-up and flexibility serves our customers in the emerging markets particularly well, since it is important to be able to swiftly move production to where the construction projects are situated," says Julius Mäkelä, Product Manager, Portable Solutions, Metso.

The NW Rapid Series includes equipment for multiple aggregate production needs, such as portable jaw crushing, cone crushing as well as horizontal and vertical shaft impactor plants. With these products, customers can set up multistage crushing and screening plants for high-quality end products as well as for ballast production. The NW Rapid crushing and screening plant can be fed by excavator, wheel loader or dump trucks. Ready-made layouts cover screen feed and cone feed applications, with and without surge hoppers and field conveyors.

The increased capacity is mainly achieved by the powerful Nordberg® GP220TM cone crusher and the new four-deck dual-slope screen, enabling higher screening performance. The whole process can be precisely adjusted by a process control system.

"The new Metso IC50CTM process control system forms a seamless combination between the primary crushing stage and the secondary crushing & screening stage of the plant. The whole process, including field conveyors, can be started and stopped with the push of a single button, making daily operations safe and easy," says Mäkelä. The NW Rapid complies with European safety standards, and it can be issued with a CE marking.

More on the NW Rapid:

<http://www.metso.com/solutions/metso-nw-rapid-crushing-screening-plant/>
<https://youtu.be/1KM98XvaOuc>

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Our products range from mining and aggregates processing equipment and systems to industrial valves and controls. Our customers are supported by a broad scope of services and a global network of over 80 service centers and about 6,400 services professionals. Metso has an uncompromising attitude towards safety.

Metso is listed on the NASDAQ OMX Helsinki, Finland, and had net sales of about EUR 2.9 billion in 2015. Metso employs over 12,000 persons in more than 50 countries. Expect results.

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**Metso NW
rapid range**

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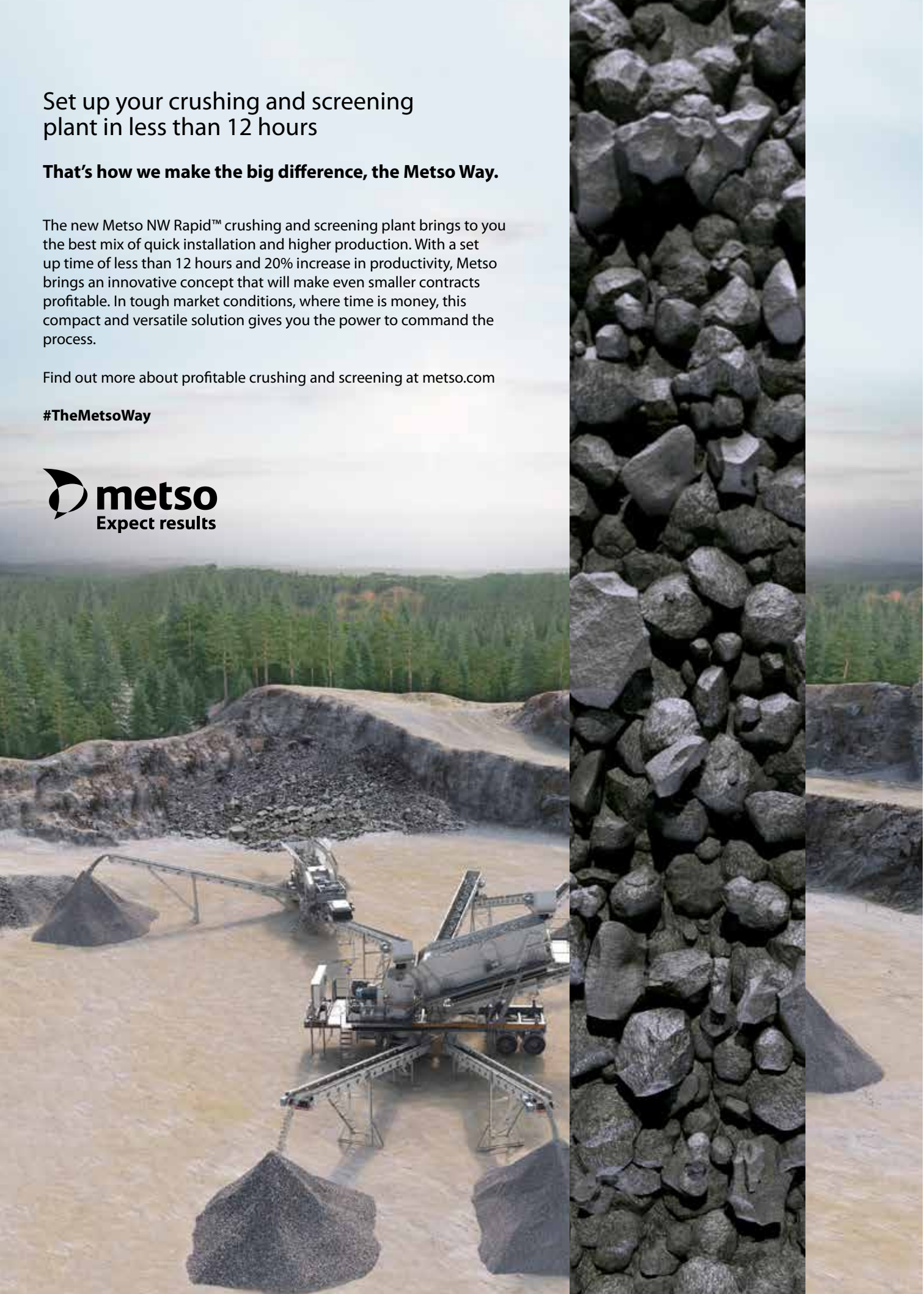
Set up your crushing and screening plant in less than 12 hours

That's how we make the big difference, the Metso Way.

The new Metso NW Rapid™ crushing and screening plant brings to you the best mix of quick installation and higher production. With a set up time of less than 12 hours and 20% increase in productivity, Metso brings an innovative concept that will make even smaller contracts profitable. In tough market conditions, where time is money, this compact and versatile solution gives you the power to command the process.

Find out more about profitable crushing and screening at metso.com

#TheMetsoWay



Carmix 3500 TC:

design on the work site

Aerodynamic lines, attractive profile and power. It's the new Carmix 3.500 TC, an evolution that speaks the language of design, innovation and advanced technology. Without forgetting CARMIX's cornerstones: **Quality and Reliability.**

The search for a new design was based on the desire to offer well-finished machines that can ensure the highest level of performance and reliability on the worksite. And, of course, an "intelligent" design studied to offer even more comfort to users with more ergonomic controls, full-view visibility and an air-conditioned cab. Greater operator comfort means greater satisfaction, safety and productivity.

Like the wide range of Carmix products, the 3.500 TC model is a combination of technology and design to offer powerful and versatile work tools. The concrete mixer has an actual yield of 3.5 m³, a double mixing blade, a mixing and jet speed, regardless of the number of turns of the diesel motor, and a concrete jet in reverse; then, a 600-liter loader - controllable with the Joymix - with a hydraulic command opening to load the sand or gravel directly into the barrel. Finally, the machine can also handle, even when fully loaded, slopes up to 30%. Each of these elements responds to the specific needs observed by the attentive operators of the construction world: a commitment that Carmix has pursued for more than 40 years on five different continents.



▼ A one of a kind weighing system in the world

Concrete-Mate is the revolution of the concrete production industry. Thanks to this new device, the mix can be weighed directly inside the barrel. Unlike many similar systems present on the market and which use a hydraulic system built on the blade, the one installed on the new Carmix 3.500 TC ensures extremely reliable data on the quality of the concrete. This device is added to the essential element that has always been inspired by Carmix's philosophy: the self-loading cement mixer was born to offer a machine that can prepare concrete on site. Less mechanical stress, due to the mixing and transportation, thus results in a decreased need of additives. The result? An excellent quality product ready to be used on any worksite, at any latitude, quickly and punctually. The quality is confirmed by the Legal for Trade certificate, an accreditation that ensures the superior accuracy of Concrete-Mate in all countries where this strict procedure is effective, such as - amongst others - Europe, Australia, Canada and Russia.

▼ Digital technologies for a perfect product

Today, productivity means having more control and information to achieve consistent performance in terms of quality and quantity. The great innovation offered by Carmix leads in this direction as far as the most recent machines are concerned, such as the new 3.500 TC: Promix. A state of the art digital device ensures an always-perfect mix design for all application needs. The name contains the secret ingredient of this technology: Promix, in favor of the mix design, Promix as a professional tool, Promix because its heart is a probe. Indeed, Promix is a measuring instrument composed of a stainless steel probe that is housed inside the mixer and supplied by a solar panel. A display in the cab receives information in real time. The sensor provides details on the slump, temperature, moisture and rotational speed of the concrete mixer, but it also tells users when the mixture is ready. All the data is constantly updated every ten seconds and sent to the receiver, thanks to a very easy to read display. Thus, the operator always knows all the parameters of the concrete that is being prepared. Such information can be stored in an external computer or sent to other mobile devices via the GPS network.

www.carmix.com

The concrete mixer has an actual yield of 3.5 m³, a double mixing blade, a mixing and jet speed, regardless of the number of turns of the diesel motor, and a concrete jet in reverse;



COMING SOON

— to Uganda —



Carmix 3500



Concrete pump

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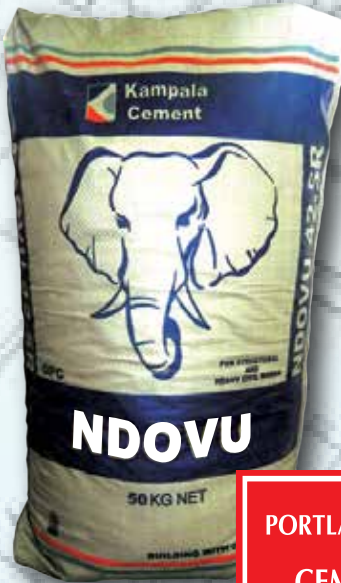
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Building Synergies!

UNABCEC MEMBERS INTERACT WITH TRADE MINISTER KYAMBADDE

By Charlotte Ninsiima

Uganda National Association of Building and Civil Engineering Contractors (UNABCEC) held a networking event at Hotel Africana on 28th April that embraced a hundred attendees at the brightly lit venue with colourful décor.



Uganda National Association of Building and Civil Engineering Contractors (UNABCEC) held a networking event at Hotel Africana on 28th April, 2016 that saw hundreds of attendees at the brightly lit venue with colourful décor.

The event attracted several board members of UNABCEC as well as association members, a number of corporates from construction and insurance firms, banks as well as well wishers of UNABCEC at the networking dinner.

Despite a number of challenges that local contractors face that include competitive foreign firms capturing big projects, dependency on imported materials, limited access to credit, corruption and bureaucracy. However under the Buy Uganda Build policy, the Ministry will avail 22% preference on national tenders to local contractors to protect against foreign competition.

Hon. Kyambadde also advised the association to formulate an investment club among members so that it could act as a financial arm suitable for any monetary needs.

Karuhanga Francis, Chairman UNABCEC gave a word of thanks to all who honoured the event with their presence and encouraged all contractors to be part of UNABCEC as a way of delivering professional work.

Karuhanga informed those present about the recurrent collapse of buildings in Kampala that is due to shoddy work from local contractors and having uncertified skills. "We seek support from the government to ensure a firm law is entrenched so that every constructor could follow the right processes for operating their work".

The highlight of the day was the launch of the association's 8th quarterly contractors' magazine themed 'Bringing local contractors to the forefront of infrastructure development.'

After the Minister's speech, a sumptuous buffet was served to the invited guests. During the interlude the S& S Band presented local music to soothe the mood, and allowed guests to have chitchat and thereafter Hon. Kyambadde opened the dance floor to the guests.

The Chief Guest Hon. Amelia Kyambadde, Minister of Trade, Industry and Cooperatives graced the event as a number of construction firms presented their portfolios during the event. These included Farm Engineering Industry, Kampala Cement, Staunch Machinery, JCB Pole Planter and Commercial Bank of Bank (CBA) and the Standard Gauge Railway.

Hon. Kyambadde commended Uganda for having the best engineers in the world who have been to several countries such as Canada, Brazil, Norway and other countries for exposure and experience.

"The association was awarded the privilege to work on the Standard Gauge Railway which is a positive step in the right direction."

Construction is one of the fastest growing sectors registering 12% GDP at 2.8 billion shillings to Uganda's economy. Through the Building Control Bill, the government will establish a build standard board and committee to enhance services provision.

“Construction is one of the fastest growing sectors registering 12% GDP at 2.8 billion shillings to Uganda's economy.



1.



2.



5.



3.



4.

1. **Hon. Kyambadde addressing the UNABCEC members at the networking dinner in the foreground**
2. **Trade Minister officially launches the Contractor magazine issue No.8**
3. **Invited guests follow presidings**
4. **It was a full house at the networkinnng event**
5. **Hon. Kyambadde receiving the 8th issue of the Contractor Magazine from UNABCEC Chairman Mr. Karuhanga for the unveiling**

NEW BRIEFS

The Panama Canal expansion officially opened on Sunday 26 June.

Written by Joe Malone - 27 Jun 2016

The canal, considered to be the world's largest civil works at the time, reached its conclusion after nine years marked by contract disputes and potential competition from neighboring countries.

The route was presented on Sunday by the consortium Grupo Unidos por el Canal (GUPC), which was hired by the Panama Canal Authority (ACP) in 2007. The mega-project will allow ships of up to 13,000 TEU (container size standard) to pass through the channel. Before its completion, only ships of less than half this capacity could cross the waterway.

The project cost some US\$ 5.4 billion in total.

In August 2014, an agreement was reached between GUPC and the Panama Canal Authority (ACP) following their contract dispute, which the two parties said would allow the completion of the canal expansion project.

Following the agreement, the project was said to be completed by December 2015.

However, in October 2015, the project was said to be 95% completed, with a finishing date set for April this year.



Mota-Engil to resurface 'worst road in South America'

Written by Mike Hayes - 28 Jun 2016

The Transchaco highway in 2010, after being given a new asphalt surface

Portuguese company Mota-Engil has won a US\$ 430 million contract to resurface the Transchaco highway in Paraguay.

Dubbed "the worst highway in South America" the 835 km road runs between the country's capital Asunción and Bolivia.

Although the road was resurfaced with asphalt in 2007, much of it is now said to be breaking up and the Paraguayan Ministry of Public Works has stated that initiating the repair of the highway is the most important contract in its history.

Mota-Engil and its Paraguayan consortium partner Concret Mix, were the sole bidders for the project, when an anticipated bid from Spanish company Ob拉斯con Huarter Lain (OHL) and local contractor Heisecke failed to materialize.

The project calls for the repair and widening of the highway, along 530 km of its length. Drivers forced to use the road are routinely warned not to travel at night and to take extra food and water, in case they find themselves stranded along the largely uninhabited route.

Nairobi Southern Bypass completed

Construction of Nairobi's Southern bypass is complete. The dual carriage road experienced numerous delays especially due to the acquisition of land along the Nairobi National Park.

The bypass starts from Mombasa Road and ends at the Kabete- Limuru Road in Kikuyu town. Certain sections were completed many months ago. The project was funded by the Kenyan government and the China Exim bank at a cost of Sh18 billion, about 540 billion Uganda Shillings.

Source: www.nairobiwire.com



Standard gauge railway update

Land acquisition process continues in Busoga region while payment of compensation is on-going in Tororo district and payment will soon start in Butaleja district. The land acquisition team was in Iganga during an engagement with Project Affected Persons. Survey and valuation covering up to 119 km has been completed. They have also obtained a wetland use license from NEMA covering 53.1 km. Currently the team is in final stages of obtaining licenses from NFA to use Central Government forests and forest reserves covering 23 km.

Standard Gauge Railway Malaba-Kampala line covers 273 km



High and mighty:

Saudi Arabia's Kingdom Tower set to break world record at 1km tall

By Julian Turner (Internet)

Scheduled for completion by 2019, the \$1.2bn Kingdom Tower in Jeddah, Saudi Arabia, is being heralded as the world's first 1km high building.

Breathtaking in conception and execution, the Kingdom Tower is a building without precedent. Upon completion, expected by 2019, the 'megatal' (900m-plus) skyscraper will stand a staggering 1km high, almost four times taller than Europe's highest building, the Shard in London, and more than 170m higher than the Burj Khalifa in Dubai, currently the world record holder at 828m.



Financing the Contractor

Tips on how to improve your chances of obtaining credit (and guarantees) from banks

By Don Twine, Head of Business Development, CBA Bank Uganda

To the contractor, obtaining support from the financial institution is as important and tough work as winning a job contract. The contractor and the bank are in a partnership to execute the job with the latter supporting on the financing angle.



The support required by the contractor from the banks will be first and foremost in form of guarantees, working capital and equipment finance. While the contractor can, subject to their financial standing, opt to finance the contract themselves and avoid the funded lines from banks, they will inevitably need a bank to support them with guarantees.

There are several types of guarantees. But to a contractor the applicable ones are Bid Bonds, Performance Bonds, Advance Payment guarantees and Retention guarantees. To go through the entire project cycle, the contractor will need all the first three and occasional retention guarantees. Guarantees are an important component of the contractual obligations of the contractor with an exception of the Advance Payment guarantee (APGs are to enable the contractor secure upfront payment on an awarded contract)

Another category of facilities the contractors will need will be in form of funded working capital and asset finance facilities. These will include overdrafts, certificate discounting and equipment finance. To avoid what bankers call diversion of funds, the bank will be comfortable funding a contractor with largely the certificate discounting and small levels of overdraft if really needed. Generally

a loan has no purpose to a contractor. The only loan permissible will be equipment loan to enable the contractor acquire equipment for the business like cranes, earth moving equipment, trucks etc.

Financing contractor's usually poses the biggest challenge for banks. It is long held custom that the bank will finance a business it understands very well and one that is not so much vulnerable to external shocks. The main challenges with financing contractors arises from relatively low profit margins, volatility in the industry, high levels of competition, low barriers to entry, inept skills to project the profitability of each contract, tendency to divert project funds to other ventures, delays in payments, lack of equipment to execute the jobs, call up of guarantees and of recent 'brief case' contractors.

The purpose of this brief is to give a general guide to the contractor on basics to consider as they seek credit support and help increase the chances of obtaining the bank's approval to finance them.

When a contractor submits application for financing, the bank will apply two lenses to assess the credit worthiness of the client. These are financial and non-financial analysis of the contractor.

First with non-financial analysis. The banks will examine the following:

1. Type of contractor. Is the contractor main contractor or a subcontractor. Banks tend to favour main contractors for obvious reason that they directly deal with the clients/employers and thus the payment source than the subcontractor who has to go through the main contractor. Other reasons are that the main contractors are bigger and have better financial strength.
2. Company profile and experience. Start-up business don't get many favours from banks. The more the years of successful business the high the chances of getting finance support
3. The promoters/shareholders or directors of the business and their experiences. The banks will look at the profile of the main persons behind the business and gauge their experiences in the trade. Here always the character issues will be ascertained. The bank will use the Credit Reference reports to ascertain the financial history of individual persons behind the company. Other public sources of information will also be consulted. The purpose is to ensure the person behind the company are of good standing.
4. The skill and experiences of the management team is also key. Again here, the interest will be in the character of the Team, skill and experiences to steer the company to success. In this also an evaluation of the key human resources will be undertaken. For instance, the banks will want to know the profiles of engineers, architects, accountants that the company employs.
5. Job profiles. The analysis of jobs previously executed will be undertaken. The bank will look at the previous jobs executed successfully, the current jobs and the pipeline. This conveyor belt analysis assists the bank to evaluate the stability of the cash flows and the operating efficiency of the company.
6. Arsenal of equipment. Equipment are a key matter these days. The level of equipment should be commensurate with the jobs the contractor is undertaking and of course the specialisation. For instance, a road contractor will be assumed to hold more equipment than a contractor specialising in building construction. In the current market, lack of equipment subjects the contractor to constant hiring which brings in the challenges of costs escalation and loss of control
7. Membership to professional bodies. If the owners of the company are engineers, they should be registered members of UIPE, and the same for Architects and with valid practicing certificates. The company should also be a member of associations like UNABSEC.
8. Operating efficiency vis-à-vis other players in the industry. Are the ratios above or below the industry bench mark? The bankers will want to deal with leaders and not laggards.
9. Auditors. The company should have audits and submit (unqualified) audited accounts on time. The company should have clear deadlines to undertake audits after financial year end and reports submitted to bankers on time.
10. Corporate Governance issues. The contractor will be required be compliant with all relevant statutory requirements. The key ones are: Properly registered as a corporate body, pays relevant taxes and submits annual returns as required.
11. Client's base: The contractor can decide to specialise to either Public or Private sector jobs. There is no preference from the banks point of view. However, the bank will want to ensure that the contractor understands the dynamics in each of the sectors. For instance, the public sector jobs will require compliance to public procurement standards. Private sector jobs have simple requirements. Whatever the contractor choses it must be done as per the requirements. The company can also chose to participate in both sectors.



The main challenges with financing contractors arises from relatively low profit margins, volatility in the industry, high levels of competition...

Second we look at financial analysis.

This is straight forward. It is based on information obtained from the financial statements which as mention above must be audited and unqualified report submitted. The banks will require at least 3 years statements. From the financial statements, the bank will examine the following:

1. Company probability. The banks want to ensure they deal with a business which is profitable and with good margins. If the business if profitable for all the three years, that's good performance. If unprofitable for one of the year, a good reason should be given. If unprofitable for all the threes, it's unlikely the bank will finance the company.
2. Liquidity. Liquidity is the ability to meet short-term obligations. The company should have enough cash to meet payments for wages, utilities for smooth running of the business.
3. Solvency. This is the ability of a company to meet its long-term financial obligations. Solvency is essential to staying in business. The banks will assess, in addition to the tangible net worth, that there are enough funds to cover loan principle and interest payments, capital expenditure, rent, lease payments and dividends.
4. Leverage. Leverage is the level of debt in the company. The high the leverage, the less the chances of obtaining funding from the bank. The leverage ratio should be kept in manageable levels. Since much of the debts to a contractor appears short term, keeping this ratio low is key for the bank.
5. Bank statements analysis. The banks will also ask for bank statements and study the trends and behaviour. If the company has existing loans, the bankers will assess how they are paid. The accounts will be also be checked for cases of unauthorised excesses and returned cheques

Other matters

1. Other lenders covenants. If there are other lenders with loan covenants on the contractor like negative pledges, the bank will put that into consideration prior to additional funding.
2. Structure of financing required. For Construction Companies, banks preference is to finance through non funded lines i.e Guarantees. Preferred funded line is certificate discounting. Overdrafts will seldom be considered.
3. Collateral. Land and buildings and equipment form the preferred collateral by the banks. Others securities will include guarantees, debentures, contract assignment will be considered.

To conclude the bankers will consider both financial and non-financial elements in assessing the contractor's application for credit extension. Cash flows and projects profile are very important. It's important that at the time of submitting the application, the contractor submits a complete file with all the information. Early submission of application is equally important to avoid last hour rush.



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The importance of quality signs and road markings

By Francis Agaba



The recent spate of fatal road accidents on the newly constructed roads, especially the **Kampala Masaka highway** has generated a lot of concern in the general populace. They have also created a lot of debate on local media as well as social media. So many questions are being asked why these accidents are happening on new roads but not as many answers are forth coming.

In that regard, we spoke with a professional sign maker about the importance of road signs and markings and what effect they have on the safety of drivers and passengers on highways. The situation is worrying.

According to Mr. Isaac Oteng, a professional sign maker, road signs and markings are guides for a driver to move safely on the road. Un-marked roads would be akin to driving at night without headlamps. Road signs also give the driver crucial information such as name places, directions and speed limits when approaching towns and exchanges. The driver is constantly reminded what speed to move at, where they are heading and respective distances.

Ignoring signs or not understanding their meanings can lead to bad accidents. Which explains why accidents may occur in built up areas along the highways if drivers ignore speed limits.

New road markings

Road signs and markings have been around since time immemorial but in Uganda, we are only beginning to see “new” marks on the roads. The new highways have been expanded and some include climbing lanes and parking

lanes. Our roads didn’t require the markings because they were a smaller gauge, and single lane in some places.

Now that the roads have been expanded to allow more vehicles, road markings and signs are very crucial in keeping the roads safe.

Challenges

Mr. Oteng contends that the quality of road markings and signs in Uganda is very low. He says that some contractors use ordinary paint to mark roads which does not last long.

Apparently, road markings must glow at night, which is not the case in Uganda. Some contractors are using commercial grade signs which have a life span of about 6 months, whereas engineering grade reflective signs can last up to 7 years.

It is extremely dangerous to drive on asphalt at night without proper markings.

At the edge of the road there is a white line to mark the end of carriage way. Imagine driving at night without that line or the center line. What this means is that poor road markings which are not visible at night, are a big hazard to road users.



Do our drivers understand these signs and markings?

According to Mr. Oteng, qualified drivers must know all road signs and markings. In his view, Police should clear all non-qualified drivers off the roads. The fact is that many if not the majority of drivers on our roads have acquired driving permits under dubious circumstances. It is doubtful if they really understand the Highway Code.

There is need for regulators to intervene by educating the general public about road safety. Road safety and the highway code need to be embedded in our curriculum so that people grow up knowing these things.

Who is responsible for ensuring standards?

The National Road Safety Council under Ministry of Works is mandated with road safety and awareness. They have set standards and guidelines for contractors to adhere to.

All materials for road works must be tested and certified by Central Laboratory also under

Ministry of Works. After receiving a test certificate, the consultant then authorizes the contractor to award the sign or making job to the supplier.

However, some contractors, especially Chinese companies bring signs made in China and install them without certification. Some of these signs are wrong with wrong fonts, wrong sizes, and wrong colors.

Standards organizations such as UNBS may not be well equipped to test and standardize signs and road marking materials. There is urgent need for testing and standardization of sign and marking materials.

Contractors should not dictate what materials to use. They must work to set requirements /guidelines, not their own. The supervising entity should be keen on checking certificates from manufacturers.

Isaac Oteng is the Technical Director at Supersigns Ltd. He has 20 years' experience in sign making.

Email: i.oteng@supersignslimited.com,
Tel: 0772645059,
Website: www.supersignslimited.com



Collapsing buildings, who should be held liable?

According to media reports, a building collapsed in Makerere. In this case, it is reported that the lower floors of the building were occupied, while the building was still under construction.

It has also been said that the building owner used a non-qualified engineer, and proceeded with plans which were not approved by KCCA. We've seen cases of buildings collapsing in Kampala, some of the most recent being at NSSF Construction site in 2008, Magobe Arcade in 2013, Kansanga in 2014 etc.

WHO SHOULD BE HELD RESPONSIBLE:

Legally, if it is proven that the building was sub standard, then someone will have to be brought to account. For example in the most recent building collapse in Makerere, it appears the person bearing direct responsibility is the building owner, but also, the persons affected might wish to hold KCCA liable for not doing enough while an illegal building was being erected. Because in this case, it appears like he plans were rejected in 2009, and yet construction continued until 2016, when it collapsed, and the lower floors were occupied. In case something like this happens to you, first check out if the building construction was approved by KCCA, if so, then they could be liable, if not, then direct responsibility falls with the owner of the building. If the owner of the building is transparent, and depending on the contract signed with the construction company, then the owner could instead pass the blame and responsibility to the construction company. If you know of any one affected by that collapse, tell him/her to seek the appropriate legal redress and not merely sit on his/her rights or try and use unlawful means to get compensated.

In many of these cases, the story is as if from the same script;

- a) Building under construction
- b) Building collapses,
- c) people are injured or die,
- d) Police and KCCA come in
- e) Claims that construction plans were not approved.
- f) Claims of shoddy works or Engineer not being approved.



WHAT ABOUT RELATIVES OF THOSE WHO LOST LIVES:

Under the Law, the family of a deceased person can sue another for causing a death, if the death was caused by Negligence. For instance, if the building owner was negligent during construction, then the family of the dead person can go to court seeking to recover money from the driver of the vehicle, or the owners of the vehicle. However, under Section 6(3), the victim's family must start the court process within 12 months after the accident, otherwise they will not be able to recover through court.

However, for one to sue, then such a person must be directly affected as a result of the said death e.g someone like a relative, child, dependent etc. mages (compensation) for your injuries.



LESSONS TO LEARN:

If you wish to construct a building, ensure you sign proper contracts with the construction company which contract might eventually shield you from liability in case of an accident. Do not commence construction without having your plan approved by KCCA. Finally, and most important, in case of such an accident, do not wait for the matter to reach court, always try to negotiate for an out of court settlement with those affected.



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\$300 million convention center opens in Kigali.

East Africa's largest convention center has opened in Kigali, Rwanda. The \$300 facility comprises of a 5-star hotel, with 292 rooms, conference hall with capacity of 5,500 people, meeting rooms and office park.

The project which kicked off in 2009 and was initially set for completion in 2011, officially opened its doors for business July 8th 2016. The project suffered several delays which pushed the completion date to 2016. However, when the opportunity to host the African Union Summit was given to Rwanda, the project was expedited.

Speaking at the opening ceremony, President Paul Kagame reiterated Rwanda's spirit of resilience. "Throughout the process we were failing and trying again but am very happy that today we stand here to celebrate the conclusion

of immense work that has been put into this and can proudly look back on those efforts." Rwanda has been through a lot of challenges least of which a civil war that wiped out nearly a million people. However, the Rwandan spirit and visionary leadership of President Kagame has put Rwanda on a steady path to recovery.

The Convention Center is a beacon of hope and testament to what can be achieved with the right set of circumstances. "We have failed many times...but we have succeeded many times than we have failed. We keep learning from our failures. This is what happened with this facility."

The dome structure is the most important architectural element of the Convention Center. It pays tribute from an African hut, which our ancestors lived in many years ago.

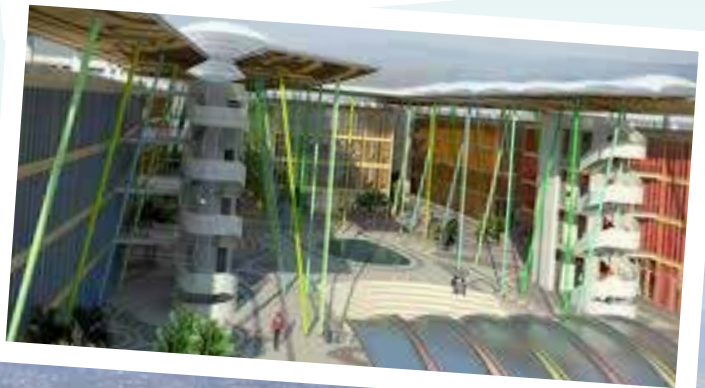


The Kigali Convention Center is an architectural icon which is set to put Rwanda on the world map, akin to the Eiffel Tower or Statue of Liberty.

It was designed by German Architect Roland Dieterle in 2004. He considers the dome structure as the most important architectural element of the Convention Center. It pays tribute to the African hut, which our ancestors lived in many years ago.

Inspiration for the multi colored patterns came from kitenge, a popular dress in Rwanda. His interpretation of the kitenge on the building is brilliant. "we believe that bringing fresh colors, bright colors and also something which is delightful to people is something that is positive for the new identity of Rwanda."


Kigali convention center is hosting the African Union Summit this July, 2016.





House of concrete

Revolutionizing concrete production




To a layman, concrete is just a mixture of stones, sand, cement and water. Not far from the truth. However, concrete going into serious commercial projects such as bridges, large shopping malls and dams is better handled by professionals.

Proper concrete is a fine balance between the component materials in the mix. The proper water-cement ratio is crucial for ease of workability and structural integrity of the building.

Most concrete work in Uganda is done by hand mixing and pouring on site. This is a very laborious exercise and not suitable for sensitive projects that require properly batched concrete. This arrangement is crude and doesn't guarantee quality or consistency of the concrete mix. However, statistics available from UNBS show that only about 2% of concrete consumed in premixed i.e mixed by a concrete producer and delivered to site in concrete trucks.

This method, though currently the defacto means of producing and powering concrete by the big contractors, has got its own challenges. Once concrete has been mixed, it has to be powered in a given time frame or it would harden and end up not being usable. With the insane traffic in Kampala, any hold up could spell disaster for the client, as the cost is born by the client.

It is such challenges on the market that prompted the founders of House of Concrete to solve the 'concrete problem' in Uganda. House of concrete is not your regular concrete producer. Rather than mix concrete and deliver it to site, they have mobile batching plants which can produce concrete on site. Their ultra-modern machines are computer controlled



and have separate hoppers for stones, sand, cement and water tanks.

They (House of Concrete) can quickly create a mix to suit the client's specific needs. For instance they could create separate mixes for retaining walls and immediately switch to a mix for a slab on the fly. Most developers in Uganda do not realize that time saved equals money spent. More time on site means more money to pay laborers, equipment hire etc

House of Concrete has created a service that will change the way developers and contractors look at concrete. Their system is transparent and gives the client options. Client pays for only what they consume, no need to pay for excess or overruns.

This system has clear cost saving benefits to the client. For starters, there are no transport overheads from moving concrete from production facility to site as the whole process is done on site. Besides, there is no need for additives and associated costs needed to stop concrete from drying up in transit to site.

House of concrete promises very competitive rates. They also promise a high turnover, up to 360 cubic meters or the equivalent of 50 trucks in just 2 days.

Last but not least, they promise quality and consistent concrete produced right at your site.



The Amazon Echo

At a glance:

Voice controlled speaker. Connects to the internet to stream music, podcasts, news, audio books and news. Connects to other gadgets to control the home with your voice.

Costs \$179 (about UGX 600,000/=) from www.amazon.com



SMART HOME



You no longer have to leave the comfort of your bed in the morning to turn on your computer to read mails and catch up on news and tweets from your favorite "tweeps".

You can do all this in the comfort of your bed. The Echo speaker from Amazon is your digital voice controlled companion.

Amazon, for the un-initiated, is the world's largest online supermarket. They stock everything available under the sun. From electronics, household goods, appliances, clothing, books, music and magazine subscriptions. Amazon also has video and music streaming services with

a catalog of blockbusters and millions of songs and movies/TV shows to choose from. You would be lost for choice on Amazon.

The Echo speaker is Amazon's latest hit gadget. It is a bit of a departure from their usual ebook readers, tablets and smart phones.

These gadgets are clearly aimed at consuming products from Amazon's vast catalog of books, magazines, music and movies.

The Echo is another animal altogether.



“ One of the most popular features of Echo is news. Echo offers a list of headlines and news bits from popular sources including CNN, BBC and Fox Sports. ”



How it works

The Amazon Echo connects to your home WIFI network and can then be controlled from the Alexa app on your smartphone or tablet.

Once it is up and running, you can control it with your voice. It is a good listener. Every time you say ‘Alexa’ or ‘Amazon’ or ‘Echo’ it lights up showing that it is ready for your commands.

You can do a lot with the Echo. For instance you can call a cab through Uber, listen to podcasts/music or catch up on news.

At the heart of Amazon’s Echo is Alexa, Amazon’s voice assistant similar to Apple’s Siri.

Some other things you can do with the Echo include setting alarms and timers, managing shopping lists and ordering for products on Amazon. Believe it or not, you can buy things on Amazon without even turning on your computer. Just tell Echo to buy them for you and it will humbly comply.

One of the most popular features of Echo is news. Echo offers a list of headlines and news bits from popular sources including CNN, BBC and Fox Sports. You can add more news sources through the Alexa app.

Amazon has also opened the Echo to app developers in order to expand its functionality.

Some big names in the home automation business have already embraced the Echo. These include Philips, Belkin, Insteon and Samsung. You can now simply tell the Echo to turn on the lights or turn on the security system. No need to turn on any button or walk to a switch. All this is possible through a simple voice command. ‘Alexa, turn off the lights and switch of the TV’.

With the Echo, Amazon has created the gadget of the future, only that it is available now for you to enjoy! ‘Thank you Alexa, see you next time’

The local content dilemma!

Analyzing the opportunities and challenges from the UNABCEC point of view



Eng. Francis Karuhanga
Board Chairman UNABCEC

At the 10th Heads of Procurement forum held at Speke Resort, Munyonyo on 10th June, 2016 the UNABCEC Board Chairman Mr. Francis Karuhanga made a key note presentation on the theme: Supporting local content in public sector procurement with the case study being: **Opportunities and Challenges of Implementing Local Content—UNABCEC Perspective.**

Here are excerpts from his presentation.

Abstract

UNABCEC is a 23-year-old non-profit, non-political, member-driven association bringing together genuine Ugandan players in the construction industry.

We work closely with Government and other stakeholders in realizing the following, for our members:

1. To undertake policy advocacy with Government on key challenges in the construction industry;
2. To identify, advance and represent members' interests;
3. To undertake capacity building and development in the construction sector;
4. To promote fair and ethical business in the construction sector; and
5. To promote networking and collaboration amongst various stakeholders in the sector.

The general objectives of Local Content are

1. Generation of employment opportunities for nationals
2. Increased engagement and participation of domestic nationals in the industry
3. Training and development of nationals capacity in building of local expertise
4. Reduction of expatriate staff of companies involved in the sector
5. Utilization of local materials, goods and services.

Implementing local content in a developing country with limited capacities and dealing with established players with global connections is not easy. Uganda's main obstacles in implementation of the local content policy/ideas is **lack of local capacity** and **capabilities in virtually all sectors** which makes it difficult for local businesses to provide works, goods and services competitively in terms of price, quality and timely availability.

The Ugandan landscape

For the last 11 years Infrastructure development has been at the heart of Uganda's priorities. H.E President Museveni's commitment to prioritize Transport (Roads, Railway) and Energy development has remained steadfast. E.g. Road Infrastructure budget has grown exponentially over the last six years from UGX 250billion to UGX 3.8 trillion. In the last two years the Government committed our own funds and completed the construction of paved National Highways.

Unfortunately, local contractor contribution is very minimal and diminishes even further in larger infrastructure projects. As all medium to large projects are dominated by foreign contractors (nowadays mostly from China) this trend has a direct negative impact on the economy as cash injected into infrastructure does not bring about the desired creation of jobs in the short to medium term, nor does it trigger longer term investment needed for stability. Local contractors must be brought to the forefront of delivery of

infrastructure development if GOU funds (including oil revenue) are to be invested for equitable returns.

Local content in public sector

The PPDA law and Regulations which govern the procurement and selection of works contractors **has no specific practical alignment and directive** to grow Local Contractors. The Law is very “Convenient” to foreign large contractors even if some are “ghosts”!

When such companies undertake the works, **the local content is limited to only provision of unskilled or semi-skilled labour**, which inputs are insufficient to make meaningful impact at project implementation stage and certainly such back stage responsibility has contributed to the slow growth of capacity in the local construction industry.

In the short term, the **country continues to lose the benefit of employment - which the Ugandans anticipate at the inception of such projects while we are also forfeiting future impacts of growth of the skilled workforce and requisite investment in the construction industry.** Both are essential ingredients for transformation to a modern and prosperous Country.

Development of Local Content in Public Sector

The key issues and constraint affecting the development of the construction sector are

1. The erratic and unpredictable work opportunities and resultant inconsistent cash flow that has consequently hampered institutional and human resource development of contractors.
2. The Construction Industry is currently highly distorted and unpredictable. It is largely dominated by foreign firms, some of which are state owned firms whose business operations are subsidised by their countries of origin. There is another set of approximately 800 local construction firms that do not belong to the national association, the majority of which are speculators – commonly known as “Brief Case Contractors”. All these contractors have been allowed to participate in the construction industry without being regulated.

The diversity in capacity and objectives of these industry actors has led to the emergence of an unlevelled playing field. This dynamic has led to the genuine local firms being forced to go without business for many years and many have closed / or are due to close shop and exit the industry.

The foreign firms largely fill all the technical positions with their nationals at the expense of locals thereby negating knowledge sharing and transfer. Ugandans have been relegated to casual works. This has in the

long run killed competition from local firms thus giving foreign firms a field day in Uganda on their own terms.



PDU members at the 10th Heads of Procurement forum held at Speke Resort, Munyonyo on 10th June, 2016

Though Government has made several attempts to enacting some laws, this has not translated into the desired local capacity for the following reasons;

1. Lack of a policy for deliberate capacity development .This is evidenced by the lack of policies in the implementing agencies to grow and promote performing local firms through continuity of business for companies that have invested in the sector;
2. Agency trading mostly seen in the development projects (Mukono-Katoosi Road Project saga etc);
3. The mushrooming unclassified companies that do not subscribe to UNABCEC competing for major construction projects yet procuring entities lack adequate capacity to perform due diligence on the capacity of bidders without leading to significant delays in the procurement processes. Denying tenders to such companies has often led to complaints leading to administrative reviews thus causing significant delays in the procurement processes;
4. Lack of institutional policy to deliberately train local firms in construction processes, techniques, methods, procedures and technologies;
5. The high cost of capital that leads to significant losses and loss of investment if contractors spend time without business;

6. In-house trading creating unfair competition in the procurement process;
7. Unrealistic client qualification requirements that eliminate capable local firms with similar or better work experience from qualifying for contracts that they are able to execute.
8. Lack of continuity of business for companies that have invested in the sector; and
9. Difficulty in accessing facilities from financial institutions due to poor relationship with financial institutions resulting from high default rates.

The problem has been aggravated by some of the local firms that succeed in getting work but end up doing shoddy work due to factors including; ‘

1. Lack of capital
2. Delayed payments
3. Non UNABCEC membership
4. Inability to profitably cost a project and reliance on clients estimate
5. Lack of knowledge and experience in construction by all parties (client/consultant/contractor)
6. Lack of skilled personnel in construction
- 7) Lack of organizational capacity
- 8) Lack of credibility with financial institution

Why develop local content?

The benefits of building capacity of local firms are enormous and include:

1. Improved efficiency in planning and management by entities;
2. Increased budget absorption capacity by entities;
3. Reduced contract supervision costs by entities;
4. Reduced dependency on expensive international contractors by entities in the long run;
5. Reduced procurement cycles for contracts by entities;
6. Lower overheads than the international companies leading to better value for money for entity and greater retention of profits in the country;
7. Lower cost of works and increased savings accruing from increased local participation; and the resulting multiplier effect on the medium and long term economic performance.
8. The presence of competent local firms with adequate capacity to execute development and rehabilitation projects in the construction industry that will provide competition to foreign firms which would effectively reduce the rates of construction.

The resulting benefits would have a positive impact on local firms and the national economy through:

1. Employment of Ugandan professionals will be guaranteed and will lead to strengthening the qualifications in the construction industry.
2. It would prevent capital flight as money owned by Ugandan firms would always remain and be invested in Uganda by Ugandans reducing the pressure on foreign exchange.
3. Easier access to affordable finance and credit for procurement of construction plant and equipment by the local Contractors;
4. Improvement on the tax base as more domestic firms contribute to the economic growth of the nation.
5. More regular access to work hence stable cash flows;
6. Increased turnover for local contractors;
7. Competent firms with capacity would be able to do projects outside Uganda, exporting our expertise, thus attracting foreign exchange.
8. Local firms are the best engine for distribution of the national cake and for addressing the problem of high youth unemployment.
9. Domestic construction firms would provide the best channel to trickle down wealth to the country side.



Recommendations to promote local content

Exclusive Local preference and reservation;
Domestic/citizen contractors are based and operate in the district, municipality, urban authority and sub-counties should be given Local preference and reservations when participating in procurements using funds from released from central government, except where it is established that local capacity is not available.

National Reservations.

Introduce a threshold up to which exclusive preference shall be given to domestic/citizen owned contractors in all procurements using open tendering methods to the sum of:

- Fifteen billion shillings for procurements in respect of road and bridges works;
- Six Billion shillings for procurements in respect of other works; and
- One and half billion shillings for procurements in respect of goods or services

Margin of preference.

Where citizen contractors have entered into contractual arrangements with foreign contractors, a twenty percent margin of preference in the evaluated price of the tender should be applied.

Mandatory subcontracting domestic companies/providers
Foreign-owned companies awarded contracts on mega projects should be required to subcontract citizen-owned/ domestic companies to a minimum of 30% of the total cost of the project.

Mandatory transfer of skills to the subcontracted citizen-owned/domestic company

It should be a requirement that a foreign company transfer

skills to the subcontracted citizen owned/domestic companies with a view to developing their capacities.

Mandatory placement of graduate interns by companies awarded projects. Companies awarded projects should absorb interns and the number placed will be determined by the procuring entities, taking into account the length, nature, scope, complexity, and national interest of the project.

Qualifying domestic providers

To qualify as domestic providers persons or firms MUST be legally registered, with majority shareholding owned by Ugandan citizens and registered with the relevant national association.

Performance guarantee;

- The entities should release the performance bond at various stages of contract to assist domestic companies meet project related costs in construction
- The performance bond should be re-insured insurance bonds and relaxation should be revised from 10% to 5% for domestic owned firms


Advance payment

- In order to assist domestic contractors who cannot afford surety for mobilization advance the following is proposed
- The contractor to arrange for materials to be on site and for the client to pay 10% of the materials for permanent works are on site and the value of materials on site is not less the value of the 10% of advance payment.
- The 10% advance should be made payable to a commercial bank nominated by the contractor in his bid. In turn the bankers would then be more prepared to extend low interest rate loan facilities to the contractor. Government would effectively be providing part of

contractor's working capital requirement and interim payments would also be made direct to the bank






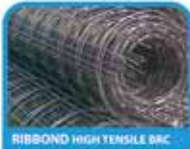






- Institute 10% plant/ equipment advance payment direct to supplier.

Local firms' participation in the supply chain –with strengthened capacity to compete is crucial to the promotion of local content. This will guarantee organic growth of firms into bigger construction firms that will compete with international companies. These deliberate incentives will safeguard the construction industry and spur meaningful and sustainable economic development.






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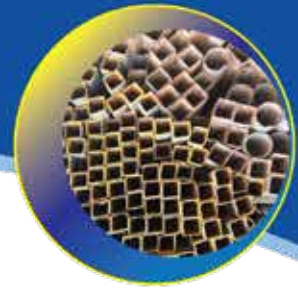
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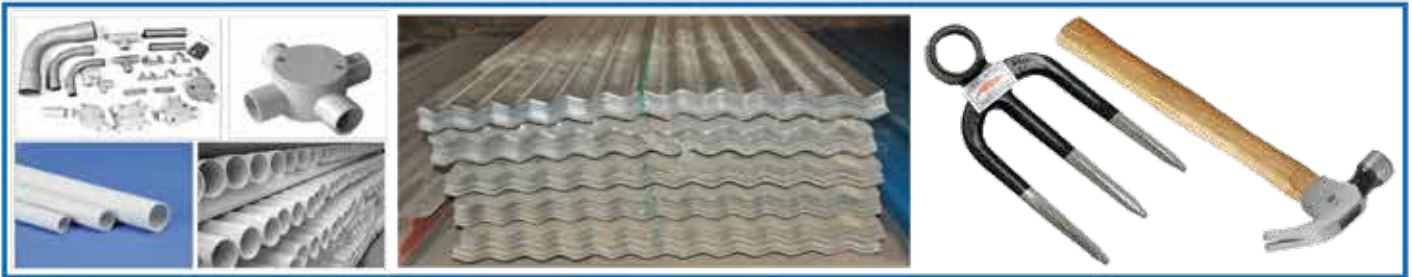
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Together We Build

Welcome To



UNABCEC

eXpo 2016

*Construction Machinery, Building Materials, Machines
Stone Crushing Equipments & Construction Vehicles*

Theme:

*Supporting The Local Contractor For
Enhanced Productivity And Job Creation*

Date: 21-22 Sept. 2016

Venue: Silver Springs Hotel



UNABCEC

STRATEGIC PRICING FOR PROFIT TRAINING



8TH TO 10TH SEPTEMBER 2016 KAMPALA

ARE YOU INVOLVED IN CONSTRUCTION AND WANT TO:

- Understand the tender documents and specifications
- Control your project costs
- Ensure you price tenders competitively and profitably
- Empower your management to decide whether to tender

▼ We have the answer;

UNABCEC has organised a 3 day non residential training on Strategic pricing for profit (Estimating, Costing and Building up rates) for owners of construction projects, contractors, consulting Engineers, project managers and all those involved in construction works.

▼ About the course

The training will be delivered by a team of Ugandan experts. By the end of the training, you will be able to:

1. Build-up realistic unit rates based upon evidence of costs and productivity
2. Identify opportunities for profit from tender documents and bills of quantities using Contractor's estimates
3. Price competitive tenders
4. Assess and cost common risks and allow for contingencies
5. Make final adjustments to win tenders
6. Monitor and record costs to provide a firm foundation for building up rates

▼ Registration

The course is open to the public at the cost of UGX 600,000/= to cover for tuition, training materials, a certificate, lunch and refreshments, payable in advance. Certified UNABCEC member will be subsidized at a cost of UGX 500,000/=

Registration deadline is 5:00pm Wednesday, 7th September 2016

▼ Payment options

By Cheque to UGANDA NATIONAL ASSOCIATION OF BUILDING AND CIVIL ENGINEERING CONTRACTORS
By Bank transfer to Acc No. 0102010826300 Standard Chartered Bank, Speke road Branch

For further information, contact The Secretariat

Uganda National Association of Building and Civil Engineering Contractors (UNABCEC)
Plot M764, Coronation Avenue, Show-grounds, Lugogo/
P. O. Box 34046, Kampala, Uganda
Tel: +256 (0)392 795 036 / 0312209400
Email: unabcece@unabcece.co.ug; unabcece@yahoo.com
www.unabcece.co.ug



Training Programme

1.

Day One

8:00am Registration
8:30am Start of Training

1. Course Overview / Introduction to the UNABCEC Training

- Make decision to Tender
- Respond to an invitation to tender
- Follow the instructions to tender
- Identify how risk has been allocated
- Remedies as presented in the tender documents
- Make an informed decision as to whether to bid!

Refreshments**2. Scope of Work and Method Statement**

- Abstracting
- Method statement preparation

Networking Lunch**3. Unit Cost analysis for Labour and Materials**

- Establish staff and labour unit costs
- Identify key elements affecting labour and material costs in building and civil engineering works
- Apply these principles to bill items in any tender document

Refreshments**4. Workshop 1 - Interaction**

17.00 End of Day One

2.

Day Two

8:30am Start of day two

1 Unit Cost of Plant

- Identify expenditure on equipment
- Identify elements that affect unit cost of equipment
- Apply the principles of unit cost analysis
- Relate Method Statement and unit cost analysis

Refreshments**2 Unit Rate Analysis of Roads**

- Cost inputs
- Transfer basic cost data into Unit Rate Analysis sheets
- Estimate unit rates and price the bill items using derived unit costs

Networking Lunch**3 Unit Rate Analysis for Buildings**

- Participants should be able to develop a Unit Rate of Concrete

Refreshments**4 Workshop 2****Interaction (Civil and Building works)**

17.00 End of Day Two

Day Three

8:30am Start of day three

1 General Expenses

- Explain the term general expenses
- Identify project expenses not included in the bills of quantities but cost has to be met by the contractor
- Cost the items for inclusion in general expense totals

Refreshments**2 Completing the Estimate and final Tender review**

- Analyse the estimator's report
- Analytically convert an estimate into a tender
- Determine the level of Overheads and Profit to apply to unit rates
- Complete the Tender Summary Form / bid form

Networking Lunch**3 Course Recap / Feed back**

- Recap of the entire three day session (summary)

Refreshments

4 Wrap up / Closing ceremony

17.00 End of Day Three



UGANDA NATIONAL ASSOCIATION OF BUILDING AND CIVIL ENGINEERING CONTRACTORS

Lugogo UMA Show Grounds, Plot M764 Coronation Avenue, P.O. Box 34046, Kampala, Uganda

Tel: +256 (0) 392 795036 • secretariat@unabceec.co.ug • www.unabceec.co.ug

About this training

This special three-day event has been designed to provide a detailed insight into the preparation and analysis of how unit costs translate into Unit rates; - that are used to price bills of quantities. The programme has been designed to be highly practical and includes active participation in 'hands-on' interaction and discussion sessions. The trainers are highly experienced in both design offices' and in the field / Construction sites as decision makers.

Who should attend?

This event will be of great interest to all those actively involved in construction projects, including representatives from Consulting Engineers, Contractors, Funding Agencies, Employers, Insurers, and Manufacturing Organisations as well as representatives from the Legal, Construction Procurement and other Construction Professions.

If you cannot make it yourself, perhaps you could forward this email to a colleague to whom it may be of interest?

Certificates and documentation

Participants will receive a UNABCEC course completion certificate, and of the Training material during the event.

Venues and date

Training will be in Kampala from 8th to 10th September 2016, and Venue details will be sent following confirmation of registration



How to register

Please register using one of the following methods:

1. Online: Visit our website www.unabcec.co.ug Interested participants are required to fill the application forms that can be downloaded from the website.
2. By Email: Please email full registration information or booking form to: programs@unabcec.co.ug or unabcec@unabcec.co.ug;
3. By Phone: Just phone Registrations on Tel: +256 392 795 036 / +256 779 518 824

Training fee

- The course is open to the public at the cost of UGX 600,000/= per delegate, to cover for tuition, training materials, lunch and refreshments,
- Certified UNABCEC members pay a subsidized cost of UGX **500,000/=**

The full fee is payable in advance and includes the cost of all lunches, refreshments, tuition, course certificate and Documentation. The language of the training is English.

Payment methods

Payment of the fee is due in advance as follows:

1. By Cheque payable to Uganda National Association of Building and Civil Engineering Contractors
2. By bank transfer (in Uganda shillings) to: or to our bank Account No. 0102010826300 Standard Chartered Bank, Speke road Branch

Payment is required in advance of the event and must be made in Uganda shillings (Ugx). UNABCEC reserves the right to refuse admission or withhold

materials if payment is not received. Invoices and/or receipts will be issued to all delegates. Acceptance to the training is after evidence of full payment has been received.

Travel and Hotel accommodation

Participants are responsible for arranging their own travel and overnight hotel accommodation and these are not included in the fee.

Cancellation, refund and transfers

Cancellation by the delegates: Cancellation by the delegates must be made in writing and received 7 days before the event date. It is regretted that no refunds will be made after this date. Substitutions may be made at any time before the start of the training.

Cancellation by organizers:

It may be necessary for reasons beyond the control of UNABCEC to change the contents or timing of the programme, the speakers, the date or the venue. In the unlikely event of the programme being cancelled by UNABCEC, delegates will be given a one week notice and automatically a full refund will be made.

In the event of cancellation, organizers will not be liable for any pre-booked travel and or accommodation costs.



Application Form

1) Personal Details

- a) Sur name: _____
- b) Given name: _____ Other names _____
- c) Gender: Male _____ Female _____
- d) Date of birth: _____
- e) Highest education level: Primary ___ Secondary ___ Vocational ___ University ___
- f) Profession _____
- g) Nationality: _____ Country of Residence _____
- h) Residential address (District): _____
- i) Email: _____
- j) Telephone: _____

2) Work Experience

- k) Name of current employer: _____
- l) Position/Title: _____
- m) Location of company (District): _____
- n) Is the company a UNABCEC member? Yes ___ No ___

3) Course information

- a) How did you know about the training? (please tick appropriately)

Newspapers _____ UNABCEC website _____ From a friend _____ Through email _____

Other (specify) _____

- b) Who is your sponsor? (please tick appropriately) Self _____ Employer _____

- c) Please outline your expectations from the training

All correspondences should be addressed to Training organisers:-

Uganda National Association of Building and Civil Engineering Contractors (UNABCEC)

Plot M764, Coronation Avenue, Show-grounds, Lugogo

P. O. Box 34046, Kampala, Uganda

Tel: +256 392 795 036

Email: unabcec@unabcec.co.ug; unabcec@yahoo.com www.unabcec.co.ug

Why you should embrace **open plan living.**

Adopted from casedesign.com

Are you a home owner looking to maximize the space in your house? Are you about to embark on a home construction project? Are you an open minded person? Now that we have your attention, let us talk open plan floor space, shall we?

If you are not already living in an open plan space, which am guessing most people reading this article are not, understand you are under using your space. Sitting rooms are underused. By creating a “great room” by combining the kitchen and sitting room helps the sitting room get more use and the kitchen gain some much-needed extra space.

This article may tempt you to remodel your space of you are a home owner. Better still if you are about to build a new house, consider an open plan layout.

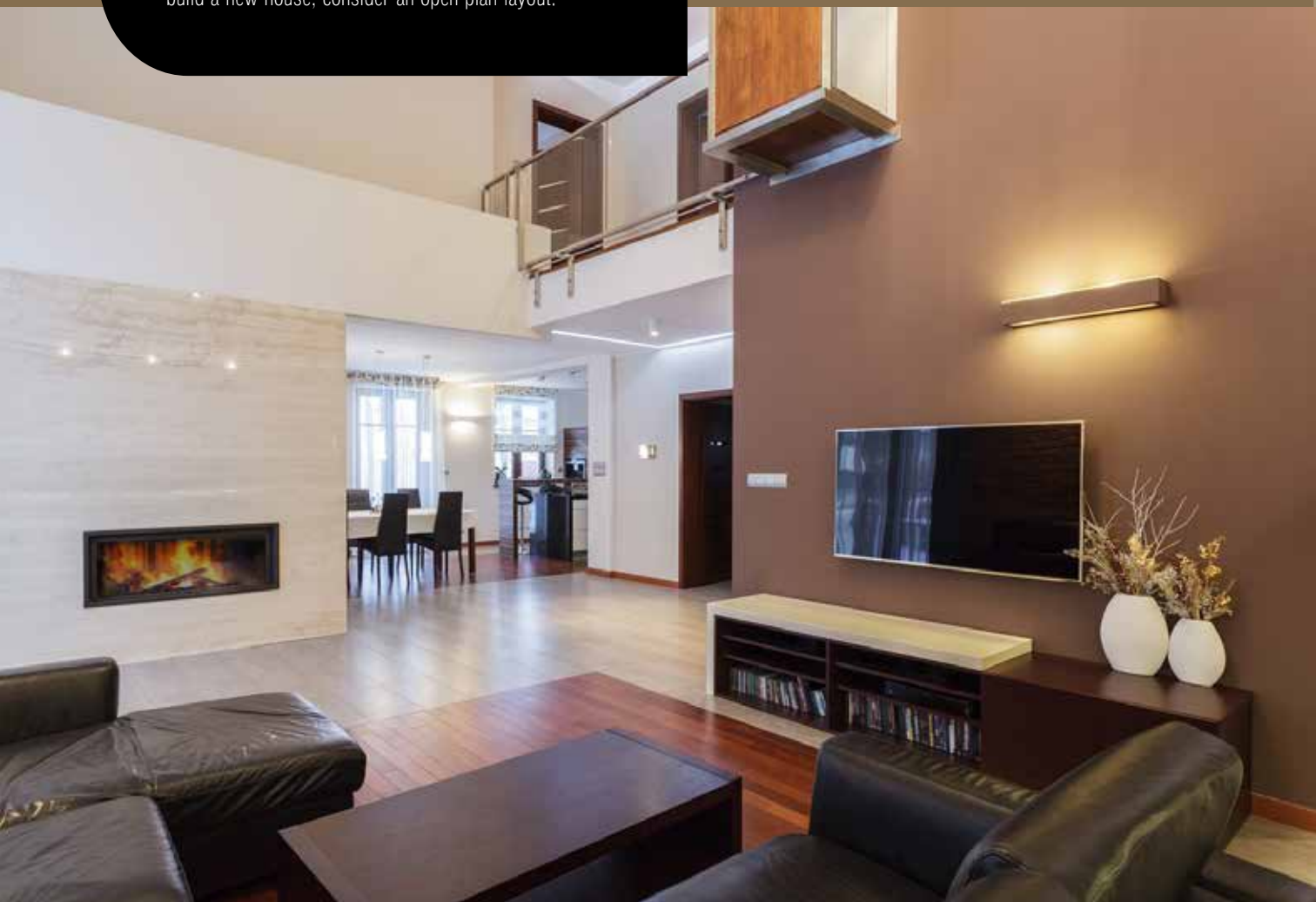


So what exactly is an open floor plan?

Just as the name suggests, a home with this type of layout has one or more large, open rooms that function as multiple rooms within a single living space. The most common is a “great room” that combines the kitchen, dining room, and sitting room in one shared space.

These floor plans usually work extremely well in homes with less square footage – sometimes out of necessity – while larger homes have more leeway to work with when integrating great rooms into a floor plan.

The mindset has been that the more rooms a house had, the more attractive, compartmentalized, and functional it was. But designers and homeowners alike started realizing that homes with open floor plan designs could fit more usable living space into the same amount of square footage.





Advantages of open floor plan

Let us examine the advantages of open plan layouts.

More time to socialize

The person cooking or cleaning in the kitchen can converse with people in other rooms.

Keep an eye on the kids

Open layouts allow parents to cook and do other household duties while their kids play in the same room.

Increase views and natural light

The removal of interior walls allows sunlight from windows in the exterior walls to permeate throughout the house.

Better for entertaining

When guests are over you can be part of the group while you cook and serve food at the same time.

Advantages of closed floor plans

So what is the advantage of the closed plan alternative? Since most people have this type of plan, shall we look at the advantages? Closed floor plans offer a larger number of smaller sized rooms that can provide privacy and organization.

More privacy

Many households have people with different ages and schedules, from babies to teenagers and grandparents or nannies that all live in the same home. Enclosed spaces may work better in a house where everyone needs their space.

More walls for artwork

If you are an art enthusiast and need ample space to display your favorite works you will need wall space. Also, depending on the delicacy of the work, direct sunlight may damage the art. In this case, walls are a good thing!

Easier to clean/contain messes

You may prefer an enclosed playroom for kids or rooms with doors that can keep messes out of the main rooms, making you look and feel like a better housekeeper.

So what is the best plan for you?

That is all up to you.

“ The mindset has been that the more rooms a house had, the more attractive...”



Clay bricks vs Concrete bricks

Is the clay brick better than a concrete block for a foundation wall?



Without asking you to pay me, I want to tell you why the plinth walls of your houses (including those internal walls that start below the ground floor slab) look miserable and the paint keeps peeling off even when the location of your house is on a hill.

I want to argue that many technicians don't have the right facts and have been misleading unsuspecting clients into thinking that burnt clay bricks are a better choice to work in foundation/plinth walls.

The first assumption is that since burnt clay bricks do not disintegrate under water, then they must be a suitable material to work in the foundation.

Concrete too is made with hydraulic cement and hardens under water so this should not be a criteria for disqualifying concrete blocks. We actually use mortar made out of the same materials as blocks to lay these bricks in walls.

The second assumption is that of strength of a burnt clay brick. This sec-

ond assumption is valid only when you buy poor quality hand made blocks that are made to no standard. Eco Concrete Ltd helps you mitigate this problem. The real enemy of a brick compared to a concrete block is its water absorption capacity. Clay has organic matter like plant roots, worms and also large quantities of water which are all affected by high temperatures.

The process of burning clay bricks leads to a microstructure with microscopic interconnected voids and pores which give the brick an absorption capacity that doubles that of a standard concrete block. To make matters worse, because the pores are small, surface tension and capillary forces limit draining of the clay bricks.

The clay brick therefore retains much



Eng. Apollo Buregyeya

more water from its environment and for a long time. This ensures that there is a constant moisture supply in foundation walls that are made of clay bricks. Because good quality concrete blocks have less absorption capacity and dry much faster, they tend to perform much better when used in foundation walls. Moreover, water in a concrete block means that previously unreacted cement will hydrate and lead to increase in strength, a condition we know as curing.

Unfortunately there is no simple solution once the unsightly moisture problem has started. It is best that you do it right the first time and minimise on the cost of repairs and maintenance. Don't always put the blame on the damp proof course (dpc) the next time you see a sweaty wall with paint peeling off. Sustained water supply easily corrupts the thin dpc materials. Of course there are other mechanisms of deterioration but the most dominant one in Kampala is that of high water absorption of a burnt clay brick. Not using the burnt clay brick actually saves the environment, trees and energy so the benefits are much more than performance.

Note: Some soils, especially where fertilisers are being used or soils affected by sea water intrusion, may have high quantities of sulphates and chlorides. Sulphates attack

cement products but this shouldn't be a cause for Kampala as the same attack mechanism would affect all concrete materials used in the foundation including columns and bases. This is not a common occurrence in Uganda.

Let me know if you have a house in Kampala with a burnt clay brick plinth wall and you haven't experienced wall staining, plaster swelling and peeling off of paint associated with moisture movement. Just one valid example will disqualify my premises.





Building up rates for Graveling

1. Build-up of a unit rate for Graveling on a Road Project

Estimating the cost of Gravel includes, estimating the cost of labor, equipment and material. The analysis of the entire job requires a thorough review of the plans and specifications of the bid documents, an evaluation of the soil investigation report and a visit to the jobsite where the project is to be constructed. For earthwork estimates, the bid documents usually contain a soil report that provides geotechnical information about the soil and subsurface conditions. The estimator can use other sources that help in developing an accurate estimate.

1.1. Swell and compaction factors

To estimate the cost of excavating and hauling earth, it is necessary to know the physical properties of earth because the volume changes during construction operations. For an earth work operation, the soil is excavated from its natural state, placed in a hauling unit and transported to the disposal area, where it is distributed and compacted. For example, one cubic meter of soil that is excavated from the ground may occupy 1.25 cubic meters after it is loosened and placed in the hauling unit. After the soil is compacted in place it may occupy 0.9 cubic meter. The soil to be excavated is called bank measure, in its undisturbed condition, prior to excavating or after being compacted in place. Also, any additional requirements to support the excavation operation should be also added to the cost estimating of an excavation operation. For example, excavation support, dewatering, etc.

1.2 Calculating truck requirements

The estimator has to determine the optimum number of trucks required to transport excavated materials. A simple formula can be used for this calculation based on the premise that it is desirable to have sufficient trucking capacity to ensure that the excavation equipment is able to

operate continuously and not have to waste time waiting for trucks. Obviously, three trucks will be required if it takes 10 minutes to load a truck and 20 minutes for that truck to unload and return for another load, because while the first truck is away, two other trucks can be loaded. Thus, the number of trucks can be calculated as:

$$\text{Number of required trucks} = \frac{\text{truck cycle time}}{\text{loading time}} \quad 5.1$$

$$\text{Truck cycle time} = \text{loading time} + \text{going time} \quad 5.2$$

$$\text{Loading time} = \frac{\text{truck capacity}}{\text{production rate of loader}} \quad 5.3$$

$$\text{Truck capacity (bank measure)} = \frac{\text{truck capacity (loose)}}{1 + \text{swelling factor}} \quad 5.4$$

Note that the number of trucks obtained from Eq. 5.1 should always be rounded up no matter how small the decimal. Most estimators consider it better to have more rather than less capacity so that the excavator is kept occupied.



BOQ item: 5.2.1			
Equipment	Operator	Driver	labourers
Wheel loader CAT 966	1		1
Bulldozer D8	1		
Tipper truck 6x4 (18T 9m3 cap)			1
Other labour (misc) eg flagmen			2
TOTAL	2	1	3
Effective cost /man/ hour	14,000	6,000	3,179
Effective cost /man/ 9hr day	126,000	54,000	28,611
Effective total labour cost	252,000	54,000	85,833
Effective item: 5.2.1 labour cost/day			391,833

Waste factors

When estimating the material required for any job, it is necessary to add a portion for the wastage of material used. The quantities of material taken off are the unadjusted net amounts calculated from the drawings. Allowance for waste and spillage of this material can be made by increasing the takeoff quantities or by raising the price by the percentage factor considered necessary. The values of waste factors usually lie between one and 10 percent for different materials.

1.4. Establishing the Unit Costs for Labour, Plant and Materials by Examples.

1.4.1 Unit Cost for Labor.

To evaluate the human effort used in the creation of a service/product is tedious because so many factors will affect productivity/output. Weekly and annual time analysis are very important to establish the effective Labor costs which translate also into Labor efficiency. Note that all work hours translate into productivity,

The table 1. below will give us an insight in developing the effective labor cost /hour for a casual laborer and a Foreman.interest on capital.

Labour Category	Casual labourer	Foreman
Basic Wage rate/hr	1,000	5,000
Basic Cost per day	8,000	40,000
Total Paid hours/year	2,874	2,874
Basic Annual Pay	2,874,000	14,370,0
Basic Pay per month	239,500	1,197,50
rent/housing allowance	100,000	200,000
Transport Allowance	50,000	50,000
Food Allowance	75,000	75,000
Total Wage Bill	464,500	1,522,50
NSSF- Employer's Contribution 10%	46,450	152,250
Bonus 5% of basic	11,975	59,875
Total cost per month	522,925	1,734,60
Cost per year	6,275,000	20,815,5
Effective labour cost/hr	3,179	10,545

1.4.2 Unit Cost for Material, Gravel.

The Unit cost of Gravel will be having components of Loading and offloading as previously stated in section 5.2, the cost of the Gravel, transportation, wastage and storage when required.

Description	Qty	Total
Gravel		
Gravel trip 3.5m3 (forward truck)	1	30,000.00
Add Transport	1	20,000.00
Add wastage 5%	1	1,500.00
Add Handling 2%	1	600
Total cost per 3.5m truck		52,100
Total cost per m		14,886

1.4.3 Plant Unit costs

The Factors associated with equipment/plant unit cost used on a particular activity will include, Capital costs, Plant economic Life and Operating costs. Most of this information is available in the Manufacturers catalogues and handbooks and quotations from suppliers.

Owning costs is evaluated as = (Peplacement cost)/ (Economic working life of the plant),where Replacement cost = Capital cost -Residual Value

The table 3 in the next page shows a summary of Various Plant unit rates.

1.5 Unit Rate analysis for Graveling a Road.

At this stage, we have all the relevant data for building up a Unit rate of a Gravel road section which can be inserted in Bill item.

The Labour, Plant and Material (Gravel) are all aggregated in the Unit Rate Analysis (URA) sheet to develop the total cost of the activity.

The Total cost is the divided by the total quantity of the material to raise the unit cost. The tables below give the example of deriving the final unit cost of Graveling.

The table 3 shows a summary of Various Plant unit rates.

UNABCEC ESTIMATING, COSTING & BUILDING UP RATES COURSE - PLANT UNIT RATES , MBARARA APRIL 2015																			
DESCRIPTION	HORSE POWER (H.P.)	PLANT ECONOMIC LIFE				FUEL			SHIPPING DIMENSIONS					Capital Cost	Quote date	COSTS / HOUR			TOTAL
		Hours	Res Value	Spares /1000hrs	Fuel Type	Av. Ltr/hr	Lube %	Lube	L	W	H	Vol m3	Wt			Owning	Spares	Fuel & Lube	
		A	B	C	D	E	F	G	H								I	J	
		15%*B			0.1*A		F*G								C*J	D*K	(F+H)*1.35	(J+K+L+M)	
CAT D8 c/wth Blade S & multi-tyre Ripper	300.00	15,000.00	2,250	7%	D	30.0	20%	6						330,000.00		18.70	23.10	30.60	72.40
CAT 966 Wheel Loader with 3.1m ³ bucket	232.00	12,000.00	1,800	7%	D	23.2	20%	4.64						181,400.00		12.85	12.70	23.66	49.21
CAT 950E Wheel Loader with 2.4m ³ bucket	167.00	12,000.00	1,800	7%	D	16.7	20%	3.34						146,324.00		10.36	10.24	17.03	37.64
6 x 4 Tipper Truck 18T 9m ³ capacity	138.00	10,000.00	1,500	7%	D	13.8	20%	2.76						65,000.00		5.53	4.55	14.08	24.15
Concrete Mixer 2/1/14 - diesel	13.60	6,000.00	900	8%	D	1.4	20%	0.272						30,000.00		4.25	2.40	1.39	8.04
Site dumper 2-T	11.00	6,000.00	900	8%	D	1.1	20%	0.22						7,500.00		1.06	0.60	1.12	2.78
Cat 120G Grader	125.00	12,000.00	1,800	7%	D	12.5	20%	2.5						122,747.00		8.69	8.59	12.75	30.04
Dynapac CA 15D Vibrating Roller	72.00	10,000.00	1,500	7%	D	7.2	20%	1.44						76,766.00		6.53	5.37	7.34	19.24
Diesel-driven Concrete Saw	11.00	2,000.00	0	8%	D	1.1	10%	0.11						9,200.00		3.91	0.74	1.03	5.67
Cat CB 534 double drum Vibrating Roller	125.00	10,000.00	1,500	7%	D	12.5	20%	2.5						85,000.00		7.23	5.95	12.75	25.93
Diesel driven Concrete Vibrator	5.00	2,000.00	0	8%	D	0.5	10%	0.05						2,400.00		1.02	0.19	0.47	1.68
Atlas Copco Compressor Spiroflo 320HP	112.00	10,000.00	1,500	7%	D	11.2	20%	2.24						31,000.00		2.64	2.17	11.42	16.23
Atlas Copco Compressor Spiroflo P100	31.00	10,000.00	1,500	7%	D	3.1	20%	0.62						10,500.00		0.89	0.74	3.16	4.79

KEY & NOTES

- 1) D - DIESEL 0.85 US\$ PER LITRE
- 2) RESIDUAL VALUE OF PLANT IS ESTIATED AT 15% OF THE CAPITAL COST OF THE MACHINERY
- 3) SPARES ARE ESTIAMTED AT 7 - 8% OF THE CAPITAL COST PER 1000 HOURS OF ITS ECONOMIC LIFE
- 4) FUEL PER HOUR IS ESTIAMTED AT A CONSTANT OF 0.1 x MULTIPLIED BY THE HORSE POWER OF THE PLANT FOR HEAVY PLANT, THIS SHALL VARY FOR SMALLER PLANT
- 5) LUBRICANT IS ESTIMATED AT 20% OF THE FUEL COST PER HOUR
- 6) THE OWNING COST OF THE MACHINE IS TAKEN AS THE REPLACEMENT COST (CAPITAL COST LESS RESIDUAL VALUE) DIVIDED BY THE ECONOMIC LIFE OF THE PLANT
- 7) THE TOTAL COST PER HOUR SHALL BE THE SUM OF THE OWNING COST, SPARES COST, FUEL AND LUBRICANT COST ALL PER HOUR

1.5.1 Quantity of Gravel extracted from the Bills

Carrigeway width: 5m Thickness of gravel: 150mm					
S/N	Quantity	Description	Works Methodology	Units	Total Quantity
1.1	7350.00	5.2. Base Cons	Works to be executed using machines as listed	m ³	7350.00
1.2					
	Total(A)				7350.00

1.5.2 Establishing the Water quantity in materials Rate Build up Water quantity is 20% of the gravel volume

S/N	Material	Units	Quantity	Cost (Ug. Shs)/Unit	Total Material cost (Ug.Shs)
c.1	Gravel	m ³	7,350	3,125	22,968,750
c.2	Water	ltrs	1,470,000	5	7,350,000

1.5.3 Outputs and Methodology

Methodology	Output (m ³ /day)	Duration (Days)	No. of Equipment
Bull Dozer D6	500	16	1
wheel loader -3m ³	600	16	1
Tipper truck -10m ³	600	16	10
Water Bowser - 10,000Ltrs	375	20	1
Roller - 10ton	375	20	1
Grader	375	20	1

1.5.4 Plant Rate Build Up

S/N	Description	Units	Qty of labour force	worker Days	Hrs/Day	Total Cost/Hr(Ug.Shs)	Total Labour cost(Ug.Shs)
A.1	Bill Dozer	m ³	1	16	8	153,000	2,040,000
A.2	Wheel Loader-3m ³		1	16	8	115,000	3,264,000
A.3	Tipper Truck-10m ³		10	16	8	74,000	1,114,080
A.4	Water Browser-10,000 lts		1	20	8	74,000	2,049,792
A.5	Roller		1	20	8	76,500	2,562,240
A.6	Grader		1	20	8	90,000	9,244,160

1.5.5 Labor Rate Build up

S/N	Description	Units	Qty of labour force	worker Days	Hrs/Day	Total Cost/Hr(Ug.Shs)	Total Labour cost(Ug.Shs)
B.1	Supervisor	m ³	1	20	5	20,400	2,040,000
B.2	Surveyor		1	20	8	20,400	3,264,000
B.3	Chainmen		3	20	8	2,321	1,114,080
B.4	Operators -Dozer & WL		2	16	8	8,007	2,049,792
B.5	Operator-Grad &Roller		2	20	8	8,007	2,562,240
B.6	Driver-Tipper		10	16	8	7,222	9,244,160
B.7	Driver-Water Bowser		1	20	8	7,222	1,155,520
B.8	Labourer		7	20	8	2,321	2,599,520

1.5.6 Aggregated Rate Analysis with Total Labor, Materials and Plant

S/N	Description	Unit	Qty of Eqp/ Lab Force	Worker Days	hrs/day	Total cost per hour (Ug.Shs)	Total Materials cost (Ug.Shs)	Total Labour cost (Ug.Shs)	Total Plant cost (Ug.Shs)
A. Plant									
A.1	●Bull Dozer D6	m ³	1	16	8	153,000			19,584,000
A.2	●Wheel Loader-3m3		1	16	8	115,000			14,720,000
A.3	●Tipper Truck-10m3		10	16	8	74,000			94,720,000
A.4	●Water Bowser-10,000 litres		1	20	8	74,000			11,840,000
A.5	●Roller		1	20	8	76,500			12,240,000
A.6	●Grader		1	20	8	90,000			14,400,000
B Labour									
B.1	●Supervisor	m ³	1	20	5	20,400		2,040,000	
B.2	●Surveyor		1	20	8	20,400		3,264,000	
B.3	●Chainmen		3	20	8	2,321		1,114,080	
B.4	●Operators-Dozer &WL		2	16	8	8,007		2,049,792	
B.5	●Operators-Grader & Roller		2	20	8	8,007		2,562,240	
B.6	●Driver-Tippers		10	16	8	7,222		9,244,160	
B.7	●Driver-Water Bowser		1	20	8	7,222		1,155,520	
B.8	●Labourer		7	20	8	2,321		2,599,520	
C Material									
C.1	●Gravel	m ³	7,350		3,125		22,968,750		
C.2	●Water	ltrs	1,470,000		5		7,350,000		
TOTAL							30,318,750	24,029,312	167,504,000

1.5.7 Calculation of the Rate per CM for inserting in the Bill Item

Description	Total Material Cost (Ug.Shs)	Total labour Cost (Ug.Shs)	Total Plant Cost (Ug.Shs)	Total Cost (Ug.Shs)
Total	30,318,750	24,029,312	167,504,000	221,852,062
TOTAL QUANTITY - (M ³) 7,350				
unit rate (USHS)/m ³	4,125	32,269	22,789	30,184

Wonders of the Construction World



◀ 1. The Carlton Centre

The tallest building in Africa, The Carlton Centre-located in Johannesburg, South Africa standing at 223 m (732 ft),50 floors. It was completed in 1973.



▲ 2. UAP Old Mutual tower, Kenya

UAP Tower is the tallest building in East Africa, standing at 163 meters tall. The 33 floor building is now Kenya and East Africa's holder of the tallest building title. It is located in Upper Hill, Nairobi.

Since 2014, Tanzania's PSPF twin towers have been the tallest buildings in East Africa. Standing at 163 m each, PSPF Towers are about 13 meters taller than Times Tower. Source: www.nairobiwire.com

3. PSPF Towers Dar Es Salaam, Tanzania ▶

Since 2014, Tanzania's PSPF twin towers have been the tallest buildings in East Africa standing at 153 m (502 ft), and 35 floors completed in 2014 , it has the highest number of floors in East Africa at 35.



4. Workers' House Kampala, Uganda ▶

The tallest building in Uganda at 20 floors. Completed in 2001. This building currently serves as the headquarters of the National Social Security Fund.



4.

5. Kampala Intercontinental Hotel ▶

When complete, Kampala Intercontinental Hotel will be the tallest building in Uganda, standing at 34 floors. Kampala Intercontinental Hotel is part of a business/residential real estate development that will include a 200 bedroom 4 star hotel, 40,000 square metres (430,000 sq ft) office space and 16,000 square metres (170,000 sq ft) rentable space and parking space for over 1,500 vehicles. Completion is planned for 2018 at an estimated cost of US\$300 million.



5.



6.

6. Kigali City Tower Kigali, Rwanda ▶

Kigali City Tower is a mixed use high rise office and retail building located in Kigali, the capital of Rwanda is the tallest building in Rwanda. The complex consists of a 20 storey tower, the tallest in the country, a four-storey commercial centre and a car park block, with space divided between leased office space and retail outlets. Major retailers include supermarket Nakumatt, Bourbon Coffee and a four screen cinema.

7. Equatoria Tower South Sudan ▶

UAP Group is finishing construction of UAP Equatoria Tower, a 15-storey office block with 8,000 square metres of lettable space in the capital Juba's Hai Neem area at a cost of 1.7 billion Kenya shillings about 51 billion Uganda shillings



7.



8.

8. RTNC Congo Building & Immeuble CCIC ▶

These are the tallest buildings in the Democratic Republic of Congo, DRC, standing at 103m (338 ft) and 22 floors. They are located in the heart of Congo's capital Kinshasa.





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Email: office@adtafrica.com

Assured Engineering Services Ltd

UNAB/15/01/BC/428
Plot 3-5 Masaka Terraces
P.O Box 1066, Masaka
Contact Person: Benon Mugarura -
Managing Director
Tel: 0772425658
Email: assured.engineering@gmail.com

Atcon International Uganda Ltd

UNAB/09/15/BC/474
Plot 90, Kanjokya street, Kanjokya House, Suite-04A
Kanjokya Street
Contact Person: FAAKHIR SAEED - CEO
Tel: 0414532499, 0706786797
Email: atconint@gmail.com

BVS Construction Ltd

B/CIVIL UNAB/05/10/BC/221
Plot 1693, 1828 Zana
P.O BOX 22186
Contact Person: Jayaram Balaka -
Managing Director
Tel: 0772790075 / 414200395
Email: jayarambalaka@yahoo.com

Chong Qing International Construction Corporation

UNAB/10/08/BC/467
Plot 1472, Kyagwe seeta. Mukono
P.Box 27502. Kampala
Contact Person: Jackie - Country
Manager
Tel: 0777827651, 0786-013442
Email: cicouganda@gmail.com/
jackiemusazi@gmail.com

Costa Construction Services Ltd

B/Civil UNAB/07/02/BC/268
Plot 360 Nambya by - pass
P.O.BOX: 23113 Kampala
Contact Person:
Jonathan N Wanzira -
Managing Director
Tel: 0712-502070 /0414-510209
Email: jnwanzir@costaconstruct.com

Gat Consults Limited.

UNAB/16/06/BC/494
Plot 205 Hills House, Entebbe
Road
P.O Box 37067 Kampala
Contact Person: Mr. Mugizi
Leonard - Managing Director
Tel: 0414580472
Email: gatfd@yahoo.com

Hands Uganda Limited.

UNAB/15/01/BC/424
Plot 1921 Block 29 Kamuli Road -
Kireka, maria Tusabire House
P.O Box 565, Soroti
Contact person: Andrew Opus
Epoku - Managing Director
Tel: 0392961483/077157348
Email: handsugandaltd@gmail.com,
opus.andrew@yahoo.com

IBB International Ltd.

UNAB/14/09/BC/422
Plot 1 Pilkington Road Worker's
House, Level 7
P.O Box 1580, Kampala.
Contact Person: Don Mubiru -
Managing Director
Tel: 256 414660131/
0702466927/075717515 Email:
info@ibbi.biz

Infracon (U) Ltd

UNAB/10/08/BC/467
Plot 1030 Masaka Road.
Tebajjukira Arcade- Ndeeba
P.O.Box 26951 Masaka Road,
Kampala
Contact Person: Patrick
Ssewanyana - Managing Director
Tel: 0752659775, 0392001394
Email: pssewanyana@yahoo.com,
infraconuganda@gmail.com

Kasese Nail & Wood Industry Limited

B/CIVIL ENG. UNAB/01/04/
BC/050
Plot 936/970 Block16 Ndeeba
Masaka road & Plot 26/28 -2nd
Street Ind. Area
P.O.BOX: 103 Kasese
Contact Person: Mr.Nsubuga
Mark - Managing Director
Tel: 0752 244 116,
0772 244 111
Email: marknknwi.co.ug /
info@knwi.co.ug

Kato Contractors Limited

UNAB/16/06/BC/493
Plot C5 Naguru Community
Estate old kira road-Bukoto
Contact Person: Mr. Jackson
Kato - Managing Director
Tel: 0414580950
Email: info@katocontractors.com

Khalsa Developments (U) Ltd

B/CIVIL ENG.UNAB/01/10/BC/307
Plot 231 Gayaza Road, Kitetikka
P.O.BOX: 33517 Kampala
Contact Person: Mandeeep
Rashpal Singh - Managing
Director
Tel: 0414-381192 0712- 471677
0772-366703
Email: admin@
khalsadevelopment.com

Kiru General Services Ltd

UNAB/14/09/BC/417
Plot 92 Buye, Ntinda Kigoowa.
P.O Box 3463 Kampala
Contact Person: Eng Kiberu
George Patrick - Managing
Director
Tel: 02913486932
Email: gpkiberu@yahoo.com

Krishna Construction Co. Ltd

UNAB/15/01/BC/429
Plot 217/219 6th Street,
Industrial Area
Contact Person: Dharmesh
Vasudev Patel - Managing
Director
Tel: 0312261677
Email: dharmesh@
krishnaconstruction.co

Lusa Construction & Engineering Co. Ltd

UNAB/14/04/BC/408
Plot 174 Ringroad Lubiri
P.O.BOX: 23518 Kampala
Contact Person: Herbert
Musinguzi - Operations Director
Tel: 0784923209, 0705553311
Email: lusaconstruction@gmail.com

Multiines Company (U) Ltd

UNAB/14/09/BC/420 Plot 16A
Kwama Road
P.O.Box 279 Lira
Contact Person: Ojuka Fabio -
Managing Director
Tel: 0392945909
Email: multiine.co.ugandae
gmail.com

Muma Construction Ltd

B/CIVIL ENG. UNAB/09/11/
BC/324
Ntinda-Kurambiro Rd
P.O.Box: 92 Kampala Contact
Person: Tiberondwa Moses -
Managing Director
Tel: 0772-431806/ 0392-847699
/0312-513214
Email: mosestibs@gmail.com

Nicontra Limited

CIVIL ENG. UNAB/96/08/C/070
Plot 32 Martyrs way, Ntinda
P.O Box 5588 Kampala
Contact Person: Byengoma
Nicholas - Managing Director

Tel: 0392716055/0772 821
874/0414 286 261
Email: nicontra@gmail.com,
byenica@gmail.com

Niletrac Uganda Ltd

UNAB/08/03/BC/462
Plot 2490, Luzira Industrial Area
Off Port Bell Road, Luzira
P.O Box 7734, Kampala
Contact Person: Mark Davidson -
Managing Director
Tel: 0414505777
Email: mark.davidson@niletrac.com

Rodo contractors Ltd

UNAB/15/06/BC/416
Old Kireka Road Mbuya 11 Zone 1
P.O box 28505 Kampala
Contact Person: Wamimbi Robert
- Director
Tel: 256392 940 788
Email: wamimbi@yahoo.com

Royal Techno Industries limited

UNAB/15/02/BC/431
Plot 2220, Aqua complex Building
Port Bell Road, Luzira, Kitintale
Contact Person: G.K Reddy,
Rakesh Rooppak - Managing
Director
Tel: 0414220573
Email: rtiuluganda@gmail.com

Stone Construction Limited

UNAB/02/16/BC/483
Plot 244 Block 397 Lutembe,
Kajansi Stage- Follow Sign Post
P.O Box 7677 Kampala
Contact Person: Vekaria Gopal -
Managing Director
Tel: 0752-732373, 0772-742474,
0772-53275
Email: stone@fsat.com

Strakon (U) Ltd

UNAB/15/04/BC/437
Bweyogerere Kaziga
Contact Person: Businge Robert -
Managing Director
Tel: 0772676388
Email: strakon2000@gmail.com

Tata Uganda Ltd

UNAB/07/06/BC/454
Plot 47 Jinja Road
P. O Box 7153 Kampala, Uganda
Contact Person: Chirag Pandya -
Business Development Manager
Tel: +256-414-344320/1
Mob: +256-752-829290
Email: chirag.pandya@
tatainternational.com

Tegeka Enterprises Ltd

UNAB/14/02/BC/403
Plot 63 Masindi Port Road
P.O. Box 236 Masindi
Contact Person: Tegras Beyeitima -
Managing Director
Tel: 0772480320
Email: tegeka@mail2engineer.com

Uganda Martyrs Housing and Construction Company Ltd

UNAB/14/02/BC/359
Plot 276 Pope Paul IV Road
Namugongo
P.O.BOX: 2789 Kampala
Contact Person: Okello Francis -
Executive Director
Tel: 0756375741

Watoto Limited

UNAB/08/03/BC/461
Watoto Village, Nakirebe,
Masaka Road
P.O.Box 26366 Kampala, Uganda
Contact Person:
Yosam Manafa Project Manager
Tel: +256 (0)392 177 087,
+256 (0)774 029 202
Email: Yosamm@watotolimited.com

CLASS B**Abubaker Technical Services & General Supplies Ltd**

B/Civil UNAB/07/06/BC/278
Plot 1021 & 2687 Bweyogerere
P.O Box 29087, Kampala
Contact Person: Juma
Kutakulimuuki - Director
Tel: 0772-577781 /0392-
949990
Email: abutech2002@yahoo.com

Adapt Technical Services Ltd

B/CIVIL ENG. UNAB/13/08/
BC/348
Plot 1376, Kyadondo Block 214
Kisaasi
P.O.BOX: 21064 Kampala
Contact Person: Ssenozzi Robert
& Olor. F - Managing Director
Tel: 0752754060 /0772708200
Email: olul.francis@gmail.com

Afrimech (U) Ltd

UNAB/09/15/5/472
Plot 7 Spring Close, (off 5th
Street) Industrial Area-Bugolobi
P.o Box 1023 Kampala
Contact Person: Ernest Van Hek/
Allan Senabulya - Director /Sales
Manager
Tel: 0414221565, 0772515865
Email: info@afimech.com, allan@
afimech.com, Ernsta@afimech.com

AM and ML Investments Ltd

UNAB/14/04/BC/407
P.O.BOX: 1034 Mbarara
Contact Person: Apollo Kansime -
Managing Director
Tel: 0772551377 /0702502165
Email: akansime@yahoo.com

Angich Enterprises Ltd

PRV/WRKS/013/JAN/10
Plot 102 Koli Road
P.O. Box 430 Lira
Contact Person: Obongo Richard
- Managing Director
Tel: 0782245697
Email: angich2003@yahoo.com

ARS Construction Company (u) Ltd.

UNAB/15/02/BC/433
Plot 1174, Jinja Road
P.O Box 613, Kampala, Uganda
Block 110
Contact Person: Francesco
Frigerio - Managing Director
Tel: 0777648932
Email: frigerio@arsconstruction.co.ug

Clearline Constructors Ltd

UNAB/15/05/BC/411
Ntawo Stage Upper Kawuga,
Kampala Road - Mukono
P.O.Box 539, Mukono
Contact Person: Lumala Josiah -
Director
Tel: 0392174395, 0772996669,
0780132195
Email: clearlinesconstructors@
yahoo.com

Epsilon Uganda Ltd

B/Civil UNAB/07/04/BC/273
Plot 1413 Mbogo Rd, Kampala
P.O.BOX: 12647 Kampala
Contact Person: Moses Kitaka -
Engineer
Tel: 0414- 252076,
0772353981
Email: epsilonugandalimited@
gmail.com

Free Construction Ltd

UNAB/09/15/BC/473

Kyalijwajala, Kira Road Near
National Water Offices
Kampala
Contact Person: Mr. Bagiere
Micheal - Managing Director
Tel: 0393101610
Email: freeconstruction@live.com

Babikan Engineering Limited

UNAB/01/16/BC/482
Kisaakye Shoopung Mall Ntinda
P.O. Box 2219 Kampala-Uganda
Contact Person: Cuthbert Waira
Operations Director
Tel: 0772992808/070299808
Email: cwairah@yahoo.co.uk

Geses Uganda Ltd

UNAB/05/20/BC/454
3rd Floor Collin House, Pilkington
Road
P O Box 30315 Kampala
Contact Person: Eng Ampaire
Micheal - Director
Tel: 0772399929 / 0752092788
Email: geses2000@gmail.com

Halcons Ltd

UNAB/08/03/460
Plot 71-72 Semawata Road,
Ntinda
P.O BOX 9826 Kampala - Uganda
Contact Person: Ramesh Halai
Director
Tel: 0750992211
Email: halconsLtd@gmail.com

Hoard International Ltd

UNAB/14/07/BC/411
Plot 3414 Namugongo
P.O BOX 29780 Kampala, Uganda.
Contact Person: Moses Naturinda
- Managing Director
Tel: 0392943996
Email: hoardinternational@gmail.com,
nkmoses2@gmail.com

Home Builders Ltd

UNAB/15/01/BC/425
Plot 640, Block 195- Kyanja
Gayaza Rd
P.O Box 2771 Kampala
Contact Person: Eng. Aloysius G.
Lubowa - Managing Director
Tel: 0414373903,
0752667123
Email: Homebuilders-hbl@yahoo.com,
aloyisius.lubowa@hbl.co.ug

IBF Uganda Ltd

UNAB/09/15/BC/470
Plot 3058 Namanwe-Seeta,
Mukono
P.O. Box 55, Seeta - Mukono
Contact Person: Soren Jegindo-
C.E.O
Tel: 256 392 174 474,
256 771 006 998 , 0787 434 575
Email: info@ibf-uganda.com;
admin@ibf-uganda.com

Jami Construction Company

B/CIVIL ENG. UNAB/06/03/BC/115
Plot 123/125, 7th Street Kampala
P.O.BOX: 2359 Kampala Eng.
Contact Person:
Jonathan Mwedde - Managing
Director
Tel: 0414-347567 0772494329
Email: jmwedde@yahoo.com

Jiemke Limited

UNAB/96/03/BC/045
Plot 219/220 Kibuye, Lubiri Ring
Road - Kampala.
P.O Box 9207 Kampala, Uganda
Contact Person: Ms. Jolly
Kagonyera/Mayamba D -
Managing Director
Tel: 0772-481476, 0312262080
Email: jiemke2004ltd@yahoo.com,
mayambad@yahoo.com

Kasu & Sons Engineering Workshop Limited.
UNAB/04/16/BC/490
Block 16 Ndeeba Masaka Rd
P.O. Box 9351 Kampala
Contact Person: Ddamulira Hakim - Director
Tel: 0772412272
Email: hakimestr@gmail.com

Kenvin Company Ltd
UNAB/07/06/BC/455
Plot 8/10 Kampala Road Uganda House 4th Floor
P.O.Box 23506 Kampala
Contact Person:
Ahabwe Kenneth - Director
Tel: 0782604047
Email: kenvinco@yahoo.co.uk

Nabco Enterprises (U) Ltd
UNAB/14/05/BC/405
Plot 13 Awich Road
P.O.BOX: 543 Gulu
Contact Person: Odong Charles - Managing Director
Tel: 0471-435878
Email: nabcoent@gmail.com

Olet Elyak Ltd.
UNAB/14/07/BC/413
Plot 4 Maruzi Rd
P.O Box 173 Lira
Contact Person: Olet Elyak-Director
Tel: 0775020369
Email: oletelyakseyahoo.com

Pera Investments (U) Ltd
UNAB/15/05/BC/439
Plot 10 Emka House Bombo Road Kampala
P.O.Box 35248 Kampala
Contact Person: Ssendendo Waswa Frank - Director
Tel: 0772546198
Email: ficah2005@yahoo.com

RMF Engineering Ltd
UNAB/10/15/BC/480
Plot 163 Kiwatule Road
P.O.Box 10556 Kampala
Kiwanuka
Contact Person: Frank - Managing Director
Tel: 0788 576861
Email: rmf.engineering.contractors@gmail.com

RockTrust Contractors (U) Ltd
B/CIVIL ENG UNAB/13/11/BC/354
Plot 15 Nile Rd Njeru Town Council
P.O Box 355 Jinja
Contact Person: Mr. Ssembatya Francis - Managing Director
Tel: 0392944516
Email: rocktrust.11@gmail.com

Rukara Enterprise Ltd
B/CIVIL ENG UNAB/10/08/BC/336
Plot 777, Gayaza Rd
P.O.Box 28130, Kampala
Contact Person: Mr. Uwimana Francis - Managing Director
Tel: 0414530131
Email: francisuwimana@yahoo.com

Sarova International Builders (U) Ltd
B/CIVIL ENG. UNAB/09/02/BC/303
Plot 940 Ntebetebwe Bweyogerere
P.O.BOX: 40393 Kampala
Contact Person: Halji Lakhman Vekariya - Managing Director
Tel: 0772-918754 0414-287360
Email: soravob@yahoo.com

Statewide Insurance Company Ltd
UNAB/14/02/IN/402
Plot 1 Bombo Road-Sure House Plot 63 Masindi Port Road

P.O.BOX: 9393 Kampala
Contact Person: Nyanzi Kigongo - Marketing Manager
Tel: 0772506685 0759506685
Email: swicoeinfocom.co.ug/musisis@swico.co.ug

TGS Water Ltd
UNAB/05/20/BC/405
Plot 40 Chwa 2 Road Mbuya
P.O.Box 37461 Mbuya Hill - Nakawa
Contact Person: Mr. Ron Sloots - Director
Tel: 0772222049/11
Email: uganda@tgsbuling.info

UpDeal(U)Limited
B/CIVIL ENG. UNAB/04/01/BC/099
Plot No. 291 Mawanda Rd
P.O.Box: 30895 Kampala Uganda
Contact Person: Farooq Mpanga - Project Engineer
Tel: 256 775 786878 / 256 414 34951/0756096349
Email: fmpanga@updeal.org

BCR General Ltd
UNAB/08/03/BC/464
Plot 1-7 Spring Road Off Old Portbell Road
P.O Box 12173 Kampala
Contact Person: General Manager
Tel: +256 392-725709
Email: info@bcrgeneral.com

CME Enterprises Ltd
UNAB/14/02/BC/401
Plot 1 Akabwai Road/Lira plot weite ojk lane lira
P.O.BOX 948 Lira
Contact Person: Eng. Ojilong Charles - Managing Director
Tel: 0772446135
Email: enterprises.cme2000@gmail.com

Drens Enterprises Ltd
UNAB/09/15/BC/475
Plot 1447 Ntinda -Kiwatule Rd
P.O. Box: 25539 Kampala, Uganda
Contact Person: Fred Kabujeeme - Director
Tel: 0772431471, 0701422248
Email: fkabujeeme@yahoo.com, drensentitled@gmail.com

Dynaco Ltd
CIVIL ENG. UNAB/14/03/C/406
Plot 5270, Najera Kira Rd
P.O.BOX: 37585 Kampala
Contact Person: Eng Jonathan Tugeme - Managing Director
Tel: 0772630834
Email: dynacolimited@gmail.com

Hebron Investments Ltd.
UNAB/15/02/IN/430
Plot 433 Jinja Road, Kazinga-Bweyogerere
P.O Box 40053, Kampala
Contact Person: Samuel Kibbe - Managing Director
Tel: 0772422359
Email: samkibbe@gmail.com

Kavcon (U) Ltd
B/CIVIL ENG. UNAB/15/04/BC/341
Plot 1, Valley Drive, Ntinda Rd
P.O.BOX: 28785 Kampala
Contact Person: Andrew M. Kavuma - Managing Director
Tel: 0393514613, 0772507560
Email: kavconconstruction@gmail.com

Lubbe Contractors Ltd
UNAB/09/15/BC/471
Plot 1021 Bweyogere
P.O Box 4298 Kampala, Uganda
Contact Person: Sharif Kalema - Director
Tel: +256 776 147791
Email: sharifkalema@yahoo.com

Mait (U) Ltd
B/CIVIL ENG. UNAB/01/03/BC/066
Nsooba zone Mulago
P.O.BOX: 21058 Kampala
Contact Person: Alice Bongyeirwe - Managing Director
Tel: +256712661293/+256414669 203/+256712980877
Email:mait_ujtd@yahoo.co.uk

Muga Services Ltd
UNAB/14/11/BC/423
Jinja road,Kireka Opp Centenary Bank.
P.O. Box: 13130, Kampala
Contact Person: Isaac Ibanda - Managing Director
Tel: 0772539106/0750999000
Email: meguservices@yahoo.com

Multiline Construction Company Limited
UNAB/14/09/BC/420
Plot 12, Kitante Road
P.O Box 8605 Kampala
Contact Person: Kahiire Norbert - Managing Director
Tel: 0414232475 0752640932 0777-913857
Email:katsime@gmail.com

Network Civil Engineering Contractors Limited
B/CIVIL ENG. UNAB/04/01/BC/068
Plot 9, Sentuka Road, Muyenga
P.O.BOX: 10585 Kampala
Contact Person: Mwimurubi Paul - Managing Director
Tel: 0414-251252 0712-272026
Email: paulntrk@yahoo.com

Pekasa Enterprises Ltd
UNAB/14/03/BC/404
Plot 6 Rukiidi street
P.O.BOX: 197 Fort-portal
Contact Person: Sande George - Director
Tel: 0772402531
Email: pekasasande@gmail.com

Perfect Multiple Engineering & Consultancy Services Ltd
B/CIVIL ENG. UNAB/13/02/BC/341
2420 Namanve Industrial Park
P.O.BOX: 11303 Kampala
Contact Person: Nkooka James Segembe - Managing Director
Tel: 0752744885 /0776744885, 0701744885
Email: sales@pmecs.co.ug, jnkooka@gmail.com

Precise Eng. Services Ltd
B/CIVIL ENG. UNAB/13/08/BC/349
Plot 27, Ntinda View Crescent Naguru
P.O.BOX: 12472 Kampala
Contact Person: Authur Bagarukayo - Managing Director
Tel: 0312290390
Email: info@pes.co.ug

Provide International Ltd
Plot 57 6th Str Industrial Area
P.O Box 3993
Contact Person:
Mayega Richard - Director
Tel: 0312285836/772687477
Email: maywillus@yahoo.com/provideinter@yahoo.com

Renofin Ltd
B/CIVIL ENG. UNAB/12/01/BC/331
Namugga Apartment Nakulabye

Behind Shell
P.O. BOX: 22074 Kampala
Contact Person:
Sseruuma Robert - Managing Director
Tel: 0751-399750
Email: renofin@renofinlimited.com

Semeo Enterprises Ltd
UNAB/14/06/BC/410
PO.BOX:7408 K'la
Contact Person: Benedict Vvuuma - Director
Tel: 0751051499
Email: vvuumac@yahoo.com

CLASS D

Aboye Technologies Ltd
UNAB/08/10/467
P.O Box 18 Kitodo , Agwee Town, Abim District

Adrac Contractors Ltd
UNAB/08/10/468
Plot 2 Ntare Rd, Mbarara
P.O Box 884 Mbarara, Uganda.
Contact Person: Adam Ahimbisibwe - Director
Tel: 0701-836373
Email: adraccontractors@yahoo.com

All In Trade
UNAB/15/04/BC/434
Plot 13/15 Dewinton Rise, Walusimbi Garage Building
P.O.Box 35522 Kampala, Uganda.
Contact Person: Ssemujju Abdul Hakim - Director-operations
0312106299, 0776030220, 0702030222, 0750559496
Email: info@allintradelimited.com

Allied Axies (U) Ltd
UNAB/15/06/BC/454
Edward Avenue , Masaka
P.O Box 1460, Masaka, Uganda.
Contact Person: John Tabale - Director
Tel: +256 752 646368
Email: lunarjo@yahoo.com

Alma Connexiux (U) Ltd
UNAB/03/11/BC/320
Plot 13, Njeru
P.O Box 5095 Jinja, Uganda.
James Gidudu - Managing Director
Tel: 0772414396, 0752514984
Email:okumgerald@gmail.com

Al-Mubarak Contracting
UNAB/25/08/BC/469
Plot 1021 Bweyogere
Tel: P.O Box 4298 Kampala, Uganda

Atlas Divine Construction Ltd
B/CIVIL ENG. UNAB/13/08/BC/350
Plot 632 Kayemba Rd
P.O. Box: 27759 KAMPALA
Contact Person: Patrick Kimongo - Managing Director
Tel: 0772870210 /0713972323
Email: kimongop@yahoo.com

Cena Technical Services
UNAB/08/03/BC/458
Kaberamaido Market
P.O Box 54 kaberaimaido, Uganda.
Contact Person: Enangu Charles - Managing Director
Tel: 0782433599
Email: cenatechservices@gmail.

com
Dacosi Limited
UNAB/04/16/BC/491
Kireka & Mbarara
P.O. Box 28761, Kampala
Contact Person: Tugeme Moses/ Kishajja Paul - Managing Directors
Tel: 0752 636110, 0754535204
Email: dacosi2010@gmail.com, kishajja.pk@gmail.com

Davog Technical Services Ltd
UNAB/15/04/BC/435
Plot 35 Kampala Road GPO Building, 4th Floor Suit 4B
Contact Person: Ogwang David - Managing Director
Tel: 0772493203
Email: davog.ug@gmail.com

Devayani International (U) Ltd
B/CIVIL ENG. UNAB/05/10/BC/312
Plot 10 Block 57 Ndeeba-Kabowa Mosque-Kampala
P.O.BOX: 70380 Kampala
Contact Person: Ghanshyam Patel - Managing Director.
Tel: 0414-669740/0414-669745/0712-615855/0704-615855
Email: devinttd@yahoo.co.in

FlexiHome Limited
B/CIVIL ENG. UNAB/09/11/BC/325
Plot 1826 princess road Kira
P.O.Box: 36582 Kampala
Contact Person: Ahikiriza Aaron Managing Director
Tel: 0414-690798 0782-454041
Email: flexihome@flexihomes.net

GliteTechnology Group Ltd
UNAB/03/16/BC/488
Plot 1455 Kibuga Road Nsambya
P.O box 72092 Kampala
Contact Person: Brian Lwetutte Managing Director
Tel: 0312111977
Email: infie@glitetechnology.com

Haas Construction Co. (U) Ltd
UNAB/15/01/BC/427
Bukoto Kisaasi Road
P.O.Box 100599
Contact Person: Bruce Asasira - Director
Tel: 0782117704
Email: bruceasasira@yahoo.com

House of Concrete
Plot 4, Nakasero Road, Rwenzori Towers 5th Floor
P.O Box 4550 Kampala, Uganda.
Contact Person: Steven Nicoll - Managing director
Tel: 0313673000

Jetpatcher Uganda Ltd
B/CIVIL ENG. UNAB/13/08/BC/353
Plot 104/105 Sir Appollo Kaggwa Rd Old K'la
P.O.BOX: 11447 Kampala
Contact Person: Mike Croslow-Director
Tel: 0794508492
Email: marc.jp@gmail.com

Katcom Projects Ltd
UNAB/08/03/BC/463
Plot 46, Ntinda Flats Close Martyrs Crescent
Contact Person: Peter Sekanwagi - Office Administrator
Tel: 0772877003
Email:katcom003@gmail.com.

Mc Leos Company Ltd
UNAB/15/05/BC/440
Isabella Plaza, 2nd Floor Room 36 opposite Shell Jinja Road.
P.O Box 35490 Kampala, Uganda
Contact Person: Loenard Mwesigwa - Managing Director

Tel: 0773095039
Email: mwesigwaleonard@yahoo.com

Reddys' Borehole and Technical Services

UNAB/02/16/BC/484
Plot 165, Kawempe, Bombo Road
P.O Box 11795, Kampala Uganda
Contact Person: V. Hanumantha Reddy - Managing Director
Tel: 0756989866
Email: reddyscompanytd@gmail.com

Reddys' Engineering and Services Ltd

UNAB/08/03/BC/459
Plot 165, Kawempe, Bombo Road
P.O Box 11795, Kila Uganda
Contact Person: V. Hanumantha Reddy - Managing Director
Tel: 0756989866, 0780776655
Email: reddyscompanytd@gmail.com

Sanqua Engineering Limited

UNAB/11/15/BC/482
Plot 17 Campswahilli, Moroto Road P.O BOX 250 Soroti
Contact Person : Epuwat Ignatius - Managing director
Tel: 0755215440
Email: sanqua.ug@gmail.com

Shammah Associates

UNAB/07/21/BC/457
Plot 4 Jinja Road.
P.O Box Jinja, Uganda
Contact Person: Charles Olaboro - Managing Director
Tel: 0777-812622
Email: olaboroc@gmail.com

S-M Cathan Construction

B/CIVIL ENG. UNAB/11/09/BC/326
Plot NO.180 Floor/suite No.1 Namuwongo Road
P.O.BOX:26509 Kampala
Contact Person: Mr. Mugisha Turyahikayo Allan - Managing Director
Tel: 0414 375797; 0772 617889; 0701-261578
Email: smcathan@gmail.com

Solcon EA Ltd

UNAB/05/05/BC/452
Plot 86 / 90
5th Street Industrial Area Kampala
Contact Person: Nabil Alam - Managing Director
Tel: 0757107330
Email: nabilalam@alam-group.com

Stancom Engineering & Electricals Ltd

UNAB/10/13/BC/354
Kazinga along Jinja Road.
P.O Box 2400 Kampala, Uganda
Tel: +256 312 518029/701 903002
Email: stancomengineeringtd@gmail.com

Svista Uganda Ltd

B/CIVIL ENG. UNAB/13/08/BC/352
Plot 248 Kitinda-Abayitaababiri
P.O.BOX: 1023 Ebbe
Contact Person: Mr. Kasana Andrew - Director
Tel: 0753701469 / 790914298
Email: svistaugtd@gmail.com

TedMack Eng Works Ltd

B/CIVIL ENG UNAB/13/08/BC/351
Plot 1996, Block 192 Buwate Kiira Town Council
P.O Box 24014 Kampala
Contact person: Agaba Edwin - Director
Tel: 0782475620/0701475620
Email: tedmack008@gmail.com

Umha Concepts Limited

UMBA/03/16/BC/489
Plot 2 Kyaggwe Road, Kati House
P.O Box 23626 Kampala Mulumba
Contact Person: Isaac/Nassali Victoria - MD/Secretary
Tel: 0392081638
Email: mulumbaz@yahoo.com

Ware World Contractors (U) Ltd

B/CIVIL ENG. UNAB/10/03/BC/310
Plot 575, Gayaza Rd Kalerwe Petro station next to Stanbic ATM
P.O.BOX: 26260 Kampala
Contact Person: Eng. Akankwasa Justus - Director
Tel: 0414-576267 0772-631749
Email: wareworldcontractor.net

UNCLASSIFIED MEMBERS

1. Achelis Uganda Limited
2. Aevor Engineering Services Limited
3. Afrique Technical Services Limited
4. Allied Enterprises and Construction Ltd
5. Ark Consult & Engineering Limited
6. Azu Properties Limited
7. Bamco Technical and Construction Co. Limited
8. Bemuga Heavy Equipment Company Limited
9. Birime Construction Limited
10. Buzibazzi Construction Limited
11. Delaru Construction Limited
12. GCC Services(U) Limited
13. Holton Construction Limited
14. Hydraform(U) Limited
15. Katt Equipments & Eng. Solutions Limited
16. Kuuka Investments Limited
17. Lubowa Heights Limited
18. M4 Investment Limited
19. MM Construction Limited
20. Muka Investments Limited
21. Mwonzi Construction and Engineering Services Ltd
22. Network Uganda Limited
23. Ochoda Enterprises Limited
24. Peakcock Paints Ltd
25. Pegasus International Limited
26. Rapid Civil Contractor & Fabricators Ltd

27. Samhee Construction Co. Ltd
28. Soleco Construction Limited
29. Starlite Engineers Limited
30. Toscano Limited
31. Tracemark Uganda Limited
32. Virgin Construction International Limited



UGANDA NATIONAL ASSOCIATION OF BUILDING AND CIVIL ENGINEERING CONTRACTORS

Lugogo UMA Show Grounds, Plot M764 Coronation Avenue, P.O. Box 34046, Kampala, Uganda

Tel: +256 (0) 392 795036 • secretariat@unabcec.co.ug • www.unabcec.co.ug

How to become a UNABCEC Member

1. BE A REGISTERED CONSTRUCTION COMPANY OR MANUFACTURER / SUPPLIER OF
2. BUILDING MATERIALS AND CONSTRUCTION RELATED SERVICES.
3. GET MEMBERSHIP APPLICATION FORMS FROM SENSITIZATION OFFICER.
4. FILL AND RETURN A COPY OF BOUND APPLICATION WITH THE FOLLOWING
5. ATTACHMENTS
 - **Certificate of Incorporation**
 - **Form 9 justifying company premises**
 - **Certificates of works completed**
 - **Audited accounts for at least 2 years.**
 - **Enclose a cheque in the names of UGANDA NATIONAL ASSOCIATION OF BUILDING**
6. AND CIVIL ENGINEERING CONTRACTORS of Ugx 300,000 as membership entry fees.
7. TECHNICAL COMMITTEE ASSESSES AND ALLOCATES AN APPROPRIATE CATEGORY.
8. CONFIRMATION FOR YOUR CLASS SENT TO YOU WITH AN INVOICE FOR SUBSCRIPTION.
9. PAY MEMBERSHIP SUBSCRIPTION/REGISTRATION.
10. CERTIFICATE ISSUED WITH IN TWO WEEKS AFTER CHEQUE MATURING.

NB: YOU SHOULD BE SECONDED BY AN ALREADY CERTIFIED MEMBER OF UNABCEC

UNABCEC 2016 Quarterly Calendar

	AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
MONDAY	1									
TUESDAY	2						1			
WEDNESDAY	3						2			
THURSDAY	4	AGM	1				3		1	
FRIDAY	5		2				4		2	
SATURDAY	6		3		1		5	CSR	3	
SUNDAY	7		4		2		6		4	
MONDAY	8		5		3		7		5	
TUESDAY	9		6		4		8		6	
WEDNESDAY	10		7		5		9		7	CSM Training
THURSDAY	11		8	SPP Training	6		10		8	CSM Training
FRIDAY	12		9	SPP Training	7		11		9	NETWORKING EVENT
SATURDAY	13		10	NETWORKING EVENT	8		12		10	
SUNDAY	14		11		9	INDEPENDENCE DAY	13		11	
MONDAY	15		12		10		14		12	
TUESDAY	16		13		11		15		13	
WEDNESDAY	17		14		12		16		14	
THURSDAY	18		15		13		17		15	
FRIDAY	19		16		14		18		16	
SATURDAY	20		17		15		19		17	
SUNDAY	21		18		16		20		18	
MONDAY	22		19		17		21		19	
TUESDAY	23		20		18		22		20	
WEDNESDAY	24		21		19		23		21	
THURSDAY	25	Sector Working Chapter	22		20		24	Sector Working Chapter	22	
FRIDAY	26		23		21		25		23	
SATURDAY	27		24		22		26		24	
SUNDAY	28		25		23		27		25	CHRISTMAS DAY
MONDAY	29		26		24		28		26	BOXING DAY
TUESDAY	30		27		25		29		27	
WEDNESDAY	31		28		26		30		28	
THURSDAY			29	Sector Working Chapter	27	Sector Working Chapter			29	Sector Working Chapter
FRIDAY			30		28				30	
SATURDAY					29				31	
SUNDAY					30					
MONDAY					31					
TUESDAY										

KEY:

Public Holidays

CSM Training

Sector working chapter

Networking Events

AGM

SPP Training

NEW YORK



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