DESIGN

Design is one of INSTITUT IGH's core business activities, and by that, we mean a whole range of professional services in all market sectors.

Depending on the client's needs, our engineers, architects, and other experts can offer the complete service of developing conceptual, preliminary, detailed, and working designs in all sectors:

* Infrastructure (roads, highways, railways, traffic areas),
* Engineering structures (bridges, viaducts, overpasses, underpasses, pipelines, towers, industrial plants),
* Geotechnics (dams, tunnels, underground structures, foundations, protection of pits and cuts),
* Water engineering (structures, use and protection of water, artificial canals and waterways, hydropower systems),
* Maritime facilities (sea and river ports and marinas),
* High-rise construction (public and private buildings),
* Airports,
* Environmental protection,
* Energy and industry

More... (click on the page to open the rest of the text below)

Our services include:

* Preparation of design documentation for all transport facilities (motorways, state and other road categories, car parks and underground car parks), railway lines and road structures – bridges, long-span and complex geometry structures, as well as long tunnels with cutting-edge safety and technical equipment, landscaping designs, noise protection designs, and designs related to waste disposal.
* A conceptualisation of architectural projects and solutions, design of water engineering structures, industrial plants, public and private buildings (residential, business, public, sports, health, economic and other facilities) and geotechnical design.
* Finding solutions for demanding structures under heavy loads, such as steel mills, refineries, sports facilities, and power plants.
* Development of all levels of project documentation: developing conceptual, preliminary, detailed, and working designs and reviewing all project documents.
* Creation of reviews/evaluations of already created project documentation at the request of clients about its quality, which our experienced designers and auditors do.
* Creation of tender documentation, as well as management of the procedures necessary to obtain location and construction permits.
* Designs of traffic equipment and signalling, temporary traffic regulation studies for roads and motorways and tender documents for all infrastructure designs.
* Preparation of tender documents for infrastructure projects, construction-technical and traffic studies, feasibility studies, environmental protection, and professional basis for obtaining location and construction permits.
* Spatial planning and urbanism: spatial development plans, urban development plans and detailed development plans, spatial and traffic studies, studies of spatial possibilities, technical consulting (consulting services) in the field of spatial planning and urbanism.
* Physical-planning documents, urban planning, and design for the development of diverse activities, including the conservation of precious and non-renewable natural resources.
* Traffic and traffic infrastructure planning, creation of traffic models, design of financing and management models for traffic infrastructure, and analysis and consulting in traffic safety.
* Designing the rehabilitation of bridges, buildings of monumental and cultural heritage, reconstruction of industrial and other facilities, pavement structures, and the implementation of technical supervision services over rehabilitation and reconstruction.
* Preparation of reports on the implementation of urgent repair measures, reports on the evaluation of the existing state of the structure and construction renovation projects by our structural engineers.