



IBBL Ingenieurbüro Brkic und Labenbacher GmbH

Engineering / Consulting

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Establish a new cement production line

What we provide

Highly specialized engineering and consulting services for cement and non-metallic minerals

Proven systematic approach to develop a new production line and execute the project

Team with extensive experience in green- and brownfield production lines

Experience as project manager and as Engineer as per FIDIC

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Who we are

Engineering/ consulting office specialized in design and project management for processing plants of non-metallic minerals

Raw materials for such plants are limestone, clay, quartz, granite, etc.

Products are cement, quicklime, hydrated lime, and other construction materials and chemicals

Engineering/ consulting office owned by its founders and therefore completely independent from equipment suppliers

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Systematic approach to new production line



Concept design

First step to develop a project

Plant and project are outlined technically and commercially



Basic design and tendering

Develop technical basic design and develop the project

Execute tendering

Supply contracts are ready for signature



Project execution

Manage the project

Design review

Site management

Site supervision



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Concept design

IDEA



To develop a technical and commercial concept for the plant and the project. Alternatives for the plant, plant sections and the project are developed and compared.

The following documents are typically developed during concept design:

Mass flow diagram
Process flow diagrams
Plant layout drawing
Main equipment specification
Mechanical equipment list
Building list
Electrical consumer list
MV system overview diagram
Control system overview diagram
CAPEX estimation
OPEX estimation
Project schedule

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Alternatively, to the concept design, a feasibility study with deep economical analysis of the project might be developed.

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Basic design and tendering

IDEA



To develop the plant and the project to a level ready for execution of the project including execution of tendering. At the end of basic design and tendering, the execution contracts are ready for signature.

The basic design and tendering includes improvement of the documents listed in concept design and the development of (major examples only):

Section layout drawings
Mechanical design specifications
Civil design specifications
Electrical design specifications
Documentation requirements
Tender documents
Offer comparison
Contracts ready for signature
Project cost calculation

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The basic design must be developed aligned with the selected project type, EPC or EPCM.

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Project execution



To engineer, manufacture, construct the plant and take it into operation. The engineering consultant is monitoring and managing the project.

During project execution, the following is achieved:

By execution contactors:

Detail design of the plant
Manufacturing of equipment
Shipment
Construction works
Erection works
Commissioning
Plant hand-over

By engineering consultant:

Project and site management
Progress tracking
Budget monitoring
Reporting
Design review
Manufacturing quality control
Site quality control

In case an EPC approach is selected, our team is experienced in the role of Engineer as per FIDIC.



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References of team members and partners

Brownfield clinker production line, 6 000 tons of clinker per day,
Republic of Türkiye

Tendering, project management, design review and coordination, quality control for manufacturing, site management, construction and erection supervision for a clinker production line 2003 – 2005

Brownfield cement production line, 7 000 tons of clinker per day,
Kingdom of Saudi Arabia

Tendering, project management, design review and coordination, quality control for manufacturing, site management, construction and erection supervision for a clinker and cement production line, 2005 – 2007

Additional information on these references will be provided during a meeting.

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References of team members and partners

Greenfield cement production line, 12 000 tons of clinker per day,
Republic of Türkiye

Tendering, project management, design review and coordination, quality control for manufacturing, site management, construction and erection supervision for a clinker and cement production line, 2008 - 2011

Brownfield cement production line, 10 000 tons of clinker per day,
Kingdom of Saudi Arabia

Engineering consultant for project management, design review, procurement, site management, construction and erection quality control for a clinker and cement production line, 2008 – 2011. Captive power plant as separate contract included in the project.

Additional information on these references will be provided during a meeting.

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References of team members and partners

Brownfield cement production line, 6 000 tons of clinker per day,
Kingdom of Saudi Arabia

Engineer for an EPC project following FIDIC terms of contract including design review, procurement supervision, and site supervision for a clinker and cement production line, 2011-2013. Captive power plant as separate contract included in the project.

Greenfield cement production line, 6 000 tons of clinker per day,
Kingdom of Saudi Arabia

Tendering for EPC contract following FIDIC terms of contract. Engineer for the EPC contract including design review, procurement supervision and site supervision for a clinker and cement production line, 2011-2013. Captive power plant as separate contract.

Additional information on these references will be provided during a meeting.

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References of team members and partners

Brownfield cement production line, 10 000 tons of clinker per day,
Kingdom of Saudi Arabia ACC7

Tendering for EPC contract following FIDIC terms of contract. Engineer including design review, procurement review, site supervision for cement production line, 10 000 t of clinker per day, 2014-2018. Captive power plant included in the project as separate contract.

Additional information on these references will be provided during a meeting.

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