



## Design Services of industrial and civil facilities

### 1. Pre-design:

- engineering survey of buildings, structures and engineering utilities;
- survey of operating plants;
- development of declarations of intent, business plans, feasibility studies and calculations.

### 2. Architectural design of industrial and civil buildings and structures of I, II, III responsibility levels.

### 3. Design of building structures:

- basements and foundations;
- masonry, concrete, reinforced concrete structures;
- metal structures.

### 4. Process design of facilities for:

- oil and gas production, treatment and transportation;
- oil and gas processing industries;
- chemical industry (ammonia, methanol, mineral fertilizers, soda ash production plants, etc.);
- metallurgy;
- agro industrial complex;
- communication.

### 5. Design of inside and outside engineering systems and networks:

- HVAC;
- aspiration, dust and gas separation;
- water supply and sewage;
- electric power supply (up to 6 kV), electric equipment and electric lighting;
- automation of production processes including Instrumentation, measuring and control devices;
- low current device systems (installation of wired radio units, telecommunication networks, internal communication, alarms, etc.);
- firefighting installation, fire alarm, public address and evacuation control, lightning protection.

### 6. Development of special design disciplines:

- technical-economic index, assessment of investment efficiency;
- environmental impact assessment;
- construction management plan;
- work production plan;
- management and working conditions of personnel (for production facilities);
- cost estimate documentation.

### 7. Adaptation of Foreign Companies Design Packages to standards and rules of CIS countries.

### 8. Design of reconstruction and total overhaul facilities.

### 9. Design Supervision.

### 10. General Designer Functions.