Your Industrial Process Solution Partner



Engineering, Manufacturing, Procurement, Construction, Installation, and Commissioning of All Mechanical, Electrical, Plumbing, Automation, Isolation, etc., Works, Including Maintenance, Repair, and Assembly of Machinery and Equipment, Resulting in the Turnkey Delivery of the Facility in Operational Condition.

miyay process



CALCINED BAUXITE PILOT PLANT PROJECT TURNKEY - 2016

5 t/h Feed Capacity

miyay process



CALCINED BAUXITE PILOT PLANT CONSTRUCTION PROJECT

CONSTRUCTION PROJECT FOR THE RELOCATION AND IMPROVEMENT OF THE CALCINED BAUXITE PILOT PLANT

Turnkey Construction Project Duration: 240 Days / 2015

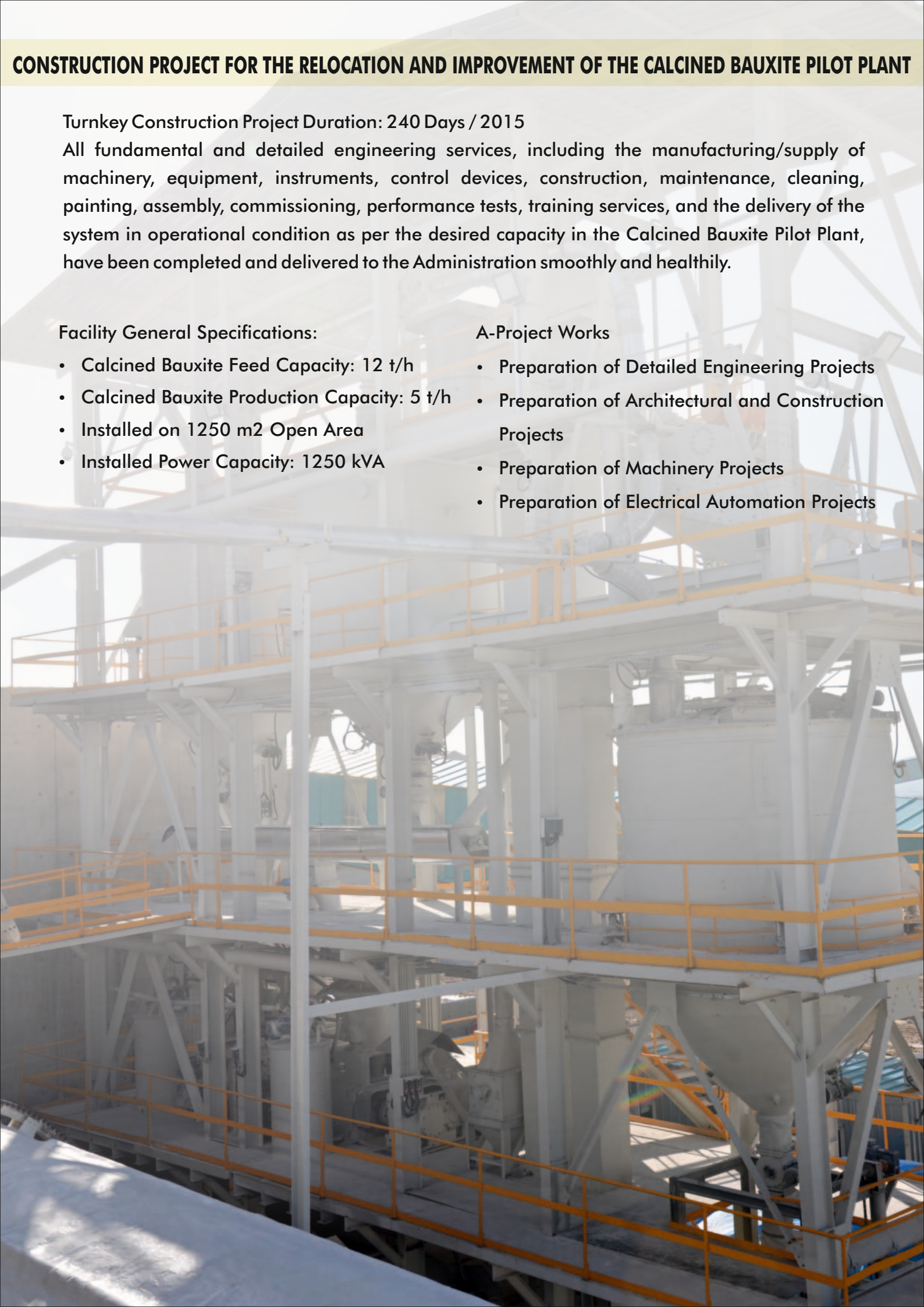
All fundamental and detailed engineering services, including the manufacturing/supply of machinery, equipment, instruments, control devices, construction, maintenance, cleaning, painting, assembly, commissioning, performance tests, training services, and the delivery of the system in operational condition as per the desired capacity in the Calcined Bauxite Pilot Plant, have been completed and delivered to the Administration smoothly and healthily.

Facility General Specifications:

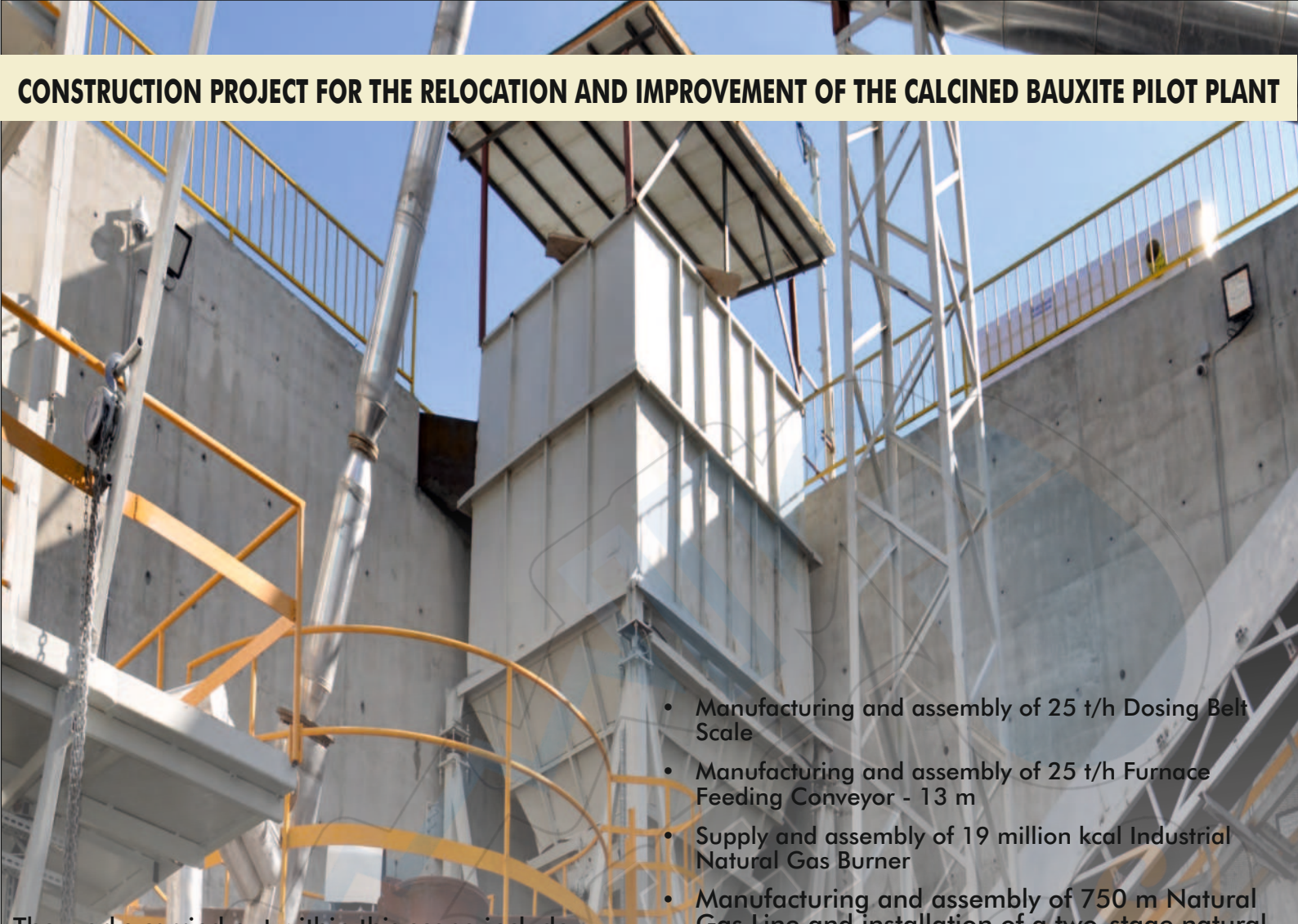
- Calcined Bauxite Feed Capacity: 12 t/h
- Calcined Bauxite Production Capacity: 5 t/h
- Installed on 1250 m2 Open Area
- Installed Power Capacity: 1250 kVA

A-Project Works

- Preparation of Detailed Engineering Projects
- Preparation of Architectural and Construction Projects
- Preparation of Machinery Projects
- Preparation of Electrical Automation Projects



CONSTRUCTION PROJECT FOR THE RELOCATION AND IMPROVEMENT OF THE CALCINED BAUXITE PILOT PLANT



The works carried out within this scope include:

B-Construction Works:

1250 m2 Industrial Open Area (50mX25m)

- 150-ton Steel Construction Manufacturing
- Various building perimeter excavation, landscaping, and canal works
- Construction of MCC Room building

C-Mechanical Works:

- Manufacturing of 1250°C Resistant Calcination Furnace Unit
- Maintenance, repair, and special insulation works for the 5 t/h Calcination furnace
- Maintenance, repair, and assembly works for the 2.5 t/h Compactor Unit
- Manufacturing and assembly of dust silos in various sizes
- Manufacturing and assembly of 80,000 m3/h 5-compartment Off-line Filter
- Manufacturing and assembly of 80,000 m3/h Scrubber and Chimney Unit
- Manufacturing and assembly of 15,000 m3/hX4 Multi Cyclone
- Manufacturing and assembly of Needle Valve
- Manufacturing and assembly of 25 t/h Dosing Belt Scale
- Manufacturing and assembly of 25 t/h Furnace Feeding Conveyor - 13 m
- Supply and assembly of 19 million kcal Industrial Natural Gas Burner
- Manufacturing and assembly of 750 m Natural Gas Line and installation of a two-stage natural gas reduction station
- Manufacturing and assembly of 15 t/h Density 0.25 g/cm3 elevator
- Installation of a 7 t/h capacity 4-station pneumatic conveying system
- Manufacturing and assembly of 15 t/h Magnetic Separator
- Manufacturing and assembly of Q300 Cast Cell Wheel
- Manufacturing and assembly of Hydraulic Systems for Compactor Units
- Manufacturing and assembly of Sinter Vacuum Pump Groups for Compactor Units
- 10 t/h Crusher Unit
- Manufacturing and assembly of a 10 t/h 2-tier product sieve
- Manufacturing and assembly of U-shaped Helical Conveyors in various sizes and lengths
- Manufacturing and assembly of fanless filter on top of silos
- Maintenance, repair, and assembly of Big Bag Bagging system















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CONSTRUCTION PROJECT FOR THE RELOCATION AND IMPROVEMENT OF THE CALCINED BAUXITE PILOT PLANT

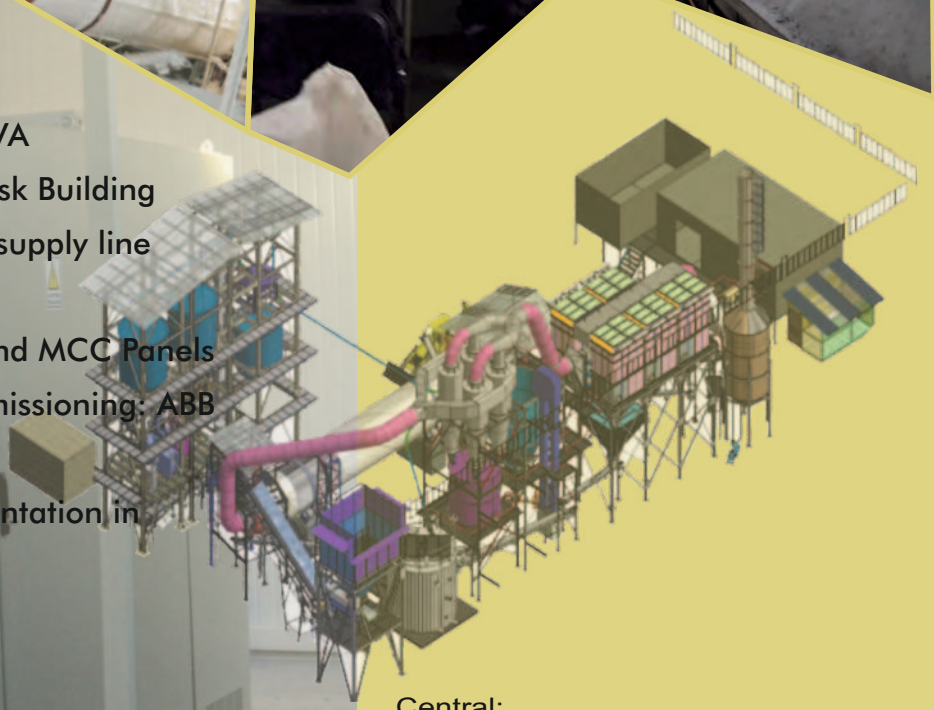






D-Electrical Works:

- Construction of MCC Containers
- Power OG Supply Line: 500 m X 1250 kVA
- Installation of 1250 kVA Transformer Kiosk Building
- Supply and installation of Busbar power supply line 1250 kVA
- Manufacturing and Installation of ADP and MCC Panels
- DCS Control System Software and Commissioning: ABB 800XA Compact
- Procurement and Installation of Instrumentation in Various Scales
- Installation of Facility Camera System
- Facility Grounding Works
- Facility Low Current Works
- Facility Lighting Works - Manufacturing and Installation
- Commissioning and Performance Works
- Acceptance Procedures



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