

Highway Design Consultancy

ERV Designs provides comprehensive [Highway Design Consultancy](#) Services for national highways, state highways, urban roads, and infrastructure corridors. Our services cover feasibility studies, detailed engineering design, and project management support in accordance with IRC, MoRTH, and international standards.

Our Cost Estimation Services

1. Our Highway Design Consultancy includes

- Feasibility Studies & Detailed Project Reports (DPR)
- Alignment Planning & Route Optimization
- Geometric Design (Horizontal & Vertical Alignment)
- Pavement Design (Flexible & Rigid Pavements)
- Traffic Studies & Forecasting
- Drainage & Storm Water Design
- Bridge & Cross-Drainage Structure Coordination
- Road Safety Audit & Traffic Management Plan
- Preparation of Tender Documents & BOQ
- Construction Supervision Support

2. Engineering Surveys & Investigations

To ensure accurate and reliable design outcomes, we conduct:

- Topographical Surveys using Total Station / Drone
- Traffic Volume & Axle Load Surveys
- Soil Investigation & Geotechnical Studies
- Hydrology & Flood Analysis
- Utility Mapping & Right-of-Way Assessment

3. Geometric Design Standards

All highway designs are prepared in compliance with IRC Codes, MoRTH Specifications, and relevant national/international standards.

Key design parameters include:

- Design Speed & Terrain Classification
- Horizontal Curve Design & Superelevation
- Vertical Profile & Gradient Control
- Sight Distance Analysis
- Typical Cross-Sections & ROW Planning
- Junction & Intersection Design

4. Pavement Design

Our pavement engineering approach includes:

- Traffic Load Assessment (MSA Calculation)
- Subgrade Evaluation (CBR Method)
- Flexible Pavement Design as per IRC 37
- Rigid Pavement Design as per IRC 58
- Pavement Performance & Life Cycle Analysis

Value Delivered

Our cost estimation services help clients:

- Experienced Highway & Bridge Design Experts
- Compliance with IRC & MoRTH Standards
- Advanced Design Software (AutoCAD, Civil 3D, MX Road, STAAD, etc.)
- Timely Delivery & Technical Accuracy
- Proven Track Record in Infrastructure Projects

Contact Details

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