



**NIGERIAN
FOUNDRIES
GROUP**
... since 1969



40 years founded on quality progressing through technology

THE NFL GROUP NEWSLETTER

YEAR 2012 Developments

Nigerian Foundries Ltd in January 2012 completed its over 300,000,000 million naira upgrade project at its Otta Plant.

The objective of this upgrade was to:

- Attain the fully installed capacity of its furnaces i.e. 5000 tons per annum of castings. This was unattainable before due to capacity constraints of the existing plant and equipment.
- Increase the quality of castings through the purchase of new sand preparation and quality control equipment.
- Allow for the gradual movement of the Ilupeju plant to Otta. The aim of this is to concentrate both foundries under one roof thus lowering overhead costs and increase the capability to produce a single casting from 4 tons to 6 tons.



Metallographic Microscope

Equipment upgraded are:

- Purchasing of two new Cummins 1,250 KVA diesel generators and one 500KVA diesel generator.
- Hook-up of the plant to the national grid from 11,000KVA to 33,000 KVA through the installation of one 2,500 KVA transformer and protection unit.
- Upgrade of the Quality Control laboratories with: One computerized metallographic microscope, one computerised 40KN tensile testing machine, one Industrial Brinnell hardness tester for big castings, one Equotip electronic portable hardness tester and one Digital Carbon Analyser. This is in addition to the two existing spectrometers for ferrous and non ferrous metals.
- Upgrade of sand plant treatment with two high intensity mixers, sand cooling unit and extension of the conveyor systems to provide for the future sand requirements of the foundry merger.
- Purchase of one JVC payloader, one 3 ton and one 5 ton forklifts, one bob cat skidder.
- Purchase of 3.2 ton overhead gantry crane.



**Computerised Universal
Tensile Machine**



Mobile equipment





Manpower Upgrade

In order to meet the challenges of the future and to ensure top quality castings, NFL through AMSCO (African Management Services Company- a UNDP organisation) has employed the following top specialists.



Sand Plant treatment with high intensity mixers & cooling unit

Dr Arun Rao - General Works Manager

30 years of experience in the foundry industry with Technical Competencies: Foundry Metallurgy, Forging~Heat Treatment ~ Physica Metallurgy ~ Failure Analysis • Specialization in ductile Iron and all types of steel Castings.

- PhD (Foundry Metallurgy), M.E (Metallurgy) Indian Institute of Science, 1983: 1979. • B.E (Metallurgy), College of Engineering Pune, 1976

Mr Kalluru Reddy - Senior Quality Control Manager

20 years of experience in reputed foundry industries of both ductile iron and steel foundries in India and abroad with specialization in Quality Control in automobile industry.

- D.M.E,YSRR Polytechnic College, A.P INDIA, 1987
- B.Tech. in Mechanical Engineering, Awaharlal Nehru Technological, 1995. • MBA,Vinayaka Missions University, Salem, TN INDIA, 2007



Cummings Diesel Generators

Engr. Muhammad Daud - Product Service Manager

Over 20 years Experience in Quarry and Mining operation. He has a specialization in demolition and blasting

- B.Sc. Mining Engineering, 1988.
- B.Sc. Mechanical Engineering, 1982

New Product developments

Ductile iron Municipal Castings

In order to meet the challenges of the future, NFL has added to its range of products Lockable manhole covers and gratings made out of ductile iron.

- Security perimeter ductile iron bollards & grills
- NFL is developing new ranges of ductile iron including casting for Oil & Gas

Maritime Castings for ships, dredgers & barges

NFL since last year has developed the range of maritime castings that include castings for ports, ships, dredgers and barges.

Such castings are:

- Broad range of casted and fabricated anchors.
- Marine bollards, sinker weights and fair lead rollers
- Castings for barges such as lockpins, cones for anchors, cleets and guides for lockpins.
- A number of fabrications out of HARDOX material for barges, dredgers and trawlers.



Heavy casting Brinell Tester

