

## MCSI RAIL SECTOR SERVICES

### PROJECT MANAGEMENT

- Project Planning
- Construction Management
- Contract Administration
- Worksite Management
- Tender Evaluation
- Risk Management
- Audits & Asset Condition

### TRACK & CIVIL

- Site Investigations
- Corridor Mapping
- Track Alignment
- Geotechnical & Drainage
- Yards & Stabling
- Tracks Structures
- Utilities Identification/Relocation

### SIGNALLING

- Level Crossings
- Train Control
- ATP/ATC
- Control Centre Systems
- Wayside Signalling
- Interlockings
- Train Detection

### TRACTION POWER

- Power Distribution
- Power Conversion
- Electrification
- Substations
- Electrolysis
- Catenary Systems
- Lightning Protection

### STRUCTURAL

- Station Design
- Structural Dynamics
- Tunnel Design
- Bridge Design
- Structure Inspection
- Noise & Vibration
- Noise Abatement

### COMMUNICATIONS

- Public Address
- Optical Fibre Links
- Vehicle Location Systems
- SCADA
- Passenger Information Systems
- Microwave Communication
- Safety & Security Systems

### TRANSPORT PLANNING

- Regional Transport Plans
- Demand Forecasting
- Strategic Planning
- Stakeholder Consultation
- Environmental Impacts
- Feasibility Studies
- Route Assessment

### RAIL OPERATIONS

- Logistics
- Emergency Response Plans
- Safety Audits
- Track Access Planning
- Risk Management
- Scheduling/Simulations
- Train Control Management

### TRANSPORT ECONOMICS

- Cost Studies
- Financial Modelling
- Project Evaluation
- Railway Economics
- BOOT/PPP
- Privatisation
- Economics Development