



# NBRRI

## NEWSLETTER

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### NBRRI HOSTS 16TH RESEARCH INSTITUTES (RIGAN) GAMES



### FAMILY HOMES FUNDS IN PARTNERSHIP WITH NBRRI



### NBRRI BOKKOS CENTRE HOST N-POWER TRAINING



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### **NBRRI** **(VISION, MISSION & CORE VALUES)** **BUILDING CAPACITY & SETTING THE** **PACE IN INDIGENOUS CONSTRUCTION** **TECHNOLOGY DEVELOPMENT**

#### VISION

To evolve and use a comprehensive and integrated approach in capacity building and investment promotion so as to foster the application of environment-friendly and energy-efficient innovation, construction materials, manufacturing technologies and cost-effective building and road construction practices.

Which will enhance job-creation, wealth generation and poverty reduction as well as nurture the emergence of vibrant, knowledge-based and highly competitive indigenous construction companies capable of meeting global standards

#### MISSION

Integrated R & B, Capacity building and robust extension services in which technology innovation and knowledge-based practices in the fields of building road and engineering materials will be used to provide adequate and affordable housing and road infrastructure as well as increased economic Empowerment.

#### CORE VALUE

- Professionalism • Resourcefulness
- Commitment and Integrity
- Innovativeness

# EDITORIAL

I welcome you all to the Fourth quarter of the 2019 NBRRI newsletter. We have stories that will confirm to you that NBRRI has accomplished a lot in the months under review.

You will all agree with me that the journey so far wasn't an easy one. 2019 has proven to be one of its kind; despite all the challenges and disappointments, we are still able to make progress.

In this edition, NBRRI successfully hosted the Research Institute Games Festival at its National Laboratory Complex (NLC), in Ota, Ogun State. Several Research Institute across Nigeria gathered in Ota to compete and show the spirit of Sportmanship. All the highlights, Speeches and Photos of the Games are captured in this edition. Please read and enjoy.

Also, the Institute signed a very important MoU with Family Homes in its desired to provide Housing for all Nigerians. Details of the agreement are also featured in this Publication.

The Acting DG/CEO Prof. Samson Duna also received in audience members of the Anti-Corruption and Transparency Unit of the Institute and what was said in the visit is revealed in this edition.

There are also Pictures and Stories from various Trainings that was conducted by NBRRI specifically in Awka (Anambra State) and the N-Power training at the NBRRI Center in Bokkos, Plateau State. This is in addition to the Commissioning of Some Projects of the Institute in Plateau State

Stories on a workshop and much more are included to keep you informed, entertained and educated.

The wait is over, enjoy your reading.

**Mr. Daniel Makava**  
Editor-in-Chief.



## NBRRI COMMISSIONS POLICE & SCHOOL PROJECTS IN BOKKOS

The Nigerian Building and Road Research Institute has continued to showcase that its technological innovation can be utilized by other government arm to enhance their workings. The latest of such exhibition is in Bokkos Local Government Area of Plateau State where the Police Division in that locality as well as Two Primary Schools benefitted from NBRRI interventions.

The Police Division had their Station fenced as the foundation of a six man residential quarters in Bokkos and a Police Outpost in Bot (a community in Bokkos) was laid. For the Schools (LEA Primary Schools in Bokkos Central and Bot), a block of Two classrooms with furniture, a Bore hole and a Toilet was commissioned.

Speaking at the multiple ceremonies which took place on 25th October, 2019 in Bokkos, the Acting Director General/CEO of NBRRI, Professor Samson Duna said the projects would not have been possible without the selfless service rendered to the good people of

Bokkos and Plateau by the immediate past DG of NBRRI Prof Danladi Matawal.. Outlining the good works done by Prof. Matawal, the Acting DG/CEO stated that Prof. Matawal has aided employment of Bokkos youths, the construction of Pozzolana plant, two skills centres, access roads and school projects in the area.

The Acting DG/CEO further stressed that the commissioning of these blocks of classrooms and a police post has great significance adding that what Nigeria needs today is education and security. As they are forces that can drive our economy to greater height.

The Acting DG/CEO called on the good people of Bokkos, the Nigerian Police and all concerned Nigerians to see these projects as their personal properties and urged the beneficiaries to make good use of the facilities. He promised that NBRRI will continue to intervene in viable projects that will have direct bearing on the lives of the people if the funds are available.

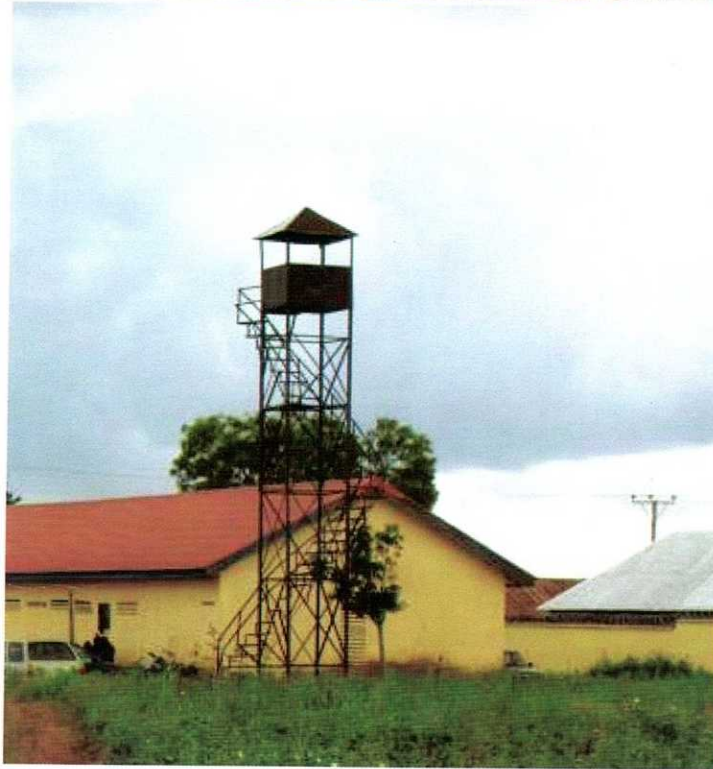
In his remarks, the former DG of NBRRI, Prof. Matawal said bringing the project to his locality is his little way of contributing to the development of the area. He added that he will continue to use his contact to attract projects to the area.

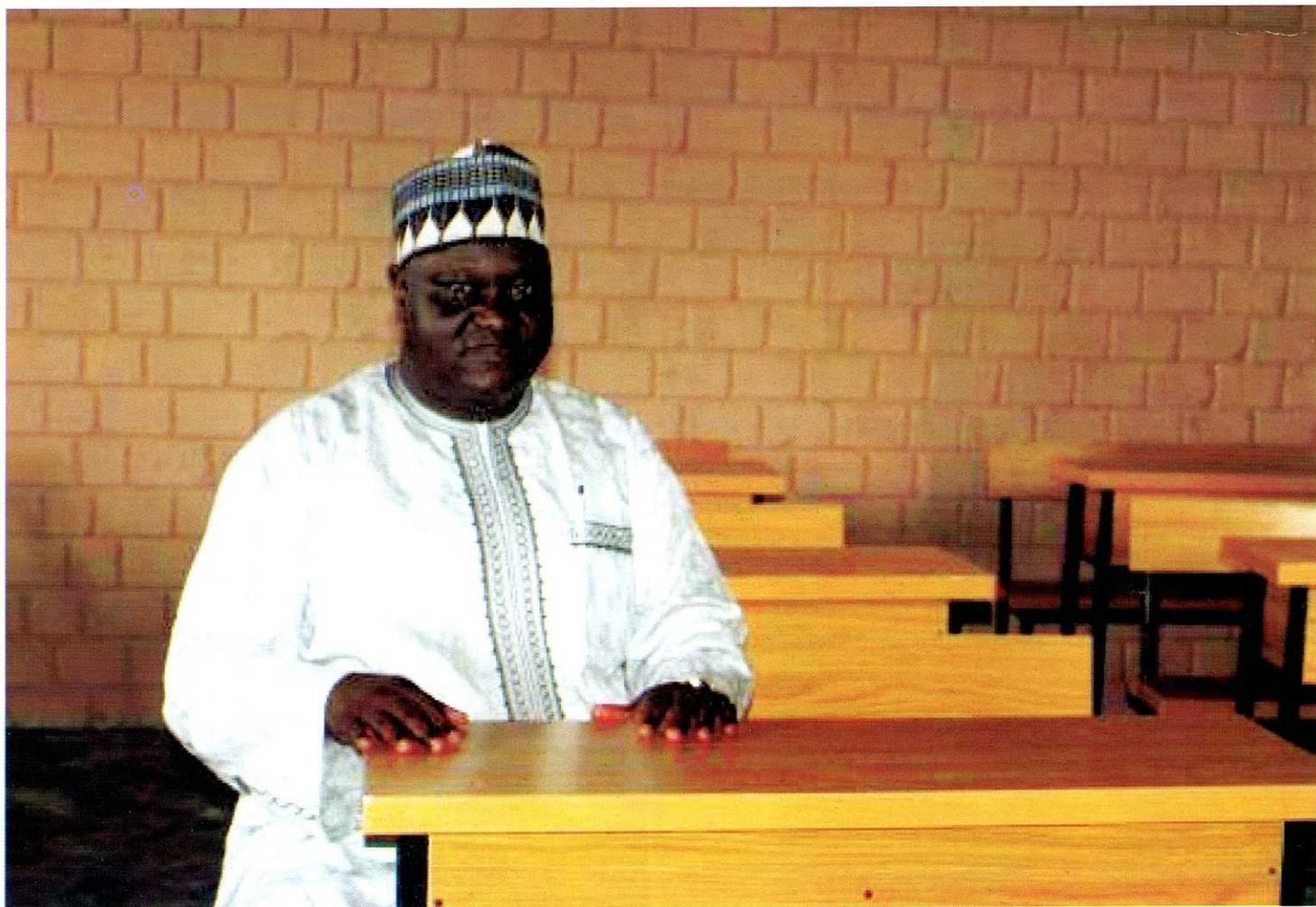
The Plateau State Commissioner of Police who was ably represented by A. S Tafida, Deputy Commissioner of Police, Operations appreciated the hand of fellowship rendered to the force by these kind gestures. He promised to work within his capacity to make the Bokkos community and Plateau State crime free.

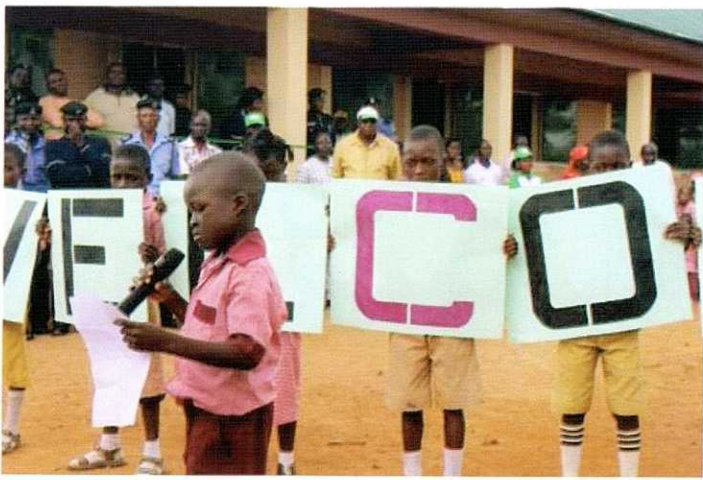
Other notable personalities who graced the occasion are; Prof Yohanna Izam (VC, Plateau State University, Bokkos).Mr. Ishak Yunusa (Ass. Commissioner of Police, Operations), Mr. Thomas Shehu (D.P.O Bokkos), Mr. Haggai Milkes (Secretary Bokkos LGA), Mr. Mapis Angwen (Supervising Councilor on Education, Bokkos LGA).

HIGH POINT OF THE EVENTS WERE THE COMMISSIONING AS WELL AS THE FOUNDATION LAYING BY THE DIGNITARIES.









**FAMILY HOMES FUNDS IN PARTNERSHIP WITH NBRRI TO DELIVER AFFORDABLE HOUSING**



Nigerian Federal Government social housing scheme, Family Homes Funds wants a working relationship with the Nigerian Building and Road Research Institute NBRRI in order to deliver affordable Housing to all Nigerians.

The MD/CEO of Family Homes Funds, Femi Adewole stated this when he led a team on a courtesy visit to the Institute's headquarters in Abuja to identify areas of cooperation that will help achieve the delivery affordable housing to millions of Nigerians in need of it.

The delegation were received by the NBRRI team led by Professor Samson Duna, (Acting Director General/CEO) and all Heads of various departments of NBRRI.

The courtesy call according to Femi Adewole, is to explore opportunities of working together. "We are in an age of information and knowledge for delivering change. And for the Family Homes Funds, we are absolutely clear that if we are going to deliver change in the way

that housing is delivered in Nigeria, knowledge has to be a critical part of that, and I think the nation's leading building research institute therefore becomes a key partner and I think we agreed today that we will work together," he said.

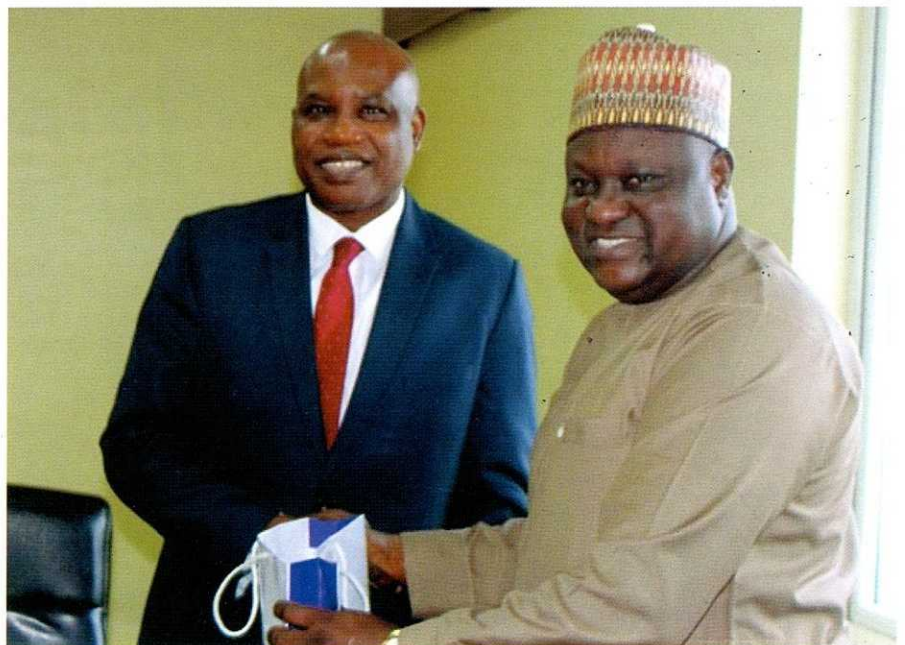
The outcome of the courtesy meeting was the setting up of a bilateral team that will explore concrete areas for collaboration with concrete results. The committee, according to Adewole, will report back in a month, after which they would

reach an official partnership agreement with NBRRI.

"I am really hopeful that this will deliver some significant step change in how we deliver housing in Nigeria," he added.

Speaking on behalf of NBRRI, Prof Samson Duna, said they were delighted about the visit from Family Homes Funds.

"They came with a good intention, and a good framework of trying to bring houses to the doorsteps of those that cannot afford. They came with good ideas, and the ideas will lead into collaboration; where they need



our assistance we come in to provide that; where we need theirs, they too will come in to provide that. So it is a win-win situation for all. But the most important thing is to ensure that we work together to have a cost friendly and affordable housing system in Nigeria,” he said.

The Nigerian Building and Road Research Institute (NBRRI) is responsible for researching and developing road and building materials for the Nigerian Construction Industry. The institute is under the Federal Ministry of Science and Technology of Nigeria. What they do, according to Duna,

is to identify a problem in that sector and provide solutions from research point of view. Family Homes Funds is in trust of up to N500 billion to deliver 500, 000 affordable houses by 2023. As at today, over 10, 000 and many more houses are in the works in several parts of the country courtesy of the Fund.





## **NBRRI HOSTS 16TH RESEARCH INSTITUTES (RIGAN) GAMES TAGGED: "OTA 2019"**

The Dream finally came through as the Nigerian Building and Road Research Institute (NBRRI) hosted the 16th Edition of the Research Institute Games Association of Nigeria (RIGAN) Games festival at the National Laboratory Complex (NLC) Ota the 13th to 21st December, 2019.

RIGAN comprises of thirty-five (35) Research and Development Institutes under the aegis of the Federal Ministries of Science and Technology, Health, Agriculture, Environment, Education and Transport.

The first ever Research institute Sports Festival was held back in 1982 with the National Root Crops Research Institute (NRCRI), Umidike, Umuahia, Abia State playing host. The sports festival which is a bi-annual event was last held in 2015 which was its 15th edition and was hosted by NITT

(Nigeria Institute for Transport Technology), Zaira.

This year's edition had in attendance twenty-five (25) Research and Development Institutes taking part and competing in the sixteen (16) events lined up as confirmed by the RIGAN president Prof. Rabiun Adamu.

"OTA 2019" commenced with a colourful opening ceremony on Monday December 16th at the sports centre of the Nigeria Building and Road Research Institute Laboratory & Production Complex, Ota, Ogun State.

In attendance was the Hon. Minister of Federal Ministry of Science and Technology, who was represented by the DG/CEO Nigeria Natural Medicine Development Agency Prof. Samuel Oghenne Etatuvi. The immediate past DG/CEO NBRRI Prof. Danladi Matawal, the Acting DG/CEO NBRRI Prof. Samson Duna, the Chairman, NBRRI governing board Hon William

Wadni, and other board members and Dignitaries were in attendance.

The festival was declared opened by the Hon. Minister of Science and Technology Dr. Ogbonaya Onu, who commended the participation of the Institutions stating that through the festival, talents can be identified that can possibly represent the country in the next Olympic games.

The lighting of the games torch was carried out by the representatives of the Hon Minister of FMST Prof. Etatuvi DG/CEO (NNMDA) who also received the salute from the colorful parade by participating teams.

The first game of the festival was a very entertaining football match between the host NBRRI and Raw Material and Research Development Council Abuja, with (RMRDC) defeating NBRRI 3-1.

The week-long sports fiesta has over 1,500 participants competing in 16 events including football, volleyball, athletics (Track and field), lawn

tennis, table tennis, squash, badminton, draught, chess, scrabble and veteran games with about 500 officials to serve as technical personnel.

The 16th edition of the Research Institutes Games Association of Nigeria came to a close on the 21st of December with Forestry Research Institute of Nigeria (FRIN), Ibadan topping the medals table with a total of 63 medals, comprising of 20 gold, 21 silver and 22 bronze medals and the host NBRRI taking the sixth position

with 12 medals comprising of 5 gold, 1 silver and a 6 bronze medals.

Closing the ceremony, the National Chairman of RIGAN commended all participants and mostly NBRRI for the well-deserved applaud hosting of the event. He stated that the 17th edition of the RIGAN Games is penciled down to be held in 2021. He also showed his appreciation stating that at the end of the festival the cardinal objectives of RIGAN was achieved, which include the bringing together of various R & D Institutes through sporting activities, providing

recreational interaction, friendship and sportsmanship among members, likewise exposing the hidden talents for possible national assignments in the field of sports.

## FINAL MEDALS TABLE AND POSITIONS

S/N	INSTITUTE	GOLD	SILVER	BRONZE	TOTAL	POSITION
1	FRIN	20	21	22	63	1 <sup>ST</sup>
2	NVRI	18	16	25	59	2 <sup>ND</sup>
3	IAR&T	14	22	13	49	3 <sup>RD</sup>
4	NAERLS	7	3	9	19	4 <sup>TH</sup>
5	FIIRO	5	2	6	13	5 <sup>TH</sup>
6	NBRRI	5	1	6	12	6 <sup>TH</sup>
7	IAR	4	5	4	13	7 <sup>TH</sup>
8	NARICTS	2	2	2	6	8 <sup>TH</sup>
9	NIOMR	2	1	1	4	9 <sup>TH</sup>
10	NILST	2	1	1	4	10 <sup>TH</sup>
11	RMRDC	2	0	4	6	11 <sup>TH</sup>
12	PRODA	1	1	4	6	12 <sup>TH</sup>
13	NIHORT	1	0	1	2	13 <sup>TH</sup>
14	NIFFR	1	0	0	1	14 <sup>TH</sup>
15	NITR	-	3	1	4	15 <sup>TH</sup>
16	NITT	-	1	2	3	16 <sup>TH</sup>
17	NSPRI	-	-	2	2	17 <sup>TH</sup>

## WELCOME ADDRESS BY THE ACTING DIRECTOR-GENERAL/CHIEF EXECUTIVE OFFICER OF NIGERIAN BUILDING AND ROAD RESEARCH INSTITUTE AT THE OPENING CEREMONY OF THE 16TH RESEARCH INSTITUTE GAMES FESTIVAL HOSTED BY NBRRI ON THE 16TH DECEMBER, 2019

Ladies and gentlemen, it is my pleasure to welcome you all to the Gateway State that housed the National Laboratory Complex of the Nigerian Building and Road Research Institute where the 16th Edition of the Research Institute Games Association of Nigeria Games Festival saddle with the responsibility of carrying out research and development in buildings, roads and engineering materials.

I want to state for emphasis that the gateway to the heart of the South West hold the privilege of having the former President and the Commander-in-Chief of the Arm Forces, Chief Olusegun Obasanjo, GCFR, who, as a citizen and former President establish NBRRI in 1977. As of today, NBRRI is 41 years old.

The hosting of the 16th Edition of RIGAN Games Festival in Ota, Ogun State is very significant. First, Ota is the home to R & D of NBRRI with over 79 acres of land. Also, the Ado-Odo/Ota Local Government is the industrial hub of the State which happens to be the historical kingdom of the Olota of Ota and NBRRI has come to be part of the history of Ota.

Ladies and Gentlemen, before I say a word or two concerning the games I want to first and foremost acknowledge the foresight, determination and organization of the immediate past DG/CEO of NBRRI Prof. Danladi Slim Matawal who started the planning of hosting the RIGAN Games in Ota. The current management only came to continue and implement his dreams, a big Gbosa to the former DG, if it were to be his dialect, it will be: Ipalang Professor Matawal.

The 16th RIGAN Games Festival hosted by NBRRI will be having



sportsmen and women competing for medals in not less than 15 sporting activities. "Ota 2019" will be remembered for a long time because we have put in place state-of-the-art sporting facilities to host the prestigious event that has produced acclaimed sportsmen and women for the Nation.

It is my believe that despite some short comings in the organization of the games festival, it will turn out to be one of the best because I believe that records will be set and existing ones will be broken at the end of the event.

I want to add at this point that NBRRI is exhibiting some results of her R & D which has brought the Institute to limelight. I implore all our guests to take our time to visit our stand, visit the ancient city and have fun during these ten days event.

I cannot end this address without taking out time to thank the Honourable Minister of Science and

Technology, Dr. Ogbonnaya Onu who has been a father, mentor and guardian in the preparation and hosting of this event. Also the Senate and House Committees of Science and Technology who provided the budgetary allocation for the hosting of the games.

The National Executive of RIGAN, you have all been very wonderful in making sure that NBRRI had a great and successful hosting to win.

In conclusion, I would like to thank the Board under the leadership of Hon. William Wadni who has consistently given the NBRRI Management support in ensuring a successful hosting of the games. I want to also mention that they are all present here today.

To all sportsmen and women who have come from different Research Institutes in different Ministries in Nigeria, I welcome you all. I wish you a very wonderful stay in NBRRI and a successful games festival.

## SPEECH DELIVERED BY THE RIGAN NATIONAL PRESIDENT PROF. RABIU ADAMU AT THE OPENING CEREMONY OF THE 16TH RIGAN GAMES FESTIVAL AT OTA ON 16TH DECEMBER 2019

It is my honour and privilege to welcome you to the RIGAN games festival named "Ota 2019". I thank the Almighty God for protection and safe journey of our beloved participants. Over the years RIGAN through its dedicated council members and NEC have been working hard to transform and upgrade the games festival to a very high standard befitting of Nigerian Research Staff.

The Research Institute Games Association of Nigeria (RIGAN) comprises of a family of thirty Research and Development (R&D) institutes under the aegis of the Federal Ministries of Agriculture, Science and Technology, Health, Education, Environment and Youth and Sports. By their composition and function, these Institutes are involved in not only solving Medical, Veterinary, Industrial, Scientific, Agricultural and other Technical problems as related to the respective economic sectors of Nigeria, but also in developing new technologies, policies and innovations. Distinguished ladies and gentlemen, permit me to say that the cardinal objectives of RIGAN which include the bringing together of various R&D Institutes through sporting activities, providing recreational interaction, friendship among members, achievement of sound mind and body fitness necessary for attaining the set goals for research and development, publicity of R&D Institutes and their respective mandates and discovering talents for possible national assignments in sports. RIGAN motto has always recognized that a "healthy workforce is productive force". This game festival tagged "Ota 2019" is unique because it is coming as a huge relief after the postponement of 2017 games festival. The 15th game festival was hosted in Zaria by NITT in 2015. The host of "Ota 2019" games festival, the Nigerian Building and Road



Research Institute has been forerunner in the activities of RIGAN. It has hosted several RIGAN NEC and council meetings in the last four years. It has significantly contributed both morally and financially towards the development of RIGAN. This is a very commendable feat worthy of emulation.

Games to be competed for during the festival includes, Football, Athletics, Volleyball, Lawn Tennis, Table tennis, Badminton, Golf, Chess, Draught, Dart, Ayo, Billiards and Squash. Highlight to other events of the ten days game festival will also include, Veterans games exhibitions, Trade fair and cocktail. RIGAN is highly appreciative to the laudable achievements of the Director General of NBRI for his dogged and unrelenting determination to host this year's games. I must commend the efforts of the Chairman of CODRI, the ED of NAERLS ABU, Zaria Prof. M. K. Othman for supporting RIGAN activities. On behalf of RIGAN council, I sincerely commend the DG of NBRI, Prof. Samson Duna for providing befitting games venues,

accommodation, facilities and equipment for the games festival. I call on the sportsmen and women and games officials to exhibit high sense of discipline and responsibility before, during and after the games festival. Any council member who allows the use of mercenaries by his/her Institute would be severely sanctioned. This is an era of "change" we must accept changes and do what is right. We should win fairly and at all times exhibit high spirit of sportsmanship.

Finally, RIGAN Council sincerely thank the amiable DG of NBRI, Prof. Samson Duna, the management team, Chairman and members of NBRI 2019 LOC, entire staff of NBRI for their hospitality in hosting a befitting games festival that will be remembered for a long time to come. Before I end my address, I will like to pay tribute to the immediate past DG of NBRI, Prof. Danladi Matawal for his exceptional love and commitment to RIGAN. He rekindled hope in RIGAN when our moral was at the lowest ebb. I wish us a successful NBRI 'Ota 2019' games festival.

**SPEECH DELIVERED BY THE HONOURABLE MINISTER (FMST) DR. OGBONAYA ONU AT THE OPENING OF THE 16TH RIGAN GAMES FESTIVAL ON 16TH DECEMBER, 2019 AT NBRRI NLOTA SPORTS COMPLEX**



**I**t gives me great pleasure to stand before all of you today and declare the 16th Research Institute Games Association of Nigeria (RIGAN) Games Festival, taking place here at the NBRRI Sports Complex open.

My attention was first drawn to this Game in April, last year (2018) when the RIGAN Executives paid me a courtesy visit in Abuja and presented me with the hosting flag being the supervisory Minister of NBRRI.

In my response to the delegation that day, I assured all that the FMST will provide every assistance to NBRRI towards ensuring a successful hosting of the vent. I am therefore happy today that the Games is now a reality.

Distinguished Guests, Ladies and Gentlemen, I am even more delighted that one of the major objectives of RIGAN is the bringing together of various Research and Development Institutes cutting across over seven (7) Federal Ministries. This is in tandem with vision of the present APC led Federal Government under

the dynamic leadership of President Muhammadu Buhari to create synergy and interworking relationship amongst Ministries, Departments and Agencies of Government.

It is my sincere hope that some talents can be identified during this festival that can possibly go on to represent the country in next year's Olympic Games in Tokyo, Japan.

To the athletes competing in these Games, I urge you to show good sportsmanship while you participate as it is not a win-at-all-cost situation. I therefore call for the spirit of friendliness and oneness among the officials and athletes.

For us in the Federal Ministry of Science and Technology, we will continue to encourage ideals that promote development in Nigeria. The country is indeed on the path of progress and the FMST is in the driving seat to make our development rest on our indigenous Science, Technology

and Innovation.

Let me use this opportunity to thank the Olotas of Ota and the good people of Ota for their kindness and hospitality as the host community.

Let me also commend the National Assembly via the Senate and House Committees on Science and Technology, for approving the Games via appropriation.

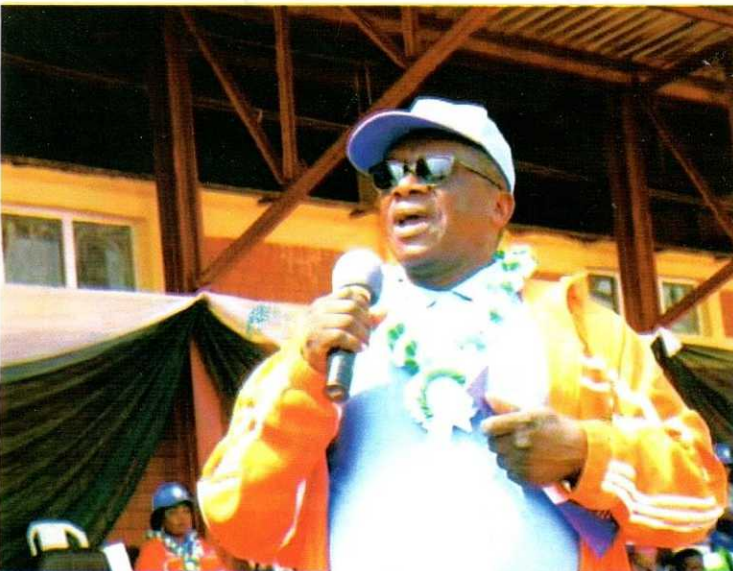
To the Acting DG/CEO of NBRRI and its staff, I say kudos for organizing the Games alongside the RIGAN Executives.

To the participating Institutions, I wish you all a successful competition.

At this high point, it is my singular privilege and honour to **DECLARE THE 16TH RIGAN GAMES FESTIVAL OPEN.**

*The Honourable Minister was represented by the DG/CEO, Natural Medicine Development Agency, Prof. Samuel Etatuwiev*

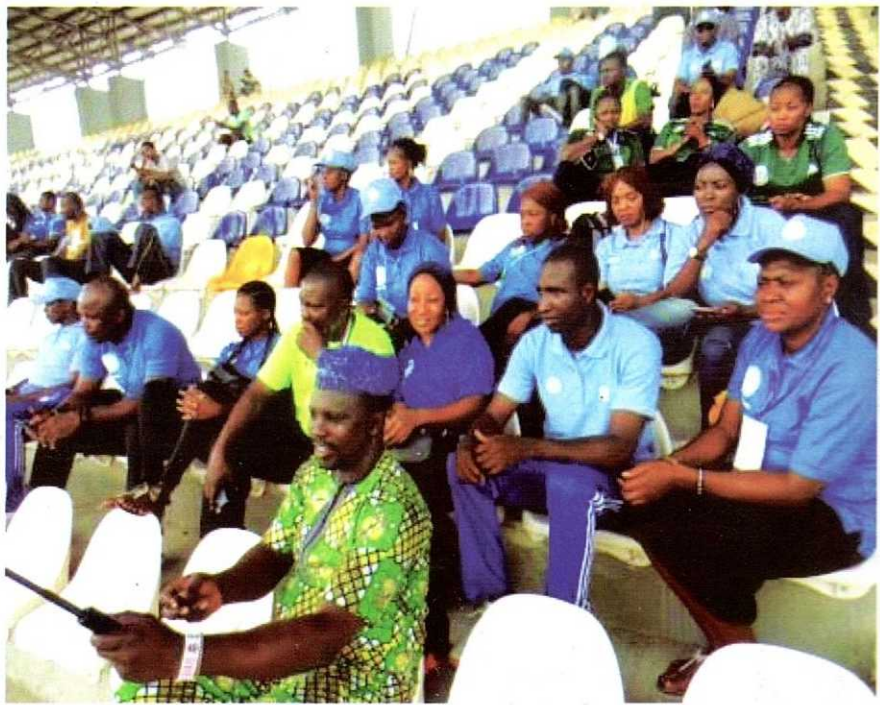
# THE 16TH RIGAN GAMES FESTIVAL, 'OTA 2019' IN PICTURES











## NBRI SOUTH EAST ZONAL OFFICE ORGANIZED TRAINING ON NBB INTERLOCKING BLOCKS FOR ARTISANS

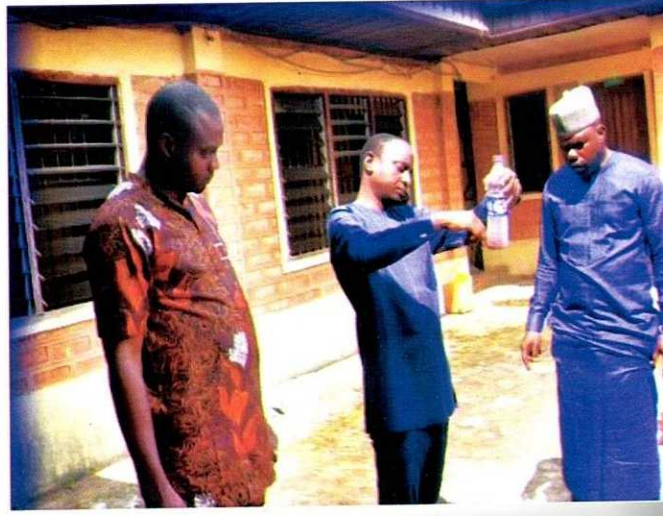


As a drive in curbing the menace of quackery in the built industry, the Nigerian Building and Road Research Institute organized a training session for Artisans in the South-Eastern part of the country. The training was divided into two sections comprising theoretical aspect and practical aspect. The training started with an opening remark by the zonal coordinator Mr. Sunny Ezirim who emphasized on the need for artisans to inform the populace to use local building materials especially laterite stabilized bricks and blocks for affordable and mass housing provision. The first trainer Engr. Gidado, informed participants that several projects have been executed using

NBRI bricks. It has several advantages over the conventional blocks in terms of good appearance, good thermal comfort, good fire resistant, bullet proof, easy to use, high compressive strength and cost reduction.

The second speaker, Arch. Angela Ogwu spoke extensively on the need to commercialize the ideas that they have imbibed from the training by procuring NBRI brick-making machine through their co-operative as that will make the machine affordable for them and that the machine comes in three versions: semi-automated machine, diesel engine powered machine and electric motor powered machine.

The practical section was done with the NBRI interlocking machine and artisans were shown the process of preparation of materials for brick/block production. This involves sieving of soil, covering material, mixing of materials, batch test, materials needed, batching a mixing, volume of mix, loading to machine, ejection of blocks from machine, stacking and curing. It ended with presentation of certificates to participants and closing remarks by the Zonal Coordinator.





# NBRRI IS SET TO WIPE OUT CORRUPTION AS NBRRI ANTI-CORRUPTION & TRANSPARENCY UNITY (ACTU) MEET WITH THE ACTING DG



The Chairman of the NBRRI ACTU Mr. Edwin Eze who led the delegations appreciated the Acting DG for his encouragement and motivation towards the creation of the Anti-corruption Unit in the Institute. Mr. Edwin Eze mentioned that in order for the mandate of the Unit to be achieved, an in-house training and seminar will be organized for the staff of the Institute. He also mentioned that other committees and sub-units will be inaugurated in other zonal offices at least in Ota and Bokokos. He also stated that the creation of the sub-units is like extending the services of ACTU and so staff members of integrity will be recognized and given the responsibility of the sub-units. Mr. Dika Sunday, a member of the unit mentioned that the committee isn't antagonistic to the Institute but that the unit will ensure preventive measures are carried out to prevent corrupt practices from taking place in the Institute. He stated that the Unit is therefore a part of the DG's office and they are to work under the DG as the anti-corruption stamp in the Institute to give the Institute a good name and reputation.

In response, the Acting DG/CEO commended the Committee and congratulated them for doing a great job. He also added that Management will always acknowledge the Unit. He however mentioned that he expects them to be his eyes and he also expects a monthly report. He also added his support towards the in-house training as this will be a reform and aid in achieving the mandate of the Unit to combat corruption in smaller units.





**REPORT AND COMMUNIQUÉ ISSUED AT THE END OF THE FIRST NATIONAL WORKSHOP/TRAINING ON SUSTAINABLE BUILDING DESIGN AND MATERIAL SPECIFICATION HELD FROM THE 3RD – 5TH OF DECEMBER, 2019 AT NBRRI HEADQUARTERS JABI ABUJA.**

**WORKSHOP PLANNING COMMITTEE**

**Okoro Leonard O:** Team Leader,  
**Taiwo A. Arolowo:** Member,  
**NdemTimnan:** Member

- The workshop was organized by NBRRI in view of low performance level of buildings in Nigeria.
- The aim of the workshop was to assess the issues and challenges facing the building sustainability in Nigeria and provide panacea to mitigate the challenges, it was designed to strengthen the capacity of professionals in the built sector in the area of design, material specification and construction techniques considering the climatic demand (condition) and local content. (Presidential Order No 5).
- This was tackled through share of knowledge and experience in the form of lectures, paper presentations, reports and discussions between facilitators and participants which came from relevant government and non-government organizations.

**PAPERS AND PRESENTERS**

- Name of presenter:** DG/CEO standard organization of Nigeria (SON)  
**Represented by:** Engr. Ugbuja Joseph  
 Group Head Civil/Buuilding  
**Organization:** Standard Organization of Nigeria (SON)  
**Paper Title:** Efforts of the Standard Organization of Nigeria in Standardizing Building/Construction materials.
- Name of Presenter:** Prof. H.D Ibrahim  
**Organization:** DG/CEO Raw materials research and development Council:  
 Raw materials research and development council  
**Paper Title:** Local Content Development and Material Specification for Sustainability in Building and Construction Industry – RCRDC perspective.
- Name of presenter:** Director Development Control  
**Represented by:** TPL Ekarikpong I. Ukpana  
 Deputy Director, Development permit  
**Organization:** Department of Development Control (FCDA)  
**Paper Title:** Role of Development Control in Ensuring Sustainable Building Design and Material: Specification within the Built Environment.
- Name of presenter:** Dr. Louis Gyoh  
**Represented by:** Arc.EmekaNwandu  
**Organization:** University of Wolver Hampton UK  
**Paper Title:** The Circular Economy-Cradle to Cradle

The technical sessions of the workshop ended with a tour to the factory site of Citec Integrated Building Products Limited and the visit of a German Cooperation (giz) with a very important document "THE NATIONAL BUILDING ENERGY EFFICIENCY CODE AND THE TECHNICAL NOTE", the closing dinner and issue of certificate to the participants.

## COMMUNIQUÉ

- Workshop and training on collaboration amongst the seven members of the construction industry is critical in these dark times of rampant building failures and collapse
- The figures on building collapse has reduced arising from frantic efforts of research and collaboration amongst the construction family with NBRRI taking the lead
- Most building failures arise from substandard materials and poor supervision rather than design
- Flexural failures is identified as the major cause of building collapse
- On engineering design, there is need for Modified adoption of Euro code or BS standards in accordance with localized parameters for Nigeria.
- Building collapse investigation team MUST comprise all building professional from the seven professional bodies in the construction industry as agreed by the Committee of Registrars of the industry's regulatory bodies.
- Lack of adherence to building standard is a major source of worry in attaining building construction sustainability
- Intensified efforts is needed in research and distribution of research outputs on local building materials
- The need to prosecute quacks both in cities and suburbs by the committee of registrars of the seven professional bodies in the construction industry
- NBRRI should lead the course on urgent sensitization among building professionals on implementing sustainable construction
- NBRRI should create a forum for development of sustainable construction policy
- Inclusion of design requirements for the aged and disabled in sustainable design
- There is need to build BIM capacity (2D-7D) and baseline data for design and decision support to achieve sustainable building
- The need for Building Energy Management system synchronized with BIM necessary to achieve sustainable design and inclusion of renewable energy in design practices
- Issues of Compliance of construction in line with approved designs is appalling and Development control is calling on NBRRI and other relevant stakeholders to help defend and achieve compliance with the Abuja Master plan
- Proliferation of unstandardized building materials and gross lack of compliance to National standard is counterproductive
- in the race towards sustainable construction
- Approach to building design is a major determinant in cutting down building energy demand as such the need for energy conscious designs
- NBRRI should step in at the policy level in terms of building materials sourcing to mitigate against environmental degradation
- At the heart of sustainable construction practice is project planning and management. Critical path analysis should be adopted in achieving stated sustainable goals.
- NBRRI is hereby challenged to pioneer BIM technology adoption in the Nigerian building sector
- Consideration of regional climatic condition, cosmology and local content in Building Design and Material specification is a panacea to improve the sustainability of Building in Nigeria. This recommends Trainings on climate change and cosmology as it concerns building. NBRRI and ARCON should work together on this.
- Proposed building finishing materials should be checked at building approval stage and inspected at and cleared at the finishing stage. NBRRI, ARCON and Development control both federal and state levels should work on this.
- Due to reports by the

workshop participants on issues at building site and in line with its mandate, NBRRI should conduct immediate Research/Assessment/Investigation necessary on the following building materials in Nigerian market.

- Aggregate: Both granite and local (red) stone, sample from the six geopolitical zones of Nigeria. A mix design for local aggregate is needed.
- Reinforcement bar. Samples of different sizes from different companies' in Nigerian Market.

- Electric cables: Cables of different sizes from different companies or producers in Nigerian market.
- Paints: Assess/Investigate different products of paints in the market and recommend ways to reduce their shading and screening effect when used to finish walls in the tropics.
- Cement: Physical and chemical assessment of all the brands in the market.

This study was recommended due to variations in characteristics noticed in the same materials of the same size but different brand of company.

- The result of these investigations and the recommendation should be presented before the relevant stakeholders and published as a technical report in collaboration with standard organization of Nigeria and Department of Development control.

*Workshop Chairman:  
Arc. Umaru Aliyu. (FNLA)*

## PHOTO GALLERY OF THE WORKSHOP



# PHOTO GALLERY

## OF THE WORKSHOP



# NBRRI BOKKOS CENTER HOSTS N POWER TRAINING



## SOCIAL DIARY

Okon Daniel M.	1st October	RRD
Salawe-Tukur Zainab	2 <sup>nd</sup> October	F/A
Davies I.	3 <sup>rd</sup> October	A/F
Iruobe .E. Odion	3 <sup>rd</sup> October	EMRD
Agbo Sunday	5 <sup>th</sup> October	P/M
Namo .E. Bildad	5 <sup>th</sup> October	A/F
Zainab Sa'id Mohammed	5 <sup>th</sup> October	F/A
Ogalla O. Mike	6 <sup>th</sup> October	CES
Olotu Garba Mohammed	7 <sup>th</sup> October	DGs Office
Ndibe Ozioma Miracle	7 <sup>th</sup> October	F/A
Mlanga Victor	9 <sup>th</sup> October	RRD
Tejumade Olufemi O.	9 <sup>th</sup> October	A/P
Gidado M Tukur	10 <sup>th</sup> October	CES
Gwiwanyi Sunday G	10 <sup>th</sup> October	RRD
Obande Peter Obande	10 <sup>th</sup> October	P/M
Adeyemi O.A	10 <sup>th</sup> October	BRD
Subair Olakunle W	10 <sup>th</sup> October	EMRD
Alabi Folasade Felicia	11 <sup>th</sup> October	A/P
Ayitogo A.Abdulkadir	11 <sup>th</sup> October	PIT
Bakoji Adamu	11 <sup>th</sup> October	
Makwin Gillian Unapas	11 <sup>th</sup> October	BRD
Adeyemi Aliu D.	12 <sup>th</sup> October	BRD
Abubakar Tahir	15 <sup>th</sup> October	A/F
Ajayi Olumide	16 <sup>th</sup> October	A/P
Mozea M.N	18 <sup>th</sup> October	BRD
Obiora Frank I.	21 <sup>st</sup> October	RRD
Ikani Adah	21 <sup>st</sup> October	BRD
Bukar Bello .P.	23 <sup>rd</sup> October	A/F
George Gondo	25 <sup>th</sup> October	RRD
Timothy Danjuma	25 <sup>th</sup> October	RRD
Enebi Stephen	27 <sup>th</sup> October	EMRD
James Monday N	27 <sup>th</sup> October	A/F
Aikpehaeltua I.	31 <sup>st</sup> October	A/F
Afolabi Ajibola	1 <sup>st</sup> November	A/F
Felix Onwa E.	1 <sup>st</sup> November	PPM
Bello Mudi	2 <sup>nd</sup> November	A/F
Olotu Mohammed	2 <sup>nd</sup> November	PIT
Fowobaje F.M	4 <sup>th</sup> November	A/F
Magaji Rebecca	4 <sup>th</sup> November	A/F
Salisu Ibrahim	4 <sup>th</sup> November	A/F

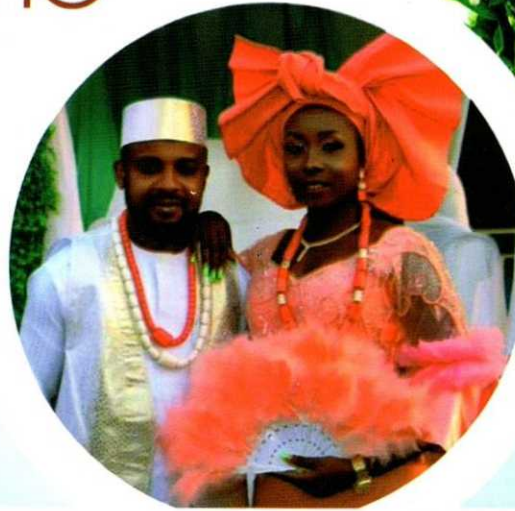
## SOCIAL DIARY

Danyiwo O.F	9 <sup>th</sup> December	A/F
Agu Christian	9 <sup>th</sup> December	RRD
Sanda Abdullahi Usara	10 <sup>th</sup> December	BRD
Egila James Monday	13 <sup>th</sup> December	EMRD
Apeh Enebi Solomon	14 <sup>th</sup> December	EMRD
Ekandem E.S	16 <sup>th</sup> December	BRD
Asuquo E. Asuquo	18 <sup>th</sup> December	SLT
Ojo Soji Olaleye	19 <sup>th</sup> December	A/F
Akanya Cinwonsoko	19 <sup>th</sup> December	BRD
Dika Sunday Musa	20 <sup>th</sup> December	A/F
Chiaja Nathaniel	20 <sup>th</sup> December	A/F
Arowolo Adeola	20 <sup>th</sup> December	
Duru Chuks C.	22 <sup>nd</sup> December	BRD
Nataala M. Usman	22 <sup>nd</sup> December	BRD
Ajayi A.A	22 <sup>nd</sup> December	RRD
Hassan Yusuf	24 <sup>th</sup> December	CES
Asala Joseph	24 <sup>th</sup> December	PIT
Ocholi Mamudu	24 <sup>th</sup> December	SLTD
Ramallan .M. Bose	25 <sup>th</sup> December	A/F
Obidiozor Anthony	27 <sup>th</sup> December	PIT
Osei Regina Ime	28 <sup>th</sup> December	A/F
Sule Emmanuel	30 <sup>th</sup> December	RRD
Okaro Ifeanyi	30 <sup>th</sup> December	
Ali Oluwafunke Janet	30 <sup>th</sup> December	A/P
Enebi Stephen	30 <sup>th</sup> December	EMRD
Domi Ali	30 <sup>th</sup> December	A/P
Stephen Joseph	30 <sup>th</sup> December	A/P
Monday Eyojo	31 <sup>st</sup> December	A/F
Okeya Cornelius	31 <sup>st</sup> December	CES
Sulaiman Oladimeji	31 <sup>st</sup> December	PITD

# WEDDING



**MR. OKOUGH AYEMERE FERDINAND OF SLTD, OTA, MARRIED FORMER MISS OZO CYNTHIA OSARIEMEN ON 23RD OF DECEMBER, 2019**

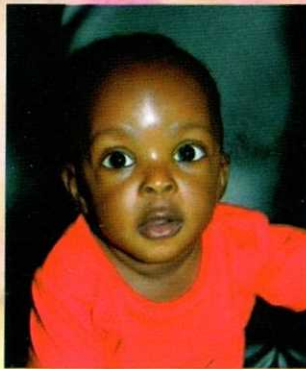


**ANANSO GEORGINA NNENE OF SLTD, OTA GOT MARRIED TO MR. MICHAEL GODSON UDOCHUKWU ON 31ST DEC, 2019.**

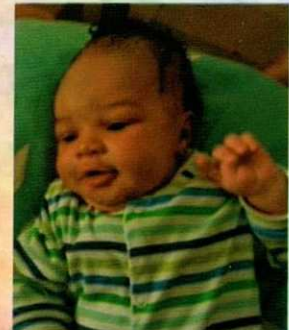
# BIRTHS



**PRINCE ERIC HENTER JNR, BORN ON 2ND NOVEMBER 2019 TO THE FAMILY OF MR. ERIC OF SLTD, OTA**



**BABY MESSIAH SOLOMON, BORN ON 19TH OF MAY, 2019 TO THE FAMILY OF MRS. ATIM BASIRAT TAIWO OF ACCOUNT, ABUJA**



**BABY LEO EBUBECHUKWU. BORN ON 1ST DECEMBER, 2019 TO THE FAMILY OF MR. OKORO LEONARD OF BUILDING RESEARCH DPT, ABUJA**




**BABY OSHIOLEMA FRANCISCA. BORN ON 3RD DECEMBER, 2019 TO THE FAMILY OF MR. RICHARD MAKAVA OF PITD, ABUJA**




**BABY DAVIDMOSES ONOJA. BORN ON 4TH DECEMBER, 2019 TO THE FAMILY OF MR. ONOJA OF ACCOUNT DPT, ABUJA**



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and  
Building and Road Research Institute, Ghana




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IN COLLABORATION WITH

 **COUNCIL FOR THE REGULATION OF ENGINEERING IN NIGERIA**


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(RIGAN) GAMES**



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PARTNERSHIP WITH NBRRI**



**NBRRI  
BOKKOS CENTRE  
HOST N-POWER TRAINING**



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