

CIMPOR CEMENT | ACCRA, GHANA

EPC CALCINED CLAY PRODUCTION PLANT PROJECT

Lower-carbon cement pathway
through advanced calcined clay
production.



LOCATION

Accra, Ghana

CLIENT

Cimpor Cement

COMPLETION

2024

PRESENTATION

Executive project snapshot

A concise view of the client, scale, location and delivery mandate.

CIMPOR

CLIENT

CIMPOR Global Holding

TEMA

LOCATION

Ghana

EPC

SERVICE

Project service classification

2024

REFERENCE DATE

Deha Tech project record

COMPLETED

STATUS

Industrial project reference

1,280 TPD

CAPACITY

Activated clay production



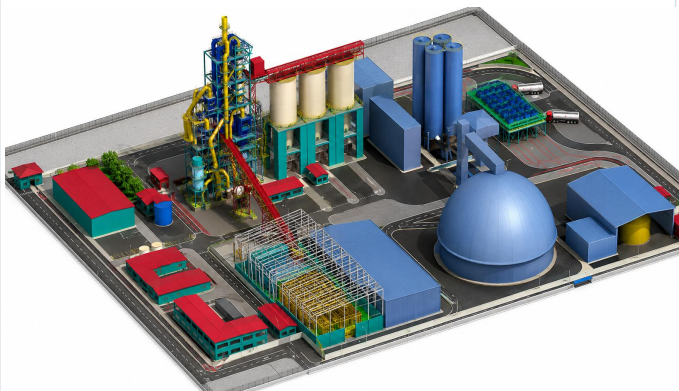
COMPLETED INDUSTRIAL ASSET

A flagship calcined clay facility delivered at industrial scale in Ghana.

From concept model to completed industrial asset

A three-stage visual story: plan the interfaces, execute the works, deliver the plant.

STAGE 01



PLAN THE SYSTEM

3D coordination, system layout and interface definition create a buildable execution path.

STAGE 02



BUILD THE STRUCTURE

Civil, structural and temporary works establish the geometry for high-elevation installation.

STAGE 03



DELIVER THE ASSET

Completed process tower, conveying bridge, storage silos and operating interfaces form a coherent industrial facility.

Why this project matters

Industrial scale, complex integration and a lower-carbon production route - delivered in one landmark reference.

01

WORLD-SCALE CAPACITY

1,280 TPD activated clay production capacity.

02

LOWER-CLINKER ROUTE

Supports cement formulations with a lower clinker factor.

03

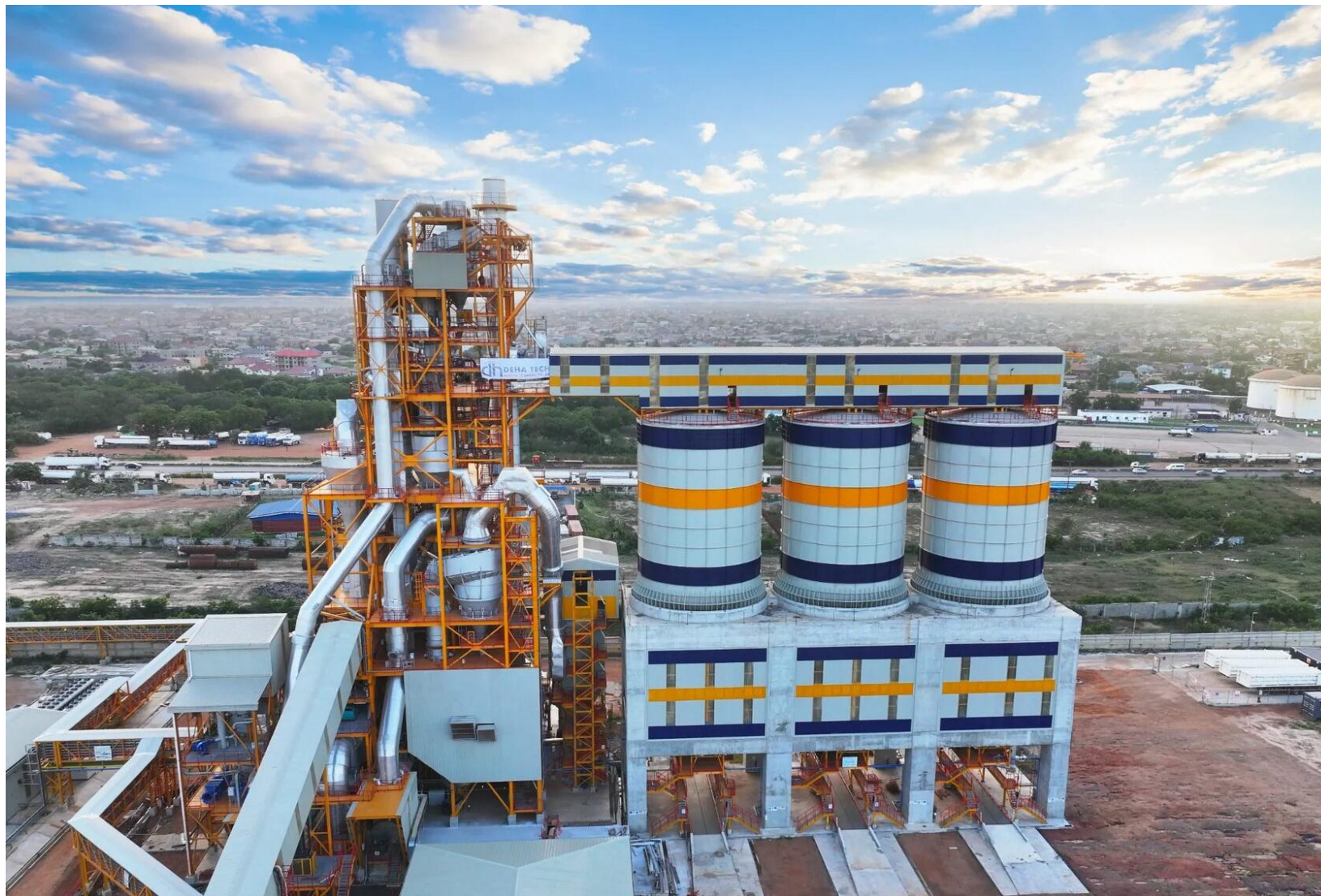
COMPLEX INTEGRATION

Civil, structural, mechanical and process interfaces in one facility.

04

AFRICAN PROJECT REFERENCE

A high-visibility industrial project in Tema, Ghana.



The execution mandate

The project is classified as EPC; Deha Tech's disclosed core scope is construction and mechanical assembly.

PROJECT SERVICE: EPC

Construction + Mechanical Assembly

- Site execution and civil works coordination
- Structural steel, access systems and platework interfaces
- Mechanical equipment assembly and process-system integration
- Ducting, piping, conveying and storage interfaces
- Inspection, testing, completion and handover support

Control every interface before it becomes a site constraint.



Ten coordinated work packages

A practical execution model covering the interfaces that determine schedule, quality and handover readiness.

01

Construction planning

Sequence, interfaces and field readiness

02

Civil works

Foundations, concrete and embedded items

03

Structural steel

Frames, platforms, stairs and access

04

Mechanical assembly

Process equipment and package installation

05

Ducting & piping

Large-bore gas paths and utility connections

06

Materials handling

Conveyors, transfer points and loading

07

Electrical interfaces

Supports, routes and installation coordination

08

Quality & testing

ITPs, inspections and verification

09

HSE execution

Behavior, standards and work discipline

10

Completion & handover

System closure and punch-list management

PLAN



BUILD



INSTALL



VERIFY



HANDOVER

Plant system architecture

The facility integrates raw-material preparation, thermal activation, storage, conveying and loading systems.



Illustrative 3d Plant Model Supplied By Project Team

SYSTEM VIEW

- 01 **Clay handling**
Receiving, preparation and transfer
- 02 **Activation tower**
Drying, preheating and thermal activation
- 03 **Cooling systems**
Controlled product cooling
- 04 **Storage silos**
Activated clay storage and buffering
- 05 **Conveying bridges**
Transfer between process areas
- 06 **Loading & utilities**
Dispatch and balance-of-plant interfaces

One integrated facility - multiple tightly controlled interfaces.

Civil execution creates the geometry for every system that follows.

Precision in foundations, columns, embedded items and temporary works protects downstream installation productivity.

01 FOUNDATIONS

Load paths, anchors and equipment interfaces

02 VERTICAL STRUCTURES

Sequenced concrete works for process elevation

03 TEMPORARY WORKS

Access, formwork and staged construction control

**INTERFACE READINESS IS BUILT INTO
THE CONCRETE.**



Mechanical assembly at industrial scale

01 PROCESS TOWER

High-elevation equipment, ducts and access systems

02 STORAGE SILOS

Integrated storage, discharge and loading interfaces

03 CONVEYING SYSTEMS

Transfer bridges, chutes and material-flow continuity

Activated clay process — system overview

The process sequence below reflects the technology provider's publicly disclosed technical scope.



TECHNICAL BASIS

Clay Handling →
 Preparation → Drying →
 Preheating / Activation →
 Cooling →
 Silo Storage →
 Loading.

Quality is an execution system - not a final check.

The project team converts inspection evidence into system completion and handover readiness.

1

INSPECT

Confirm installation against drawings and ITPs

2

VERIFY

Record evidence and close quality points

3

TEST

Prove system function and interface continuity

4

COMPLETE

Manage punch items and final documentation

5

HANDOVER

Transfer a controlled, traceable asset

Completed Facility — System Completion View



TRACEABILITY • TEST EVIDENCE • SYSTEM COMPLETION • CONTROLLED HANDOVER

HSE A DOCUMENT SAFETY ACHIEVEMENT

The project received recognition for reaching **on million** safe man-hours.

1,000,0000
SAFE MAN-HOURS

Certificate of Appreciation awarded to **Deha Tech Inc.**
for commitment and exceptional HSE behavior on the
CIMPOR Ghana Calcination Clay Plant Project



COMMITMENT



STANDARDS



BEHAVIOR



DISCIPLINE



CERTIFICATE

OF APPRECIATION

This certificate is awarded to:

Deha-Tech Inc.

In recognition of your contributions, personal commitment, and hard work in maintaining exceptional behavior towards Health, Safety, and Environmental standards for achieving one million safe man-hours

@

Cimpor Ghana - Calcination Clay Plant Project


MR. ERSIN AKGUN
PROJECT MANAGER




MR. ISMAIL ACAR
COUNTRY DIRECTOR



HSE performance is created by consistent decisions – shift after shift.

Calcined clay in the lower-carbon cement pathway

The technology route reduces clinker demand and lowers the thermal intensity of cementitious material production.



SIGNIFICANT CO₂ REDUCTION POTENTIAL

Potential emissions reduction compared with conventional clinker-intensive cement production.

1 REDUCED CLINKER FACTOR

Calcined clay can replace a significant portion of clinker in cement formulations.

2 LOWER THERMAL DEMAND

Clay activation requires substantially lower process temperatures than clinker production.

3 LOWER PROCESS CO₂ EMISSIONS

Clay activation avoids the limestone decarbonation emissions associated with clinker production.

4 LOCAL RESOURCE POTENTIAL

The use of locally available clay can reduce dependence on imported clinker.

Supporting Lower-Carbon Cement Production in Ghana

A flagship industrial reference

WORLD'S LARGEST

NEW-BUILT FLASH ACTIVATOR

As publicly disclosed for the project

1,280

TPD CAPACITY

Activated clay production

COMPLETED

PROJECT STATUS

Deha Tech project record

1,000,000

SAFE MAN-HOURS

Recognized by CIMPOR Ghana

Photo Gallery

A visual record of the completed facility, execution stages and system architecture.



Photo Gallery

A visual record of the completed facility, execution stages and system architecture.





Source and validation basis

Project facts and claims used in this deck are grounded in the sources below.

01 DEHA TECH PROJECT PAGE

Project classification, date, completed status, EPC service, Tema scope and 1,280 TPD capacity.

dehatech.com/portfolio/epc-calcined-clay-production-plant-project-for-cimpor-cement-in-accra-ghana/



02 THYSSENKRUPP POLYSIUS PRESS RELEASE

World-scale flash activator, disclosed process stages and projected annual CO₂ savings.

thyssenkrupp-polysius.com/en/media/press-detail-page/thyssenkrupp-polysius-builds-flash-activator-for-cimpor-ltd-in-ghana-238897



03 CIMPOR GHANA HSE CERTIFICATE

Certificate of Appreciation recognizing one million safe man-hours for Deha-Tech Inc.

User-uploaded PDF certificate — CIMPOR Ghana Calcination Clay Plant Project



04 PROJECT IMAGERY

Completed-facility photography, construction photo and 3D system model used throughout the deck.

User-supplied project images



THANK YOU

WORLD'S LARGEST NEW CALCINED CLAY PRODUCTION PLANT

EPC Calcined Clay Production Plant Project

CIMPOR CEMENT | ACCRA, GHANA



ENGINEERED
TO PERFORM

BUILT
TO LAST

DELIVERED
GLOBALLY

TRUSTED
PARTNER

www.dehatech.com