

Application Approved for tabling



REPUBLIC OF KENYA
THE NATIONAL ASSEMBLY


TWELFTH PARLIAMENT - FIFTH SESSION

THE DEPARTMENTAL COMMITTEE ON
TRANSPORT, PUBLIC WORKS AND HOUSING

REPORT

ON

CONSIDERATION OF THE PETITION REGARDING THE APPROVAL,
APPLICATION AND USE OF NEWBUILD'S LOW-COST CONSTRUCTION
TECHNOLOGY

 THE NATIONAL ASSEMBLY PAPERS LAID	
DATE:	30 JUN 2021
	DAY: WEDNESDAY
TABLED BY:	CHAIR DC - TRANSPORT, PUBLIC WORKS & HOUSING HON. DAVID PROSING, CBS, MP
CLERK AT THE TABLE:	Noah Teo

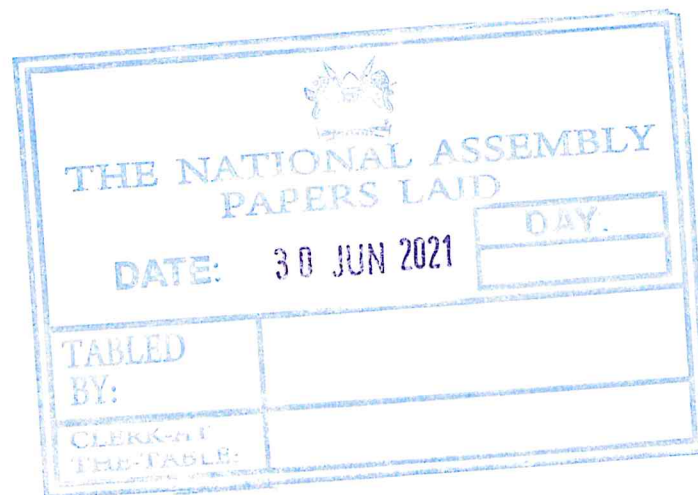
DIRECTORATE OF DEPARTMENTAL COMMITTEES
CLERK'S CHAMBERS - NATIONAL ASSEMBLY
PARLIAMENT BUILDINGS
NAIROBI

JUNE 2021

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29/6/2021

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Chairperson's Foreword

This report contains the proceedings of the Departmental Committee on Transport, Public Works and Housing on its consideration of the Petition by Messrs. John Dumas Gachara. The Petition was conveyed to the House by the Member for Nakuru West Constituency, Hon. Samuel Arama, on behalf of the Petitioner.

In processing the Petition, the Committee invited both the Petitioner and the Ministry so that they could submit their submissions to the Committee before a Report was compiled. The Petitioner and the Ministry officials appeared before the Committee on 18th November 2020. The Ministry's representatives were drawn from the State Department for Housing, State Department for Public Works, the National Construction Authority and the National Housing Corporation.

The Petitioner's prayer was that the National Assembly considers the issues raised in his Petition on Newbuild Construction Technology with a view to making recommendations to the relevant government agencies on the use of the said technology. He stated that since the year 2003, the technology has not been taken up by the government and that although the technology has been uploaded on the Ministry's website, the government was yet to compensate him according to the law.

The Committee however observed that the Ministry was in support of the Petitioner's work, and was willing to give the Petitioner a forum to showcase his innovation. It was for this reason that the Ministry uploaded the said technology on the Ministry's website to support and showcase the product. The Committee however concluded that neither the Committee nor the Ministry had powers to compel consumers to use the said technology. The Petitioner was therefore advised to showcase his product in the market and find innovative ways of attracting possible consumers even as the Ministry takes the necessary steps to support the growth of new and affordable technologies in the country.

The Committee wishes to sincerely thank the Offices of the Speaker and of the Clerk of the National Assembly for the necessary support extended to it in the execution of its mandate. I also take this opportunity to thank all Members of the Committee for their patience, sacrifice, endurance and commitment towards the production of this Report.

The Committee further wishes to record its appreciation for services rendered by the Committee Clerks and other technical staff of the National Assembly. Their efforts and input made the work of the Committee and production of this Report possible.

On behalf of the Departmental Committee on Transport, Public Works and Housing and pursuant to the provisions of Standing Order 199 (6), it is my pleasant privilege and honor to present to this House the Report of the Committee on its consideration of the Petition Regarding the Approval, Application and Use of Newbuild's Low-Cost Construction Technology.



HON. DAVID PKOSING, CBS, MP

Chairperson - Departmental Committee on Transport, Public Works and Housing

1.0 PREFACE

1. The Petition was tabled before the House and was committed to the Departmental Committee on Transport, Public Works and Housing for consideration pursuant to standing order 227. The Committee considered the Petition pursuant to the said Standing Order.

1.1 Committee Mandate

2. The Departmental Committee on Transport, Public Works and Housing is established under Standing Order 216(1) whose mandate, pursuant to the Standing Order 216 (5), is as follows;
 - a. investigate, inquire into, and report on all matters relating to the mandate, management, activities, administration, operations and estimates of the assigned Ministries and departments;
 - b. study the programme and policy objectives of Ministries and departments and the effectiveness of the implementation;
 - c. study and review all legislation referred to it;
 - d. study, assess and analyze the relative success of the Ministries and departments as measured by the results obtained as compared with their stated objectives;
 - e. investigate and inquire into all matters relating to the assigned Ministries and departments as they may deem necessary, and as may be referred to them by the House;
 - f. to vet and report on all appointments where the Constitution or any law requires the National Assembly to approve, except those under Standing Order 204 (*Committee on Appointments*);
 - f (a). examine treaties, agreements and conventions;
 - g. examine treaties, agreements and conventions;
 - h. make reports and recommendations to the House as often as possible, including recommendation of proposed legislation;
 - i. make reports and recommendations to the House as often as possible, including recommendation of proposed legislation;
 - j. consider reports of Commissions and Independent Offices submitted to the House pursuant to the provisions of Article 254 of the Constitution; and
 - k. examine any questions raised by Members on a matter within its mandate.
3. Further, the Second Schedule to the Standing Orders mandates the Committee to consider matters relating to the following subjects: -
 - a) Transport;
 - b) Roads;
 - c) Public works;
 - d) Construction and maintenance of roads, rails and buildings;
 - e) Air and seaports; and
 - f) Housing.
4. In executing this mandate, the Committee oversees various State Departments, namely:
 - a) The State Department of Transport;
 - b) The State Department of Infrastructure;
 - c) The State Department of Housing and Urban Development;
 - d) The State Department of Public Works; and
 - e) The State Department of Shipping and Maritime Affairs.

1.2 Committee Membership

5. The Committee on Transport, Public Works and Housing as constituted by the House comprises of the following members:

Committee Chairperson

Hon. David Pkosing, C.B.S., M.P.
Member for Pokot South Constituency
Jubilee Party

Vice-Chairperson

Hon. Gathoni Wamuchomba, H.S.C., M.P.
Member for Kiambu County
Jubilee Party

Members:

Hon. Abdul Rahim Dawood, M.P.
Member for North Imenti Constituency
Jubilee Party

Hon. David Njuguna Kiaraho, M.P.
Member for Ol Kalou Constituency
Jubilee Party

Hon. Johnson Many Naicca, M.P.
Member for Mumias West Constituency
Orange Democratic Movement Party

Hon. Omar Mwinyi Shimbwa, M.P.
Member for Changamwe Constituency
Orange Democratic Movement Party

Hon. Peris Tobiko, C.B.S., M.P.
Member for Kajiado East Constituency
Jubilee Party

Hon. Samuel Arama, M.P.
Member for Nakuru Town West
Jubilee Party

Hon. Ahmed Abdisalan Ibrahim, M.P.
Member for Wajir North Constituency
Orange Democratic Movement Party

Hon. Ahmed Bashane Gaal, M.P.
Member for Tarbaj Constituency
Peoples Democratic Party

Hon. Ali Wario Guyo, M.P.
Member for Garsen Constituency
Orange Democratic Movement Party

Hon. Dominic Kipkoech Koskei, M.P.
Member for Soitik Constituency
Jubilee Party

Hon. George Aladwa Omwere, M.P.
Member for Makadara Constituency
Orange Democratic Movement Party

Hon. Gideon Mutemi Mulyungi, M.P.
Member for Mwingi Central Constituency
Wiper Democratic Party

Hon. Kulow Maalim Hassan, M.P.
Member for Banisa Constituency
Economic Freedom Party (EFP)

Hon. Mercy Wanjiku Gakuya, M.P.
Member for Kasarani Constituency
Jubilee Party

Hon. Janet Wanyama Nangabo, M.P.
Member for Trans-Nzoia County
Jubilee Party

Hon. Shadrack John Mose, M.P.
Member for Kitutu Masaba Constituency
Jubilee Party

Hon. Tom Mboya Odege, M.P.
Member for Nyatike Constituency
Orange Democratic Movement Party

1.3 Committee Secretariat

6. The Committee secretariat include the following:

Ms. Chelagat Tungo Aaron
First Clerk Assistant
Head of Secretariat

Mr. Ahmed Salim Abdalla
Second Clerk Assistant

Mr. Ronald Walala
Legal Counsel I

Mr. Abdinasir Moge Yusuf
Fiscal Analyst I

Ms. Winnie C. Kulei
Research Officer III

Ms. Zainabu Wario
Sergeant at Arms

Mr. Yeziel Jilo
Sergeant at Arms

Mr. Yaqub Ahmed
Media Relations Officer

Mr. Brian K. Ng'etich
Audio Recording Officer

2.0 BACKGROUND OF THE PETITION

2.1 The Petition

7. The Petition was presented to the National Assembly by Messrs. John Dumas Gachara. The conveyor of the Petition was the Hon. Samuel Arama, Member for Nakuru West Constituency. The Petitioner wished to draw the attention of the House to the following:
- i. *THAT, Article 43 of the Constitution guarantees every person the right to the highest attainable standard of health, which includes the right to accessible and adequate housing;*
 - ii. *THAT, provision of adequate, affordable and decent housing for low-income households is in short supply in the country;*
 - iii. *THAT, due to lack of quality shelter, a majority of people live in areas with no access to clean water and sanitation, unreliable and unhealthy energy sources, leading to increased exposure to diseases;*
 - iv. *THAT, the cost of production is the biggest challenge affecting the supply of housing and that the current housing deficit stands at 2 million houses with nearly 61% of urban households living in slums;*
 - v. *THAT, this deficit continues to rise due to fundamental constraints on both the demand and supply side and is exacerbated by an urbanization rate of 4.2%, equivalent to 0.5 million new city dwellers every year;*
 - vi. *THAT, the principle of progressive realization of socio-economic rights under the Constitution requires the government to take deliberate, concrete and targeted steps towards the achievement of these rights;*
 - vii. *THAT, to realize affordable housing, the Government of Kenya has set housing as one of the four core agendas it intends to address, with a projection of 500,000 new housing units every year;*
 - viii. *THAT, Newbuild Construction Technology is a Kenyan construction invention developed by the Petitioner and patented under African Regional Intellectual Property Organization on 9th Aug 2007 under certificate of grant of patent number 1765 awarded to New Build Ltd;*
 - ix. *THAT, the technology reduces the cost of production of houses by between 30-40% by employing the use of stones in the construction of the foundation, the floor slab and ring beams instead of the traditional cement, thereby reducing the cost of the foundation footing by 53.08%, the cost of the floor slab by 69.19% and the ring beams by 83.04%;*
 - x. *THAT, the technology is applicable whether the underlying base is soil or rock as it relieves considerable amount of pressure on the base and remains stable under varying weather conditions;*

- xii. THAT, the Technology has been presented to the relevant authorities in the country, including the office of the President, the Ministry of Lands, Housing and Urban Development, the National Construction Authority and has not had any negative impacts on the critical economic activities;*
- xiii. THAT, the Technology has been approved by the Ministry and has been uploaded on the Ministry's website and that training sessions on the application of the technology has been carried out to various industry players under the auspices of the National Construction Authority;*
- xiv. THAT, the matters raised in this Petition are not pending before any court of law, constitutional or legal body.*

The Prayer

8. The Petitioner's prayer was that the National Assembly, through the Departmental Committee on Transport, Public Works and Housing considers the issues raised in his Petition on Newbuild Construction Technology with a view to making recommendations to the relevant government agencies on the use of the said technology.

3.0 CONSIDERATION OF THE PETITION BY THE COMMITTEE

9. The Committee held two sittings and deliberated on the Petition presented by the Petitioner.
10. On 10th November 2020, the Committee considered the Petition and resolved to invite the Petitioner to a meeting with the Committee. The meeting was scheduled for 18th November 2020. The Committee noted that the Petition by Mr. John Dumas Gachara as conveyed by Hon. Samuel Arama on 12th August 2020 was a replica of a Petition conveyed through Hon. David Ouma Ochieng, MP on 1st October 2019 and which the Committee already considered and made its report. The Committee further noted that during the consideration of the first Petition, the Petitioner did not appear before the Committee despite being invited twice.
11. In his oral submissions before the Committee, the Petitioner explained that the patent for his product (Newbuild Technology) was about to expire in a year. He explained that:
 - i. The technology was very good and prayed that Parliament legislated on this technology instead of holding it in abeyance. He stated that since the year 2003, the technology has not been taken up by government.
 - ii. The technology has been uploaded on the Ministry's website but the government has not paid compensation according to the law.
 - iii. The technology should be incorporated in the building code for it to be used. It was important to legalize the instruments of training by legislating the certificates issued.
12. The Committee considered the Petition pursuant to the provisions of the Standing Orders of the National Assembly and Petition to Parliament (Procedure) Act.
13. On 16th June 2021, the Committee prepared its report, and adopted the report in the same session which was held virtually.

3.1 Submissions by the Ministry of Transport, Infrastructure, Housing, Urban Development and Public Works

14. The State Department for Housing submitted that the technology is market driven. The Ministry affirmed that it assists innovators and Kenyans to showcase their innovations but they cannot force Kenyans or anyone to use a certain technology. The Department further explained that the new building code already embraces emerging technologies.
15. The Principal Secretary for Public Works explained that the reason the Ministry uploaded the technology on its website was for Kenyans to embrace it because the Ministry's appreciates all the efforts of innovators. It was a way of supporting the Petitioner by giving him the platform to showcase the technology. The Ministry explained that it will not be reasonable for the government to be forced to buy any particular technology, even as it tries to give platform to emerging technologies.
16. On issues raised in paragraph 1, 2, 3, 5, 6, 10, and 14 of the Petition, the Ministry agreed with the Petitioner because they were all factual. These include:
 - a. *Article 43 of the Constitution guarantees every person the right to the highest attainable standard of health, which includes the right to accessible and adequate housing;*

- b. *The provision of adequate, affordable and decent housing for low-income households is in short supply in the country;*
- c. *Due to lack of quality shelter, a majority of people live in areas with no access to clean water and sanitation, unreliable and unhealthy energy sources, leading to increased exposure to diseases;*
- d. *Housing deficit continues to rise due to fundamental constraints on both the demand and supply side and is exacerbated by an urbanization rate of 4.2%, equivalent to 0.5 million new city dwellers every year;*
- e. *The principle of progressive realization of socio-economic rights under the Constitution requires the government to take deliberate, concrete and targeted steps towards the achievement of these rights;*
- f. *The technology is applicable whether the underlying base is soil or rock as it relieves considerable amount of pressure on the base and remains stable under varying weather conditions; and*
- g. *That the matters raised in this Petition are not pending before any court of law, constitutional or legal body.*

17. The Ministry however made clarifications in light of paragraphs 4, 7, 8, 9, 11, 12 and paragraph 13 of the Petition.

18. **In paragraph 4 of the Petition**, the Petitioner asserted that the cost of production is the biggest challenge affecting the supply of housing and that the current housing deficit stands at 2 million houses with nearly 61% of urban households living in slums.

The Ministry submitted that the assertion that 61% of urban households live in slums was not accurate. According to the 2009 Population and Housing Census by the Kenya National Bureau of Statistics as stated in the National Slum Upgrading and Prevention Policy 2016, 40% of the urban population live in slum/informal settlements.

19. **In paragraph 7 of the Petition**, the Petitioner submitted that to realize affordable housing, the Government of Kenya has set housing as one of the four core agendas it intends to address, with a projection of 500,000 new housing units every year.

The Ministry submitted that the Affordable Housing Programme (AHP) was one of the pillars of the Big Four Agenda that commits to deliver 500,000 housing units in the period between 2017 and 2022 and not every year. The spirit of the programme is nevertheless to continue beyond 2022.

20. **In paragraph 8 of the Petition**, the Petitioner explained that Newbuild Construction Technology was a Kenyan construction invention developed by the Petitioner and patented under African Regional Intellectual Property Organization on 9th Aug 2007 under certificate of grant of patent number 1765 awarded to New Build Ltd.

The Ministry submitted that according to Kenya Industrial Property Institute (KIPI), this patent was registered in 2007 and expires in 2022. This was subject to annual renewal through payment of a fee. They noted that since 2016 the Petitioner has not paid for the renewal fees as required.

21. **In paragraph 9 of the Petition**, the Petitioner claimed that the technology reduces the cost of production of houses by between 30-40% by employing the use of stones in the construction of the foundation, the floor slab and ring beams instead of the traditional

cement, thereby reducing the cost of the foundation footing by 53.08%, the cost of the floor slab by 69.19% and the ring beams by 83.04%.

The Ministry submitted that according to Kenya Industrial Property Institute (KIPI), the Patent applies to only foundation footing and floor slab and does not include ring beam. An assessment was undertaken by the State Department for Housing and Urban Development at the Nakuru Appropriate Building Materials and Technology (ABMT) Center to understand the technology. The assessment established a cost reduction of 53.08% for the foundation footing and 69.19% for the floor slab.

22. **In paragraph 11 of the Petition**, the Petitioner claimed that the application of the technology to only 25% of the government's target of 150,000 housing units in urban areas and to 60% of the 300,000 housing units in rural areas (estimates as per Sessional Paper No. 3) would save the country about Kshs. 54.3 billion per annum.

The Ministry submitted that the figures given on the application of this technology were not based on verifiable statistical data. Besides, the State Department has no policy for awarding technology owners any monetary benefits. Technologies are expected to be demand driven in the market, with the government playing the facilitative role of promoting and disseminating them. The Ministry further submitted that matters of exploitation of patented inventions by the Government or by persons authorized by the Government are governed by The Industrial Property Act, 2001 (Revised Edition 2012) under the Ministry responsible for Industry in consultation with Kenya Industrial Property Institute (KIPI).

23. **In paragraph 12 of the Petition**, the Petitioner submitted that the Technology has been presented to the relevant authorities in the country, including the office of the President, the Ministry of Lands, Housing and Urban Development, the National Construction Authority and has not had any negative impacts on the critical economic activities.

The Ministry stated that the State Department through the ABMT unit receives and closely interrogates emerging housing technologies to assess if they could be classified as ABMT so as to promote and disseminate them to members of the public. It therefore received Newbuild Technology for the same objective.

24. **In paragraph 13 of the Petition**, the Petitioner claimed that the technology has been approved by the Ministry and has been uploaded on the Ministry's website and that training sessions on the application of the technology has been carried out to various industry players under the auspices of the National Construction Authority.

The Ministry submitted that in 2015, the State Department uploaded Newbuild technology on the website among other emerging technologies for the purpose of disseminating it to members of the public but this is not tantamount to approval. Approval and issuance of standards is undertaken by the Kenya Bureau of Standards (KEBS). The State Department's role is limited to ensuring emerging technologies meet the criteria of being ABMT. Technology owners are however required to ensure their technologies are approved and issued with standards by KEBS. To gain credibility and wider acceptance by the built environment professionals and consumers, it is advisable for the Petitioner to update the patent by paying the requisite fees and seek approval by KEBS.

The training component was not delivered through the Housing Directorate.

3.2 Submissions by the National Construction Authority

25. The National Construction Authority was fully in concurrence with the Ministry's submissions and further noted that the National Construction Authority Act 2011 as currently enacted does not mandate the Authority to test any material or technology to be used during construction. Despite this, the Authority collaborates with other state agencies such as the materials department and Kenya Bureau of Standards to carry out testing.
26. In conclusion, it was stated that the Petitioner was known to the Ministry and that the Ministry and the National Construction Authority gave the Petitioner an opportunity to present his innovation but he never honoured the invitation. The NCA submitted that for instance, in a letter dated 7th October 2015, the NCA invited Mr. John Dumas Gachara (the Petitioner) to some of the planned year 2015/2016 contractors and artisans training seminars in different parts of the country so that the Petitioner could introduce, discuss and market his technology.

4.0 COMMITTEE'S OBSERVATIONS

27. The Committee observed that:

- i. The Newbuild Construction Technology was well known to the Ministry and that the Ministry was in support of the Petitioner's work, and was willing to give the Petitioner a forum to showcase his innovation;
- ii. The issues raised in the Petition were all addressed by the Ministry as submitted during the Committee sitting held on 18th November 2020;
- iii. The Ministry had shown remarkable commitment to embracing new technology and to give platform to innovators to showcase their products and to support them in every way possible;
- iv. The Petitioner had been given numerous opportunities by the National Construction Authority to showcase his innovation. The Ministry uploaded the Petitioner's proposal on its website as a way of supporting innovation within the country; and
- v. Neither the Committee nor the Ministry had powers to compel consumers to use the said technology.

5.0 RECOMMENDATION

28. The Committee recommends that:

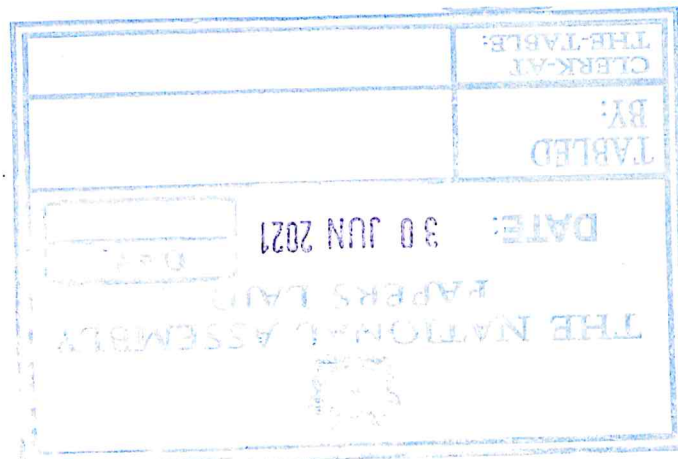
The Petitioner showcases his product in the market and find innovative ways of attracting possible consumers. The Ministry to take all the necessary steps to support the growth of new and affordable technologies in the country including the Newbuild Low-Cost Housing Technology in line with the relevant laws and regulations.

Signed 

**Hon. David L. Pkosing, CBS, MP
Chairperson**

DEPARTMENTAL COMMITTEE ON TRANSPORT, PUBLIC WORKS & HOUSING

Date 29/6/2021



THE PETITION

REPUBLIC OF KENYA



NATIONAL ASSEMBLY
RECEIVED
11 AUG 2020
SPEAKER'S OFFICE
Box 41842, NAIROBI

TWELFTH PARLIAMENT (FOURTH SESSION)

THE NATIONAL ASSEMBLY

PUBLIC PETITION

(No. 28 of 2020)

Approved
BWA
12/8/2020

*Hon. Speaker
This is in order. You
may approve.*

*11/08/2020
Director of Public Complaints*

**REGARDING THE APPROVAL, APPLICATION AND USE OF NEWBUILD'S
LOW COST CONSTRUCTION TECHNOLOGY**

I, the **UNDERSIGNED**, on behalf of Architect John Dumas Gacharia of National Identity Number 2315712 and P.O. Box 16454, Code 20100, Nakuru;

DRAW the attention of the House to the following: -

1. **THAT**, Article 43 of the Constitution guarantees every person the right to the highest attainable standard of health, which includes the right to accessible and adequate housing;
2. **THAT**, provision of adequate, affordable and decent housing for low income households is in short supply in the country;
3. **THAT**, due to lack of quality shelter, a majority of people live in areas with no access to clean water and sanitation as well as unreliable and unhealthy energy sources thereby leading to increased exposure to diseases;
4. **THAT**, the cost of production is the biggest challenge affecting the supply of housing in the country with the current housing deficit currently standing at 2 million houses and 61% of urban households living in slums;
5. **THAT**, this deficit continues to rise due to fundamental constraints on both the demand and supply side and is exacerbated by urbanization rate of 4.2% which is equivalent to 0.5 million new city dwellers every year;
6. **THAT**, the principle of progressive realization of socio-economic rights under the Constitution requires the Government to take deliberate, concrete and targeted steps towards the achievement of these rights;
7. **THAT**, to realize affordable housing, the Government of Kenya identified housing as one of the four core agenda it intends to address with a projection of 500,000 new housing units every year;
8. **THAT**, New Build Construction Technology is a Kenyan construction invention developed by the petitioner and patented under African Regional Intellectual Property Organization on 9th August 2007 under Certificate of Grant of Patent No. AP 1765 awarded to New Build Ltd;

THE NATIONAL ASSEMBLY
RECEIVED
13 AUG 2020
DIRECTOR COMMITTEE SERVICES
Time:.....Sign:.....

PUBLIC PETITION

**REGARDING THE APPROVAL AND USE OF NEWBUILD'S LOW COST
CONSTRUCTION TECHNOLOGY**

9. **THAT**, the technology reduces the cost of production of houses by between 30-40% by employing the use of stones in the construction of the foundation, the floor slab and ring of beams instead of the traditional cement, thereby reducing the cost of the foundation footing by 53%, the cost of the floor slab by 69% and the cost of ring beams by 83%;
- ~~10. **THAT**, the technology is applicable whether the underlying base is soil or rock as it relieves considerable amount of pressure on the base and remains stable under varying weather conditions;~~
11. **THAT**, the application of the technology to only 25% of the Government's target of 150,000 housing units in urban areas and to 60% of the 300,000 housing units in rural areas would save the country over Kshs. 54.3 billion per year, and greatly contribute to realization of construction targets under the Kenya Vision 2030 roadmap;
12. **THAT**, the Technology has been presented to the relevant authorities in the country, including the Office of the President, the Ministry of Lands, Ministry of Transport, Infrastructure, Housing, Urban Development and Public Works as well as the National Construction Authority;
13. **THAT**, the Technology has been approved by the Ministry and has been uploaded on the Ministry's website, and that training sessions on the application of the technology have been carried out to various industry players under the auspices of the National Construction Authority;
14. **THAT**, the matters raised in this petition are not pending before any court of law, constitutional or legal body;

THEREFORE, your humble Petitioner prays that the National Assembly through the Departmental Committee on Transport, Public Works and Housing considers the issues raised in this petition on Newbuild Construction Technology with a view of making recommendations to the relevant government agencies on the use of the said technology with the objective of facilitating general adoption and utilization of the technology in Kenya's construction industry.

And your **PETITIONER** will ever pray.

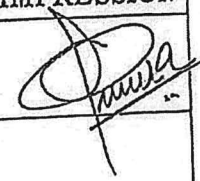
PRESENTED BY



**HON. SAMUEL ARAMA MP
MEMBER FOR NAKURU TOWN WEST CONSTITUENCY**

DATE:11/8/2020.....

PUBLIC PETITION
REGARDING THE APPROVAL, APPLICATION AND USE OF
NEWBUILD'S LOW COST CONSTRUCTION TECHNOLOGY

S/No	NAME	ID NO.	ADDRESS/MOBILE	SIGN OR THUMP IMPRESSION
1.	JOHN DUMAS GACHARA	2315712	Box 16454-20100 NAKURU	
2.				
3.				
4.				

MINISTRY'S SUBMISSION

16 NOV 2020

42
Telegraphic Address:

P.O. Bunge, Nairobi

Telephone: 254-020-2848000

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THE NATIONAL ASSEMBLY

Clerk's Chambers
National Assembly
Parliament Buildings
P O Box 41842-00100
NAIROBI, Kenya

When replying please quote

NA/DCS/TPWH/CORR/2020/ (49)

10th November, 2020

Maj. Gen. (Rtd) Dr. Gordon Kihalangwa,
Principal Secretary
State Department for Public Works
Ministry of Transport, Infrastructure, Housing, Urban Development & Public Works
Works Building
6 Ngong Road, Community Area
NAIROBI.

Mr. Charles Hinga, CBS,
The Principal Secretary,
State Department for Housing and Urban Development,
Ministry of Transport, Infrastructure, Housing & Urban Development,
Ardhi House - Ngong Road,
NAIROBI.

Mr. Andrew Saisi,
CEO & Managing Director,
National Housing Corporation,
NHC House, Aga Khan Walk,
NAIROBI.

Eng. Maurice Aketch,
Executive Director
National Construction Authority
9th Floor, KCB Plaza
Kenya Road
NAIROBI.

Dear Mr. Aketch.

RE: PETITION REGARDING THE APPROVAL APPLICATION AND USE OF
NEWBUILD'S LOW COST CONSTRUCTION TECHNOLOGY

The Departmental Committee on Transport, Public Works and Housing derives its mandate from the National Assembly's Standing Order No. 216 (5) where among others, the Committee is mandated to investigate and inquire into all matters relating to the assigned Ministries and departments as they may deem necessary, and as may be referred to them by the House.

Pursuant to the National Assembly's Standing Order No. 220, a petition regarding the approval, application and use of newbuild's low cost construction technology was submitted before the National Assembly, and in accordance with Standing Order No. 227, the petition was committed to the Departmental Committee on Transport, Public Works and Housing for consideration.

This is therefore to invite you to a meeting with the Committee on Wednesday, 18th November 2020 in Committee Room, 5th Floor, Continental House, Parliament Buildings, at 2.30 p.m., to make your presentation on the petition.

The Liaison officers for these meetings are Ms. Chelagat Tungo Aaron, on Tel. No. 0720436528 or email addresses: ctungo@parliament.go.ke and Mr. Ahmed Salim Abdalla, who may be contacted on Tel. no. 0710204056 or email addresses: damnan@parliament.go.ke.

Yours



JEREMIAH NDOMBI

For: THE CLERK OF THE NATIONAL ASSEMBLY

Copy to:-

Mr. Jaunes Macharia, EGH,
The Cabinet Secretary,
Ministry of Transport, Infrastructure, Housing, Urban Development & Public
Works,
Transcom House - Ngong Road,
NAIROBI



RECEIVED
11 AUG 2020
SPEAKER'S OFFICE
Box 41842, NAIROBI

TWELFTH PARLIAMENT (FOURTH SESSION)

THE NATIONAL ASSEMBLY

PUBLIC PETITION

(No. 28 of 2020)

Approved
SWA
12/8/2020

*Has Speaker
his is order. You
may approve.*

11/08/2020

**REGARDING THE APPROVAL, APPLICATION AND USE OF NEWBUILD'S
LOW COST CONSTRUCTION TECHNOLOGY**

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2. **THAT**, provision of adequate, affordable and decent housing for low income households is in short supply in the country;
3. **THAT**, due to lack of quality shelter, a majority of people live in areas with no access to clean water and sanitation as well as unreliable and unhealthy energy sources thereby leading to increased exposure to diseases;
4. **THAT**, the cost of production is the biggest challenge affecting the supply of housing in the country with the current housing deficit currently standing at 2 million houses and 61% of urban households living in slums;
5. **THAT**, this deficit continues to rise due to fundamental constraints on both the demand and supply side and is exacerbated by urbanization rate of 4.2% which is equivalent to 0.5 million new city dwellers every year;
6. **THAT**, the principle of progressive realization of socio-economic rights under the Constitution requires the Government to take deliberate, concrete and targeted steps towards the achievement of these rights;
7. **THAT**, to realize affordable housing, the Government of Kenya identified housing as one of the four core agenda it intends to address with a projection of 500,000 new housing units every year;
8. **THAT**, New Build Construction Technology is a Kenyan construction invention developed by the petitioner and patented under African Regional Intellectual Property Organization on 9th August 2007 under Certificate of Grant of Patent No. AP 1765 awarded to New Build Ltd;

THE NATIONAL ASSEMBLY
RECEIVED
13 AUG 2020
DIRECTOR COMMITTEE SERVICES

PUBLIC PETITION

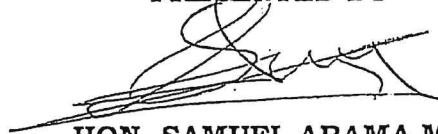
REGARDING THE APPROVAL AND USE OF NEWBUILD'S LOW COST
CONSTRUCTION TECHNOLOGY

9. **THAT**, the technology reduces the cost of production of houses by between 30-40% by employing the use of stones in the construction of the foundation, the floor slab and ring of beams instead of the traditional cement, thereby reducing the cost of the foundation footing by 53%, the cost of the floor slab by 69% and the cost of ring beams by 83%;
- ~~10. **THAT**, the technology is applicable whether the underlying base is soil or rock as~~
it relieves considerable amount of pressure on the base and remains stable under varying weather conditions;
11. **THAT**, the application of the technology to only 25% of the Government's target of 150,000 housing units in urban areas and to 60% of the 300,000 housing units in rural areas would save the country over Kshs. 54.3 billion per year, and greatly contribute to realization of construction targets under the Kenya Vision 2030 roadmap;
12. **THAT**, the Technology has been presented to the relevant authorities in the country, including the Office of the President, the Ministry of Lands, Ministry of Transport, Infrastructure, Housing, Urban Development and Public Works as well as the National Construction Authority;
13. **THAT**, the Technology has been approved by the Ministry and has been uploaded on the Ministry's website, and that training sessions on the application of the technology have been carried out to various industry players under the auspices of the National Construction Authority;
14. **THAT**, the matters raised in this petition are not pending before any court of law, constitutional or legal body;

THEREFORE, your humble Petitioner prays that the National Assembly through the Departmental Committee on Transport, Public Works and Housing considers the issues raised in this petition on Newbuild Construction Technology with a view of making recommendations to the relevant government agencies on the use of the said technology with the objective of facilitating general adoption and utilization of the technology in Kenya's construction industry.

And your **PETITIONER** will ever pray.


PRESENTED BY



HON. SAMUEL ARAMA MP
MEMBER FOR NAKURU TOWN WEST CONSTITUENCY

DATE:11/8/2020.....

PUBLIC PETITION
REGARDING THE APPROVAL, APPLICATION AND USE OF
NEWBUILD'S LOW COST CONSTRUCTION TECHNOLOGY

S/No	NAME	ID NO.	ADDRESS/MOBILE	SIGN OR THUMP IMPRESSION
1.	JOHN DUMAS GACHARA	2315712	Box 16454-20100 NAKURU	
2.				
3.				
4.				



NATIONAL CONSTRUCTION
AUTHORITY

KCB Towers
Kenya Road
Upper Hill
www.nca.go.ke

P.O.Box 21046 - 00100
Nairobi, Kenya
DL: +254 709 126/172/173
info@nca.go.ke

Our Ref: NCA 6/21/VOLI/37

Date: 18th November 2020

The Clerk's Chambers
National Assembly
Parliament Buildings
P.O. Box 41842-00100
NAIROBI

Attention: Mr. Jeremiah Ndombi

**RE: PETITION REGARDING THE APPROVAL APPLICATION AND USE OF
NEWBUILD'S LOW COST CONSTRUCTION TECHNOLOGY**

Reference is made to the above matter and your letter **REF: NA/DCS/TPWH/CORR/2020/ (49)** dated 10th November, 2020.

Kindly find enclosed herewith the National Construction Authority's memorandum in response to the petition.

The National Construction Authority appeared before the Parliamentary Departmental Committee on Transport, Public Works and Housing on 13th February 2020 to deliberate on the same petition dated 24th September 2019. During deliberations on the said date, the matter was marked as concluded.


Eng. Maurice Akech
EXECUTIVE DIRECTOR
SL/co

Encl.

Copy to: Maj. Gen. (Rtd) Dr. Gordon Kihalangwa
Principal Secretary
State Department for Public Works
Ministry of Transport, Infrastructure, Housing, Urban Development &
Public Works
NAIROBI



NATIONAL CONSTRUCTION
AUTHORITY

ISO 9001:2015 Certified

**MEMORANDUM ON PETITION
REGARDING THE APPROVAL
APPLICATION AND USE OF
NEWBUILD'S LOW COST
CONSTRUCTION TECHNOLOGY**

18TH NOVEMBER 2020

9TH – 11TH Floor, KCB TOWERS BUILDING, UPPER HILL
P.O. BOX 21046-00100
NAIROBI, KENYA
Telephone +254700021222
Email: info@nca.go.ke Website: www.nca.go.ke

MEMORANDUM ON PETITION REGARDING THE APPROVAL APPLICATION AND USE OF NEWBUILD'S LOW COST CONSTRUCTION TECHNOLOGY

1.0 INTRODUCTION

The National Construction Authority (NCA) is a state corporation established by the National Construction Authority Act No.41 of 2011. The principle purpose of the Authority is to oversee the construction industry and coordinate its development.

The National Construction Authority is mandated under Section 5 (2)(h) of the National Construction Authority Act No. 41 of 2011 to encourage the standardisation and improvement of construction techniques and materials. Further, according to Section 5 (2) (j) of the Act, the Authority shall provide, promote, review and co-ordinate training programmes organized by public and private accredited training centers for skilled construction workers and construction site supervisors.

The “Big Four” agenda was launched in December 2017 by the Honorable President Uhuru Kenyatta and it identifies four priority initiatives namely: enhancing manufacturing, affordable housing, universal health coverage and food security and nutrition which are to be implemented over five years (2017 – 2022). The key purpose of the agenda is to transform standards of living and put Kenya on the path of becoming an upper middle-income nation by 2030. It aims to create employment, reduce cost of living, income inequality, poverty among others.

In regards to the construction industry, the Big Four Agenda plans to build 500,000 affordable homes in all major cities by 2022; reduce corporate tax for developers constructing at least 400 units per year; and increase the supply of affordable houses by partnering with the private sector to develop homes in serviced land.

2.0 TECHNOLOGIES SUB-COMMITTEE OF THE PROJECT IMPLEMENTATION UNIT (PIU)

In line with the Big Four agenda, the government established a Techniques/Technologies sub-committee of the Project Implementation Unit (PIU) initially domiciled at the Kenya Building Research Centre (KBRC). The Techniques/Technologies Sub-Committee of the Project Implementation Unit (PIU) was tasked with the planning of the Innovative Building Materials and Technology Exhibition.

The team advertised for Expressions of Interest with clear Technical Specifications that each of the ‘would be’ providers of alternative building solutions were expected to comply with **(Annex 1)**. Upon opening of bids, twenty-four (24) firms had expressed interest, but only twenty (21) had met the established evaluation criteria **(Annex 2)**. However, this duty was transferred to the National Construction Authority vide a MEMO dated 20th

June, 2018 from the Principal Secretary, State Department for Housing, Urban Development and Public Works.

Hence, the National Construction Authority was tasked to spearhead the realization of the Government's Agenda on Affordable Housing, through coordination of the Techniques/Technologies Sub-Committee of the Project Implementation Unit (PIU). This is one of the approaches geared at addressing the high building costs associated with building materials and technologies.

3.0 APPOINTMENT OF THE SPECIAL COMMITTEE

Consequently, the Executive Director –National Construction Authority appointed a team of nine (9) members on 27th June, 2018 to spearhead the completion of the exercise (**Annex 3**). The team was required to organize exhibition in a pre-identified site at the Agricultural Society of Kenya grounds in Jamhuri dubbed '*Affordable Housing Village*'.

The Village affords an opportunity for innovators, manufacturers and suppliers to display their appropriate, innovative and sustainable materials and technologies ideal for use in the construction sector in Kenya.

The Executive Director –National Construction Authority further appointed a team of five experts from five different institutions to analyze the suitability of the exhibited technologies. These included:

- 1) Department of the Built Environment, University of Nairobi (UON)
- 2) The Kenya Green Building Society (KGBS)
- 3) Architectural Association of Kenya (AAK)
- 4) Material Testing and Research Department
- 5) Kenya Bureau of Standards (KEBS)

The appointed nominees were required to independently develop an evaluation criterion and thereafter carry out a qualitative and quantitative evaluation of the appropriateness of the said materials and technologies.

The Authority in partnership with the State Department of Housing hosted the 1st edition of the Affordable Housing Village Exhibition on 1st to 7th October 2018 at the ASK Show Grounds in Jamhuri. The exhibition was aimed at showcasing new and innovative materials and technologies in the construction industry to the public. The Affordable Housing Village attracted a total of 7 exhibitors who all showcased their different construction materials and technologies. These included;

- a) Bola Technologies
- b) Buildmart Solutions

- c) Hydraform/Sureblock Limited
- d) Koto Housing
- e) Ecobrain Limited
- f) National Housing Corporation (NHC)
- g) Ecosteel Africa

Further, the Authority hosted the 2nd edition of the Affordable Housing Village Exhibition at the Nairobi International Trade Fair from 30th September to 6th October 2019 at the ASK Show Grounds in Jamhuri. A further 2 No. companies exhibited giving a total of 9 No. companies exhibiting in the year 2019.

- a) Mineco Housing Limited
- b) Femo Works Engineering Limited

4.0 NEW BUILD'S LOW-COST CONSTRUCTION TECHNOLOGY

Newbuild Limited via letter REF: NL/NCA/0.06B dated 28th September 2015 requested the Authority to facilitate and support New Build's Technology Training and Transfer. In response, the Authority via letter REF: NCA 5/6/VOL1/26 dated 7th October 2015 proposed to support New Build Technology Training and Transfer by giving the company an opportunity to discuss the technology during the planned year 2015/2016 contractors and artisans training seminar (**Annex 4**).

Further, the State Department for Housing via letter REF: MLHUD/DH/HD/8/13/2/6 dated 15th September 2015 requested the Authority to collaborate with Newbuild Limited in the Authority's capacity building and training program for construction workers (**Annex 5**).

The State Department for Housing and Urban Development vide letter REF: MTIHUD/HUD/ADM/1/1/1/369 dated 1st November 2018 forwarded a letter detailing the patented technology by Newbuild and noted that Newbuild was seeking to collaborate in the Authority's capacity building and training program for construction workers (**Annex 6**). The Authority encouraged Newbuild Limited to construct a sample structure at the Nairobi show ground to showcase the technology.

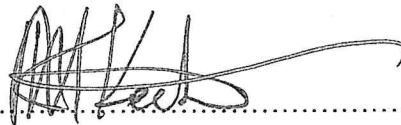
The Authority received a letter REF:NL/NCA/0.06C dated 11th January 2019 on 14th January 2019 from Newbuild Limited requesting for support and facilitation to enable quick implementation of the patented technology (**Annex 7**).

In response, the Authority held a meeting with Newbuild Limited on 15th January 2019 at its headquarters in Nairobi (**Annex 8**). The agenda of the meeting was presentation of the Newbuild Construction Technology and discussion on the way forward in rolling out training and capacity building on

Newbuild Construction Technology in the construction industry. During the meeting, Newbuild Limited was advised for the second time to construct a sample structure at the Nairobi show ground to showcase the technology. However, the company did not exhibit their technology in the Affordable Housing Village Exhibition held from 30th September to 6th October 2019.

5.0 WAY FORWARD

1. The Authority is mandated under the Act to encourage the standardisation and improvement of construction techniques and materials. However, the National Construction Authority Act 2011 as currently enacted does not mandate the Authority to test any material or technology to be used during construction. Despite of this, the Authority collaborates with other state agencies such as the materials department and Kenya Bureau of Standards to carry out testing.
2. The Building Code, 1968 does not reflect an up-to-date scientific understanding of building technology or evolving societal expectations. In recognition of these limitations, the Building Code is currently undergoing review to address the inadequacies identified in the Code.
3. The standardisation and improvement of construction techniques and materials will be achieved through collaboration among various stakeholders including ministries, departments, state agencies, county governments and other public and private sectors.



Eng. Maurice Akech
EXECUTIVE DIRECTOR

ANNEX 1

APPENDICES

ANNEX 1: TECHNICAL SPECIFICATIONS



Republic of Kenya

MINISTRY OF TRANSPORT, INFRASTRUCTURE, HOUSING AND URBAN DEVELOPMENT

State Department for Housing & Urban Development

EXPRESSION OF INTEREST (EOI) ON INNOVATIVE BUILDING MATERIALS AND TECHNOLOGY

TECHNICAL SPECIFICATIONS

1. The Government of Kenya has defined the "Big Four" transformation agenda for the Nation which identifies Four Priority initiatives to be implemented over the next five years 2017 – 2022, core among them the Delivery of 500,000 Affordable Housing Units.
2. The State Department for Housing and Urban Development has been charged with the mandate of structuring and delivering the Affordable Housing Programme covering major urban areas across the country and will incorporate innovative, cost effective and efficient delivery models. These will entail the use of affordable building materials, efficient construction technologies and use of environmentally friendly building materials and techniques.
3. One of the Key functions of the State Department for Housing and Urban Development is to address the issue of high building costs, and which it does by promoting collaborative research, development, and, utilization of Appropriate Building Materials and Technologies (ABMT). Towards this end, the State Department intends to hold an exhibition in Nairobi, for Innovative Building Materials and Technologies. This presents an opportunity for exhibitors to showcase their innovative, affordable building materials and technologies, which could be employed in the construction of the 500,000 affordable housing units.
4. A standard exhibition space shall be 4mx6m (24 sqm) ground coverage. The final layout will become available after all booth spaces have been defined, approximately 14 days before commencement of the exhibition.
5. Costs of setting up of booths or show houses will be borne by the exhibiting firm.
6. The aim of the exhibition is to employ the technology in the construction of the 500,000 Housing Units.
7. The following will be the expectations from the Exhibitors:-
 - a) Life-Size demonstration of their Proposal

*Technical Specifications for Expression of Interest
(EOI) on Innovative Building Materials &
Technology Exhibition*

*State Department for Housing
& Urban Development*

- b) Indication of time taken to construct a Unit on 24sqm
- c) Cost of the construction per square meter
- d) Maximum height the technology can accommodate in terms of storeys
- e) Any limitations the technology may have.
- f) Any other relevant information on the material and/or technology

8. The criteria for prequalification, and which are to be provided by the firms/companies in their respective "Expression of Interest" will include:

- a) Company Profile
- b) Statutory documents (Certificate of Incorporation/Registration)
- c) Detailed presentation on the product (material and/or technology)
- d) Ideas that depict adequate consideration of environmental sustainability
- e) Innovative and/or appropriate building material and/or technology.
- f) Cost effectiveness
- g) Time conscious construction duration
- h) Quality and Workmanship
- i) Ability and capacity to undertake construction assignments
- j) Drawings and Artistic impressions to indicate how the 4mx6m space will be utilized

9. The application is open to firms who meet the above listed eligibility criteria and have capacity to perform.

10. The Government reserves the right to prequalify any interested firm/company to participate at the exhibition.

ANNEX 2

ANNEX 2: EVALUATION AND HANDING OVER REPORT



MINISTRY OF TRANSPORT, INFRASTRUCTURE, HOUSING & URBAN DEVELOPMENT
(State Department of Housing & Urban Development)

INTERNAL MEMO


To: Head, Supply Chain Management Services

From: Secretary, Tender Evaluation Committee

Date: 31st May, 2018

RE: TENDER EVALUATION REPORT FOR THE EXPRESSION OF INTEREST (EOI) ON
INNOVATIVE BUILDING MATERIAL AND TECHNOLOGY EXHIBITON – TENDER NO.
MTIHU/HUD/KBRC/37/2017-2018

Forwarded herewith please find duly signed tender evaluation report for the
above tender for your further necessary action.


David M. Muchiri

MINISTRY OF TRANSPORT, INFRASTRUCTURE, HOUSING AND URBAN DEVELOPMENT – STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

EXPRESSION OF INTEREST ON INNOVATIVE BUILDING MATERIALS AND TECHNOLOGY EXHIBITION – TENDER NO. MTIHUD/HUD/KBRC/37/2017-2018

PROFESSIONAL ADVICE NO: PA/S65/01/MTIHUD/SDHUD/2017-2018

Department:	Department of Housing
Item Description:	Expression of Interest on Innovative Building Materials and Technology Exhibition
Tender No.:	MTIHUD/HUD/KBRC/37/2017-2018
Tender Method:	Open Tender
Tenders Opening Date, Time & Venue:	Ardhi House Boardroom, 6 th Floor, on 3 rd May, 2018 at 11.00am
No of Bids Received	24 No.

AS. DV KBRC/AS/E
NCA
time next steps

1.0 Introduction

The Government of Kenya has defined the "Big Four" transformation agenda for the Nation which identifies Four Priority initiatives to be implemented over the next five years 2017 – 2022, core among them the Delivery of 500,000 Affordable Housing Units.

The State Department for Housing and Urban Development has been charged with the mandate of structuring and delivering the Affordable Housing Programme covering major urban areas across the country and will incorporate innovative, cost effective and efficient delivery models. These will entail the use of affordable building materials, efficient construction technologies and use of environmentally friendly building materials and techniques.

One of the Key functions of the State Department for Housing and Urban Development is to address the issue of high building costs, and which it does by promoting collaborative research, development, and, utilization of Appropriate Building Materials and Technology (ABMT).

1.1 Scope of works

The State Department intends to hold an exhibition in Nairobi, for innovative building materials and technologies. This presents an opportunity for exhibitors to showcase their innovative, affordable building materials and technologies, which could be employed in the construction of the 500,000 affordable housing units.

A standard exhibition space shall be 4mx6m (24 sqm) ground coverage. The final layout will become available after all booth spaces have been defined, approximately 14 days before commencement of the exhibition.

Costs of setting up of booths or show houses will be borne by the exhibiting firm.

The aim of the exhibition is to employ the technology in the construction of the 500,000 Housing Units.

The following will be the expectations from the Exhibitors:-

- a) Life-Size demonstration of their Proposal
- b) Indication of time taken to construct a Unit on 24sqm
- c) Cost of the construction per square meter
- d) Maximum height the technology can accommodate in terms of storeys
- e) Any limitations the technology may have
- f) Any other relevant information on the material and/or technology

1.2 Advertisement and submission of Expression of Interest (EOI) Bids

The Request for Expression of Interest (EOI) was published in My GOV pull out on 27TH March, 2018 and in the Daily Nation on 28th March, 2018. The bids were to close on 3rd May, 2018. In the advert the Government invited Bids for Expression of Interest (EOI) from Firms on Innovative Building Materials and Technology Exhibition.

Bids were received and opened on 3rd May, 2018 at 11.00 a.m. East African Time on 6th floor Conference Room Wing B, Ardhi House by a committee appointed by the Principal Secretary, State Department for Housing and Urban Development.

1.3 Submission of bids

At the opening of bids twenty four (24) applications were received. The list of firms that submitted the EOI is as shown in Table 1 below:

BIDDERS NO.	NAME OF THE FIRM	NO. OF DOCS.	CD/ FLASH DISK	CONTACTS
1. ✓	SPACE AND STYLE	1	-	P.O. BOX 277-00506 NAIROBI, KENYA TEL:0722706837/0733511311 ✓
2.	CHINA WU YI	2	-	P.O. BOX 49282-100 NAIROBI ✓
3. ✓	BOLEYN MAGIC WALL PANEL L.T.D	2	-	P.O. BOX 18056-00500 NAIROBI, KENYA TEL: 020-3591088
4. ✓	HAVEN HEIGHTS LTD	2	-	P.O. BOX 1192-00232 RUIRU TEL: 0729-638316
5. ✓	CSR SPACE LLC	2	-	TIM MUTISO TEL. 0711905541 tim@csrspace.net
6. ✓	ECO TRACE SOLUTIONS L.T.D	1	-	P.O. BOX 16720116 GILGIL, KENYA TEL: 0722114217/726389396
7. ✓	ABC LIMITED	1	-	MBOCI NJEHU TEL. 0722756767 mbocinjehu@gmail.com
8. ✓	BOLA ASSOCIATES L.T.D	1	-	P.O. BOX 27538-00506 NAIROBI, KENYA CELL: +254722942285
9. ✓	LINKAGE AFRICA LIMITED	1	-	P.O. BOX 51271-00100 NAIROBI, KENYA TEL:254(0)202044580/ +254722814045
10. ✓	KENYA CLAY PRODUCTS LIMITED	1	-	P.O. BOX 236-00232 RUIRU, KENYA TEL:0722670802/733616654
11. ✓	BUILDMART SOLUTIONS LIMITED	1	-	P.O. BOX 5116-01002 THIKA, KENYA TEL:0722632510/0738622613
12. ✓	QUEST WORKERS LIMITED	1	-	P.O. BOX 25520-00603 LAVINGTON, NAIROBI ✓

BIDDERS NO.	NAME OF THE FIRM	NO. OF DOCS.	CD/ FLASH DISK	CONTACTS
13.	HYDRAFORM INTERNATIONAL LIMITED	1	-	P.O. BOX 17570 SUNWARD PARK TEL: (27-11)913-1449/2537
14. ✓	CEMEX HOLDINGS LIMITED	1	FLASH DISK -1	P.O. BOX 45155-00100 NAIROBI, KENYA TEL: +254722764433/724125252
15. ✓	KENYA KOMPOSITES LTD	1	-	5 th floor KMA APPARTMENTS, NAIROBI, KENYA TEL: 0711882048/702893159
16. ✓	MINECO HOUSE LIMITED	1	-	P.O. BOX 75917-00200 NAIROBI TEL: +254724459339/737362241
17.	NATIONAL HOUSING CORPORATION	1	-	P.O. BOX 30257, NAIROBI TEL: 312149/312147
18. ✓	KOTO HOUSE KENYA	1	-	P.O. BOX 52494-00200 NAIROBI, KENYA TEL: +254(0)789808991/772124408
19.	GREMOUND THROUGH CLP CONSULTING SERVICES LIMITED	1	-	P.O. BOX 19473-00202 NAIROBI, KENYA
20.	WHITE ARKITEKTER AB	1	-	P.O. BOX 2502 SE-40317 Goteborg Tel: +46(0)31-608600
21. ✓	DURAWORKS AGENCIES	1	-	P.O. BOX 62488-00200 NAIROBI TEL: 0721599134
22. ✓	SAINT GOBAIN	1	-	P.O. BOX 2319,00606 NAIROBI, KENYA TEL: +254(020)3671000
23. ✓	WALL TILES AND FORMS INC.	3	-	P.O. BOX 76482 YAYA TOWERS, NAIROBI TEL: +254722764955/707452590
24.	JIDONG DEVELOPMENT GROUP(BBMG AND JIDD)	1	-	POSTAL CODE: 100000 TEL: (8610)57559237

2.0 Evaluation of the EOI and Evaluation Committee

2.1 Evaluation Committee

The evaluation committee was appointed by the Principal Secretary vide letter Ref: MTIHUD/HUD/CON/6/1 VOL. VIII/28 dated 29th April, 2017. (Copy attached)

The members of the evaluation committee were as follows:

Table 2: List of Evaluation Committee Members

No	NAME	STATE DEPARTMENT	ROLE
1	Mr. Paul Gesora	National Construction Authority (NCA)	Chairperson
2	Mr. Adams Namayi	Kenya Building Research Institute (KBRC)	Member
3	Arch. Stephen Maina	Housing	Member
4	Arch. Susan Kwamboka	Housing	Member
5	Mr. David Muchiri	Housing	Secretary

2.2 Evaluation Criteria

The EOI evaluation committee assessed the individual bidders based on the evaluation criteria indicated and detailed in the EOI document.

The bids were evaluated as per the evaluation criteria summarized in Table 3 below:

Table 3: Evaluation Criteria

A	Company profile
B	Statutory documents (Certificate of incorporation/registration)
C	Detailed presentation on the product (material and/or technology)
D	Ideas that depict adequate consideration of environmental sustainability
E	Innovative and/or appropriate building material and/or technology
F	Cost effectiveness
G	Time conscious construction duration
H	Quality & workmanship
I	Ability & capacity to undertake construction assignments
J	Drawings & artistic impressions to indicate space utilization

3.0 Evaluation of Submitted EOI bids

The bids were evaluated based on the evaluation criteria provided in the Expression of Interest. Bidders were required to satisfy at least six areas among the ten referred in the EOI document.

The results of the evaluation were as illustrated in the table 4 below:

Bidders no.	Firm Name	Company profile	Statutory documents	presentation	Environmental sustainability	Innovative & appropriate material technology	Cost effectiveness	Construction duration	Quality & workmanship	Ability & capacity	Drawing & space utility	Remark
1	SPACE AND STYLE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Passed
2	CHINA WU YI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Passed
3	BOLEYN MAGIC WALL PANEL L.T.D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Passed
4	HAVEN HEIGHTS LTD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Passed
5	CSR SPACE LLC	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓	Passed
5	ECO TRACE SOLUTIONS L.T.D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Passed
7	ABC LIMITED	✓	✓	✓	✓	✓	✗	✓	✗	✗	✗	Failed
8	BOLA ASSOCIATES L.T.D	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗	Failed
9	LINKAGE AFRICA LIMITED	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	Passed
10	KENYA CLAY PRODUCTS LIMITED	✓	✓	✓	✗	✗	✗	✗	✓	✗	✓	Failed
11	BUILDSMART SOLUTIONS LIMITED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Passed
12	QUEST WORKERS LIMITED	✓	✓	✓	✗	✓	✗	✗	✗	✓	✓	Passed
13	HYDRAFORM INTERNATIONAL LIMITED	✓	✓	✓	✓	✓	✓	✗	✓	✗	✓	Passed
14	CEMEX HOLDINGS LIMITED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Passed

BIDDERS NO.	NAME OF THE FIRM	CONTACTS
17.	NATIONAL HOUSING CORPORATION	P.O. BOX 30257, NAIROBI TEL: 312149/312147
18.	KOTO HOUSE KENYA	P.O. BOX 52494-00200 NAIROBI, KENYA TEL: +254(0)789808991/772124408
19.	GREMOUND THROUGH CLP CONSULTING SERVICES LIMITED	P.O. BOX 19473-00202 NAIROBI, KENYA
21.	DURA WORKS AGENCIES	P.O. BOX 62488-00200 NAIROBI TEL: 0721599134
22.	SAINT GOBAIN	P.O. BOX 2319,00606 NAIROBI, KENYA TEL: +254(020)3671000
23.	WALL TILES AND FORMS INC.	P.O. BOX 76482 YAYA TOWERS, NAIROBI TEL: +254722764955/707452590
24.	JIDONG DEVELOPMENT GROUP(BBMG AND JIDD)	POSTAL CODE: 100000 TEL:(8610)57559237

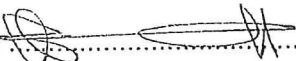
I therefore advise the shortlisted firms to be approved as appropriate.

Sign: 

Date:

Head, Supply Chain Management Services

Approved/Not-approved

Sign: 

Date: 14/02/18

Accounting Officer

24 JUN 2018
1059



Project
25/6

**MINISTRY OF TRANSPORT, INFRASTRUCTURE, HOUSING
AND URBAN DEVELOPMENT**

STATE DEPARTMENT FOR HOUSING, URBAN DEVELOPMENT AND PUBLIC WORKS
Kenya Building Research Centre

*Kenya Building Research Centre Building
Ngong Road, Nairobi
kbrc@housingandurban.go.ke*

*P.O. Box 62176 - 00200
Tel +254 (0) 20 272 3101
Fax +254 (0) 20 273 7659*

Ref. No. KBRC/203/DAH/Vol.I/(50)

Date: 22nd June, 2018

**Executive Director,
National Construction Authority,
KCB Plaza, Upper hill,
NAIROBI.**

**RE: HANDING OVER PLANNING OF THE INNOVATIVE BUILDING
MATERIALS AND TECHNOLOGY EXHIBITION TO NATIONAL
CONSTRUCTION AUTHORITY**

Reference is made to a memo dated 20th June, 2018, addressed to this office by the Principal Secretary, State Department for Housing, Urban Development and Public Works, appointing the National Construction Authority (NCA) to handle planning of the above referred to exhibition.

This is to hand over planning of the exhibition, including all the pending tasks, to NCA as per the Principal Secretary's requests. Kenya Building Research Centre is nonetheless still available to offer support for the tasks ahead, and will be involved in the process as required to ensure success of the exhibition, as per the above referred to memo by the Principal Secretary.

Enclosed herewith, please find handing over report for the planning of the Innovative Building Materials and Technology Exhibition, detailing status of the preparations including pending tasks, for your reference as you embark on this duty.

**Arch. Oliver Okello
Ag. DIRECTOR
KENYA BUILDING RESEARCH CENTRE**

Encl.



MINISTRY OF TRANSPORT, INFRASTRUCTURE, HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING, URBAN DEVELOPMENT AND PUBLIC WORKS
Kenya Building Research Centre

*Kenya Building Research Centre Building
Ngong Road, Nairobi
kbrc@housingandurban.go.ke*

*P.O. Box 62176 – 00200
Tel +254 (0) 20 272 3101
Fax +254 (0) 20 273 7659*

INNOVATIVE BUILDING MATERIALS AND TECHNOLOGY EXHIBITION HANDING OVER REPORT

The State Department for Housing, Urban Development and Public Works is charged with the responsibility of facilitating and coordinating the housing sector in Kenya. One of its key functions is to address the high building costs by promoting collaborative research, development and utilization of innovative building material and technologies. Towards this end, the State Department for Housing, Urban Development and Public Works is organizing an exhibition on Innovative Building Materials and Technologies to sensitize the public on affordable housing solutions. The exhibition is to be held at the ASK grounds at Jamhuri Park Nairobi.

Kenya Building Research Centre has been heading the Technology/Techniques sub-committee of the Programme Implementation Unit (PIU), and which was tasked with the planning for the Innovative Building Materials and Technology Exhibition, and gives reports during PIU meetings and/or as required.

This report details the status of the preparations towards planning for the exhibition.

1. A request was sent by the State Department for Housing, Urban Development and Public Works, to the Agricultural Society of Kenya (ASK), requesting them for 5acres of land for purposes of holding the exhibition.
2. The ASK responded stating that in partnership with the Government of Kenya, they have developed an elaborate master plan for the redevelopment of Jamhuri park showground, aligned with Vision 2030. The State Department's request for allocation of land, was to be guided by the mixed land use and which was in its first phase of implementation.
3. Consultations were held with ASK upon which they agreed to allocate to the State Department, approximately 1acre of land directly opposite the entrance to the main arena. ASK also gave their charges for the land as follows:-
 - i. Off show exhibition -KShs. 1.0 million
 - ii. Exhibition during Nairobi International Trade Fair -KShs. 1.5 million
 - iii. Costs for electricity, water, exhibition grounds security services e.t.c. to be met by the State Department for Housing, Urban Development and Public Works.

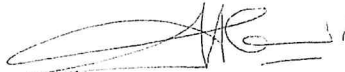
4. The State Department placed advertisement notice with the Nation Media Group Limited and also in MyGov publication, for "Expression of Interest in Innovative Building Materials and Technology Exhibition. The EOI was initially to be opened on 19th April, 2018 but was later extended through an addendum placed in the local daily newspapers, to allow prospective exhibitors attend a "Pre-Bid Meeting"
5. A "Pre-Bid Meeting" with the prospective exhibitors was held on 24th April, 2018 at the Kenya Building Research Centre Auditorium to respond to the interested exhibitors concerns, inquiries and queries.
6. The Principal Secretary, State Department for Housing, Urban Development and Public Works appointed the Opening Committee, in line with the Public Procurement and Asset Disposal Act, 2015, to open the EOI.
7. The Expression of Interest was opened at Ardhi House 6th Floor Conference Room on 3rd May, 2018 by the appointed Committee Members in the presence of applicants who chose to attend.
8. An Evaluation Committee was similarly appointed by the Principal Secretary, State Department for Housing, Urban Development and Public Works in line with the Public Procurement and Asset Disposal Act, 2015.
9. The Evaluation Committee finalized their report and submitted to the Head of Supply Chain Management Services on 31st May, 2018 for onward submission, with the professional opinion, to the Principal Secretary as per the procurement requirements. The Head of Supply Chain Management Services gave his professional opinion and the Principal Secretary approved the evaluation report on 14th June, 2018.

PENDING TASKS

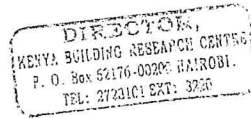
- a) The Technology/Techniques Sub-committee has held several meetings and developed a tentative programme and budget for the exhibition, with an initial proposal to hold the exhibition from 9th July, 2018 to 14th July, 2018. The programme to be reviewed, vis-a-viz, the time required by the exhibitors to set-up and in liaison with ASK to avoid a clash with other activities they may have programmed. — ASK now committed in July
- b) Consultations with ASK was initiated on 20th June, 2018 to ascertain the exact dates ideal for the exhibition. ASK indicated that the State Department should respond to their letter, accepting the offer they made for the grounds and indicating the period the grounds were required.
- c) An agreement is to be entered into between the State Department for Housing, Urban Development and Public Works on one part, and ASK on the other, for the use of their grounds. ASK has a standard form of agreement they use with other parties, however the State Department may develop a form of agreement and submit to them for their review and consideration.
- d) Payments to ASK for the grounds not yet made.

- e) Following approval of the evaluation report by the Principal Secretary, communication on the outcome of the process is to be sent to all parties who participated in the EOI.
- f) Agreement to be prepared and entered into between the State Department for Housing, Urban Development and Public Works on one part, and each of the successful exhibitors on the other part, for participation in the exhibition, subject to there being no appeals in accordance with the regulations.
- g) The design layout for the grounds to be prepared, clearly mapping out circulation areas and spaces where exhibitors are to set up.
- h) The grounds to be prepared for the exhibition, any overgrown grass and/or bushes cut, debris removed, circulation areas paved etc.
- i) Exhibition stand for the State Department for Housing, Urban Development and Public Works to be set up, including materials to be communicated and/or issued to the public. The entrance building to be renovated to make it presentable. This may be put to use by the State Department officers at the exhibition.
- j) Exhibitors to set up their exhibitions.
- k) Programme for activities during each day of the exhibition to be drawn. Guests lists to be prepared and invitations sent out.
- l) Publicity for the exhibition to be undertaken.
- m) The tentative budget to be reviewed, all costs included and firmed up. (10M)

Prepared and Handed Over by:-



Arch. Oliver Okello
Ag. DIRECTOR
KENYA BUILDING RESEARCH CENTRE

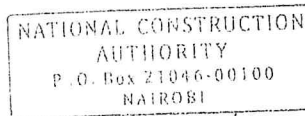


22nd JUNE, 2018
Date

Handed Over to:-



Eng. Maurice Akech
Ag. Executive Director
NATIONAL CONSTRUCTION AUTHORITY



22/06/2018
Date

ANNEX 3

ANNEX 3 APPOINTMENT OF SPECIAL COMMITTEE



INTERNAL MEMO

From: The Ag. Executive Director

To: Paul Gesora - Chairman
Samson Lukoba
Arch. Stephen Mwilu
Timothy Njoroge
John Kipkorir
Arch. David Lagat
Elle Rabongo
Adam Namayi - KBRC Representative
Qs. David Mathu - Secretary

Date: 27th June, 2018

RE: APPOINTMENT OF COMMITTEE MEMBERS TO GUIDE EXECUTION OF INNOVATIVE BUILDING MATERIALS AND TECHNOLOGY EXHIBITION

The above referenced exhibition is part of the many flagship programmes identified by the Project Implementation Unit (PIU) of the State Department of Housing, Urban Development and Public Works in support of Affordable Housing, one of the pillars under the Big Four Agenda.

The Authority is a member of the PIU and our involvement is key to the realisation of Affordable Housing. The Authority has been tasked with execution of Innovative Building Materials and Technology Exhibition, a process that had already commenced under the Kenya Building Research Institute but which has since been handed over to the Authority.

The exhibition will be held at the ASK Nairobi Show Ground where the State Department of Housing, Urban Development & public Works has been offered one acre of land to host the event. By the time of the programme handover to the Authority the procurement process to identify exhibitors had already commenced and Expression of Interest documents evaluated where 21 out of 24 bidders qualified.

It is now upon the Authority to urgently guide the remaining steps in the execution of this programme.

The purpose of this memo therefore is to appoint you as a committee member to guide the above process and execute the show. It is expected that you will familiarize yourselves with the programme's handover documents and consequently draw a road map for urgent realisation of this project.

Please submit to this office weekly reports of your progress in this endeavour.



Eng. Maurice Akech
Ag. EXECUTIVE DIRECTOR

ANNEX 4

**ANNEX 4 LETTER REF NCA5/6/VOL 1/26 FROM NATIONAL
CONSTRUCTION AUTHORITY TO MR. JOHN DUMAS GACHARA**



23 OCT 2015

KCB PLAZA
9th Floor
Kenya Road, Nairobi
www.nca.go.ke

P. O. Box 21046-00100
Nairobi, Kenya
DL:0700 021 222
info@nca.go.ke

REF: NCA5/6/VOL1/26

Date: 7th October, 2015

Mr. John Dumas Gachara,
Managing Director,
NewBuild Ltd,
P.O. Box 16454,
NAKURU

Dear Sir,

**RE: NEWBUILD CONSTRUCTION TECHNOLOGY (Patent Certificate No. AP
1765) TECHNOLOGY TRAINING AND TRANSFER.**

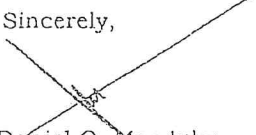
Reference is made to your letter Ref: NL/NCA/0.06B dated 28th September, 2015.

The Authority will be at hand to support and facilitate you in the New Build Technology Training and Transfer. We propose to do this by giving you an opportunity to introduce, discuss and market the technology in some of our planned year 2015/2016 contractors and artisans training seminars in different parts of the country once the programme is rolled out.

This will be discussed under '*The Emerging Technologies Sub-theme*' of the conferences. We will further engage you through our training & capacity building department in due time.

We trust you will find this in order. Should you have other concerns, please feel free to engage us further.

Yours Sincerely,


Arch. Daniel O. Manduku
EXECUTIVE DIRECTOR/CEO

ANNEX 5

ANNEX 5 LETTER FROM STATE DEPARTMENT FOR HOUSING

23/09/2015



MINISTRY OF LANDS, HOUSING AND URBAN DEVELOPMENT DIRECTORATE OF HOUSING

Telephone: (02) 2718050
Fax: (02) 2734886

Ardhi House
1st Ngong Avenue
P.O. Box 30119-00100
Nairobi, Kenya

When replying please quote

Ref No: MLHUD/DH/HD/8/13/2/6

Date: 15th September, 2015

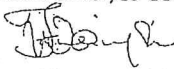
The Chief Executive Officer
National Construction Authority
1st Floor, Hill Plaza, Ngong Road
NAIROBI

NEW BUILD CONSTRUCTION TECHNOLOGY

The Housing Directorate through the Department of Housing is charged with the responsibility for promoting research and utilization of appropriate building materials and technology to facilitate development of affordable housing. This is in line with the Constitution that requires the state to recognize the role of science and indigenous technologies in the development of the nation and promote the intellectual property rights of the people of Kenya. We recognize the National Construction Authority as a key partner in complementing our endeavors in building capacity for delivery of cost-effective housing.

The Department has compiled and uploaded in the Ministry's website an inventory of various appropriate building materials and technology available in the country. The inventory is a tool for sharing information to members of the public and built-environment professionals and promoting uptake of the emerging technologies. Among them is Newbuild Construction Technology that uses quarry stones in a specialized patented methodology to cost-effectively replace concrete strip foundation and floor slab in single storey construction.

The purpose of this letter is therefore to brief you on the indigenous technology whose inventor is John Dumas Gachara of Newbuild Ltd., P. O. Box 16454-20100, Nakuru for possible collaboration in your capacity building and training program for construction workers. This would catalyze countrywide application of the technology.


Jane W. Mwangi (Mrs)
Ag. DIRECTOR OF HOUSING

CC:

NOO:

✓ John Dumas Gachara
Newbuild Ltd.,
P. O. Box 16454-20100,
Nakuru

ANNEX 6

ANNEX 6 LETTER REF: MTIHUD/HUD/ADM/1/1/1/369 DATED 1ST NOVEMBER 2018 FROM THE STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT TO NATIONAL CONSTRUCTION AUTHORITY



M. P. CBS (
Study & adv
2/11

**MINISTRY OF TRANSPORT, INFRASTRUCTURE, HOUSING
URBAN DEVELOPMENT AND PUBLIC WORKS
State Department for Housing and Urban Development**

6th Floor, Ardhi Building
1st Ngong Avenue

OFFICE OF THE PRINCIPAL SECRETARY
P.O. Box 30119 - 00100
Tel: +254 (0) 20 2734886
NAIROBI

REF: MTIHUD/HUD/ADM/1/1/1/369

Date: 1st November, 2018

Mr. Maurice Aketch
Ag. Managing Director
National Construction Authority
NAIROBI

RE: REQUEST TO FINALIZE AND ROLL OUT NEWBUILD CONSTRUCTION TECHNOLOGY

Reference is made to the above subject matter.

Please find attached a letter detailing a patented technology which can be utilized for affordable housing construction.

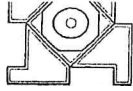
The inventor is interested in a possible collaboration in capacity building and training for construction workers between the National Construction Authority and themselves.

Kindly accord him the necessary assistance.

Florence Amoit
Ms. Florence Amoit
Secretary Administration
FOR PRINCIPAL SECRETARY

CC:

Prof. Paul Maringa CBS
Principal Secretary
State Department for Public Works
NAIROBI



Designbuild
(Construction Solutions)

NAKURU.

BRANCH OFFICE
NAIVASHA ROAD
P. O. BOX 57302 - 00200
NAIROBI,
Email: dumagesh@yahoo.com

Our Ref: NL/PS-TVET/0.01

Your Ref:

Date: 19/10/2018

The Principal Secretary
TVET Authority
P. O. Box 35625 - 00100,
NAIROBI.

23 OCT 2018

Dear Sir,

REQUEST TO FINALISE AND ROLL OUT
NEWBUILD CONSTRUCTION TECHNOLOGY
(Invention Patent Certificate No. AP 1765)
TRAINING AND TECHNOLOGY TRANSFER
The Industrial Property Act-2001 Section 80(1)
and

The Kenya Science, Technology and Innovation Act-2013

Sir, we are a Kenyan construction Research and Development firm since 1993. We seek to revolutionize the construction industry and accelerate delivery of affordable housing; through Innovation and Digital Online building supervision and construction management.

We are also aware that, the Kenya Government is desirous to employ innovative construction techniques in provision of affordable and decent housing for Kenyans as indicated in The Jubilee Manifesto 2017.

The World Bank estimates Kenya to have a deficit of 2 million housing units annually. The Government has been urged by Habitats for Humanity to ensure creation of 50,000 decent affordable housing units for low-income households in rural Kenya in the next five years. This would account for 10 per cent of the 500,000 houses pledged by President Uhuru Kenyatta in The Big Four Agenda.

According to Habitat 1,500 sub-standard houses are built in rural Kenya each week, mostly made of wood and mud. This compounds the housing problem for the close to 20 million Kenyans living below poverty line.

Attention on housing is almost exclusively focused on urban dwellings, while rural housing needs have been almost totally ignored. To meet the above challenges Kenya needs practical innovative technologies and efficient, competent and well trained human resource.

However, Newbuild Ltd holds Invention Patent for affordable construction technology from African Regional Intellectual Property Organization (ARIPO); *Invention Patent Certificate No. AP1765*. The technology is so simple to understand and apply, which makes it 'DO-IT-YOURSELF (DIY)' technology.

The official Government records on empirical Evaluation of Newbuild Construction Technology, carried out at Ministry's ABMT Centre Nakuru, between 7th and 22nd December, 2009 was amazing, with a minimum overall cost reduction of 16.65%. The cost reduction is even higher for the targeted elements as foundations come down by 53.08%, floor slab by 69.19% and the ring beam by 83.34%.

In this connection, the Department of Housing and National Construction Authority have been looking forward for possible collaboration in capacity building and training programme for construction workers. This would catalyze countrywide application of the Patented Technology (See letters Ref: *MLHUD/DH/HD/8/13/2/6* dated 15th September, 2015 and Ref: 7th October, 2015). The anticipated technology training and transfer will usher inclusivity in permanent and decent housing, for all.

Subsequently, Newbuild Ltd has recently created **Online Digital Building Supervision and Construction Management Platform**, for accelerated delivery of affordable housing (*Copyright Certificate herewith attached*).

This means that, an electronic vehicle to ferry Newbuild Construction Technology, to all deserving areas of national development would soon be available. This additional new idea to the already available **Invention** would be a **Game Changer** to the **national construction industry**. The platform through smart mobile phones and computers on internet would be futuristic solutions. I believe Kenya should be the first model country to forge the way forward within the region.

Earlier, in a survey conducted by WIPO, it was established that copyright industries in Kenya alone, contributed 6% to the GDP and employed 200,000 people. The contribution of copyright needs to go up for the country to claim 'Knowledge Economy Status.'

The **Digital Online** process would make instant acquisition of **Approved Building Plans**, in accordance to one's choice , engage competent trained builders, supervise and manage construction projects with the requisite supervisory Compliance Certificates. This will happen anywhere and anytime across all locations in our Great Country, and beyond. With a competent and well trained human capital, the country should expect unprecedented economic construction breakthrough, encompassing huge employment opportunities especially for the youth.

Sir, the **Technology Training and Transfer** is the next most important and urgent exercise, to enable Kenya harvest **enormous economic benefits** of Newbuild Ltd's **innovative efforts**.

Am humbled to inform you that, **Newbuild Ltd is also UN-Habitat day Best Practices Award Winner-2010**. We are looking forward to deploy new and innovative thinking for more futuristic solutions.

We humbly look forward for your most invaluable and practical contribution in support of these challenging demands. Kindly give us directions to make this vision to be exploited by the millions of the deserving Kenyans (*Please find attached additional relevant documentation*).

Thanking you in advance

Yours truly

For and on behalf of:-

NEWBUILD Ltd

(Inventor Patent Certificate No. AP 1765)

Signed

John Dumas Gachara

Chief Executive Officer

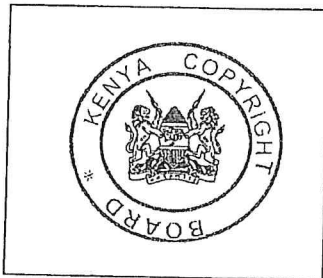
CC

1. The principal Secretary
State Department of Housing and,
Urban Development
p.o Box 30119-00100p
NAIROBI
2. The Ag. Director
Kenya National Innovations Agency
P.o Box 30568-00100
Utalii Hse. 9th Floor, Room 920
NAIROBI (Please give us the necessary financial support to complete the Digital Platform Process)

**CERTIFICATE OF
REGISTRATION OF A COPYRIGHT WORK**

*It is hereby certified that a Copyright Work in the Literary category entitled **DIGITAL BUILDING SUPERVISION AND CONSTRUCTION MANAGEMENT** and numbered **LT-014486** has been registered in the name of **NEWBUILD LTD** of **NAIROBI CITY** County.*

*Dated at Nairobi this **October 11, 2018.***



Seal of the Board

A handwritten signature in black ink, appearing to be "B. J. J.", is written above the title of the Executive Director.

Executive Director
The Kenya Copyright Board

Copyright Works



Kenya Copyright Board <kenyacopyright@gmail.com> 10:53 AM (5 hours ago)

to me

Dear NEWBUILD LTD,

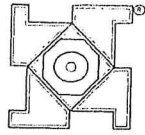
Your copyright work DIGITAL BUILDING SUPERVISION AND CONSTRUCTION MANAGEMENT has been successfully processed.
Please find attached, your copyright work certificate.

Kind Regards,

For any Information, Please Contact
Copyright Registration and Enforcement Department

ANNEX 7

**ANNEX 7 LETTER REF:NL/NCA/0.06C DATED 11TH JANUARY 2019
FROM NEWBUILD LIMITED, MR. JOHN DUMAS.**



NEWBUILD Ltd
Designbuild
(Construction Solutions)



HEAD OFFICE
TAITA / WARENG STREET
P.O. BOX 16454 TEL: 0726-720989
NAKURU.

BRANCH OFFICE
NAIVASHA ROAD
P. O. BOX 57302 - 00200
NAIROBI.
Email: dumasgash@yahoo.com

Our Ref: NL/NCA/0.06C

Your Ref: NCA 141/BDVOL 1(12)

Date: January 11, 2019

Executive Director/CEO ✓
The National Construction Authority
Upper Hill, KCB Plaza
P.O Box 201046-01100
NAIROBI



Ag M R R R D
pls advise

15/1/19

Dear Sir,

ROLLING OUT
NEWBUILD CONSTRUCTION TECHNOLOGY
(Invention Patent Certificate No. AP 1765)
Through
TRAINING, CAPACITY BUILDING and TECHNOLOGY TRANSFER
The Industrial Property Act-2001 Section 80 (1)
and

The Kenya Science, Technology and Innovation Act-2013

Reference is made to The Big Four Agenda, in which the Government is desirous to employ Innovative Construction techniques in provision of affordable and decent housing for Kenyans.

In the same direction, The Directorate of Housing gave instructions to the National Construction Authority through letter Ref: MLHUD/DH/HD/8/3/2/6 dated 15th September, 2015 and was acknowledged by your letter Ref: NCA 5/6/VOL1/26 dated 7th October, 2015 (copies herewith attached).

Accordingly, and in pursuance with the Government's policy aspirations, particularly articulated in the 'Kenya Affordable Housing Programme, Development Framework Guidelines'; Newbuild Ltd, has commenced Phase I of Training, Capacity Building and Technology Transfer-through PowerPoint Presentation (see attached Ref: NL/SDHUD/JAN 0.B.18 dated 09/01/2019, in response to your official invitation for Newbuild Ltd to present the Patented Technology). The Proposed Pilot Project in Nakuru County prioritizes the urgency of the process.

Therefore, in reference to your Constitutional mandate, we kindly request immediate support and facilitation, as promised in your above letter, to enable quick and decisive implementation of this Patented Technology, for the socio-economic transformational benefits to the deserving citizens of this Country.

Thanking you in advance

For and on behalf of:-

NEWBUILD Ltd

(Inventor Patent Certificate No. AP 1765)

Signed

John Dumas Gachara

Managing Director

CC 1. The Principal Secretary

State Department of Housing & Urban Development
NAIROBI

2. His Excellency The Governor

Thru' The County Secretary

Nakuru County Government

NAKURU.

ANNEX 8

ANNEX 8 BRIEF REPORT OF THE MEETING BETWEEN NEWBUILD LTD AND NCA HELD ON 15TH JANUARY 2019



BRIEF REPORT OF THE MEETING BETWEEN NEWBUILD LTD & NATIONAL CONSTRUCTION AUTHORITY HELD ON 15TH JANUARY 2019 AT THE GM, RT&CB'S OFFICE

Attendance

- | | |
|--------------------|------------------|
| 1. Faith Mumbe | NCA – Chair |
| 2. Proson Kipngeno | NCA |
| 3. John Gachara | New Building Ltd |

Agenda

- A. Presentation of Newbuild Construction Technology
- B. Way-forward

A. Presentation Newbuild Construction Technology by Mr. John Gachara

- The following were the highlights of the presentation:
 1. Newbuild Construction Technology is a patented construction technology;
 2. The invention was registered in 2002 at an 11-country member organization – African Regional Intellectual Property Organization;
 3. Newbuild Construction Technology uses quarry stones to replace concrete strips foundation and floor slab in a specialized patented methodology;
 4. The technology reduces construction cost by eliminating concrete, BRC, steel reinforcement, formwork and reduces water usage;
 5. The technology is green as it conserves environment because it eliminates use of timber products (for formwork), reduced water usage (no use of concrete);
 6. Simple and easy to understand;
 7. Offers employment to semi-skilled and non-skilled workers; and
 8. Can provide low cost quality housing.
- Further, Mr. Gachara informed NCA team of the following developments; that
 1. Newbuild Ltd has had a long-term collaboration with the then Ministry of Housing (State Department of Housing & Urban Development) and already some technical staff of the State Department have been trained on the technology;

2. In efforts to roll out the technology, Newbuild Ltd had identified 4 key other strategic partners namely:

- National Construction Authority (NCA)
 - National Industrial Training Authority (NITA)
 - Jomo Kenyatta University of Agriculture and Technology (JKUAT)
 - Technical and Vocational Education and Training (TVET)
 - Nakuru County Government
-
- NCA team informed Mr. Gachara that the Authority has provided a platform at Nairobi ASK show ground for innovators in the construction technologies to show case new technologies on the industry.
 - NCA further informed Mr. Gachara that already six (6) firms had constructed model housing at Nairobi Show ground.

B. Way-forward

The following was agreed as a way-forward;

- A. Newbuild Ltd to make a formal request to put up a model housing structure at Nairobi Show ground;
- B. Newbuild Ltd further consult other institutions like Kenya Bureau of Standards (KEBS) on applicable building standards;
- C. Newbuild Ltd to take advantage of opportunities provided by the Affordable Housing Agenda (under State Department of Housing & Urban Development).

Chairperson;

Faith Mumbe

Signature.....  Date 15/07/2014.....

MINUTES AND ADOPTION

MINUTES OF THE FORTY EIGHTH (48TH) SITTING OF THE DEPARTMENTAL COMMITTEE ON TRANSPORT, PUBLIC WORKS & HOUSING HELD ON TUESDAY, 18TH NOVEMBER 2020 AT 2.00 P.M. IN FIFTH FLOOR, CONTINENTAL HOUSE

MEMBERS PRESENT

1. Hon. David L. Pkosing, M.P. - Chairperson
2. Hon. Gathoni Wamuchomba, M.P. - Vice Chairperson
3. Hon. Ahmed Bashane Gaal, M.P.
4. Hon. Ali Wario Guyo, M.P.
5. Hon. Dominic Kipkoech Koskei, M.P.
6. Hon. Gideon Mutemi Mulyungi, M.P.
7. Hon. Rehema Dida Jaldesa, M.P.
8. Hon. Shadrack John Mose, M.P.
9. Hon. Tom Mboya Odege, M.P.

IN ATTENDANCE VIRTUALLY

10. Hon. Abdul Rahim Dawood, M.P.
11. Hon. Johnson Many Naicca, M.P.
12. Hon. Omar Mwinyi Shimbwa, M.P.
13. Hon. Samuel Arama, M.P.
14. Hon. George Aladwa Omwera, M.P.
15. Hon. Kulow Maalim Hassan, M.P.
16. Hon. Mercy Wanjiku Gakuya, M.P.

MEMBERS ABSENT WITH APOLOGY

17. Hon. David Njuguna Kiaraho, M.P.
18. Hon. Peris Pesi Tobiko, M.P.
19. Hon. Ahmed Abdisalan Ibrahim, M.P.

SECRETARIAT

1. Ms. Tungo Chelagat Aaron - Clerk Assistant I
2. Mr. Ahmed Salim Abdalla - Clerk Assistant II
3. Ms. Mercy K. Wanyonyi - Legal Counsel
4. Mr. Yeziel Jillo - Sergeant-at-arm
5. Mr. Brian Ng'etich - Audio Officer

IN ATTENDANCE

1. Hon. Eve Obara, MP - Member for Kapondo Kasipul
2. Hon. David ole Sankok, MP - Nominated Member of the National Assembly
3. Mr. Solomon Kitungu - Principal Secretary, State Dept. for Transport
4. M.Gen.(Rtd) Dr. G. Kihalangwa - Principal Secretary, Public Works
5. Mr. Maurice Aketch - Executive Director, NCA
6. Mr. Ibrahim Hussein - Secretary Administration, SDHUD
7. Mr. Moses Gatana - D/Director, Housing, SDHUD
8. Ms. Mary W. Kamau - Principal Housing Officer, SDHUD
9. Ms. Cindy Ogola - Legal Officer, NCA
10. Ms. Angela Joyce - Legal Intern, NCA
11. Mr. John Dumas Gachara - Petitioner, Low Cost Technology Petition
12. Mr. John Nditu - Nakuru Resident

MIN No. TPWH 267/2020: **PRELIMINARIES**

The meeting was called to order at twenty minutes past two o'clock followed by a word of prayer. The Chairman informed the Honorable Members that the Committee was meeting the relevant Departments in the Ministry to consider two petitions and one legislative proposal.

The agenda of the meeting was therefore adopted after being proposed by Hon. Gideon Mulyungi, MP and seconded by the Hon. Ahmed Bashane, MP.

MIN No. TPWH 268/2020: **CONFIRMATION OF THE MINUTES OF THE PREVIOUS SITTING**

Confirmation of minutes of the previous sittings was deferred to a later date.

MIN NO. TPWH 269/2020: **PRE-PUBLICATION SCRUTINY OF THE PROPOSED ENGINEERING TECHNOLOGY (AMENDMENT) BILL, 2020 BY HON. EVE OBARA, MP**

The Committee noted that in attendance was Hon. Eve Obara, MP, who was also the sponsor of the proposed Engineering Technology (Amendment) Bill, 2020 (legislative proposal). In her submission, she explained that her proposal in Clause 2 was meant to expand the definition of engineers to include engineering technologists as the current Engineering Technology Act of 2016 limits the membership of the society to a fewer cadre. For instance, she explained that people who are doing crafts, certificates and diploma in different fields should be allowed to join the engineering board.

Members of the Committee concurred that it was important to have all cadres regulated by the Board, but equally important was to first determine on who really qualifies to be an engineer.

Way Forward

The Committee and the Hon. Eve Obara resolved that another meeting be scheduled after two weeks to enable the Hon. Member more time to consult on her proposal before appearing before the Committee again.

MIN NO. TPWH 270/2020: **CONSIDERATION OF THE PETITION REGARDING THE APPROVAL, APPLICATION AND USE OF NEWBUILD'S LOW COST CONSTRUCTION TECHNOLOGY**

The Committee noted that the petition by Mr. John Dumas Gachara as conveyed by Hon. Samuel Arama on 12th August 2020 was a replica of a petition conveyed through Hon. David Ouma Ochieng, MP on 1st October 2019 and which the Committee already considered and made its report. The Committee further noted that during the consideration of the first petition, the petitioner did not appear before the Committee despite being invited twice. In his defense, however, the petitioner explained that he received the invite late.

In his oral submissions before the Committee, the petitioner explained that the patent for his product (newbuild technology) was about to expire in a year. He explained that-

1. The technology was very good and prayed that Parliament legislates on his technology instead of leaving it hanging. He stated that since the year 2003, the technology has not been taken up by the government.
2. The technology has been uploaded on the Ministry's website but the government has not paid compensation according to the law.

3. The technology should be incorporated in the building code for it to be used. It was important to legalize the instruments of training by legislating the certificates issued.

In their submission, the State Department for Housing explained that technology is market driven. They explained that the Ministry assists innovators and Kenyans to showcase their innovations but they cannot force Kenyans or anyone to use a certain technology. The Department further explained that the new building code already embraces emerging technologies.

The Principal Secretary for Public Works explained that the reason the Ministry uploaded the technology on its website was for Kenyans to see it and embrace it because the Ministry's appreciates all the efforts of innovators. It was a way of supporting the petitioner by giving him the platform to showcase his technology. The Ministry explained that it will not be reasonable for the government to be forced to buy any particular technology, even as it tries to give platform to emerging technologies.

Way Forward

The Committee noted that the petitioner's oral submissions were not expressive of the prayers as submitted in writing through the petition. The Committee further noted that, whereas they appreciated the petitioner's efforts as an innovator, it was not possible for Parliament to force the Ministry to buy a particular technology and neither was it possible for Parliament to legislate on a private commercial venture like the newbuild technology. The Committee Chairperson thanked the petitioner for his time and efforts and explained that the Committee will later retreat to prepare its report.

MIN NO. TPWH 271/2020:

CONSIDERATION OF THE PETITION REGARDING ECONOMIC VIABILITY OF PHASE 2B OF THE STANDARD GAUGE RAILWAY (SGR) BY THE NOMINATED MEMBER (HON. DAVID OLE SANKOK, MP?)

The Petitioner, Hon. David ole Sankok, explained that the construction of the multibillion 52km Phase 2B SGR line from the Suswa dry port had stalled at Emurutoto Shopping Center, a very remote area with no roads and essential social amenities. He explained that the phase 2B SGR project could be more viable if the 12km stretch to Narok Town was completed to give it an economic catchment area of the Greater Lake Region.

The Principal Secretary for Transport explained that the project ended abruptly because of lack of funds but that the Ministry was looking for a way out.

The Petitioner was however not convinced, explaining that the same Ministry constructed another 30km stretch from the dry port to Longonot even when it ironically maintained it had no funds for the 12km from Emurutoto to Narok.

Way Forward

The Committee asked the Principal Secretary to bring a report in two weeks on the following:

1. Estimate cost of building the remaining 12km stretch from Emurutoto to Narok Town.
2. To submit a report on the scope of the phase 2B SGR project contract.
3. Possibility of using the RDLF to fund the 12km stretch.


The Committee will retreat to prepare its report after the said report is received from the Ministry, which was estimated to be after the December 2020 House recess.

MIN No. TPWH 272/2020: ANY OTHER BUSINESS

Committee to retreat with the Ministry to consider the draft Slum Upgrading and Prevention Bill 2020 on 25th and 26th November 2020. Thereafter, the Committee to proceed for report from 27th to 29th November 2020. Retreat venue is Mombasa County.

MIN No. TPWH 273/2020: ADJOURNMENT

There being no other business, the sitting was adjourned at twenty-five minutes past five o'clock. The next meeting to be held on 25th November 2020 in Mombasa where the Ministry will make a presentation to the Committee on the proposed Slum Upgrading and Prevention Bill.

Signed..... .....
(Chairperson)

Date..... 25 / 2 / 21.....

MINUTES OF THE TWENTY NINTH (29TH) SITTING OF THE DEPARTMENTAL COMMITTEE ON TRANSPORT, PUBLIC WORKS & HOUSING HELD ON WEDNESDAY, 23RD JUNE 2021 AT 10.00 A.M. AT 2ND FLOOR, CONTINENTAL HOUSE

MEMBERS PRESENT

1. Hon. David L. Pkosing, M.P. - Chairperson
2. Hon. Abdul Rahim Dawood, M.P. - *virtually*
3. Hon. David Njuguna Kiaraho, M.P. - *virtually*
4. Hon. Johnson Many Naicca, M.P. - *virtually*
5. Hon. Omar Mwinyi Shimbwa, M.P. - *virtually*
6. Hon. Samuel Arama, M.P. - *virtually*
7. Hon. Ali Wario Guyo, M.P. - *virtually*
8. Hon. Dominic Koskei, M.P. - *virtually*
9. Hon. Gideon Mulyungi, M.P. - *virtually*
10. Hon. Kulow Maalim Hassan, M.P. - *virtually*
11. Hon. Shadrack John Mose, M.P. - *virtually*
12. Hon. Tom Mboya Odege, M.P. - *virtually*

MEMBERS ABSENT WITH APOLOGY

13. Hon. Gathoni Wamuchomba, M.P. - Vice Chairperson
14. Hon. Peris Pesi Tobiko, M.P.
15. Hon. Ahmed Abdisalan Ibrahim, M.P.
16. Hon. Ahmed Bashane Gaal, M.P.
17. Hon. George Aldwa Omwera, M.P.
18. Hon. Janet Nangabo, M.P.
19. Hon. Mercy Wanjiku Gakuya, M.P.

SECRETARIAT

- | | | |
|----------------------------|---|-------------------------------------|
| 1. Mr. Ahmed Salim Abdalla | - | Clerk Assistant II |
| 2. Mr. Ronald Walala | - | Legal Counsel - <i>virtually</i> |
| 3. Ms. Winnie Kulei | - | Research Officer – <i>virtually</i> |
| 4. Mr. Yeziel Jillo | - | Sergeant-at-arm |
| 5. Ms. Christine Maeri | - | Audio Officer |

MIN No. TPWH 152/2021: PRELIMINARIES

The Chairman called the meeting to order at ten minutes past ten o'clock followed by a word of prayer. The Chairman informed the Honorable Members that the Committee was meeting to consider the following petitions:

1. Adoption of the Report on the Petition regarding the Approval, Application and Use of Newbuild's Low-Cost Construction Technology by one Mr. John Dumas Gachara and as conveyed by Hon. Samuel Arama on 12th August 2020; and
2. Petition Regarding Economic Viability of Phase 2B of the Standard Gauge Railway (SGR) by the Hon. David Ole Sankok, Nominated Member of Parliament.

The agenda of the meeting was therefore adopted after being proposed by the Hon. Omar Mwinyi, MP and seconded by the Hon. Dominic Koskei, MP.

MIN No. TPWH 153/2021:

CONFIRMATION OF THE MINUTES OF THE PREVIOUS SITTINGS

1. Minutes of the 27th sitting which was held on 24th May 2021 were confirmed as a true record of the proceedings, after having been proposed by the Hon. Abdul Rahim Dawood, MP, and seconded by the Hon. Dominic Koskei, MP.
2. Minutes of the 28th sitting which was held on 16th June 2021 were confirmed as a true record of the proceedings, after having been proposed by the Hon. Johnson Naicca, MP, and seconded by the Hon. Kulow Hassan, MP.

MIN NO. TPWH 154/2021:

CONSIDERATION AND ADOPTION OF THE REPORT ON THE PETITION REGARDING THE APPROVAL, APPLICATION AND USE OF NEWBUILD'S LOW-COST CONSTRUCTION TECHNOLOGY

The Committee noted that in its sitting held on 18th November 2020, the Committee received oral submissions from the petitioner and the Ministry. The Committee observed that:

- i. The Newbuild Construction Technology was well known to the Ministry and that the Ministry was in support of the petitioner's work, and ever willing to give the petitioner a forum to showcase his innovation;
- ii. The issues raised in the petition were all addressed by the Ministry as submitted during the Committee sitting held on 18th November 2020;
- iii. The Ministry had shown remarkable commitment to embracing new technology and to give platform to innovators to showcase their products and to support them in every way possible;
- iv. The petitioner had been given numerous opportunities by the National Construction Authority to showcase his innovation. The Ministry uploaded the petitioner's proposal on its website as a way of supporting innovation within the country; and
- v. Neither the Committee nor the Ministry had powers to force consumers to use the said technology.

The Committee therefore made the following recommendation:

That the petitioner showcases his product in the market and find innovative ways of attracting possible consumers. The Ministry to take all the necessary steps to support the growth of new and affordable technologies in the country including the Newbuild Low-Cost Housing Technology in line with the relevant laws and regulations.

Adoption of the Report

The report was unanimously adopted with the aforementioned observations and recommendation. Adoption proposed by the Hon. Tom Odege, MP and seconded by the Hon. Shadrack Mose, MP.

MIN NO. TPWH 155/2021:

CONSIDERATION OF THE PETITION REGARDING ECONOMIC VIABILITY OF PHASE 2B OF THE STANDARD GAUGE RAILWAY (SGR) BY THE NOMINATED MEMBER (HON. DAVID OLE SANKOK, MP)

The Committee noted that in its sitting held on 18th November 2020, the Committee met with both the petitioner and the Ministry. The Committee then directed the Ministry through the

Principal Secretary for Transport to provide a report in two weeks' time with the following information:

1. Estimate cost of building the remaining 12km stretch from Emurutoto to Narok Town.
2. To submit a report on the scope of the phase 2B SGR project contract.
3. Possibility of using the RDLF to fund the 12km stretch.

The Committee observed that to date, the Ministry has not provided the requested information. The Committee however noted that vide the Executive Order Number 5 of 2020 on Framework for Management, Coordination and Integration of Public Port, Rail and Pipeline Services, the railway services were now under the oversight of the National Treasury.

Way Forward

Committee resolved to invite the National Treasury to a virtual meeting on Tuesday, 29th June 2021 at 10.00 am to receive their views and responses to the issues raised in the petition before tabling its report to the House.

MIN NO. TPWH 156/2021: ANY OTHER BUSINESS

The Chairperson informed the Committee that vide a petition number E224 of 2021 at the High Court of Kenya at Nairobi, a member of the public had challenged the constitutional validity of the Kenya Roads (Amendment) Bill, 2021. The Committee was however informed that the Office of the Clerk was, in consultation with the Directorate of Legal Services and the Directorate of Litigation and Compliance, handling the matter. Any developments on the same will be communicated in due course.

MIN No. TPWH 157/2021: ADJOURNMENT

There being no other business, the sitting was adjourned at forty minutes past ten o'clock. Next meeting to be held on Tuesday, 29th June 2021.

Signed.....

(Chairperson)

Date.....29/6/2021.....

Adoption of the Report on the Consideration of the Petition Regarding the Approval, Application and Use of Newbuild's Low-Cost Construction Technology

We, the Members of the Departmental Committee on Transport, Public Works and Housing, have today, the 23rd day of June 2021, and pursuant to Standing Order 199, adopted this Report and affirm our approval and confirm its accuracy, validity and authenticity:

1. Hon. David Pkosing, CBS – Chairperson ~~DAVID~~ Pkosing
2. Hon. Gathoni Wamuchomba, HSC – Vice Chairperson
3. Hon. Abdul Rahim Dawood VIRTUALLY
4. Hon. David Njuguna Kiaraho VIRTUALLY
5. Hon. Johnson Many Naicca VIRTUALLY
6. Hon. Omar Mwinyi Shimbwa VIRTUALLY
7. Hon. Peris Pesi Tobiko, CBS
8. Hon. Samuel Arama
9. Hon. Ahmed Abdisalan Ibrahim
10. Hon. Ahmed Bashane Gaal
11. Hon. Ali Wario Guyo VIRTUALLY
12. Hon. Dominic Kipkoech Koskei VIRTUALLY
13. Hon. George Aladwa Omwera
14. Hon. Gideon Mutemi Mulyungi VIRTUALLY
15. Hon. Kulow Maalim Hassan VIRTUALLY
16. Hon. Mercy Wanjiku Gakuya
17. Hon. Janet Wanyama Nangabo
18. Hon. Shadrack John Mose VIRTUALLY
19. Hon. Tom Mboya Odege VIRTUALLY

