

The use of these building materials helps save our vegetation cover



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# Stabilised blocks the way to go, given climate change

**T**his is addressed both to the individual and the society – call it the nation or government. In these days of economic hardships and climate change, we all need to be careful the way we build. For, not only must we save money in the process, but we also need to preserve and protect the environment. (Wasn't it the last Pope who declared wilful environmental destruction a sin?).

Let us start with the huge personal saving that a person stands to make by using stabilised soil blocks to construct their house. There are different commercial names for machines used for making these blocks, and you might know them by one of these. We shall avoid the names lest we be accused of advertising. I think some are now even being fabricated in Katwe. (Where Katwe is a concept, not just a place.)

The blocks we are talking about are those that are made on site using the soil around, which is mixed with a little cement and/or lime and then two *kanyamas* (strong men) use the machine to press and produce a highly compressed block that is ready to use in a short while.

In Uganda, we are used to two most common types of building bricks/blocks. There are the burnt clay or soil bricks and then the concrete blocks, so-called nine-nine. The immediate differences between the stabilised soil blocks and these two types are not using fire as the

fired bricks and not using much cement as the concrete blocks.

You could say the most important factor in making the stabilised blocks is compression, which makes them strong. But, and it is a strong BUT, the composition of the soil must be determined by chemical test to determine its properties so as to guide you on the amount of lime and cement to use.

The reasons why a developer should use these blocks are all compelling. First, the cost of these blocks is quite low compared to the others. The machine itself is quite expensive, but you are not going to buy it – you will hire it and ensure the men operating it are well-fed. So the cost of producing a square metre of these blocks is much lower than any other type currently being used in Uganda.

Secondly, these stabilised soil blocks are stronger than any other type used in our market.

Thirdly, to join them requires less cement/sand mix because of their evenness. In some cases, cement is not required in some parts of the walls when interlocking designs are used.

Fourth, these blocks do not require much plaster because they are so flat. Most of the plaster we put on our walls is to hide the uneven shapes of the bricks and the incompetence of the bricklayers. When the blocks are so flat, only a thin layer of plaster may be applied.

Fifth and directly related to the fourth, you actually do not need to plaster if you do not want to. In fact, plastering a wall done with these blocks can spoil their beauty, especially on the outside. On the inside, the plaster may be put in many parts, but on the outside, it is not necessary.

Sixth is that blocks are actually beautiful.



Stabilised blocks do not require firing and so no firewood

## 10,000

To bake 10,000 bricks, you need a truckload of firewood costing sh500,000. This cannot go on.

Seventh is that the ring beam is quite cheap to make because, with the hollow type, only twisted bars (Y12, Y16) need to be passed through, unlike the usual concrete, grave and disposable expensive wood for the beam framework.

Eighth is that the cost of labour is reduced because the brick-laying is almost just that – block-laying.

The time and energy-consuming activities of mixing and "getting the level" are minimised because of the straightness of the blocks.

Now as a society, country or region, the use of these blocks immediately and directly saves our vegetation cover. They do not require firing and so no firewood. The cutting down of trees for firing bricks would, therefore, be reduced. I have read some scary prediction that in less than two decades, Uganda could be a net importer of firewood.

Now when you consider that firewood is used by the poorest of the poor, and Uganda will now

require foreign exchange to import it, you need a stronger word than 'crisis' to describe that situation.

The number of people is increasing rapidly and we enjoy the dubious title of being the second most fertile country in terms of women pregnancy. People will need shelter and firewood. To bake 10,000 bricks, you need a truckload of firewood costing sh500,000.

This just cannot go on. It can go on at our own peril. So, please talk to your local leaders and ask them what they are doing about enabling the people use the environmentally sensible building technology, which is also cost-saving.

## FOUR RETIREMENT TIPS FOR EVERY AGE



Save as much money as you can during your earning years

### 1 IMAGINE THIS: YOU, NOT WORKING

You cannot plan for your retirement unless you know where you are going. So start thinking about your retirement lifestyle and what you want to do after you are done working. Unless you will not be done working: Maybe you want to start a business or you want to travel. You can never start envisioning your retirement too soon. Even if you think your goals might shift in the years ahead, dreaming about them today gets the conversation started and helps you plan.

### 2 SAVE MONEY AT EVERY OPPORTUNITY

With rising retirement costs and people living longer, there is a chance you will need a lot more money than you think in retirement.

So save as much as you can during your earning years. Aim to save at least 15% of your gross pay. Not there yet? Increase your retirement savings contribution with every pay rise, before you get too used to that higher paycheque.

### 3 STEER CLEAR OF EMOTIONAL INVESTING

As investors, our emotions tend to follow market cycles. When markets perform well, we tend to become euphoric and pour money into stocks. When markets turn down, our emotions change and can cause us to pull out of the stock market just as it reaches its low and miss out on potential gains as it rises again. The lesson: emotions can cause us to do just the opposite of what we should do.

### 4 LEAVE YOUR WORRIES BEHIND

Even if you build a smart saving and investing strategy, unexpected events can occur. You could experience an illness that prevents you from working and earning an income. Or your home could be damaged in a storm. You need to protect yourself against the risks in today's world. Your advisor can help evaluate your personal situation and line up the right levels of protection, whether it is disability income insurance, long-term care coverage or auto, home and life policies.

With sufficient protection, you can focus on the fun parts of planning for the future without having to worry as much about all the "what ifs" along the way.

Online sources