

Kaduna, Kano & Bauchi Govs Visit Indorama Fertilizer Plant

...Indorama to set up Fertilizer Centre in Kaduna



INDORAMA - NIGERIA

IMPACT

In-House Magazine of INDORAMA-Nigeria

ISSN NO: 2449-0679 • Jan. - April, 2016

www.indoramaefeme.com

Indorama's World-Class Fertilizer Plant Set for Inauguration



INSIDE

**Indorama Achieves
10 Million Man-hours
without Lost-Time Injury**

**Tuberculosis:
The Silent
Killer**



Message from the MD/CEO

Dear all, after 36 months of construction work and surmounting of various challenges, I am glad to announce that we have successfully completed three mega projects we started in 2013. They have gulped a whopping US\$1.5 billion as at today.

The projects are our world-class fertilizer plant with capacity for 1.4 million metric tonnes of Urea fertilizer per annum, which is the world's largest single-line Urea plant; an 84-kilometer gas pipeline to supply feedstock to the plant; and a port terminal at Onne Port Complex here in Port Harcourt that would enhance our export of fertilizers to various parts of the world.

These projects have great socio-economic potential for Nigeria. Fertilizer is a highly needed product in Nigeria, yet over the years, the Nigerian Government has always spent huge foreign exchange importing fertilizers for farmers.

Now, Indorama has filled the gap. We will be producing and supplying farmers across the country with high quality fertilizers, and would indeed be exporting about one million tonnes of fertilizers to different parts of the world.

By so doing, Indorama will make Nigeria a net exporter of fertilizers, and put the country on the fertilizer map of the world; and would ultimately boost Nigeria's foreign exchange earnings, and add about US\$1 billion to Nigeria's GDP.

Besides, all the three projects will create thousands of direct and indirect jobs; increase tax and VAT revenues for government and its agencies; and enhance the well-being of host communities.

I congratulate all our team members for this feat achieved in record time. I also appreciate all our partners and stakeholders who have supported us in diverse ways.

Welcome to this edition of our **IMPACT** magazine which has captured everything in exciting stories.



Manish Mundra
MD/CEO, Indorama-Nigeria



Letters to the Editor

Goodwill message from GTBank

This is to acknowledge the receipt of **IMPACT** Magazine (Oct-Dec, 2015) sent to our Managing Director (**Mr Segun Agbaje**). He has asked us to convey his impressions of the publication. It is quite a rich and delightful read.

We are particularly excited about the progress of work on the **INDORAMA'S BRAND NEW FERTILIZER PLANT** which is scheduled to be commissioned soon.

We also want to use this medium to congratulate your MD (**Mr Manish Mundra**) on his re-election as a National Council member of the Manufacturers' Association of Nigeria. This is undoubtedly an attestation of the leadership skills inherent in your organisation.

We would also like to congratulate you on your successful outing at the **Made-in-Nigeria Expo** which held in both Lagos and Port Harcourt. We are indeed very happy to be closely associated with the Indorama Group.

Adebowale Bakare & Eno Ukpe
Corporate Banking Group
Guaranty Trust Bank

We're excited about Indorama efforts

I am directed to acknowledge receipt of the October 2015 Special Edition of **Indorama – Nigeria Impact** Magazine titled "**Nigeria @ 55.**"

The Director General appreciates Indorama's efforts in providing the necessary raw materials for the local plastic industry, hence reducing the burden of importation on some materials used by over 350 companies in the sector. It is also exciting to note that there is great hope for the Nigerian farmer with soon-to-be-commissioned fertilizer plant. This would further speed up industrial development and grow the nation's economy.

Please accept the assurances of the Director General's highest regards.

Mrs E. S. Dashe
For: Director General/Chief Executive Officer
Raw Materials Research & Development Council
(RMRDC)

Federal Ministry of Environment commends Indorama

I am directed to acknowledge with thanks the receipt of your Special Edition **Indorama-Nigeria Impact** Magazine.

I am also to commend the effort of your company for coming up with the magazine. Please, accept the highest regards of the Permanent Secretary.

I. A. Ekie
For: Permanent Secretary
Federal Ministry of Environment, Abuja

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Editor's Note

Our current edition comes with a bang! It contains so many stories and articles that are very informative, educative and entertaining. The main focus is the world-class Indorama fertilizer plant, which has been completed and ready for commissioning soon.

On almost daily basis, the 1.4 million MTPA capacity plant is attracting Very Important Personalities (VIPs) including members of the National Assembly, state governors, top officials of regulatory agencies, ambassadors, dealers in fertilizers, etc. Some of these visits have been captured in this magazine.

Another big story in the magazine is the 10 million man-hours without Lost Time Injury (LTI) achieved on the 14th of March by Indorama Eleme Petrochemicals. It is a milestone that is highly celebrated in industrial and construction circles.

The magazine also contains articles that will impact positively on our readers. These include the pieces on Healthcare (Tuberculosis: the silent killer), career success and environmental protection.

I am very sure you will find the magazine very interesting.

Josy Nkwocha
Josy NKWOCHA, PhD, FNIPR
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Published by
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Printed by
Biz Pages Limited
 37 Wagon Street, 8-Line, Port Harcourt,
 (0803102821, 08068431755, 08055807709)

Editors Visit Indorama Fertilizer Plant, Port Terminal

Eleven editors from Nigeria's national newspapers in Lagos and Abuja, on Thursday, 17th March, 2016 visited the Indorama Fertilizer plant and the Indorama-OIS Port Terminal at Onne Port, which are ready for commissioning soon. After a tour of the two mega projects, the editors engaged the Managing Director, Mr. Manish Mundra, in an interactive session.

On arrival at the expansive Indorama Petrochemicals complex, the editors were promptly taken on a tour of the world-class fertilizer plant with capacity for 1.4 million metric tonnes per annum (MTPA) of Urea fertilizers. They visited the Ammonia, Urea, Offsite and Utilities sections as well as the Control Room, the Ammonia Storage tank, Urea Storage Warehouse and the Loading Bay.

Technical head of the Fertilizer plant, Mr. Swapan Kumar Das who conducted the editors round the plant said the project includes 4,000 metric tonnes per day (MTPD) Urea Plant; 2,300 MTPD Ammonia Plant; 4,000 MTPD Urea granulation plant with associated offsite facilities and utilities including water, gas and power.

Mr. Das informed the editors that the entire project, which took 36 months to complete, has state of the art facilities and equipment and is indeed the world's largest single-train gas-to-Urea plant, which would turn Nigeria into world-scale fertilizer producer and exporter.

According to him, the plant is energy-efficient and has the latest technologies from world class process licensors namely KBR of United States of America and Toyo Engineering of Japan.

"The Ammonia plant has KBR's Purifier Ammonia Process Technology. KBR is the leading global technology service provider. The Urea plant has Toyo's Urea Synthesis Process Technology, i.e. ACES 21 Technology. The Urea Granulation plant has Spout Bed Fluidizing Technology," Mr. Das said.

According to him, the introduction of these technologies makes the Indorama Fertilizer plant a world class facility.

"You can see that most of the critical sections such as the central control room, Ammonia and Urea Cooling Towers, Utility Boiler, Air Compressor, the Primary reformer, Secondary

Reformer, Granulation, Material handling system etc. are all working and undergoing pre-commissioning activities,' he said.

A 25-minutes' drive from Indorama Complex took the

editors to Onne Port where the Indorama-OIS terminal is located. The Port manager, Mr. Peter Hester and his team conducted the editors round the terminal, which has state-of-the-art facilities and equipment to enhance efficient port operations.

According to Mr. Hester, the terminal has facilities for exporting dry bulk Urea fertilizer, as well as serves for import and export of various types of break-bulk and containerized cargo.

The terminal comprises marine facility of 320 meters quay to handle vessels ranging from 5000 dwt (deadweight) to 35000 dwt and 6.20 hectares of land terminal facility catering to handling and storage of dry bulk urea, break-bulk cargo and containerized cargo.

Mr Hester said the



Mr. Das (right), technical head of the fertilizer plant explains a point to the editors at the Urea plant.



Mr. Hester, the port manager points to something of interest as he conducts the editors round the Indorama-OIS port terminal in Onne.



Mr. Manish Mundra,
MD/CEO of Indorama Nigeria
addressing the visiting editors.

Domestic Product (GDP). He said that about one million metric tonnes of the Urea fertilizers will be exported while 400,000 metric tonnes will serve the domestic market.

The fertilizer project, he said, would therefore make Nigeria a world-scale producer and net exporter of fertilizers, and contribute significantly to Nigeria's ailing economy, the agricultural sector and employment generation. He said the first set of 30 young Nigerian engineers have been trained in India to compliment the expatriates in running the plant efficiently.

In a vote of thanks, Mr. Philip Isakpa, Editor/ Executive Director of **Businessday Newspaper** wondered how Indorama was able to achieve such feat of completing three mega projects on record time while such successes elude other organisations in Nigeria.

"We thank Indorama for giving us the opportunity to see these projects and what is possible in Nigeria if the right things are done at the right time" he said.

Other editors who attended the industrial visit included Onuoha Ukeh, editor of **SUN**; Chika Amanze-Nwachukwu, group energy editor of **Thisday**; Clara Nwachukwu, group energy editor of **Vanguard**; Sunday Ogufere, political editor of **The Guardian**; Olisa Egbunike, executive editor of **Independent**; Eniola Ashaolu, Executive editor of **Daily Trust**; Stanley Kingsley Nkwocha, editor of **Leadership**; Thomas Imonikhe, editor of **Champion** and Balarabe Ladan, editor of **Aminiya (Hausa-language newspaper)**.



Night View of the plant

We thank Indorama for giving us the opportunity to see these projects and what is possible in Nigeria if the right things are done at the right time

terminal is self-contained with facilities such as power generation, water, waste water treatment and disposal and other utilities like fuel storage, water bunkering, fire-fighting, workshop, administrative building, amenities and security, etc.

The editors returned to a "Question and Answer" session with the Managing

Director, Mr. Mundra who confirmed to them that the projects (fertilizer plant, gas pipeline and port terminal) cost \$1.5 billion which is one of the biggest Foreign Direct Investment (FDI) in Nigeria.

Mr. Mundra stated that the fertilizer plant in full operation will add about \$1 billion to the nation's annual Gross

Gov. El-Rufai Elated as Indorama Sets Up Fertilizer Centre of Excellence in Kaduna!

Governor Nasir El-Rufai of Kaduna State visited the multi-million dollar Indorama Fertilizer plant in Port Harcourt on Friday, 19th February, 2016, and commended Management of Indorama Eleme Fertilizer & Chemicals Limited (IEFCL) for completing such a gigantic \$1.4 billion project within three years.



Mr Mundra explains a point to **Gov. El-Rufai** as he conducts the governor and his entourage round the fertilizer plant.

Most importantly, Gov. El-Rufai expressed delight at Indorama's proposed Centre of Fertilizer Excellence in Kaduna, to serve as the Northern hub of Indorama Fertilizer. The ground-breaking ceremony for the Centre is expected to take place on April, 2016 in Kaduna; and would signal a glorious phase in fertilizer distribution and application in the Northern states.

Managing Director/CEO of IEFCL, Mr. Manish Mundra who received the Governor and other top officials of the Kaduna State Government, made a presentation on various phases of the construction of the fertilizer plant and its expected benefits to the Nigerian economy, especially the agricultural sector and the creation of employment

opportunities in the country.

Mr. Mundra also took Gov. El-Rufai and his entourage on a guided tour of different sections of the plant, including its state-of-the-art control room, Ammonia section, Urea section, central storage system, as well as the plants and facilities of Indorama Eleme Petrochemicals, etc.

The MD informed the guests that the fertilizer plant, which is the world's largest single-line Urea facility, has capacity for 1.4 million metric tons of nitrogenous fertilizers per annum. This world-scale capacity would satisfy the demands of Nigerian farmers nationwide while the surplus would be exported to other countries.

According to Mr. Mundra, Indorama fertilizer would turn Nigeria from a net

importer of fertilizers to a net exporter of the product with great impact on Nigeria's balance of trade and GDP.

Indorama, he said, commenced the construction of the plant in April 2013 with funding from the International Finance Corporation (IFC), and completed the project in the First Quarter of 2016 on record time!

Gov. El-Rufai said he was overwhelmed with the reality of the gigantic plant as well as how Indorama revitalized the old Eleme Petrochemicals and turned it into a profitable business.

According to him, there were three lessons to be learnt from the Indorama success story. Firstly, the privatisation of the old Eleme Petrochemicals was done right – acquired by the right kind of investors with technical capacity.

Secondly, success is possible in Nigeria if the right things are done. Thirdly, visionary Organisational leadership coupled with government and community support will enhance socio-economic development of Nigeria.

"I wish to congratulate you (Mr. Mundra) and your team for this excellent job. I have gone round the plant. It shows me what is possible in Nigeria if we work as a team. If it is possible to do this, then nothing is impossible here.

"I suggest that all our state governors and ministers should visit this place and see what Indorama has done. You have put Nigeria on the global map of petrochemicals and fertilizers in so short a time!

"This administration (of President Buhari) will give you all the support you need. I will be very glad if Mr. President could come here personally to commission this plant and see what you have done," Governor El-Rufai said.

The Governor promised that, having heard and seen what Indorama has done since privatisation of Eleme Petrochemicals in 2006, he would be an advocate of the company's plan to make Nigeria a petrochemicals hub of Africa by 2019.

On the establishment of the Indorama Centre of Fertilizer Excellence in Kaduna, the Governor said he was elated at the plan which would revolutionise agriculture in the Northern states and Kaduna in particular.

"We will support this project fully; and I am happy it will help our farmers to have access to quality fertilizers at moderate cost," he said.

Top officials of the Kaduna State Government who accompanied the Governor on the visit include Alhaji Nafiu Baba Ahmed, Hon. Advisor to the Governor; Dr. Manzo Maigari, Hon. Commissioner for Agriculture & Forestry; Alhaji Bashir Seidu, Hon. Commissioner for Local Government and Alhaji Jimmy Lawal, Senior Special Adviser to the Governor.

“Seeing is Believing!” — Kano State Governor Visits World-Class Indorama Fertilizer Plant!

To the Governor of Kano State, Dr. Abdulahi Umar Ganduje, his visit to the world-class Indorama Fertilizer plant in Port Harcourt on Saturday, 20th February, 2016, was an eye-opener to him and his top government officials.



Governor Ganduje touches some pellets of the polymer resin at the IEPL Bagging section while the **MD, Mr. Mundra** explains a point to the governor and his entourage.

“Seeing is believing,” he exclaimed after a detailed tour of the \$1.4 billion fertilizer plant, which is the world’s largest single-line Urea facility with capacity to produce 1.4 million metric tons of fertilizers per annum.

Managing Director/CEO of Indorama Eleme Fertilizer & Chemicals Limited (IEFCL), Mr. Manish Mundra and other top Management of the company had received the Governor and his team; and made a presentation on the fertilizer plant to the guests. Thereafter, the MD also conducted the guests round the fertilizer plant and other facilities of Indorama Eleme Petrochemicals.

Governor Ganduje spoke after the plant tour and said he was very impressed with what he saw, adding that Nigeria has a lot to gain from Indorama’s acquisition of the old Eleme Petrochemicals; and the company’s expansion into other ventures such as PET and fertilizers.

“Thank you for inviting the Kano State Government to visit this plant. We are

indeed fascinated by what we have seen. If all Federal Government privatised enterprises can be run in this manner, then, our economy would be the better for it,” Governor Ganduje said.

“I wonder what would have happened if the old Eleme Petrochemicals was not privatised and acquired by competent hands. Today, Indorama Eleme petrochemicals Limited is indeed a success story,” he said.

Governor Ganduje stated that Indorama is playing a major role in the socio-economic development of Kano State because most of the companies in the state use raw materials from Indorama. “Indeed, Indorama is the economic backbone of Kano State,” he revealed.

True, many industries in Kano State in the plastics, paints, breweries, bottling, pharmaceutical sectors use various grades of Polyethylene, Polypropylene and PET resins supplied by Indorama Eleme Petrochemicals.

The Governor said he was also

confident that when the Indorama fertilizer is commissioned soon and becomes operational, the supply of fertilizers to the state would also improve drastically. “Our farmers, indeed, are waiting for Indorama fertilizers”, he said.

Alhaji Ganduje stated that the State Government takes agriculture as its Number One priority and would like a partnership with Indorama Eleme Fertilizer & Chemicals Limited to ensure sustainable supply of fertilizers to farmers in the state.

Other top officials of the Kano State Government on the trip included Dr. Nasiru Yusuf Gawana, Hon. Commissioner for Agriculture; Hon. Rabi'u Bako, Hon. Commissioner for Commerce & Industry; Alhaji Hailu Dantiye, Director-General (Media); Hajiya Binta Rabi'u, Permanent Secretary in the Ministry of Agriculture; Comrade Bala Inuwa, Managing Director of the Kano Agricultural Supply Company Limited, among others.



Mr. Mundra (left) showing **Gov. Abubakar** some products made from polymer resins at the company's product display room.

Governor Mohammed Abubakar of Bauchi State: Lover of Agriculture & Indorama Fertilizer!

Although he is a lawyer by profession, he says he likes agriculture a lot. And he finds himself in Bauchi State, an agrarian terrain, that requires plenty fertilizers for farmers to increase their yield and their earnings.

This is the story of Barrister Mohammed A. Abubakar, Governor of Bauchi State who visited the Indorama fertilizer plant in Port Harcourt on Monday, February 22, 2016 to seek ways of partnering with Indorama Eleme Fertilizer & Chemicals Limited (IEFCL) to enhance fertilizer supplies to his state and revolutionise agriculture there.

To show the seriousness of his desire, he came on the trip with the Hon. Commissioner for Agriculture, Dr. Yusuf Mahmood; Alhaji Abubakar Gazali and the Chairman of Bauchi State House of Assembly (BAHA) Committee on

Commerce and Industry, Hon. Kasimu Idi, among others.

Managing Director/CEO of IEFCL, Mr. Manish Mundra received the Governor and his officials and took them straight to the fertilizer plant to see for themselves the miracle of technology combined with human expertise and vision.

Gov. Abubakar was not disappointed. He saw a humongous project, diligently executed to boost the cause of humanity --- food security, employment generation, social well-being, among others. He was elated to hear that the fertilizer plant has capacity

to produce 1.4 million metric tons of Urea per annum.

At every section of the plant, Governor Abubakar and his team asked various questions about the operations of the plant, its raw materials, how much it took to build such a huge plant and what it would take to run such a facility successfully on sustainable basis. Answers to these questions were provided him by the engineers who were on hand to receive him.

On the issue of funding, Mr. Mundra informed him that the project was funded through a loan of \$1.2 billion from the International Finance Corporation (IFC) and some other local and international financial institutions. Value of this loan has since gone up to over \$1.4 billion as a result of the forex crisis in the country.

He also informed the Governor that the company has simultaneously completed an 84-kilometre gas pipeline to supply gas to the plant, which is raw material for producing fertilizers. He further informed him that the company has also completed a port terminal at nearby Onne Port to help in evacuating the fertilizers for export.

It was indeed an exciting plant tour, and the Governor spared some time to speak about his impressions of the visit to Indorama.

The Governor said he was simply elated. "I had known Eleme Petrochemicals from a distance before privatisation. I have also heard so much about Eleme's success story post privatisation.

"Coming here today, I have seen for myself the great benefits of privatisation. I have seen many other privatised firms, none of them is flourishing like Indorama Eleme Petrochemicals.

"What excites me most is your fertilizer project, your agricultural revolution plans through Indorama fertilizer. The Bauchi State Government will partner with you in this regard to ensure that we get enough fertilizer supplies for our big and small farmers.

"Currently, we are reforming our land management to attract more investors. Being an agrarian environment, most of the investors would come in the area of agriculture.

"Although I am a lawyer, I have great interest in agriculture because it is our next economic destination after oil," Governor Abubakar said.

IEPL Achieves 10 Million Man Hours Without Lost Time Injury!

Indorama Eleme Petrochemicals Limited (IEPL) on Monday, 14th March 2016, added a new feather to its cap of feats and accolades. It achieved 10 million man-hours without Lost Time Injury (LTI) – a milestone that is highly celebrated in plant operations,

construction and other allied activities.

Mr Pradeep Pawar, head of the Safety department who announced this cheering news to all staff of the company said achieving 10 million man-hours "is an excellent achievement which demonstrates our collective efforts

and commitment to incident-free operation."

He further stated that "the accomplishment is particularly impressive given the enormous scope of work and number of personnel involved."

According to him, "each employee has shown a collective approach and professional attitude to Health and Safety and teamwork ethos which have been key factors in our company's safety record to date."

Mr. Pawar said Management encourages all employees and contractors to continue using safe work practices, "whether you are working at operations or office / support facilities."

"With every workforce member staying focused on incident-free operation we can send everyone home safely to their families," he said.

Mr A. B. Rao, Technical Head of IEPL said the 10 Million Man-Hours is another manifestation of the company's high premium on Health, Safety and Environment (HSE) policies, procedures and practices.

He congratulated all members of the Indorama-Nigeria team, especially all the Safety Ambassadors and HSE Coordinators, for making the achievement possible.

Recently, the company for the third time won with Distinction the International Safety Award organised by the British Safety Council (BSC). IEPL is a current holder of International Standard Organisation's ISO 18001 in occupational health and safety (OHSAS).



Mr. Pradeep Pawar (middle, top photo), head of Safety department and his team salute the achievement.



Fire Men from the Safety department celebrates the milestone.

House of Reps' Committee on Privatisation Visits Indorama to assess its progress

Members of the House of Representatives' Committee on Privatisation and Commercialisation were in Indorama Eleme Petrochemicals Limited (IEPL) on Friday 4th December 2015 on routine oversight to see the level of progress of privatised enterprises in the country. The Committee chairman, Hon. Ahmed Yerima who led other members on the visit aid it was part of its first nation-wide physical inspection of privatised enterprises to familiarize members with the organisations, their successes and challenges.

Other members of the Committee who were on the trip included Hon. Shadimu Mutiu, Deputy Chairman; Hon. S. Ezeonwuka, Hon. Ayode Olubenga, Hon. Maina Lawan, Hon. Babatunde Kolawole, Hon. Abdullahi Ibrahim, Hon. Shehu Saleh, Hon. Oji Chimie, Hon. Abdullahi Gaya,

Also on the trip were Hon. Oladimeji Ayodele, Hon. Aliyu Pategi, Hon. Lovette E. Idisi, Hon. Sunday Marshall, Hon. Francis Charles, Hon. Abdul Aziz Muazu Mafinda, Mrs Florence Olarewaju, Mr. Yayale M. Bello, and Mr. Inyang Etim, the Committee Clerk.

Hon. Yerima said that the visit was also meant to assess performance of each privatised firm and ensure that they operate in conformity with the norms, rules and regulations guiding them to ensure that they contribute fully to the socio-economic development of the nation. The guests were warmly received by Mr. A. B. Rao, Technical Head of IEPL and other top Management team.

Mr. Rao who represented the Managing Director, Mr. Manish Mundra made a presentation which chronicled the various stages of the company since it was privatised in 2006, and the successes recorded by the company as well as the challenge of poor supply of natural gas (NGL) which is the feedstock for the company's production.

Notwithstanding the challenges

facing the company, Mr. Rao noted that the company has continued to add tremendous value to the Nigerian economy through employment opportunities, provision of raw materials to companies and payment of dividends to the Federal Government, Rivers State Government, the host communities and the employees of the company.

"It would interest you to note that we have also carried out expansion projects in the areas of PET resins, fertilizer plant, port terminal and gas pipeline," he said.

"We are very glad to inform you that Indorama Eleme Petrochemicals is a success story of the Federal Government privatisation program," he said.

"It would also interest you to know that the Rivers State Government showcases Indorama as a role model for other investors coming into the state," he added.

The Committee members were informed that Indorama Eleme petrochemicals Limited operates an excellent Public Private Partnership (PPP) model which has created a strong synergy with its stakeholders.

After the detailed presentation, the Committee members also went on a guided tour of the plants to see for themselves the progress recorded by the company.

After returning from the plant tour, Hon. Yerima said: "We have seen and we are convinced. We are happy with the

progress you have made so far. We are equally elated about your new projects especially the new world-class fertilizer plant".

"Our Committee is very happy about the new the investments because they will create more employment opportunities for Nigerians, provide raw materials for our industries and agriculture as well earn foreign exchange through exports."

Hon. Yerima further stated that as a Committee, the members will help to address the company's problem of poor supply of NGL for its production.

"We will also want the government to create a conducive environment for your operations. As a Committee we will do our best to support your company to continue to create greater value for our economy," he assured.

In a vote of thanks, Mr. Jite Orimiono, Manager Industrial Relations, thanked the Committee members for making out time to visit the company. He assured the members that the company is highly committed to its obligations and creating more job opportunities for Nigerians.

He also thanked Mr. Ibrahim Kashim, a director who represented the Bureau of Public Enterprises (BPE) and Hon. Fineman Olungwe who represented the host communities, for being part of the event.



Chairman, Hon. Ahmed Yerima (left) at the IEPL boardroom with other members of the Committee namely Hon. Shadimu (Dep. Chairman), Hon. Ezeonwuka, etc



Officials and students of National Defence Academy in a group photograph with some top executives of Indorama during the study tour of the company.

National Defence College Visits IEPL on Study Tour

Students and officers of National Defence College, Abuja were on study tour of Indorama Eleme Petrochemicals Limited, on November 30, 2015. The visit was part of its tour of strategic establishments in the country which have linkages with national development and security. The team comprised of academics/support staff and participants of the National Defence College, Course 24.

Receiving the team on behalf of the management Mr. A.B Rao, Technical Head, said the company was happy and proud to play host to the august guests. He gave them a brief presentation on the story of Indorama Eleme Petrochemicals Limited (IEPL).

He said the company's success story is as a result of support from various stakeholders. Mr. Rao informed the guests that, as part of its expansion programme, the company has built and would soon commission its new world-class fertilizer plant.

The guests were treated to a detailed presentation by Dr. Jossy Nkwocha, Special Adviser to the Managing Director. He told the guests how Indorama emerged as the core investor and took over the company from

the Nigeria National Petroleum Corporation (NNPC) in 2006.

He highlighted various operations of the petrochemicals plant and its contributions to the Nigerian economy. He said IEPL operations have contributed immensely to the economic and social development of the country.

Dr. Nkwocha said the company is operating in a peaceful atmosphere due to its excellent Public, Private Partnership model (PPP), which has created a cordial relationship with its host communities who own 7.5% of the shares of the company.

In his remarks, Major-General A.A Tafa, the Deputy Commandant and Director of Studies at the National Defence College, who was the team leader said the visit would among other things afford them the opportunity to

understand the contributions of the company to national development as well as the challenges facing the company. Major-Gen. Tafa said the team and the College were grateful to the Management of the company for accepting to host them.

"I want to thank you most sincerely for the warm reception we have received this morning. May I use this opportunity to acknowledge the visionary leadership and purposeful drive of the Management of Indorama Eleme Petrochemicals Ltd," Major-Gen. Tafa said.

He stated that the team was impressed with the numerous contributions of Indorama Eleme Petrochemicals to the socio-economic development of the country and encouraged the company to do more.

He said the main objective of the College is to prepare selected senior officers from the military, Nigerian Police, Department of State Services (DSS), Para-military agencies, civil servants from strategic ministries, departments and agencies of the Federal Government for higher responsibilities.

He told Indorama officials that the College has also trained senior officers from other African countries, adding that indeed participants from 26 African countries have so far participated in the National Defence College programme.

In a Question and Answer session, the students asked various questions relating to petrochemical

Indorama Fertilizer Excites Delegates from Mali, Cameroun!

As the first pellets of Urea fertilizer roll out soon from the brand new Indorama Fertilizer plant in Eleme near Port Harcourt, some prospective consumers of the product from the West African sub-region have expressed their excitement that such facility has emerged in Nigeria.

On 12th and 13th February, 2016, Indorama Fertilizer team hosted delegations from Mali and Cameroun.

The Mali delegation comprised the President of the Mali Chamber of Commerce and Industry Mr. Ibrahima Doucoure and Mr. Modibo Kane Doucoure of DP Agro Industries SA of Mali, while the Camerounians were representatives of Afri-Nova SA Company and they included Mr. Mbomgnin Willy Gaby, Mr. Dongo Victor Guy Aime and Mr. Yomgne Kouokan Batrand.

The visiting teams were availed detailed tour of the Fertilizer plant, with Mr. Uday Chouhan and Mr. Naveen Sirohi explaining the magnitude of the project and the technologies deployed.

They were also taken on inspection tour of the complementary brand new port terminal in Onne, where Mr Peter Hester, the Port Manager highlighted Indorama's capacity to conveniently ship its high quality fertilizers to countries in the West African sub region and beyond.

The guests who were very impressed with the quality of the

facilities were so happy that such latest technology fertilizer plant with capacity to produce 1.4 million metric tons of Urea fertilizer is now within reach, and the possibilities it held for explosion of agriculture and food security in the region.

Mr. Gaby, one of the Camerounians, said: "we like what we

see, massive and well organized. You don't see projects like this often, especially in Africa".

Mr. Doucoure, President of the Mali Chamber of Commerce and Industry, in a discussion with Mr. Manish Mundra, Managing Director/CEO of Indorama-Nigeria also declared that they liked what their eyes have seen and expressed a desire to be given the honour to buy the first bags of fertilizers to roll out of the plant!

Mr. Mundra who expressed his happiness to receive them, assured them that fertilizers' roll-out from the plant was imminent. He stated the benefits of buying fertilizer from Nigeria instead of markets outside the continent since EOWAS imports are duty free.



Mr. Peter Hester (left), port manager of Indorama-OIS port terminal welcomes the Mali and Cameroun delegates to the complex.

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National Defence College Visits

operations, corporate social responsibilities, company and host communities' interface, contributions to national development and the challenges facing the company's operations

Col. Etun Etun, Nigerian Army participant in a vote of thanks, expressed a deep-felt appreciation to the management for the opportunity granted them to come and see the operations of a petrochemical plant. "On behalf of the team I want to thank you so immensely

for the opportunity you granted us out of your busy schedules to visit your premises on a facility tour.

He said the presentation and interactive session were very educative and stimulating; and had given them insight into the operations of the company and production of petrochemicals and its contribution to national development.

"Indeed, we have been well informed of the operations of your company and we believe the information

in our disposal would be helpful in our research studies" he enthused

In another Vote of thanks, Mr. Nyime Obuzor Oluka, Senior Manager Industrial Relations, thanked the guests for visiting the company. He said IEPL's success story has a lot to do with its relationship with the host communities.

He hoped that whatever the participants have learnt would be of great advantage to their research studies and the development of the nation.

“This award shows confidence in our Health & Occupational Health system!”

- Mr. A. B. Rao, Technical Head

For the third year running, Indorama Eleme Petrochemicals Limited (IEPL) has won the International Safety Award of the prestigious British Safety Council (BSC) with distinction. In this interview with Mr. A. B. Rao, Technical Head, he speaks on what the awards means to the organisation and other issues. Read on:

As Technical Head of Indorama Eleme Petrochemicals Limited (IEPL), how do you feel about this award?

Ans: I feel elated and proud with the announcement of our company, IEPL, winning this award in succession. This is the third straight year we have won this International Safety Award from this prestigious institution British Safety Council.

Only 30 organisations in the world achieved this feat i.e. scoring 60 out of 60 marks and getting this International Safety Award with Distinction’.

What really led to this success?

Ans: This is a culmination of hard work that we, as IEPL team, put in place since the last ten years after take-over of erstwhile Eleme Petrochemicals Company Limited (EPCL).

We have developed systems and practices, and demonstrated practising them successfully to several international

and local agencies such as Bureau Veritas, BSC, International financial institutions, local authorities like Department of Petroleum Resources (DPR), Federal Ministry of Environment (FMENV), the Federal Ministry of Labour, National Environmental Standards and Regulations Enforcement Agency (NESREA), NOSDRA, NNRA, etc. We have had several successful audits for the past six years from these agencies.

This has given us enough confidence to participate and win in International competitions such as this ISA which we have done for the past three years in a row.

What does this award mean to the company?

Ans: International safety award is a prestigious award of international repute. It is related to Occupational Health and Safety management at a specific site or business unit. The process is open to any Organization in the world and many do take part.

ISA is an invaluable award to our company and it'll be another feather in the cap of IEPL's long list of achievement since inception.

It not only endorses our company's safety and health management system but also demonstrates company's high standards set in the field of Occupation health & safety systems.

What are the processes that led to this award and who were involved? Were there other competitors?

Ans: The International

safety awards are open to any Organization and they are related to Occupational Health and Safety management at a specific site or business unit.

Organizations are required to demonstrate / present their occupational health and safety management systems through answering of 12 questions. This demonstration /presentation briefly elaborate on OH&S systems including results / outcome of implemented systems in particular year. This submission is on line with limitation of words.

In our organization, the process started in January '16 almost one month before final date of submission i.e. 15th February 2016.

We set up a team, comprising of HSEF heads, functional leads from PE & PP, who initially drafted answers to these 12 questions. The answers were moderated and fine-tuned with the support and guidance from QAQC and HR heads and the application was submitted online on 15th February '16.

The answers from all the participant organization were independently evaluated and marked by experienced health and safety practitioners and the results were announced.

There were a total of 460 organisations that took part in ISA-2016. The statistics are as follows. Only 30 organisations or 6.5% won the award with distinction while 241 organisations or 52.4% were awarded with Merit. 165 organisations or 35.9% were awarded Pass, while 24 organisations or 5.2% failed to qualify. It's heartening to note that we are among top 30 organisations that were qualified with distinction.

When were the awards made?

Ans: The awards were finally declared on 8th March 2016 and we received our confirmation of the 'International safety award with distinction' on 9th March 2016. We scored 60 out of 60 marks in the competition. I want to commend the entire Indorama-Nigeria team for this feat, and say "let's keep WINning!"



PHOTO SPLASH



Manish Mundra, MD (left) presents corporate souvenir to visiting Governor of Bauchi state, **Barrister Mohammed Abubakar**



Mr. Mundra, MD, takes **Governor Nasir El Rufai** of Kaduna state and his entourage around IEPL's Product Display Room



Mr. Mundra makes a presentation to Kano State Governor and his team on the successful completion of the fertilizer plant while some top executives of Indorama watch with rapt attention.



Mali delegates: **Modibo Kane Doucoure** of DP Agro Industries SA (Left) and **Mr. Ibrahima Doucoure**, President Mali Chamber of Commerce and Industry discuss fertilizer business with **Mr. Manish Mundra** (right) MD/CEO of Indorama Nigeria. With him are **Mr. Naveen Sirohi**, head of fertilizer marketing and **Anil Rana**, Technical Assistance to MD.



Mr. A.B Rao (3rd left) leads IEPL management team to present a corporate souvenir to **Hon. Ahmed Yerima**, Chairman House of Reps Committee on privatization and commercialization, and his deputy **Hon. Shadimu Mutiu**.



Group photograph of visiting House of Reps members with IEPL management.



National Defence College study tour: **Major General A.A Tafa**, team leader, addresses IEPL management on their mission to the company's complex, while other team members listen.



Mr. A.B Rao, Technical head, IEPL address visiting House of Reps members while other members of IEPL management look on



Question and Answer session: Visiting editors of National dailies seek to know more about Indorama fertilizer plant and port terminal



Mr. Manish Mundra, MD/CEO of Indorama-Nigeria addressing the visiting editors. With him are **Dr. Jossy Nkwocha**, head of corporate communications and **Mr. Naveen Sirohi**, head of Fertilizer Marketing.



Vote of Thanks: **Mr. Philip Isakpa** (standing), Editor/Executive Director Business Day newspaper gives a vote of thanks speech on behalf of his fellow editors



International Safety Award: Group photograph of **A.B Rao**, technical head (3rd right), **A.K Sharma**, head QAQC (4th right), **Pradeep Pawar**, head of Safety (2nd right) and **Dr. M. Jain**, head of Environment with some other team members who worked at the presentation for ISA 2016

Indorama Ladies Mark International Women's Day in Style

Female employees of Indorama - Nigeria, on Tuesday, 22nd March, 2016, marked the International Women's Day in style at the company's Recreation Club premises. They all turned out in colourful African attire to celebrate the United Nations declaration with the

theme: "A Pledge for Parity".

Comrade Joy Nwanosike, who holds the position of Woman-In-Pengassan read an address which called on government and organisations to accord women gender parity.

Guest speaker, Dr Mrs Chindo Nwankwo spoke on how women can achieve gender parity. Many important personalities attended the event including Mr. A. B. Rao, Technical Head, who represented the Managing director, Mr. Manish Mundra.



National, zonal and branch officers of PENGASSAN & NUPENG join in the cutting of the event's cake.



The IEPL ladies in their colourful attire

ICS-Indorama Senegal Organizes Distributors Forum

The Management of ICS-Indorama Senegal, a sister company of Indorama-Nigeria, has organised its maiden Marketing Forum, which drew 42 distributors of fertilizers and agro-chemicals from all parts of Senegal, also in West Africa. The company which is the largest industrial firm in Senegal produces NPK and DAP, which are the main fertilizers for farmers in the country.

The Distributors' Meet was held on Wednesday, 2nd March, 2016 at Hotel Good Radein Dakar, the capital of Senegal. Report from the company showed that both government programme and private distributors participated in the forum with great enthusiasm.

In his welcome address, CEO Alasson Diallo spoke on the positive contributions of ICS to the economy of the country and the benefit of Senegalese and West African farmers.

There was a screening of a corporate film on ICS-Indorama Senegal, which was highly appreciated by the participants.

Santosh Dorak of ICS Senegal spoke on the mission and vision for the West African region. He also discussed

various new initiatives taken during in 2015 in the interest of customers such as new weigh bridge and bagging line, etc.

The dealers were happy to see a power-point presentation of ICS Senegal and Urea Plant in Nigeria. Naveen Sirohi, Head Marketing; Mame Bow Sow, Head Production; and Abdolaye Dieye, Manager Commercial Senchim were also present on the occasion.

Participants at the Dealers' Forum



“Indorama is a Gold Standard for IMS Audits in Nigeria” - Lead Auditor

The management of Indorama Eleme Petrochemicals Limited once again subjected its management systems and processes to external audit from February 8 – 10 2016. After the surveillance audit, **Mr. Adeoye Soluade**, who led the Bureau Veritas team of auditors spoke with Indorama-Nigeria **IMPACT** on the auditing procedure and affirmed that IEPL has shown commitment to improvements.

Could you give us a brief introduction about yourself especially your pedigree, qualifications and years of experience?

My name is Adeoye Soluade, I am a graduate of 20 years now. I have experiences in technology, information technology and finance. I have qualifications that make me a management system auditor for quality, environment, occupational health and safety. I am also a member of the institute of Chartered Secretaries of United Kingdom and Nigeria. I am also a lead auditor trained for ISO 7001 which is information security and I am also an ISM Code auditor which is in Marine Management System.

As an auditor, I have gathered about 300 audits in both Nigeria and Ghana, and I work for an organisation that is always ahead in terms of pushing forward. That means I am not just a 9000, 2008 lead auditor but am also an ISO 9001, 2015 lead auditor. And in terms of IMS audit, no company matches us in that in Nigeria. We have conducted IMS audit both in Nigeria and Ghana.

For the past four years, you have been coming to IEPL for audit, what are the unique things you noticed about IEPL?

Now one of the things that make IEPL quite unique is your commitment to improvements. In the last four years, we have never been here and things have remained the same whether at the process plant or the support offices. For example, the HR department has a system of performance management that is also linked to their competence management, which is also linked to their payroll management using IT. At the process plant, they keep looking at mean of improving their production system, which is a commitment to improve on all their management systems and that is quite remarkable.

You were here last year, why is the Audit a yearly Affair?

BUREAU VERITAS conducts audit according to what is called an IAF (International Accreditation Forum) guideline. What we use that yearly visit for is to ascertain whether the management system is still being maintained at the same level with which to warrant the continuation of the certification. And when we come, we still go through the same things we have done during certification, checking and going through every process, finding out whether they are stilling run according to standards.



Mr. Adeoye Soluade (right) and his colleague, Femi Kolawole and Mrs. Bisola Hassan.

When we do that, we give non-conformities, observations and opportunities for improvement so that these organisations can still continue to grow. That's because in a certification, the certifying body and the organisation are partners in progress so this yearly visit is part of affirming that partnership.

At the opening of the Audit Process, you said “Indorama is like a Gold Standard” for IMS Audit in Nigeria. Could you really explain what you mean by that statement?

What I was trying to drive at with that statement is when it comes to driving the management system from within using your internal audit, your management reviews, you are up to date on that, you identify your own problems first.

If you go to technical services and projects, you have a process of investigating every single incident and solving them. What we found out is that we have not seen any single incident repeated itself twice, it has never happened.

That is why when we said “Gold Standard” we are looking at all those things. And when it comes to non-conformities, you rarely come back here and raise a non-conformity

previously and expect to still find that same non-conformity. It becomes something that is worked upon, and you have to go find a new gap, not a repetition of the gap that you have seen before. Indorama is a learning organisation, you learn from every single thing you are doing and you have been able to sustain that. And that is also evident that you have the same set of people doing these things and they are still improving it in the last four years, and lethargy has not seeped in, rather than that they have been improving and its still the same staff, mostly. That is why I called Indorama a Gold Standard for IMS audit in Nigeria.

Most people are still confused about IMS Audit and Financial Audit, please could you shed more light on the difference?

When we are conducting an IMS audit, we are conducting a process based audit and that means we are checking whether your processes are working accordingly. Now, a financial audit is that those concerned are checking your financial management system to see that you are managing your organisation according to the basic accounting processes.



WORDS *of* WISDOM

1. "No trumpets sound when the important decisions of our life are made. Destiny is made known silently." – **Agnes De Mille**
2. "Where there is great love there are always great miracles". – **Willa Cather**
3. "True leadership must be for the benefit of the followers, not the enrichment of the leaders." – **Robert Townsend**
4. "Most men pursue pleasure with such breathless haste that they hurry past it." – **Soren Kierkegaard**
5. "The more you praise and celebrate your life, the more there is in life to celebrate." – **Oprah Winfrey**
6. "The question is not whether we will be extremists, but what kind of extremists we will be...The nation and the world are in dire need of creative extremists." – **Martin Luther King Jr**
7. "The greedy man is not content with even a whole world set before him." – **Sa'Di**
8. "Wise people, even though all laws were abolished, would still lead the same life." – **Aristophanes**
9. "Through zeal, knowledge is gotten; through lack of zeal, knowledge is lost." – **Buddha**
10. "The smallest bookstore still contains more ideas of worth than have been presented in the entire history of television." – **Andrew Ross**
11. "He is a wise man who does not grieve for the things which he has not, but rejoices for those which he has." – **Epictetus**
12. "In this world it is not what we take up, but what we give up, that makes us rich." – **Henry Ward Beecher**
13. "It is astonishing what force, purity, and wisdom it requires for a human being to keep clear of falsehoods." – **Margaret Fuller**
14. "Man must cease attributing his problems to his environment and learn again to exercise...his personal responsibility in the

- realm of faith and morals." – **Albert Schweitzer**
15. "The season of failure is the best time for sowing the seeds of success." – **Paramahansa Yogananda**
 16. "Get excited and enthusiastic about your own dream. This excitement is like a forest fire you can smell it, taste it, and see it from a mile away." – **Denis Waitley**
 17. "A wise man will make more opportunities than he finds." – **Francis Bacon**
 18. "Our lives are a sum total of the choices we have made." – **Wayne Dyer**
 19. "You need to recognize and sweep aside certain weaknesses which stand between you and your goals. Your persistence develops into a respected, proved, progressive power." – **Napoleon Hill**
 20. "Out of clutter find simplicity. From Discord make harmony. In the middle of difficulty lies opportunity." – **Einstein's Three Rules of Work**
 21. "If you don't set a baseline standard for what you'll accept in life, you'll find it's easy to slip into behaviors and attitudes or a quality of life that's far below what you deserve." – **Anthony Robbins.**
 22. "We can do anything we want if we stick to it long enough." – **Helen Keller**
 23. "Doubt is the beginning, not the end, of wisdom." – **George Iles**
 24. "He who has done his best for his own time has lived for all times." – **Johann von Schiller**
 25. "There is real magic in enthusiasm. It spells the difference between mediocrity and accomplishment." – **Norman Vincent Peale**
 26. "Don't tell me how hard you work. Tell me how much you get done." – **James Ling**
 27. "I can usually judge a fellow by what he laughs at." – **Wilson Mizner**

28. "Trust men and they will be true to you; treat them greatly and they will show themselves great." – **Ralph Waldo Emerson**
29. "You can't shake hands with a clenched fist." – **Indira Gandhi**
30. "My interest is in the future because I am going to spend the rest of my life there." – **Charles F. Kettering**
31. "Quality questions create a quality life. Successful people ask better questions, and as a result, they get better answers." – **Anthony Robbins**
32. "People are eternally divided into two classes, the believer, builder, and praiser, and the unbeliever, destroyer and critic." – **John Ruskin**
33. "Someone's opinion of you does not have to become your reality." – **Les Brown**
34. "I have yet to find the man, however exalted his station, who did not do better work and put forth greater effort under a spirit of approval than under a spirit of criticism." – **Charles Schwab**
35. "Don't walk in front of me, I may not follow. Don't walk behind me, I may not lead. Walk beside me and be my friend." – **Albert Camus**
36. "I'm a great believer in luck, and I find the harder I work the more I have of it." – **Thomas Jefferson**
37. "Never for the sake of peace and quiet deny your own experience or convictions." – **Dag Hammarskjold**
38. "Leadership is the capacity and will to rally men and women to a common purpose and the character which inspires confidence." – **Bernard Montgomery**
39. "You must learn from the mistakes of others. You can't possibly live long enough to make them all yourself." – **Sam Levenson**
40. "If you can't change the circumstances, change your perspective." – **Unknown**

Excursion to Indorama Eleme Petrochemicals:

A Memorable Experience!



Plant Shift Superintendent, **Engr. Martins Chigbu** explains a point to the FUTO students

Prompted by the itching desire for a true feeling of the Chemical Engineering profession, I was favoured by being among fifty students and two lecturers who went for engineering adventure to Indorama Eleme Petrochemicals Limited (IEPL), Port Harcourt, Rivers state on 24th February, 2016. It was not until we arrived at the company's first gate at about 11a.m that we were engulfed by the breath-taking environment.

On arrival, we received a warm welcome from the security personnel, after which they directed us to the car park. On our way, my eyes captured the plant, far away. I was awed by the networks of pipes of various sizes which were properly arrayed for the purpose they serve, and that of the massive water tanks.

Waiting at the park to receive us were the plant shift superintendents, Engr. Chike Okechukwu and Engr. Martins Chigbu as well as the safety officer, Bashir Mohammed and corporate communications officer, Chinedum Emeana.

Mr. Mohammed prepped us with a brief speech on the safety ethics within the complex and in the plants. The company, he said, takes safety very seriously. All staff and visitors must observe all the do's and don'ts. Helmets were given to us for our heads, to complement our already worn laboratory

coats.

Although a fair knowledge of the raw materials and products of the industry have been gained through theoretical means, a blend of the experience was far more enchanting as we drove through to the Olefins plant, which is regarded as the mother plant.

The Olefins plant uses the technology licensed by Kellogg Brown and Root (KBR) of USA. It comprises of six score furnaces of millisecond technology which operates by the process of free radical mechanism for its cracking process. Natural gas liquid (NGL) is fed to cracker which separates it to the C₂s (ethylene, acetylene and ethane), the C₁s (methane), hydrogen, the C₃s (propylene).

The C₅s and other heavier hydrocarbons are recovered at the bottom and the C₂ to C₄ fractions are fed to the cracker furnaces along with the recycle gases, ethane, propane and

butane. There are 192 tubes in the furnace and there is a control algorithm that monitors each tube in the furnace (crackers).

The major products of the olefin plant, we were told, are ethylene and propylene which are sent through feed pipe to other plants where they undergo polymerization by the use of catalysts. The olefin plant is set at a yield of 12% propylene and 45% ethylene.

We also visited the Olefins control room. We were opportune to see the way an automated process works through the experience in the control room. The control room is manned by engineers who handle tune valves, measure physical quantities and properties, monitor the state of the instruments and the entire process.

The control room also has annunciator alarms to alert field engineers about dangers in the process. The control room is divided into hot and

“This Memory Will Never Be Erased from Our Hearts!”

- Chemical Engineering Students of FUTO Who Visited IEPL on Excursion

It was all-round enthusiasm for 50 chemical engineering students and two lecturers of the Federal University of Technology Owerri (FUTO) during their academic excursion to Indorama Eleme Petrochemicals Limited (IEPL) on 24th February, 2016.

Dr Jossy Nkwocha, the Head of Corporate Communications and Special Adviser to the Managing Director, welcomed the students saying their visit was part of the company's corporate social responsibility (CSR) to help the young to grow.

“You are privileged to be here; make sure you make the best of this opportunity,” he said.

The students were taken on a tour of the plants and facilities by the Plant Shift Superintendents (PSS), Engr. Chike

Okechukwu and Engr. Martins Chigbu, as well as Chinedum Emeana of Corporate communications department and Bashir Mohammed, a safety officer who gave them safety briefing.

The students were first taken to the Olefins Plant and its control room. Next was the Poly-Ethylene (PE) plant and its bagging section. The students who were divided into two groups, handled by each PSS asked various questions about the operations of the plants.

The students were informed that IEPL's products namely polyethylene and polypropylene are used as raw material in many factories for the production of anything plastic. They were also informed that the company is on the verge of commissioning its new Fertilizer Plant which has a capacity

for 1.4 million metric tons per annum.

After the tour, at the conference room, the students seized the opportunity to ask more questions. Corporate questions were answered by Dr Nkwocha while the PSS answered the technical questions.

Dr Jossy challenged the students to write a good essay about their experience in IEPL and send it to him for possible publication in the company's in-house journal *IMPACT* magazine.

While giving a vote of thanks, the President of the department of Chemical Engineering Students of FUTO, Comrade Umenweke Great said “this memory will never be erased from our hearts and we wish to share our experience with those in school”.

One of their lecturers Engr Opebiyi Samson also thanked the company for giving them and the students the opportunity to learn and see the practical aspect of what they teach in the classroom. “What I learnt many decades ago as a student I teach now, and I believe what the students have learnt today here in Indorama they will not forget in a long time to come,” he said.

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Excursion to Indorama Eleme Petrochemicals

cold sections. The hot section deals with increased temperature during cracking processes. Any modern plant has a control room.

Close to the Olefins plant is the off-sites and utility section, which provides the plants with nitrogen, air (compressed and instrument), ammonia and water. Instructions and lectures were given by the plant shift superintendents on the functions of control valves found on some feed pipes as we proceeded to the polyethylene plant.

The Polyethylene plant uses Sclairtech technology licensed by Dupont (Novachem) of Canada. Ethylene is the raw material for Polyethylene plant. This plant is capable of producing both High and Linear Low Density polyethylene. The system uses two different catalysts, titanium tetrachloride and nickel-oxy-trichloride to produce the different grades of polyethylene.

The last of the processing plants we visited was the Polypropylene plant. The plant is based on the Basell (Montell) Spheripol technology, which is the leading polypropylene technology in the world. Propylene is the raw material for the Polypropylene plant which is designed to produce homo-polymers, random-polymers and co-polymers.

The final products of these plants

are sent to the silos where they are dried and extruded. After the extrusion process, they are finely cut into desired sizes of about a size slightly bigger than a regular sand grain.

These products are fed to the bagging section where a continuous automatic machine weighs and bags them in 25kg sacks. To meet the International Standard Organization requirements, these bags are checked and rechecked for tolerance level plus or minus 0.05kg for weight, and presence of metals during production process. If any of these requirements are not met, the bag is rejected at the rejection point of the bagging process.

We also saw massive storage tanks for raw and treated water, large storage tanks for nitrogen, Plastic Development and Training Centre (PDTC), administrative building, further networking of feed pipes, to mention a few. These were lovely views to behold.

A summit was held after the plant tour led by the company's Head of Corporate Communications and Special Adviser to the Managing Director, Dr Jossy Nkwocha, which comprised of a Question and Answer session and a general overview on the management system of the company.

Although the university is there to

impart theoretical knowledge on students, the practical knowledge on engineering is desired as it gives students the true feel and pathway to the engineering profession. With this experience, Indorama Eleme Petrochemicals Limited has played enormous role in giving us a practical insight into the world of engineering capable of transforming us and the economy of our country, Nigeria.

As a leading petrochemical industry in Nigeria, it is pivotal in the nation's economy by creating employment, producing raw materials for many companies, and exporting to other countries of the world.

It was perplexing to note that Indorama Eleme Petrochemicals is the only working petrochemical plant in the country. This calls for a constructive challenge on the government and the future generation to build the economy through industrial activities, enhanced by the marked technology breakthrough of the chemical engineering profession.

An experience acquired is a treasure earned. It will be a promising and transforming experience for anyone who makes it to the great engineering ambience of Indorama Eleme Petrochemicals Limited. It is like a dream come through to have had the opportunity of this experience. I am indeed grateful to the company and God Almighty! #

3 Steps to a Successful Career!



The concept of career is a much-talked about issue as it affects everyone on the planet. People live all their lives planning towards a successful career. In fact, a successful person is seen as one who is flourishing in his/her chosen career. And owing to the importance of career to people, the issue of career development has become a trending topic all over the world.

What is a Career?

Before delving further into this topic, let's first understand what a career is. To some people, career is just their job or vocation. To others, career is their education and/or training. The online dictionary defined a career as an occupation or profession, especially one requiring special training, followed as one's lifework, e.g. lawyer, soldier, teacher, etc.

However, in simple terms, I define "career" as that thing you do with your life (could be a job, profession, or vocation) through which you make an impact and an income. Your job or profession makes an impact in the society and in peoples' lives while also earning you a living. An engineer who builds roads and bridges is helping to build the society while also making money. A doctor treats the sick and also earns income from his profession; just to mention a few!

Steps to Successful Career (The 3 Ps)

In achieving success in your career, there are certain steps (which I have categorized into three) you must follow. These steps or stages (which I term '3 Ps' of career development) are:

1. Preparation Stage
2. Practice Stage
3. Profit Stage

Preparation Stage:

This is the 'genesis' of your career. It involves in-depth and thorough thinking about your career choice --- what you

really want to do with your life; how you plan to do it; the skills you need and how you plan to acquire those skills.

There is no set time or age for this stage; it all depends on when you feel ready to start your career pursuit; although it is generally assumed that the earlier you begin the better.

In this stage also, you may decide (depending on your passion and flair) a course of study to pursue in school, a trade or vocation to learn, and so on. Your focus here is kick-starting your career journey, not to start making money.

This stage also encompasses your school days, when you are going through training to prepare yourself with relevant knowledge and skills for your chosen field. Your interest thus should be to update yourself with requisite information in your chosen career sphere.

Practice Stage:

Having defined your career path and actively working towards it either by studying a relevant course or learning a relevant trade, you need to start practicing your career via different means like internship for students or some other on-the-job skills acquisition programs.

The underlying fact here is you should take full responsibility for your career and seek out more practical learning opportunities for yourself. Do not just sit back and blame your school or the government (especially in third world countries) for not providing adequate

facilities or infrastructures for experiential learning.

An electrical engineering student, for instance, can connect with electricians during his semester break to work with them just to learn more skills in his field; a computer science undergraduate can also work in some computer networking shops to bag in some needed skills in his field...and so on and so forth. The focus here is still not to make money, although some money could be earned in the process.

The career-minded person can even reject internship or industrial attachment in some big organizations where he/she has been offered non-relevant training opportunities and accept opportunities in smaller organizations offering opportuni



ties with relevant skills. The person is still working at equipping himself/herself with the skills for their profession. Sometimes, even your first job could be a 'practicing' ground for you.

For this reason, I advise fresh career starters to seek for jobs in areas that will help further advance their skills and not just make them big money with no

Great Excitement as Bagging Team Wins ESS Trophy

It was great excitement as Bagging department won the trophy for the 2015 Employees Suggestion Scheme (ESS). The department outwitted Polyethylene (PE) plant that had won the coveted trophy in the past two years.

The award was presented to the winners during the staff end-of-year party on December 18, 2015 at the Indorama Recreation Club (IRC).

Managing Director, Mr Manish Mundra who presented the trophy to the Bagging team expressed delight at the manner at which the employees are participating in the suggestion scheme by contributing various suggestions that are helping to move the company to greater height.

He affirmed that the scheme is yielding good results since it was launched in November 2011.

Bagging department took 1st position with a total number of seven approved suggestions, Polyethylene (PE) plant came 2nd with six approved suggestions, Polypropylene (PP) plant came 3rd with five approved suggestions while Electrical department came 4th with only one approved suggestion.

A joyful Mr. J.R. Patel, head of Bagging department said it was an honour to all his team members. He affirmed that the award has brought the department to limelight. He described the award as a certification of the work of



Mr. J. R. Patel (right), Head of Bagging Dept and excited staff of the dept receive the trophy from the MD, Mr. Mundra.

Bagging department

"It is indeed a pride for all of us. It is a big motivator; it has fired our zeal both as individuals and a team. Earlier, we told our team members not to look down on ideas, no matter how small. It might be important to the growth and progress of the company.

Individual winners of the prizes include Mr Ibim Eminatedoki of Bagging department who won three prizes; Jimye William Jim and Innocent Ohia Okapra from Bagging; Ibrahim Abubakar, Nwafor Israel, Charles Osuji, all from PE; Bhagat Singh, Eugene Ledisi Viele, Paschal Chinedu Eli, and Pravinkumar K. Patel, all of PP; and Selvaraj Dineshkumar of Electrical department.

They were presented with cash prizes and certificates. Other persons whose suggestions were not approved were presented with "Appreciation Letters".

Addressing the winners after the presentation, the Technical Director, Mr.

A.B Rao commended both the winners and the others whose suggestions were not approved, for their efforts in ensuring continuous improvements in the company.

He said the essence of the scheme is to generate good ideas from staff and give them a sense of belonging. He enjoined all staff to bring up valuable ideas that will impact positively on the company's system, procedures and practices.

Mr Eminatedoki who won three prizes said he was overwhelmed with joy that his suggestions were approved by the Steering committee. Another winner Mr. Dineshkumar said he was motivated to continue to contribute to the scheme in order to add value to work operations.

"I am very happy. I never expected any cash prize. For me, it is my responsibility to contribute towards work success and improvement of the system," he said.

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Successful Career!

skills acquired.

The skills and knowledge you acquire during your training period is even more valuable than just the money you make. While the money will last for only sometime, the skills will last you a life time, helping boost your career.

Profit Stage:

At the profit stage, you are ready to be rewarded for all the skills you have garnered in the previous stages.

The fact is that organizations don't pay you for your paper qualifications or

some shiny ivy-league certificates; you only get hired and paid for your usable and transferable skills that will help the organization achieve her goals.

This is the stage where money making is in your purview, although you are still very much minded about continuous learning and skills / knowledge acquisition. Here, you have acquired knowledge, worked for some time to gather experience and skills and are now ready to be rewarded for your skills, and then the money can start flowing.

Summary

The summary of this article is that you should not start-out your career pursuit with making money as your primary goal. You should first and foremost invest in yourself to acquire all needed skills and knowledge. Adopt a learning mind-set at the beginning. Later, money becomes a worthy return on your investment. That should be your career plan to win it. Whether it's a career, family, life - you have to plan it out!



Environmental Stewardship by

VOLITION

The environment in which we live is a gift of love from God, the creator. He made the earth and heaven, the seas and the springs of water. Within this creation, He placed humans, set them intentionally in relationship with Himself, other persons, and the surrounding environment. Therefore, we, humans are the environmental stewards and must hold its preservation and nurturing intimately in relation to our service to God the creator.

Human poverty and environmental degradation and exploitation are interrelated; we can deliberately pledge ourselves to improve the quality of life for mankind. Our task and target by volition should be a sustainable development of resources while meeting human needs. This is important because the earth (our environment) is headed for "a point of no return".

Some scientists feel that the effects of changes in our environment are difficult to predict. Based on this belief, they are concerned that we might be reaching "tipping point" where abrupt and unimaginable climate changes will bring disastrous results.

For instances, firstly, there's unequivocal evidence that earth's lower atmosphere, ocean, and land surface are warming. The dominant cause of the warming since the 1950s is human activities.

Secondly, nearly 50% of the land surface has been transformed by direct human action, with significant negative consequences for biodiversity, nutrient cycling and climate change. Thirdly, in September, 2012, the British Broadcasting Corporation (BBC) reported that 85% of global fish stocks are over-exploited, depleted, fully exploited or in recovery from exploitation.

Man's mismanagement of "zone of

life" or biosphere has ushered in "an abrupt climate change," therefore, industrial experts and everyone should go-green by VOLITION not for regulatory compliance.

A landmark study on "Man's Impact on the Global Environment," conducted at the Massachusetts Institute of Technology in 1970, suggested that greenhouse warming might bring "widespread droughts, changes of the ocean level, and so forth," but could not get beyond such vague worries.

A meeting in the following year at Stockholm arrived at similar conclusions, and added that we might pass a "point of no return if the Arctic Ocean's ice cover disappeared".

In Paris Climate Change Conference (COP21), held in November 2015 under the umbrella of United Nations Framework Convention on Climate change, scientists from across the world warned that due to major climatic change caused by indiscriminate activities of industries and end users, leaving creatures on high risk.

They also warned that "mega-droughts, famine and widespread rioting will erupt across the world....if we do not willingly comply with environmental standards and norms, the climate will change abruptly; and abrupt climate change could bring the planet to the edge of anarchy as countries develop a nuclear threat to defend and secure dwindling food, water and energy supplies.

Industrial operators and everyone in Nigeria should go green by VOLITION, not for compliance reasons, in other to safeguard the environment and save humanity from calamity.

Tuberculosis

THE SILENT KILLER

Tuberculosis also known as TB, is a disease caused by bacterium *Mycobacterium Tuberculosis*. This bacterium has some unique characteristics as it is very resistant and is widespread throughout the world. The infection spreads through the air when an infected person coughs or sneezes. The mycobacterium infects every part of the body, but the most common organ affected are the lungs.

These bacteria are released in the air by the infected person and we get infected when we breathe the same air laced with these bacteria.

Tuberculosis is the most widespread bacterial disease in the world. One in every 10 person has this infection and about every third person with this infection shows signs of serious complications. Every 20 second one person dies of Tuberculosis.

Tuberculosis is an opportunistic infection. It catches easily people with reduced immunity and that is the reason why it is mostly affected in developing countries where poverty and lack of basic health and sanitation facilities makes the situation worse. With lower level of immunity the mycobacteria tuberculosis easily holds its foot in our body and multiplies very fast to spread the disease.

The presence of other infections like HIV increases the risk of getting tuberculosis by 50 times than a person without HIV; in fact tuberculosis is the most common cause of death in patients with HIV infection.

How to know if I have TB?

There are some common signs and symptoms for tuberculosis, but a person with good immune system can mask these symptoms. As TB can infect any part of the body, so the symptoms also have a wide range of characteristics. In about 30% of cases, it is detected during routine medical

check-up or during investigation for some other illness. But there are some common symptoms which we should keep in our minds. They are as follows:

- Night sweat.
- Cough for more than 2 weeks.
- Mild fever.
- Weight loss.
- Loss of appetite.
- Blood in sputum.

We should always consult a doctor if we find any of these symptoms in us. It is very important to have an early diagnosis because it not only helps the patient to start early treatment, but it also helps in containing the spread of the disease. There is no specific test for tuberculosis but Chest X-ray.

Sputum test and Sub cutaneous tuberculin tests (Montoux test) gives a fair idea about the presence and severity of the infection. It is important to check for TB infection because each person with TB infection can infect 15-20 other persons in a year.

Treatment

The good thing about TB is it can be fully cured by treatment. The anti-tubercular treatment (ATT) has to be taken for period of at least six months. The length of the treatment depends on the severity of infection and the location of the disease in our body.

About 36 million people with TB are successfully treated in past 15

years with Directly Observed Treatment, Short course (DOTS), this method of treatment of TB is endorsed by WHO (World Health Organization) and is very effective in treatment of TB.

This method ensures treating the patient with right ATT drug for the full length of treatment. Since the introduction of DOTS in 1994, the number of patients cured from TB increased drastically and over eight million deaths from TB is prevented. Vaccine for tuberculosis does not give us 100% protection.

Conclusion

Tuberculosis is a dreadful disease, and it can affect anybody, but the most important aspect of dealing with this menace should be timely diagnosis and proper treatment. We may not be able to eradicate TB from the face of our world in the next decade or so, but with our awareness and responsible behavior we can always minimize it to the extent that we will eradicate TB may be for our next generation.

Points To Remember

- Always have good breakfast.
- Go to a doctor if persistent cough more than 2 weeks.
- Periodic check-up.
- Let your doctor know about abnormal weight loss.

LET'S TAKE A STEP TOWARDS A TUBERCULOSIS-FREE WORLD!



Friends and colleagues of Mr. Limaye (in bowler hat) surround him in a group photograph at the farewell party

Staff Bid farewell to Limaye on Transfer to Indorama's New USA Plant

Staff and their bosses at the Polyethylene and Polypropylene (PE&PP) Plants of Indorama Eleme Petrochemicals Limited (IEPL) say they would miss a very dear colleague and friend Mr Chintamani P. Limaye who is on transfer on higher responsibilities to Indorama's new Olefins plant in the United States of America.

On January 26, 2016, they gathered to give him a rousing farewell and wished him well in his new assignment. Limaye was the Head of the Mechanical section of PE/PP Plants. He joined the company in 2010.

The event was a cheerful occasion laced with tributes. It was an atmosphere of love and joy as everyone spoke of their relationship with Limaye. It was a moment his colleagues would not forget in a hurry.

Many of the staff described him as a mentor.

His immediate boss and Head of Department, Mr. Phool Singh lauded Lamaye's immense contributions during the 2014 Turnaround Maintenance (TAM). He said the celebrant also contributed very much towards effective resolution of some plant reliability issues at PE and PP

plants.

He said that under Limaye's watch as head of section, so many modifications and repairs were effectively carried out. Mr Singh described him as technically sound person whose contributions to the growth of the PE and PP plants cannot be overemphasized.

"It is indeed a great loss for all of us to miss Limaye, though he is still within the Indorama family, he has got a good opportunity to work in Indorama Ventures in the United States (US). We hope he will be of great assistance in revamping the plant there the way he did here in IEPL," he said.

Chris Okeleke of PE Plant described Limaye as a hard worker, a person that carries his subordinates along in any assignment. He said the celebrant was an embodiment of knowledge in engineering, adding that he shared his knowledge with anyone who was ready to learn.

"Besides, he was not quick to temper. His personal lifestyle was that of an amiable person, always happy with his colleagues and subordinates," Okeleke said.

Another colleague Mr. Stephen

Asomie said Limaye ensured there were no accidents during the 2014 TAM. "During the TAM he ensured that there was zero incident in PE and PP plants," he said.

Other staff in the plant also spoke in the same vein, and wished him in his future endeavours.

Responding to the outpouring of accolades and goodwill, Limaye said he was overwhelmed by the way his colleagues and bosses have celebrated him. He said he was leaving the Indorama-Nigeria family at a time he never expected, but he has no choice as it is part of his official assignment.

He advised his colleagues to work smart to continue to improve and keep the plants at the pace he has taught them in order to achieved the overall objectives of the company.

Mr Limaye said his achievements in office were as a result of the support he received from his team members. He applauded the relationship that existed between him his colleagues and bosses and said it was the best.

The event ended with a small party, presentation of souvenir to the celebrant and group photograph.



Group photograph of IEPL PENGASSAN women after their 2015 thanksgiving at Higher Life Church, Akpajo, Eleme on February 7, 2016.



Children of IEPL staff cut their 2015 End-of-year party cake at the IRC ground.



Comrade Innocent Ugwunta of Medical Dept, with his wife and children at the dedication of their daughter **Ebubechukwu Nicole** at St. Peter Claver Catholic Church, Rumuodara, Port Harcourt.



Mr Eric Mathew, IEPL's "No 1" speaks on how he feels being the first staff to win the Company's "10 Years Long Service" award.



Cheerful faces at the IEPL staff End-of-year party 2015.



Manish Mundra, MD (4th right) and other top management staff on the high table at the IEPL 2015 End-of-year party at the IRC



QHSE POLICY

We, at IEPL, are committed to the continual improvement of our Quality, Health, Safety & Environment practices and the delight of our customers & stakeholders through:

- Improving the business processes by adopting innovative approaches & best practices.
- Implementing effective quality management system across the entire supply chain ensuring highest standards of quality & services.
- Preventing injury and ill health by ensuring safe operational and occupational health practices in all facilities involving all employees and associates.
- Protecting & preserving the environment by preventing pollution, maximizing recycle or reuse and reducing waste, discharge & emission.
- Continual reviewing of quality, health, safety & environment objectives, procedures & practices for attaining highest level of operational efficiency and plant performance.
- Complying with all applicable QHSE legal & other requirements and positioning as a responsible corporate entity.
- Creating lasting partnership with customers and associates through offering quality products & services at all times.



Manish Mundra

Managing Director

INDORAMA

ELEME FERTILIZER & CHEMICALS



**the World's Largest
Single Line Urea Plant**
with 1.4 million Tonnes per annum capacity



... E Don Beta!