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6/12/18

REPUBLIC OF KENYA



THE NATIONAL ASSEMBLY

PARLIAMENT
OF KENYA
LIBRARY

TWELFTH PARLIAMENT – SECOND SESSION – 2018

DEPARTMENTAL COMMITTEE ON TRANSPORT, PUBLIC WORKS AND HOUSING

DELEGATION REPORT

ON

SAIE CONFERENCE AND EXHIBITION

HELD IN BOLOGNA, ITALY

15TH TO 20TH OCTOBER 2018

DIRECTORATE OF COMMITTEE SERVICES
CLERK'S CHAMBERS
PARLIAMENT BUILDINGS
NAIROBI


THE NATIONAL ASSEMBLY
PAPERS LAID

DATE: 06 DEC 2018

DAY:

THUR

DECEMBER 2018

TABLED

BY:

Chair,
Hon David Prosser

CLERK-AT
THE-TABLE:

Mr. Lemura



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1. FOREWORD

SAIE is an internationally renowned trade fair for the construction industry which is held biennially targeting a wide audience including professionals, engineers, construction experts, policy makers and the general public since the sector consumers cut across board. This year's conference and exhibition was held in Bologna, Italy from 17th to 20th October 2018 where Members of the Departmental Committee on Transport, Public Works and Housing had the opportunity to attend.

On behalf of the Departmental Committee on Transport, Public Works & Housing, we wish to express our gratitude to the National Construction Authority (NCA) for extending the invitation to the Committee, and the Consular, Embassy of Italy in Nairobi for all the support extended to both the NCA and the Committee in the course of facilitating the travel arrangements. We equally register the Committee's appreciation to the office of the Clerk of the National Assembly for his unqualified support to the Committee.

SIGNED

HON. DAVID PKOSING, CBS, M.P

CHAIRPERSON,

DEPARTMENTAL COMMITTEE ON TRANSPORT, PUBLIC WORKS & HOUSING

1.1 PREFACE

1.2 Establishment of the Committee

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*);
- 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.

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.

In executing this mandate, the Committee oversees various State Departments, namely:

- i. The State Department of Transport;
- ii. The State Department of Infrastructure;
- iii. The State Department of Housing and Urban Development;
- iv. The State Department of Public Works; and
- v. The State Department of Shipping and Maritime Affairs.

1.3 Committee Membership

The Departmental Committee on Transport, Public Works and Housing was constituted by the House in December, 2017 and comprises of the following Members: -

1. Hon. David Pkosing, M.P. **Chairperson**
2. Hon. Moses Kuria, M.P. **Vice Chairperson**
3. Hon. Johnson Many Naicca, M.P.
4. Hon. David Njuguna Kiaraho, M.P.
5. Hon. Peris Pesi Tobiko, M.P.
6. Hon. Savula Ayub Angatia, M.P.
7. Hon. Samuel Arama, M.P.
8. Hon. Suleiman Dori Ramadhani, M.P.
9. Hon. Rigathi Gachagua, M.P.
10. Hon. Ahmed Bashane Gaal, M.P.

11. Hon. Ahmed Abdisalan Ibrahim, M.P.
12. Hon. Dominic Kipkoech Koskei, M.P.
13. Hon. Gideon Mutemi Mulyungi, M.P.
14. Hon. Kulow Maalim Hassan, M.P.
15. Hon. Mugambi Murwithania Rindikiri, M.P.
16. Hon. Rehema Dida Jaldesa, M.P.
17. Hon. Shadrack John Mose, M.P.
18. Hon. Tom Mboya Odege, M.P.
19. Hon. Vincent Kemosi Mogaka, M.P.

1.4 Committee Secretariat:

- | | | |
|----|--------------------------|-----------------------|
| 1. | Ms. Chelagat Tungo Aaron | First Clerk Assistant |
| 2. | Mr. Ahmed Salim Abdalla | Third Clerk Assistant |
| 3. | Ms. Mercy Wanyonyi | Legal Counsel |
| 4. | Mr. James Muguna | Research Officer |
| 5. | Mr. Abdinasir Moge Yusuf | Fiscal Analyst |
| 7. | Mr. Eugene Luteshi | Audio Officer |

THE DELEGATION

A delegation from the Departmental Committee on Transport, Public Works and Housing accompanied by officials from the National Construction Authority attended the 2018 SAIE Conference and Exhibition which was held at the Bologna Exhibition Centre in Bologna, Italy from 17th to 20th October 2018.

The National Assembly Delegation comprised of the following:

1. Hon. Peris Pesi Tobiko - Leader of the Delegation
2. Hon. Ayub Savula Angatia - Member of the Delegation
3. Hon. Dominic Kipkoech Koskei - Member of the Delegation
4. Hon. Mugambi Murwithania - Member of the Delegation

5. Mr. Ahmed Salim Abdalla - Secretary of the Delegation

The National Construction Authority Delegation included the following:

1. Ms. Christine K. Kirimi - Manager Finance (Team Leader)
2. Mr. Paul G. Kariuki - Manager Human Resource
3. Mr. Stephen M. Munyao - Manager Regions
4. Mr. Magdalene W. Makara - Officer Research and Business Development
5. Mr. Muchiri Julius - Regional Coordinator NCA

2. INTRODUCTION

The International Building & Construction Exhibition (SAIE) is a forum where participants can learn, discover and gain knowledge on the entire construction package in a holistic, comprehensive manner, and also at a level unbundled so seamlessly for easy human consumption and appreciation. One of the most important features of SAIE is its focus on renewable energy sources and low-energy and technologies for sustainable building; a matter of great interest and relevance to Kenya as a developing and progressive nation. SAIE has a highly focused approach with an excellent agenda comprising of conferences, workshops, exhibits, practical demos and more.

SAIE offers immense scope for planning various projects in the field of road construction, house building and the construction of office premises along with the launching of new products and services. The forum has also been a connecting point for different entities that deals with matters ranging from electric energy production, agencies for the development of building industrialization, data bases, computer systems to measuring and diagnostics equipment and instruments, office equipment and building automation, among others.

SAIE also presents a wide range of product offerings like building materials and products including special steels and alloys, prepackaged concrete, chemicals for the building industry and finishing materials and components like vent stacks, covering equipment, holding and expansion joints among so many more.

3. THE SAIE CONFERENCE AND EXHIBITION, 2018

The 2018 SAIE Conference and Exhibition was held at the Bologna Exhibition Centre in Bologna, Italy from 17th to 20th October 2018. The SAIE 2018 construction conference was designed to equip the delegates on new and emerging trends including systems, construction materials, machinery, equipment and applications in the following subsectors in the construction industry:

- i. Research on construction material and methodologies;
- ii. New and emerging technologies on affordable housing;
- iii. New and emerging technologies in regard to Non-destructive testing of concrete structures;
- iv. New and emerging technologies in regard to construction materials;
- v. New and emerging Technologies in regard to Construction Equipment; and
- vi. New approaches and applications in design of engineering structures.

Members of the delegation were exposed to the above information through various lecturers, exhibitions and other demonstrations distributed within the expansive Bologna Conference facility. The 2018 Conference focused on ‘Technologies towards Building and Built Environment 4.0’. It was an occasion for networking and personal growth, to discover the excellence of the entire building supply chain, through specific paths dedicated to “Strategic Markets” and key themes on *innovation, seismic safety, sustainability and digital transformation*.

The Conference also exposed the delegates to the following:

- i. A preview of what is new in the construction industry;
- ii. An update on multiple training sessions offered in regard to construction matters;
- iii. A preview on new market trends; and
- iv. An exposure to new contacts and resource connections in matters construction.

Members of the delegation also learnt about the concept of Non-destructive Testing (NDT). NDT is used to inspect raw materials before they are processed, during the production process and the finished product. It is also used in inspecting the structural integrity of the manufactured product such as aircrafts, ships, rails, buildings etc. In addition the method is used in estimating the remaining life of components and products. These methods do not destroy the product or the component being tested. It is therefore important in support of sustainable economic development and an essential activity in support of the Kenya Vision 2030 and the government's Big Four agenda especially with respect to enhancing manufacturing and on affordable housing. The success in achieving the governments development agenda will, by a great extend be measured by the quality of these structures.

Non-Destructive Testing is the process of inspecting, testing, or evaluating materials, components or assemblies for discontinuities, differences in engineering characteristics or properties without destroying the serviceability of the part or system. When the inspection or test is completed, the part, component, member or structure can still be utilized for its intended purpose. Non-Destructive Testing of Concrete is a method of testing existing concrete and steel structures to assess their strength, durability and other structural characteristics without inflicting any damage to the structural elements. The tests are carried out without loading the specimen to failure (i.e. without any damage to the concrete). The Committee noted that the use of NDT is particularly relevant to the NCA's operations, especially with respect to quality assurance. It is important and indeed necessary to verify whether concrete structures have achieved their design objectives after the concrete has hardened and at the same time, any test conducted on hardened concrete should result in minimal or no damage to the structure. It is important to examine hardened concrete structure for their suitability for its intended use and this is why Non-Destructive Test methods are used and so relevant in the construction industry. Members of the Committee noted that the Non-Destructive Tests and techniques were

increasingly being adopted on concrete structures for quality assurance in many progressive nations, and Kenya should certainly not be left behind.

4. OBSERVATIONS

The Committee made the following observations:-

1. The SAIE conference and exhibition proved that tapping and branding of expertise require a much more concerted efforts, and a combination of ideas from both the government and private stakeholders.
2. The building sector in the country has a huge untapped potential and that there was so much to learn from global partners and other players. Technology exchange is an issue that the government needs to prioritize especially at a time when the Big Four Agenda is gaining prominence in the country's development agenda.
3. Development pace should be matched with high standards of products in terms of safety and quality. Whereas it is important to accelerate infrastructural development at a reasonable cost, it is absolutely necessary to ensure that the standards, methods and quality of both materials and the final structures are of the highest safety and quality standards. And this is why the Non-Destructive Tests methods are so relevant in the construction and building industry.

5. RECOMMENDATIONS

The Committee made the following recommendations:

1. THAT the National Construction Authority takes a leading role in showcasing the country's potential in building technology by, among others, mobilizing and organizing international exhibitions in the country to attract variety of

stakeholders, experts and researchers, from both private and public sector and from academia as well; and

2. THAT the National Construction Authority to partner with other relevant government agencies to facilitate and enforce the concept of Non-destructive Testing (NDT) and to advocate for utilization of NDT methods in quality assurance exercises within the construction industry.



SIGNED

HON. DAVID PKOSING, CBS, M.P

CHAIRPERSON,

DEPARTMENTAL COMMITTEE ON TRANSPORT, PUBLIC WORKS & HOUSING

