



ENGINEERING DESIGN BUREAU
Consulting Engineers, Planners & Architects

COMMUNICATION & Transport

Overview

Engineering Design Bureau has developed a competent team of transportation and highway engineers and bridge designers.

The firm has successfully completed highway projects independently as well as in association with other firms. It now possesses the expertise to handle independently major highways and bridges. Extensive use is made of computer programs for the optimization of highway alignment, geometric design, preparation of bill of quantities, analysis of bridges, etc. The firm also provides advice on site selection, route location and surveying by latest techniques.



Services & Specifications

List of Services EDB Provides

EDB is competent in the whole spectrum of transportation engineering which includes the following:

1. Traffic counts:

A traffic count is a count of vehicular or pedestrian traffic, which is conducted along a particular road, path, or intersection. Traffic count is important in order to determine the usage of a route by vehicles as well as pedestrians so that structural improvements to roads can be determined. EDB provides these services and creates a source data. This is pure field work.

2. Origin and Destination Surveys:

This service is available by EDB in which we collect data and provide a detailed picture of the trip patterns and travel choices of a city's or region's residents and also modes of travels mostly used. This type of survey is normally used for the purpose building new road network or improving old road network.

3. Traffic Engineering:

Traffic engineering is used to achieve the safe and efficient movement of people and goods on roadways. EDB provides this service as per client's requirements.

4. Field and topographic surveys:

EDB provides these services via using aerial photography and sophisticated electronic distance measuring (EDM) equipment. These surveys are conducted before new construction commences especially when the work is related to infrastructure development.

5. Soil and Material Sampling and Testing:

EDB has track record of providing soil / geotechnical investigation services and our expert field team can collect accurate information for physical properties of soil at construction site and collect samples from soil / rock strata at drilled depth. We provide reliable and accurate results of soil / rock and chemical samples.

One of the prime requisites of good and reliable work is acquiring good material for construction. EDB provides services in which sample and test material commonly used in structural and highway construction are building stone, brick, structural steel, timber, concrete, crushed stone, gravel, bonding agents, etc.

6. Feasibility Studies:

EDB also provides feasibility studies for structures such as over pass, under pass, roads, bridges, towers, water tanks and multistory buildings. We also provide feasibility study for projects in which relevant factors are taken into account—including economic, technical, legal, and scheduling considerations.

7. Systems Analysis:

For every project there are protocols and procedures pre-determined which help navigate the project to success. This service of system analysis is available by EDB in which we define the projects goals or purposes and to discover operations and procedures for accomplishing them most efficiently.

8. Detailed design of facilities:

This service is provided by EDB in which we produce Detailed Engineering Document (DED) providing Structure Design, Foundation Design and Bill of Material (BOM) and we also provide Civil Work Site survey which is essential for the design work.

9. Evaluation studies of operating systems:

In this service we provide a comprehensive evaluation of the of the operating systems in order to optimize the designs of structures and to reduce overall costs.

Designing & Supervision by EDB

Based on testing and analysis EDB's expert engineers provide designs as well as supervision services in the following areas as per client's needs:

- Structure design
- Architecture design
- Public Health
- HVSE
- Electrical design
- Fire Fighting
- Structure 3D Modeling
- Construction Supervision.

Result & Output

Any of the outputs mentioned below can be provided depending of the scope and specifications as per client's requirements:

- Detailed Engineering Drawings (DED): Extensive, customizable output reports which includes any and all design aspects mentioned above in Design and Supervision section. Reports are viewable directly in PDF form only.
- Finite Element Analysis results for detailed solution diagnostics.
- DXF export of model geometry.
- Structure Feasibility report.
- Structure Stability certificate.

For more information call on our landline given below:

- Lahore, Head Office (HQ): +92-42-35169798, +92-42-35177494
- Karachi, Regional Office (South): +92-21-3-4556128
- Islamabad, Regional Office (North): +92-51-2651020
- E-mail: info@edb.com.pk