

# NESTLÉ – AGBARA NIGERIA



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**Strengths :**

- Turn Key
- Remote
- Experience
- Flexibility



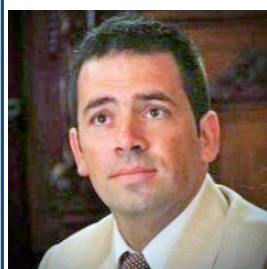
Between 2008 and 2013 Nestlé invested 200 million CHF in Nigeria. The site provides work for 1500 employees who produce primarily all the Maggi, Milo, Golden Morn products, and more particularly, "popularly positioned products" (PPP), that is to say foods adapted to the customs and resources of the emerging countries. Our job was to build a new Malt production factory in Agbara. The factory will also be able to produce other products in a subsequent expansion phase .

## The Malt Extraction PROJECT

This was a project of the Greenfield type, in other words the construction of a new part of a factory. The malt extraction process is composed of three main stages: treatment of the raw materials, namely manioc and sorghum; fermentation of the must in the brewery; and finally evaporation to obtain a semi-finished product with a consistence similar to honey.

The malt thus obtained is used in the production of Milo (packaged in powder or cube form), whose main stage consists in drying on VBDs (Vacuum Band Dryers). Ancillary installations such as cleaning in place, cooling towers, water treatment plant, etc. surround the principal processes.

For this new part of the factory, the ALPS Automation experts handled the management of the project, the production of 15 cabinets and 9 electrical boxes, the supply of monitoring servers (Wonderware IAS Industrial Application Servers), the electrical engineering, programming in factory automation (PLC, HMI, etc.) tests and commissioning, as well as the management of the local wiring teams on site. This large-scale project required the presence of 12 ALPS Automation staff in Nigeria.



Alexandre Richoz, Head of Projects\_Agbara factory at Nestlé Nigeria, explains: *"I have highly appreciated the collaboration with ALPS Automation since 2008. They offer a real turnkey solution for large projects, ranging from basic design to final commissioning. Within Nestlé I cite them as a model for good practices of a turnkey E&A (Electricity & Automation) project. Everything went really well in a country as complex as Nigeria, with local manpower and sometimes 'remote support'. The result is considered as 'state-of-the-art' for an interconnected factory, 100% automated, designed to western standards of hygiene and security, thanks to a very competent and experienced team. Following this successful project, we have again called upon ALPS Automation for the cereals factory."*

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