



# **BIPROCEM WAP S.A.**

**MULTI-SECTOR  
ENTERPRISE  
PROVIDING  
SERVICES FOR  
THE BUILDING  
MATERIALS  
INDUSTRY**



**BIPROCEMWAP S.A.**, is a Polish design and engineering company which prepares design documentation and implements investments within the industrial buildings sector. The company takes pride in its long-standing experience, its highly-qualified and professional employees and its application of the most up-to-date working methods and tools. Over 65 years of company activity confirm that BIPROCEMWAP S.A. successfully sustains the trust placed in the company by its clients and partners, while numerous glowing references underline the company's leading position within the design and engineering services market. The services are always carried out to the highest standards in ethics of duty and professionalism.



# HISTORY



**BIPROCEMWAP S.A.** was established in 1949 as the Design Office for Limestone, Lime and Raw Materials by the Central Administration of the Adhesive Materials Industry in Warsaw. Initially, the Design Office focused on the reconstruction of the adhesive construction materials industry and later went on to strengthen its development within three different sectors: cement, lime and gypsum industries. In 1992, the state enterprise in the form of the Design Office for Cement, Lime and Gypsum was transformed into an entirely private and independent joint-stock company which became wholly owned by its former and existing employees. The company was gradually altering its profile. In the beginning, it centred on design; however later its scope of work was widened to include strictly engineering services, consulting work and general implementation of investment projects. During its 65 years of activity, tens of thousands of different projects for various industry sectors were carried out, mainly for the cement, lime and gypsum industries. This has provided the company with an enormous wealth of experience which is successfully applied in the comprehensive servicing of investment projects in regard to design, project architect's supervision, technological evaluation and consulting, construction supervision and general contractor services.



# OUR MISSION



*"If people only did things thought possible,  
today we would all still be sitting in caves"*  
said Stanisław Lem

Operating within the continuously evolving market of design, implementation and construction services, we always strive to satisfy the requirements of our clients, by offering them high quality products. The following principles which we implement on a daily basis, help us to achieve our objectives:

- every Client is of utmost importance to us,
- we hold values such as trust and honesty in high regard,
- we take care of every small detail in our projects in order to make them absolutely error-free,
- we incorporate imagination in our designs to allow for further development of investment projects,
- our designs benefit from superior quality, reliable machinery and equipment manufactured by leading brands,
- when working on turnkey projects we cooperate with experienced and dependable suppliers.





# SERVICES

Our services portfolio is directed at the following sectors:

- cement, lime and gypsum industry,
  - energy sector,
  - industrial buildings industry,
- in the scope:

- preparation of tender proceedings,
- multi-sector design work,
- project architect's supervision services,
- investment-related representation,
- execution of turnkey projects,
- supply assembly services,
- consulting services,
- safety and environmental protection projects,

within the following sectors:

- technological and mechanical,
- communication,
- architectural,
- construction,
- electrical,
- automatics and control,
- water and sewage networks and HVAC (heating, ventilation and air-conditioning),
- economic.





# SERVICES

We offer design and engineering services, starting with a concept and leading to successful turnkey completions. Our scope of competence includes the construction of entire plants and facilities as well as expansion and modernisation projects of existing structures.

## Design services

**BIPROCEMWAP S.A.** prepares multi-sector technical documentation in all stages and in accordance with European, Polish, German and Russian standards. The range of completed design work includes:

- pre-investment analyses and studies,
- feasibility studies,
- look-ahead reports and policy analyses,
- development-related studies of industrial plants,
- application materials for the land development conditions decision,
- draft building permit documentation,
- static calculations,
- detailed and as-built designs,
- environmental impact analyses,
- technical and financial reports,
- financial audits,
- technical assessments.

Technical specifications of construction and commissioning requirements.

Construction and commissioning requirements.

Cost documentation:

- bills of quantities,
- investment cost estimates,
- summaries of costs.

Operating documentation of process facilities:

- documentation for the Office of Technical Inspection and Transportation Technical Supervision (UDT/TDT)
- user and operation manuals, maintenance and renovation guidelines, training paperwork.



# SERVICES



Our company also offers consulting services within the following fields:

- technical and financial,
- protection of the natural environment,
- finance,
- construction of new structures and modernisation of existing industrial facilities.

We cooperate with the largest global companies and enterprises when selecting machinery and equipment for the designed plants and industrial projects. Our company designs and implements challenging undertakings, also expansion and modernisation projects of existing facilities within all areas of the industrial buildings sector.



# COMPREHENSIVE PROJECT IMPLEMENTATION

As part of our comprehensive project implementation services (EPC Contractor function), we offer turnkey solutions which include: contract negotiations, preparation and financial supervision of concluded agreements, coordination of design work, supply assembly services as well as any other tasks related to the acceptance, start-up and commissioning of a finished facility.

The scope of completed work as part of the comprehensive project implementation services includes:

- pre-project tasks as well as conceptual and analytical studies,
- basic engineering designs and detailed designs,
- obtaining building permits,
- supply contracts as well as construction and installation work:
  - technical specifications,
  - implementation of tender proceedings,
- investment implementation:
  - supply assembly,
  - construction and installation work, work supervision,
- administrative and legal servicing of investments:
  - financial services,
  - legal services,
  - budgeting,
  - scheduling,
  - quality control,
  - obtaining occupancy permits,
  - commissioning of completed facilities together with the entire construction documentation.





# SUPERVISION OVER INVESTMENT IMPLEMENTATION



- project architect's supervision,
- project supervision by investor,
- fulfilling the function of the General Designer/Project Manager,
- fulfilling the function of the Contract Engineer.





# REFERENCES

Name of plant:

**Góraźdże Cement S.A.**, Chorula, Poland

Project:

**Construction of cement mill no. 4  
with a slag dryer**

Description:

The construction of a cement milling installation equipped with a slag dryer on the basis of a ball mill with capacity of 300 t/h. The installation included:

1. Pre-grinding bins for clinker, gypsum, limestone and slag to form a part of the new cement mill, together with clinker and slag transportation system.
2. Bins for two different types of fly ash.
3. New compressor room and electrical room for grinding plant devices.
4. New cement mill with a product separation system, filters, auxiliary devices and a new transportation system taking cement to the existing silos.
5. Hot gasses installation from the clinker coolers for slag drying.

**Description of the scope of services  
provided by BIPROCEMWAP:**

- Preparation of technical documentation relating to mechanical engineering, construction industry, installation and electrical sectors, instrumentation and automatics as well as the communication industry for the following stages:
  - technical and financial concept,
  - draft building permit documentation,
  - detailed design.

Project implementation period: 2009 ÷ 2012  
"Construction of the Year" 1st Degree Award



# REFERENCES

Name of plant:

**Góraźdże Cement S.A.**, Chorula, Poland

Project:

**Modernisation of rotary kiln no. 2**

Description:

The project included the construction of new and more efficient devices in the existing facilities and newly-designed facilities forming a part of the clinker burning process line. As part of the design activities, the existing facilities were modernised and new buildings, electrical rooms and a new cable-tray rack were designed. Also, a section of the plant's infrastructure was modernised.

**Description of services provided by  
BIPROCEMWAP:**

- Preparation of application materials for the land development conditions decision (WZiZT).
- Preparation of the draft building permit documentation for the following sectors:
  - technological and mechanical,
  - construction,
  - installation,
  - communication and infrastructure,
  - electrical.
- Preparation of detailed designs for the following sectors:
  - technological and mechanical,
  - construction,
  - installation,
  - communication and infrastructure,
  - electrical and automatics and control.

Project implementation period: 2007 ÷ 2011





# REFERENCES



Name of plant:

**Grupa Ożarów S.A.**, Karsy, Poland

Project:

**Construction of cement mill no. 5**

Description:

The construction of a milling installation on the basis of a vertical cement mill with capacity of 250 t/h. The installation includes:

1. Pre-grinding bins for clinker and additives to form a part of the new cement mill, together with clinker and ash transportation system taking them to the existing installations.
2. Compressor room for grinding plant devices.
3. New cement mill with an overhead crane, filter and a new transportation system taking cement to the existing process lines.
4. Hot gases installation.

## **Description of the scope of services provided by BIPROCEMWAP:**

- Preparation of technical documentation relating to mechanical engineering, construction industry, installation and electrical sectors, instrumentation and automatics as well as the communication industry for the following stages:
  - draft building permit documentation,
  - detailed design.
- Fulfilling the function of General Designer which also included the stage of selecting letters of enquiry for the purchase of machinery and equipment (participation in tender invitations, comparative analysis of offers).

Project implementation period: 2006 ÷ 2008





# REFERENCES

Name of plant:

**Broceni Cement Plant, Latvia**

Project:

**Broceni Kiln 5 Cement Plant**

**CEMENT LINE OF 1 450 000 TPY**

Description:

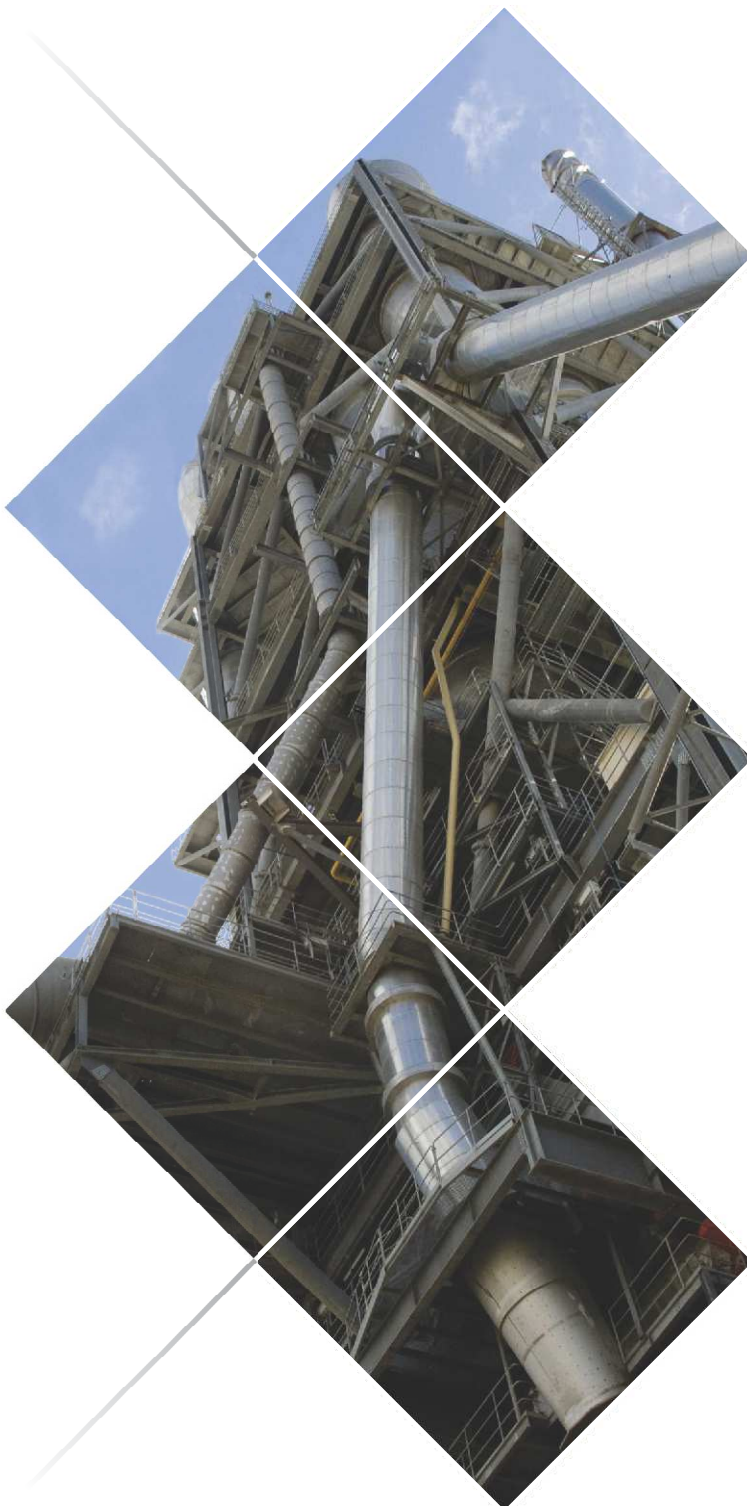
New clinker burning process line with capacity of 3500 t/d. Description of main installation components provided by BIPROCEMWAP:

1. Management of raw materials which included: limestone crushing plant, transportation system to a longitudinal storage area, transportation system from the storage area, clay crushing and drying plant with a transportation system into a storage area.
2. Raw material milling area which included: transportation system of raw materials to pre-grinding bins, drying and crushing mill which uses hot process gasses, mill dedusting filter.
3. Clinker burning area: kiln dedusting filter, transportation system of raw meal to the homo silo and cooling tower with heat exchangers, rotary kiln, cooler, transportation system of clinker to the storage area and from the storage area to the cement mill, auxiliary components for the cement mill.

**Description of services provided by BIPROCEMWAP:**

- Preparation of technical documentation relating to mechanical engineering, construction industry, installation and the communication industry for the following two stages: multi-variant concept and detailed design.
- Support provided for the investor at the stage of preparing letters of enquiries for the purchase of machinery and equipment.

Project implementation period: 2006 ÷ 2008



Name of plant:

**Zakład Wapienniczy**

**Lhoist Bukowa Sp. z o.o., Poland**

Project:

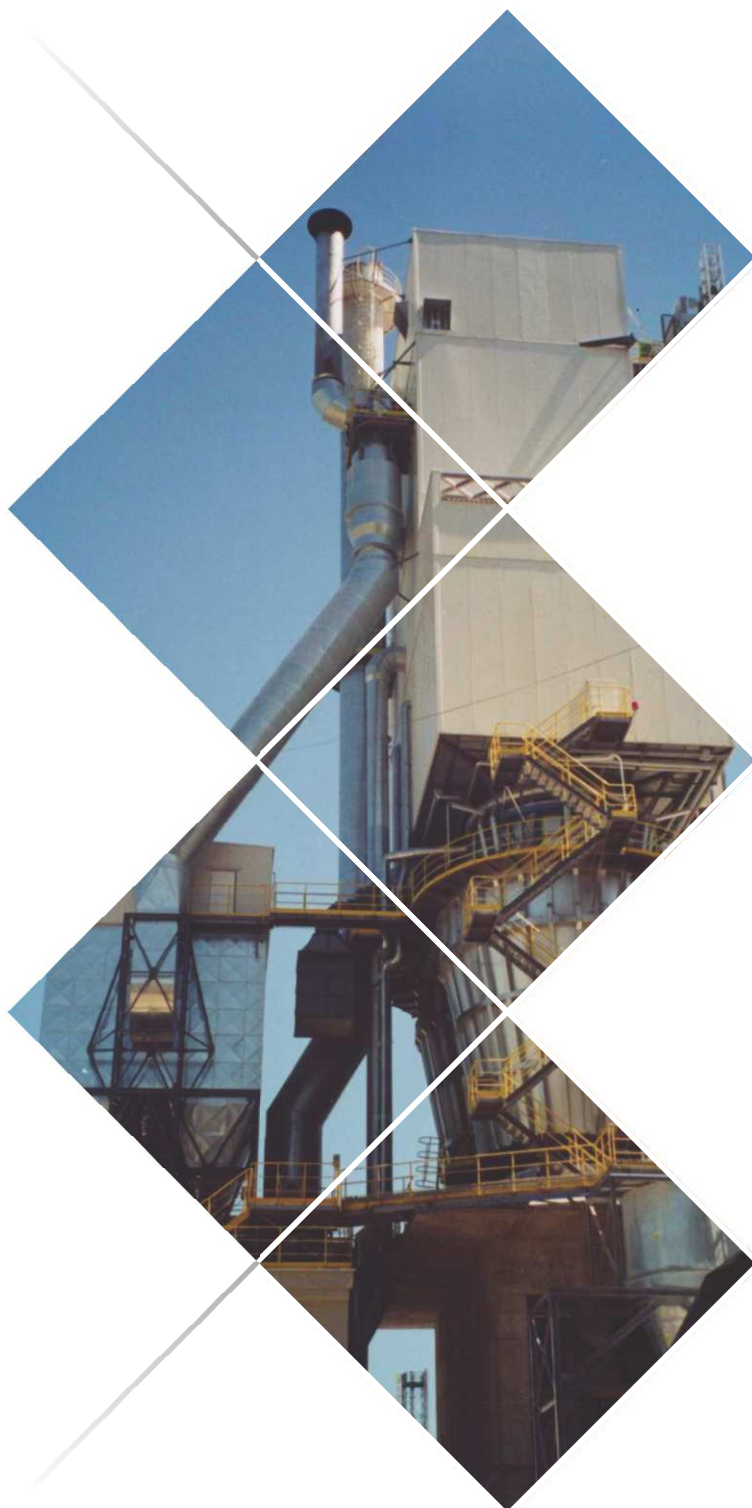
**Maerz lime kiln with a building housing  
a system of blowers, also a kiln  
dedusting system**

**Description of services provided**

**by BIPROCEMWAP:**

- Preparation of a multi-sector concept.
- Preparation of application materials for the land development conditions decision (WZiZT).
- Creation of a budget.
- Preparation of the draft building permit documentation for the following sectors:
  - technological,
  - construction,
  - electrical and automatics and control,
  - communication,
  - installation.
- Preparation of detailed designs for the following sectors:
  - technological,
  - construction,
  - electrical and automatics and control,
  - communication,
  - installation.
- Managing tender proceedings for construction work and equipment supply.

Project implementation period: 2000 ÷ 2001





Name of plant:

**Elektrociepłownia Dalkia Poznań ZEC S.A.**

Project:

**Expansion of the biomass management system for the biomass fuelled BFB boiler**

Description:

Expansion of the biomass management system to include a biomass unloading bay, biomass storage areas, biomass feeding systems leading to the boiler-side tank and the existing biomass and coal co-firing system.

Description of the main installation components:

1. IntraBulk unloading bays for unloading from vehicles and wagons.
2. Biomass transportation to storage tanks (two steel tanks – 1000 m<sup>3</sup> and two reinforced concrete tanks – 6200 m<sup>3</sup>).
3. Hay storage hall.
4. Biomass transportation to the boiler-side tank.
5. Biomass transportation to the co-firing installation.

**Description of services provided**

**by BIPROCEM WAP:**

- Preparation of technical documentation relating to mechanical engineering, construction industry, installation and electrical sectors, instrumentation and automatics as well as the communication industry for the following stages:
  - building permit design,
  - detailed design and workshop drawings,
  - as-built design.
- Machinery and equipment supply.
- Execution of electrical work.
- Project architect's supervision, personnel training and instruction manuals.
- Installation start-up and establishing necessary design capacity.

Project implementation period: 2010 ÷ 2011





# REFERENCES

Name of plant:

**TAURON Wytwarzanie S.A.**

**Siersza Power Plant, Trzebinia, Poland**

Project:

**Construction of a co-combustion installation for forest biomass in pulverised fuel boilers type OFZ 425 at blocks 1 and 2**

Description of the main installation components:

1. Biomass silo with a system of hoppers and a conveyor transporting the biomass to the oversized material separating station.
2. Oversized material separating station with a conveyor transporting the biomass towards the angle station.
3. Angle station with a switchgear and a conveyor transporting the biomass to the weighing and dosing station.
4. Weighing and dosing station with a container and a built-in system of scales.
5. Sampling equipment for biomass and coal; moisture meter.

**Description of services provided by BIPROCEMWAP:**

- Preparation of technical documentation relating to mechanical engineering, construction industry and electrical sector for the following stages:
  - draft building permit documentation,
  - detailed design and workshop drawings,
  - as-built design.
- Obtaining necessary approvals, permits as well as official and legal documents.
- Execution of construction and assembly work, and electrical work in regard to instrumentation, automatics and control.
- Project architect's supervision, personnel training and instruction manuals.
- Installation start-up and establishing necessary design capacity.

Project implementation period: 2005 ÷ 2006



Name of orderer:

**Orlen Projekt S.A.**, Plock, Poland

Project:

**Unloading and storage of limestone meal for the flue gas desulphurisation installation**

Description:

Turnkey project – the construction of an installation for unloading, storage of limestone meal and preparation of its water-based suspension for the flue gas desulphurisation installation.

The installation comprises unloading of limestone meal from tank trucks and tank wagons, two storage silos for limestone meal (each with volume of 2300 m<sup>3</sup>), preparation of water-based suspension from limestone meal in order to feed it into absorbers (two bins, each with volume of 70 m<sup>3</sup>). The project included also auxiliary facilities, such as a compressor room and an electrical room.

#### **Description of services provided**

##### **BIPROCEMWAP:**

- Preparation of technical documentation relating to mechanical engineering, construction industry and electrical sector (with some exceptions) for the following stages:
  - building permit design (fragment of a larger design),
  - detailed design,
  - as-built design.
- Supply of machinery and equipment, execution of construction, assembly and electrical work in regard to power supply and control.
- Installation start-up, guarantee test runs, training of the Investor's personnel, handover of the facility to the User.

Project implementation period: 2013 ÷ 2015







# SAFETY AND ENVIRONMENT PROTECTION

Our company prepares specialist documentation which is necessary to obtain environmental approvals and ensure the safe operation of facilities designed:

- safety and health protection plans (BIOZ),
- hazard and operability studies (HAZOP),
- environmental impact assessments:
  - project data sheets,
  - environmental impact reports,
  - environmental approvals.
- permits required under the Water Law Act.







# COMPETENCE, KNOWLEDGE AND EXPERIENCE

**BIPROCEMWAP S.A.** employs several dozen engineers – specialists with substantial knowledge in the field of design and construction of plants belonging to the cement, lime and gypsum sector, flue gas desulphurisation installations, deashing installations, biomass feeding systems as well as alternative fuel installations for the power industry and other industry sectors. To guarantee optimum performance of design and engineering services, in addition to its wide-ranging knowledge gained throughout its many years of activity on the market, BIPROCEMWAP S.A. also benefits from the know-how and experience of research institutes, higher education institutions and specialist firms with which the company cooperates on a daily basis.





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