

NASENI's Transformative Lead in Agriculture: Bright Future for Nigeria's Farmers

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NASENI Solar Irrigation Pumps in a Rice Farm

The National Agency for Science and Engineering Infrastructure (NASENI) has emerged as a pivotal Federal Government institution in transforming Nigeria's agricultural sector, rolling out a series of initiatives aimed at enhancing agricultural productivity and bolstering food security across the country.

Under the innovative leadership of the Executive Vice Chairman/CEO, Mr. Khalil Suleiman Halilu, one of the key

advancements by NASENI is the introduction of Soilless Farming technique at one of its divisions, the Agricultural Machinery and Equipment Development Institute (AMEDI) located in Lafia, Nasarawa State.

This cutting-edge approach involves the use of Mapal Trough for planting Bell Pepper, Tomatoes, Cucumber, Carrot, Spring Onions, Lettuce, Pineapple Tower, fruits, vegetables, Potatoes and other crops through smart-climate agricultural practices, ambient temperature and

controlled drip water irrigation toward acceleration of food production in greenhouses. Additionally, NASENI is making strides in livestock management by developing specialized machines for feed production and pelletization. These innovations are designed to elevate productivity standards.

In Awka, Anambra State, the Smart Automated Poultry Management System developed at the Electronic Development Institute (ELDI), a

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News

Contractors Pledge Speedy Delivery of SETI, HEDI Projects

By Chima Akwaja, Abuja



Contractors handling construction projects at NASENI's Sustainable and Emerging Technologies Institute (SETI), New Campus, Bayero University Kano (BUK) and the Hydraulic Equipment Development Institute (HEDI) in Kano, Kano state have pledged to deliver within schedule.

According to the terms of projects, the contractors and the project consultants have six months and four months respectively to complete construction works and hand over the site to the National Agency for Science and Engineering Infrastructure (NASENI).

A team of the Monitoring and Evaluation (M&E) committee led by Director of Audit at NASENI, Mr. Sulaimon Ayinla, who visited project sites on February 23, 2025, to assess the level of works, interacted with the Management of HEDI led by its Overseeing Officer, Mrs. Maryam Murtala Dantana; the Consultant, ICONS Arkitektur-OCA; and the two contractors, Bean Town Nig Ltd and BP Sani & Co Ltd, handling the construction.

Ongoing projects at HEDI Kano which was at an early stage as at the time of the visit included the

construction of an Information and Communications Technology (ICT) Centre, Training Centre and Production Complex. The contractors pledged to deliver within stipulated time of four months (12 weeks) to the Agency.

AT SETI site where construction works are going on, the Project Manager of SETI, Engr. Sani Umaru said work was progressing as the consultant, Xmatrix 369 Ltd and the contractors are dedicated to ensuring that they meet the deadline to deliver and handover the projects to NASENI.

The SETI projects include construction of Processing Workshop, Virtual Lab, Gate House and Perimeter Fence (Phase 1) by PEE CEE ESS Projects Ltd; ICT Centre and Production and Assembly Workshop by Ngaloma Construction Co Ltd; Technology Orientation Centre and Multi-Purpose Hall by ASBA Synergy Concept Ltd; and Administrative Building (Phase 1) by Cromwell Multi-Global Enterprises Ltd.

According to Arc. Sani Shehu Sani of Xmatrix 369 Ltd, the project duration is six months. He said the ICT Centre was at 60 per cent completion, Admin Block (Phase 1) was at 40 per cent, Virtual Lab at 50 per cent, Production and Assembly Workshop was at 30 per cent, the Multi-Purpose Hall was 30 per cent, and the Gate House was at 60 per cent while the Perimeter Fencing was at 20 per cent.

NATIONAL AGENCY FOR SCIENCE AND ENGINEERING INFRASTRUCTURE (NASENI)

OUR GOAL

To build a 21st century institution founded on and driven by the core principles of Collaboration, Creation and Commercialization.

OUR VISION

Fueling Nigeria's innovation for a sustainable future.

OUR MISSION

We develop and maintain a dynamic Science and Engineering Infrastructure to drive indigenous industrialization, job creation and national progress.

OUR CORE VALUES

KNOWLEDGE SHARING:

Leveraging local materials and rapid conversion of innovation into market-ready products.

INNOVATION:

Providing technology needs for the growth of Nigeria industries.

TECHNO-NATIONALISM:

Making Nigeria become key player in global technology advancement or invention.

PROFESSIONALISM:

To show competence and excellence in every aspect of its organizational activities.

NASENI: INFINITE POSSIBILITIES...

Feature

NASENI's Transformative Lead in Agriculture: Bright Future for Nigeria's Farmers



Produce from AMEDI-NASENI Soilless farm

previously hindered by inadequate water supply. The Irrigate Nigeria Project—a game changer for irrigation farming has the potential to redefine agriculture practice in Nigeria which embodies NASENI's forward-thinking approach to achieving all year-round agricultural success.

This ambitious initiative aligns seamlessly with the first item on the Renewed Hope Agenda of President Bola Tinubu, which is food security. For the EVC of NASENI, Mr. Halilu, this project allows NASENI to harness its technological expertise, living up to its core values of Creation, Collaboration, and Commercialization (3Cs).

The Irrigate Nigeria Project according to Halilu is hinged on four essential pillars for its enduring success. These are: Centralized Irrigation Systems using NASENI Solar



NASENI is leaving no stone unturned in its agricultural revolution with ongoing constructions of an Urea Fertilizer Plant, two Coal-based Fertilizer Plants, an Agri-Tech Park in Nasarawa State, and a Tractor Rehabilitation project to fix broken down tractors across the country.



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NASENI division, is another highlight of the Agency's efforts. This system incorporates advanced technologies to optimize poultry farming, ensuring better management practices and high yields.

NASENI is leaving no stone unturned in its agricultural revolution with ongoing constructions of an Urea Fertilizer Plant, two Coal-based Fertilizer Plants, an Agri-Tech Park in Nasarawa State, and a Tractor Rehabilitation project to fix broken down tractors across the country, as well as ongoing construction of Agricultural Machinery and Equipment Development Institutes (AMEDI) in each geo-political zones of the country to improve agricultural productivity and food security in Nigeria through sustainable technologies.

A watershed moment was the recent launch of the Irrigate Nigeria

Project, a collaboration between NASENI and the Renewed Hope Infrastructure Development Fund (RHIDF), employing a Public-Private Partnership (PPP) model that champions sustainability and large-scale agriculture. It reflects President Tinubu's commitment to empowering private entities to lead the way in agricultural advancement.

The pilot of Irrigate Nigeria project which took place on March 1, 2025 at a 10 hectare farmland at Gamawa Local Government Area of Bauchi State is poised to revolutionize irrigation farming, harnessing modern techniques and practices to improve water management and increasing farming cycles.

Through sustainable irrigation method, the project has the potential to redefine agricultural productivity in Nigeria, ensuring that farmers can expand their cultivation even in areas

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IRRIGATE NIGERIA PROJECT: How FG Will Increase Food Production- *Halilu*



L-R: The Governor of Bauchi State, Senator Bala Abdulkadir Muhammad; the Executive Vice Chairman/CEO NASENI, Mr. Khalil Suleiman Halilu; the Emir of Bauchi, Dr. Rilwanu Suleiman Adamu and the Deputy Chairman, House Committee on NASENI, Hon. Abdul Malik Zubairu Bungudu at the official launching of the Irrigate Nigeria Project in Gamawa Local Government Area, Bauchi State, on Saturday, March 1, 2025.

The EVC/CEO of the National Agency for Science and Engineering Infrastructure (NASENI) Mr. Khalil Suleiman Halilu has stated that the Federal Government's Irrigate Nigeria Project will ensure all-year round farming, increase food production and quality of harvests, more financial incomes for Nigerian farmers among other benefits.

The Irrigate Nigeria project jointly being implemented by NASENI and the Renewed Hope Infrastructure Development Fund (RHIDF) has the participation of private sector at the core of its operations in line with President Tinubu's commitment to fully empower farmers to develop the agricultural sector. The programme was launched on Saturday, March 1, 2025, in a 10 hectare farmland in Gamawa Local Government Area, LGA,

Bauchi State.

The goal of the project under the Renewed Hope Agenda of President Bola Tinubu administration is the transformation of Nigeria's agriculture sector through provision of sustainable irrigation systems that empower farmers to achieve year-round farming, and by extension increased productivity and reduced food prices.

According to Halilu, "this Federal Government initiative rests on four components for its sustainability: First the deployment of centralized NASENI irrigation systems to support farming clusters in the participating communities and second is the provision of input-enhanced seeds and fertilizers including technical support to the participating farmers to complement the provision of

irrigation equipment.

"The third component is the specialized nature of the commercial model, aimed at ensuring commercial viability and long-term sustainability, and lastly Irrigate Nigeria Project will be run on commercial basis, but with every care taken to ensure that this does not burden the participating farmers unnecessarily," Halilu added.

He said repayments by farmers for the support being provided will be in form of convenient portions of their harvests, like rice paddy which will be pooled into a strategic food reserve that will help to stabilize commodity prices and also made available for



It will have a multiplier effect across the agricultural value chain, both vertically and horizontally, drive knowledge transfer, introduce advanced technologies, and distribute wealth equitably among the most vulnerable in the society.



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Irrigation Pump technology to support farming clusters in participating communities, ensuring efficient water usage; Input-Enhanced Seeds and Fertilizers, allowing farmers to receive high-quality seeds and fertilizers including technical assistance.

Others are: Commercial Viability to ensure the project's long-term sustainability, by lightening the financial load on farmers; and Harvest Repayment System which allow farmers repay the support received through manageable portions of their harvests deposited at Nigeria's Strategic Food Reserves to stabilize market prices and bolster exports.

This revolutionary approach is designed to empower Nigerian

farmers to grow crops throughout the year, irrespective of erratic rainfall, while also boosting both quality and quantity of their yields.

The launch of 'Irrigate Nigeria Project' has received an enthusiastic welcome from local leaders, including Bauchi State Governor Bala Mohammed, who expressed gratitude for the Federal Government's decision to make Bauchi the pilot state, emphasizing the project as a pivotal stride towards tackling food scarcity and stimulating economic empowerment in the region.

The project's ripple effects are expected to permeate the agricultural value chain, fostering knowledge sharing, introducing cutting-edge technologies, and ensuring equitable wealth distribution among farmers,

especially the most vulnerable groups.

At a time when Nigeria's agricultural sector grapples with challenges like over-reliance on rain-fed farming and the shortcomings of past irrigation efforts, the 'Irrigate Nigeria Project' comes at just the right moment. By marrying public resources with private sector innovation, NASENI is on a mission to forge a more resilient agricultural ecosystem.

With the array of NASENI innovative offerings in agriculture like the 'Irrigate Nigeria Project,' Soiless Farming, tractors refurbishment and crop threshers, etc. the prospects for Nigerian agriculture are brighter than ever, promising a future of resilience and prosperity for farmers and consumers alike through NASENI.



**AMTDI-NASENI
RICE THRESHER**



**ELDI-NASENI AUTOMATED
POULTRY MANAGEMENT SYSTEM**



**AMTDI-NASENI
ANIMAL FEED PLANT**



**AMTDI-NASENI
MULTI-GRAIN THRESHER**

News

SETI: FG Eyes AI, Robotics, New Techs with New Institute in Kano



From left: The Executive Vice Chairman/CEO of NASENI, Mr. Khalil Suleiman Halilu; Vice Chancellor, Bayero University Kano, Prof Sagir Adamu Abbas and the Honourable Minister of Innovation, Science and Technology, Chief Uche Nnaji, laying a block at the ground breaking event of the Sustainable and Emerging Technologies Institute (SETI) at Bayero University Kano (BUK) New Campus on Friday, 14th February, 2025.

sustainable development, massive job creation opportunities for the youths, and that the BUK was delighted to be host to such laudable initiative and momentum.

In addition to SETI, a second NASENI project for BUK is an **Agri-preneurship Training Hub**, that will be equipped with modern greenhouses, and facilities for Soil-less Farming, and Tissue Culture, occupying 10 hectares of land at the Old Campus. These projects collectively represent what NASENI stands for, that is, building capacity, advancing industrialization, supporting economic growth and prosperity.



We in NASENI are firm believers in the potential of young Nigerians to be the prime catalysts of the type of transformation that Nigeria requires. And we will do everything within our powers to support them to fulfil this important responsibility.



The Federal Government has commenced the construction of the Sustainable & Emerging Technologies Institute (SETI), a division of the National Agency for Science and Engineering Infrastructure (NASENI), Presidency which will focus on Artificial intelligence (AI) and other new and emerging technologies.

The groundbreaking of the new institute held on Friday, February 14, 2025, was performed by the Minister of Innovation, Science and Technology, Chief Uche Geoffrey Nnaji; the Executive Vice Chairman/CEO of NASENI Mr. Khalil Suleiman Halilu; and the Vice Chancellor of Bayero University Kano, Professor Sagir Adamu Abbas at the new campus site.

The new institute will sit on 30 hectares of the BUK land, featuring state-of-the-art facilities, including innovation hubs devoted to Artificial Intelligence, robotics and other cutting-edge technologies, complemented by reliable power

supply. SETI will produce innovators, technologists, entrepreneurs who will make their mark not just in Nigeria but around the world.

“We in NASENI are firm believers in the potential of young Nigerians to be the prime catalysts of the type of transformation that Nigeria requires. And we will do everything within our powers to support them to fulfil this important responsibility,” said Halilu.

While carrying out the symbolic foundation laying ceremony of SETI, Chief Nnaji, described the project as not only laudable but NASENI's another way of fast tracking the placing of Nigeria on the global map of innovation and industrialization. The minister called the project an “ace project” and a pointer to secure a veritable socio-economic development for the nation.

Professor Abbas described the new institute as a vehicle for bringing together the government, academia and industry, describing the ground-breaking event as the beginning of Nigeria's journey in pursuit of

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**IRRIGATE NIGERIA PROJECT:
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NASENI solar Irrigation pump system inside the rice farm.

institutional sale for export.

Bauchi State Governor, Alhaji Bala Abdulkadir Mohammed expressed gratitude to the Federal Government for choosing Gamawa LGA as the first beneficiary, adding it is a plus for President Tinubu and the Federal government as "This project is more than just about farming; it is about food security, economic empowerment, and national stability"

According to the Governor "It aligns perfectly with Bauchi State Government's broader goals of expanding irrigation farming, reducing dependence on rain-fed agriculture, and promoting sustainable agricultural infrastructure. The irrigate Nigeria initiative is a new model for agricultural excellence, capable of leading to sustainable growth and development of the agricultural sector.

"It will have a multiplier effect across the agricultural value chain, both vertically and horizontally, drive knowledge transfer, introduce advanced technologies, and distribute wealth equitably among the most vulnerable in the society"

Also speaking during the launch, Dr Mohammed Dahiru, the Chairman Presidential Committee on Technology Transfer (PICTT) explained that the Irrigate Nigeria project was conceived and funded at the outset extensively on public private partnership (PPP) model to drive sustainability with farm households nationwide in mind to develop the agriculture ecosystem.

The take-off of the Irrigate Nigeria Project in Gamawa, Bauchi State is the first phase as the exercise will be replicated in other parts of the country by NASENI under the auspices of the Renewed Hope Infrastructure Development Fund (RHIDF).

Olusunle Emerges Fellow of Nigerian Mining & Geosciences Society

A research Director at NASENI, Engr. Dr. Samuel Olugbenga O. Olusunle has been conferred with the prestigious Fellow of Nigerian Mining and Geosciences Society (FNMGS), one of the oldest professional bodies in the history of Nigeria.

He was conferred with the fellowship at the Society's 60th Annual International Conference and Exhibition (AICE) held in Abuja from 16th-19th February 2025 at Chida International Hotel Abuja. Dr. Olusunle and 42 other members were honoured with the prestigious fellow category, which is the highest election attainable in society.

Before he became research director, Dr. Olusunle was former Managing Director, Engineering Materials Development Institute (EMDI) Akure, one of NASENI Development Institutes. Also, he is a Fellow of the Nigeria Institute of Mechanical Engineers (NIMechE), the Materials Science and Technology Society of Nigeria (MSN), the Nigeria Society of Engineers (NSE), The Nigeria Institute of Management (NIM), The Nigerian Metallurgical Society (NMS) and many others.



NASENI Research Director, Engr Dr Samuel Olugbenga O. Olusunle, FNMGS, (right) receiving the Conferment Award plaque and Certificate from Prof. Akinade Sadrach Olatunji, the President of the Nigerian Mining and Geosciences Society (NMGS)(left) during the Awards Night which took place at the Chida International Hotels Abuja on Wednesday, February 19, 2025.

News

IEMDI Maiduguri Construction Gathers Momentum

By Chinyere Obiorah-Ekwuazi, Abuja



Construction works at the Industrial Equipment and Machinery Development Institute (IEMDI), Maiduguri, Borno State, a Division of the National Agency for Science and Engineering Infrastructure (NASENI), is gathering momentum.

IEMDI is one of the emerging Development Institutes of the Agency with the mandate to carry out Research and Development work, production and assembling of industrial equipment, processing fruit juice and beverages, general workshops amongst other innovative and technological activities.

The Monitoring and Evaluation (M&E) team from the Agency's headquarters led by Deputy Director, Civil and Environmental Engineering Department, Engr. Emmanuel Ajani carried out an on-the-spot assessment of the works at the project site on Thursday, 13th February 2024.

The team visited the 20-hectres land where construction of the institute is currently going on. The land was handed over to NASENI by the Borno State Government to build an innovative technology hub, aimed at creating wealth, provide job opportunities to teeming Nigerian youths and make them self-reliant for national development.

The five awarded projects include: Perimeter fencing and Gate house, administrative blocks, Virtual laboratories, General workshop, Production and Assembling workshop, all are under construction.

The representative of the consulting firm, Frontstone Nig Ltd, Arch. Ibrahim Kenechi who took the M&E team round the site said the institute will be a complete research institute of NASENI. He assured that all things being equal, all awarded structures will be completed by end of March 2025.

AMEDI Birnin-Kebbi Construction Works Heightens

By Henry Ukwadia, Abuja

Construction works at the Agricultural Machinery and Equipment Development Institute (AMEDI), Birnin Kebbi, Kebbi State, a division of the National Agency for Science and Engineering Infrastructure (NASENI), is gathering pace.

AMEDI is one of the emerging agricultural development institutes of the Agency being built in each geo-political zone with the sole mandate to enhance agricultural mechanization, food security, job and wealth creation. The Monitoring and Evaluation (M&E) team led by the Acting Director, Natural and Physical Sciences, NASENI, Mr. Ado Galadima carried out an on-the-spot assessment of ongoing projects in the state from February 19-20, 2025.

The team was shown round the project site by AMEDI Project Manager, Engineer Umar Abdullazeez and representative of the consultant, Grandscape Residence's Limited, Engineer Hassan Adavize Abdulraheem. The new institute, which sits on 10 hectares of land has eight different projects awarded in phases and are ongoing.

The phase one projects include the Administrative Building, Perimeter Fencing and Gatehouse, Assembly workshop, Water Supply project and first Workshop. The phase two projects include the Virtual Reality Laboratory, second Workshop, Warehouse and the internal network road construction.

According to the contractors handling the various projects, Engineer Kennedy Agbanwedikeizu and Architect Aminu Ibn Musa, in no distant time, the projects would be completed and handed over to the Agency.

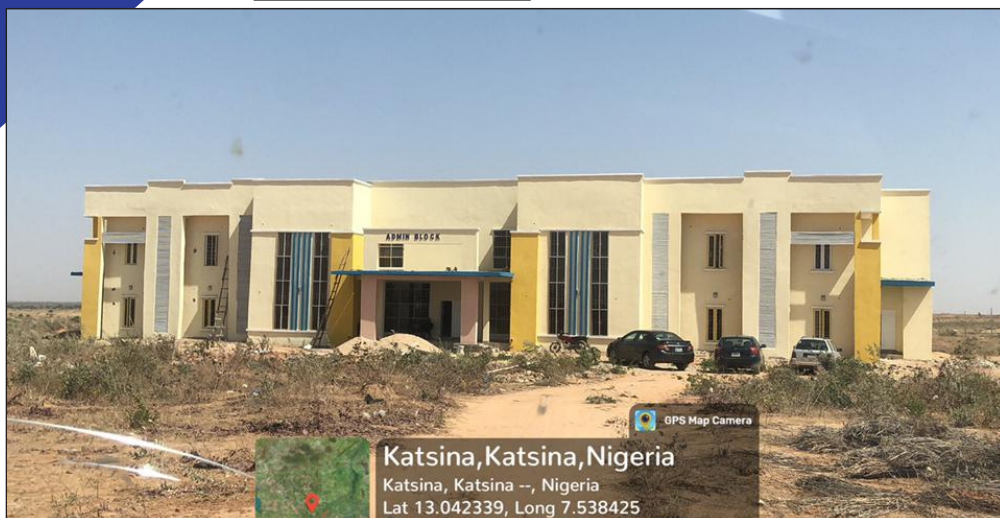


News

EMEDI Construction Reaches 80% Completion Stage

...As M&E team visits Skill Acquisition Centre

By Margaret Ogbor Imaji



The construction works at the Engineering Materials and Equipment Development Institute (EMEDI) in Katsina State, a division of the National Agency for Science and Engineering Infrastructure (NASENI) has reached about 80 per cent completion.

A team from the Monitoring and Evaluation Committee led by the Ag. Director of Administration and Human Resources at NASENI, Mrs. Yetunde Ajayi paid a visit to the project site early this week to see the status of construction works.

EMEDI Katsina was established to undertake Research and Development (R&D) works in Engineering Materials and Infrastructure for the production of various sections and sizes of science equipment and machines.

Upon completion, the institute will be empowered to facilitate the development of silica abundance in the state, utilizing modern techniques, methods and tools. The Monitoring and Evaluation team carried out inspection of the project site on Monday, 17th February 2025.

Received by the Project Manager of EMEDI Katsina, Dr. M.S Abdullahi, the team visited the 20-hectare land where the institute complex is currently undergoing construction.

The land which was handed over to NASENI by the Katsina State government, which currently has an

administrative block, nearly completed; a Production and Assembling Workshop completed; a Gate house and a Perimeter fence, phase one also completed.

During the monitoring and evaluation process, consultant of Alims & Associates Ltd., Engr. Olalekan O. Kashim and consultant of Ground Scope and Residences Ltd., Engr. Hassan Abdulraheem both assured of their commitment to ensuring that all awarded projects will be completed and handed over to the Agency in due time.

The Monitoring and Evaluation team also visited The NASENI Skills Acquisition Centre, Zangon Daura, Katsina State and met the consultants, contractors and workers on site.

Inspecting the project which consists of a Gate House and Perimeter Fence, an Administrative Block, Skill Acquisition Workshop Phase 1 and Skill Acquisition Centre Phase 2, the team was also briefed about the security challenges bedeviling the area.

With the perimeter fence already completed, the consultants explained all that was done to provide adequate security to the equipment and structures on site. The NASENI Skills Acquisition Centre when completed will provide job opportunities for youths, create wealth and promote national growth and development.

Halilu Visits MOMAS Factory for Collaboration on Home Grown Solutions

The EVC/CEO recently paid a visit to MOMAS factory—a top tech solutions provider in Nigeria where innovation is transforming power management.

MOMAS is the pioneering indigenous company to deploy, install and manage a prepayment metering solution for Nigeria's Power Holding Company, formerly known as the National Electric Power Authority.

The company has successfully executed numerous turnkey projects within the power sector, showcasing commendable achievements that have established it as a smart and reliable service provider known for its innovation, research, and development capabilities. Its success is underscored by its highly skilled workforce.

The EVC stated that there was the need to visit the factory and he was excited. "I was excited to see that their work aligns with NASENI's vision for smarter, efficient and homegrown solutions for Nigeria", he remarked.



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Construction work at New AMEDI Obudu Nears Completion

By Ayotunde Adeniji, Abuja



Construction work at the new Agricultural Machinery and Equipment Development Institute (AMEDI) located in Obudu, Cross River state, a development institute under the National Agency for Science and Engineering Infrastructure (NASENI), is near completion.

The project was conceived in 2022 and the groundbreaking was also done in the same year. One of the goals of AMEDI is to revolutionize Nigeria's agricultural sector by introducing mechanized farming and to automate processing of farm produce toward achieving value addition and help to carry out repairs and servicing of existing farm machineries.

It is hoped that the upscaling of farm machineries and products by AMEDI will help guarantee food security in the South-South geo-political zone and its environs, which is one of the cardinal focuses of President Bola Ahmed Tinubu's Renewed Hope Agenda.

The Monitoring and Evaluation team from NASENI headquarters carried out an inspection visit to the institute on February 20, 2025, to assess the level of work done on the 20 hectares of land. The team was received by the Project Manager, Dr Oluwaseyi Ogungbenro and the site contractor and was conducted round the facilities to see things for themselves.

Apart from the gate house, there were five standing structures at various stages of completion. The Administrative building has been completed, Workshop 1 has been completed, Workshop 2 was at 85 per cent completion, the Training Complex was at 50 per cent completion and the Virtual Manufacturing Laboratory at 65 per cent completion.

Institute News

AMTDI Trains Staff on Procurement Planning

By Akeem A. Olajuwon, Jalingo

The Advanced Manufacturing Technology Development Institute (AMTDI), Jalingo, Taraba state, has held a two-day capacity building training for its 2025 Procurement Planning Committee members to keep them in touch with Public Procurement Act.

The training anchored by the Head of Procurement Unit, AMTDI, Mr. Abdulsalam Akanbi covers amongst others, the Overview of Public Procurement Act (PPA) 2007; Understanding the Public Procurement Process, Procurement Planning, Procurement Methods and Approval Thresholds.

The committee, which is chaired by the Overseeing Officer, Engr. Salami Saliu has members from the Admin and Human Resources Department; Manufacturing Services Department; Research and Development Department; Finance & Accounts Department; Planning, Monitoring and Evaluation Unit; Internal Audit Unit; Procurement Unit.

The Deputy Director/Head, Planning Monitoring & Evaluation Unit, Mr. Barkindo Abdulrahman Bawuro, who represented the Overseeing Officer at the event, lauded the initiative and encouraged all members to imbibe the procurement practices as enshrined in the Procurement Act.

SEDI Enugu, Firm Sign MoU to Boost Solid Minerals Processing

By Ugochukwu Okoye, Enugu

The Acting Managing Director/CE, Scientific Equipment Development Institute (SEDI), Enugu, Engr. Dr. Lois Onyejere Nwobodo has signed a Memorandum of Understanding (MoU) with Joojo Gloservices Limited to boost production of mining equipment and machinery.

The agreement signed on Friday, February 28, 2025 will focus on processing of minerals such as gold, furnaces for foundry operations for quality control and quality assurance. The management of Joojo Gloservices Ltd, represented by Mrs. Jeskaya Onu expressed satisfaction with the technical capabilities on display at the Institute.

The Acting MD/CE of SEDI Enugu assured the delegation that SEDI would implement her own terms of the MoU as it has several decades of experience in the production of equipment and machinery for artisans, small and medium scale industrial usage.

Institute News

PEDI, EMDI to Produce Rocket Engine Parts for AAELab

By Omowumi M. Oladele, Ilesha and Adebare Ahmed, Akure



Advanced Aerospace Engines Laboratory (AAELab) team at EMDI.

The management of the Prototype Engineering Development Institute (PEDI), Ilesha and the Engineering Materials Development Institute (EMDI) are set to collaborate with the Advanced Aerospace Engines Laboratory (AAELab) on fabrication of Solid Rocket Engine Combustion chamber and materials selection and project development.

The Overseeing Officer of PEDI, Mr. Hamzat Ahmed Olaoye and his team, as well as the Overseeing Officer of

EMDI, Akure, Mrs. Fausat Olumide Yusuf and her team welcomed the AAELab delegation separately and assured them of maximum working relationship. AAELab is a division of the National Space Research and Development Agency (NASRDA), and is based at Oka-Akoko, Ondo State.

Head of Research and Development, AAELab, Engr. Dr. Lawal Ismaila said their focus was to have a Solid Rocket Engine Combustion Chamber and other Components and Pressurized Tank for Cold Gas Thruster fabricated for them by PEDI, stating that they would prefer to have a rocket chamber that is lighter and able to withstand temperature.

The Overseeing Officer of PEDI, Mr. Olaoye thanked AAELab delegation for coming while assuring them that PEDI would, as always, demonstrate expertise in delivering on their request.

At EMDI Akure, the AAELab team presented prototypes of critical projects, including a Combustion

Chamber, Solid Rocket Motor and Pressurized Tank for Cold Gas Thruster, highlighting AAELab challenges and sought EMDI's expertise in materials selection to overcome these hurdles.

Responding to the presentation, Mrs. Yusuf assured the AAELab team that EMDI would work on the projects and deliver on schedule assuring that the partnership underscores EMDI's commitment to advancing Nigeria's science, technology and engineering infrastructure, as mandated by the National Agency for Science and Engineering Infrastructure (NASENI).



Advanced Aerospace Engines Laboratory (AAELab) team at PEDI.

EMDI Delivers Maize Dehusking, Shelling Machines To Fadama Ondo-Cares Clusters

By Adebare Ahmed, Akure

In a significant step toward boosting agricultural production in Ondo State, the Engineering Materials Development Institute (EMDI), Akure has delivered two units of Maize Dehusking and Shelling Machines to two clusters of the FADAMA Ondo-CARES programme to enhance efficiency and productivity of maize.

The Maize Dehusking and Shelling Machines are designed to ease the labour-intensive process of maize production, allowing farmers to focus on other critical aspects of their work. With these machines, farmers can

expect to increase their productivity and efficiency, ultimately contributing to the growth of the Ondo State agricultural sector in particular and the nation in general.

The EMDI team led by Engr. Mrs. Akinseloyin, comprised Engr. Mrs. Taiwo Adenike Oni, Mr. Lawrence Samson Ajayi, Mr. Ayeni Olayinka Joseph, Mr. Abel Yusuf and Mr. Smith Ademoyejo were received by Mrs. Foluke Daramola, Permanent Secretary of the Ondo State Ministry of Agriculture and Mr. Olatunji Olusiji, State Project Coordinator of FADAMA Ondo-CARES.

Other dignitaries present at the occasion included Mr. Ayokunle, Facilitator of the Ose group, Engr. Temenu Charity, Desk Officer on Asset and representatives of the beneficiary clusters, Okeluse and Imeri, both located in Ose Local Government Area (LGA). The clusters were represented by their coordinators, Ifelolu FCA (Okeluse) and Olaniyan FCA (Imeri).



features

Unlocking SEDI-Minna's New ICT Training/CBT Facility Potentials

By Jummai Kandi Mohammed, Minna



SEDI-MINNA ICT Training/CBT Facility

The recent commissioning of the Information and Communication Technology (ICT) Training/Computer-Based-Testing (CBT) facility by the management of the Scientific Equipment Development Institute (SEDI), Minna, a division of the National Agency for Science and Engineering Infrastructure (NASENI), marks a huge milestone in Nigeria's quest for technological growth.

With an estimated 700-seat capacity, state-of-the-art infrastructure and modern technologies such as Close Circuit Television (CCTV), an efficient server room and other standard ICT equipment, this facility is poised to become a hub for ICT training and professional development soon. Its establishment is in line with NASENI's mandate to drive innovation, build local capacity, improve digital literacy and promote sustainable development through science and engineering infrastructure in the Nigerian technological industry.

The significance of this facility cannot be overstated as ICT skills are critical for economic growth, job creation and global competitiveness in a rapidly digitizing world. The provision of a world-class training environment initiated by SEDI was to address the skills gap in Nigeria's workforce and empower the Institute's staff with the technical expertise needed to thrive in the digital economy.

This initiative was carefully executed to produce many ripple effects, part of which was dubbed as "Train the Trainer", where competent staff who eventually sharpen their digital skills effectively could be deployed as resource persons, as the facility currently boasts of a capacity to host large-scale training programmes.

This makes it a strategic asset for upskilling professionals, students and entrepreneurs in areas such as software development, cybersecurity, data analysis and digital literacy. This, in turn, will contribute to Nigeria's goal of becoming a knowledge-based

economy.

Beyond its educational impact, the ICT facility presents a significant revenue-generating opportunity for SEDI-Minna. With its modern infrastructure and large seating capacity, the centre can attract partnerships with government agencies, private sector organizations and international institutions.

A good example is how the facility can be leased to examination bodies such as the Joint Admission and Matriculation Board (JAMB) and the West African Examinations Council (WAEC) for large-scale computer-based testing that are conducted annually. It can also serve to host certification programmes, workshops and conferences, charging fees for participation from professional certification bodies.

Additionally, the facility can offer specialized training programmes tailored to the needs of industries such as banking, telecommunications and healthcare, creating a steady stream of income. The inclusion of a server room also opens the door to offering cloud services, data storage and hosting solutions to businesses, further diversifying revenue streams. Moreso, the facility can serve as a testing and certification centre for ICT professionals, where partnership can be created with global certification bodies to administer exams and issue credentials. This would ultimately position SEDI-Minna as a leader in ICT education and certification in Nigeria.

This ultramodern facility at SEDI-Minna is reckoned as a game-changer for Nigeria's technological development. It could bridge the skills gap and create sustainable revenue streams, embodying NASENI's vision of leveraging science and engineering infrastructure for national development.

Photo News



The visit of the EVC/CEO NASENI, Khalil Suleiman Halilu to the Minister Counsellor, Mr. Wang Yingqi at the Chinese Embassy for a collaborative engagement in renewable energy for the acceleration of industrial growth.



The EVC/CEO hosted the Deputy Governor, Economic Policy, Central Bank of Nigeria (CBN), Mr. Muhammad Sani Abdullahi and had fruitful discussions on NASENI's indigenous innovations such as E-Vehicles, Solar irrigation pumps, innovation Hub, Hatch Box, etc.



The EVC/CEO showcases one of the results of the collaborations- the ECO Green Bus for a cleaner future to scale the innovations and make clean energy accessible to all Nigerians.



Photos from NASENI sponsored Strategic Focus Groups Meeting on Made-In-Nigeria products held in Awka, Anambra State.



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