

STRUCTURAL HEALTH MONITORING SERVICES



SHM related services for civil infrastructures

- Measurement using sensor technology
- Load testing (static and dynamic)
- Short term & long term monitoring
- Bridge evaluation and rating
- Field testing and strain gauging
- Assessment of fatigue damage
- Remaining life estimation
- Finite Element Analysis

SCMCE S can provide services in the areas of:

Structural measurement and testing using sensor technology

- ☐ Recommend instrumentation scheme for Structural health monitoring
- ☐ Monitoring and measurement of structural and ambient parameters using sensor technology
- ☐ Load testing (static and dynamic)
- ☐ Short term & long term monitoring
- ☐ Site specific live load estimation
- ☐ Behavioral testing
- ☐ Bridge evaluation and rating
- ☐ Field testing / strain gauging to determine site and structure specific stress cycle information
- ☐ Assessment of fatigue damage
- ☐ Remaining life estimation.
- ☐ Analytical structural assessment including finite element analysis
- ☐ Training on Structural Health Monitoring (SHM) application to civil infrastructure

SCMCE S has established itself as a competitive team to provide Structural Health Monitoring solutions across India.

Our experienced team has a comprehensive range of skills and can provide a suite of services to assist asset owners in monitoring their civil infrastructure assets.

Road Bridge Monitoring



Railway Bridge Monitoring



Tunnel Monitoring



Monitoring structure In-service



Monitoring during construction

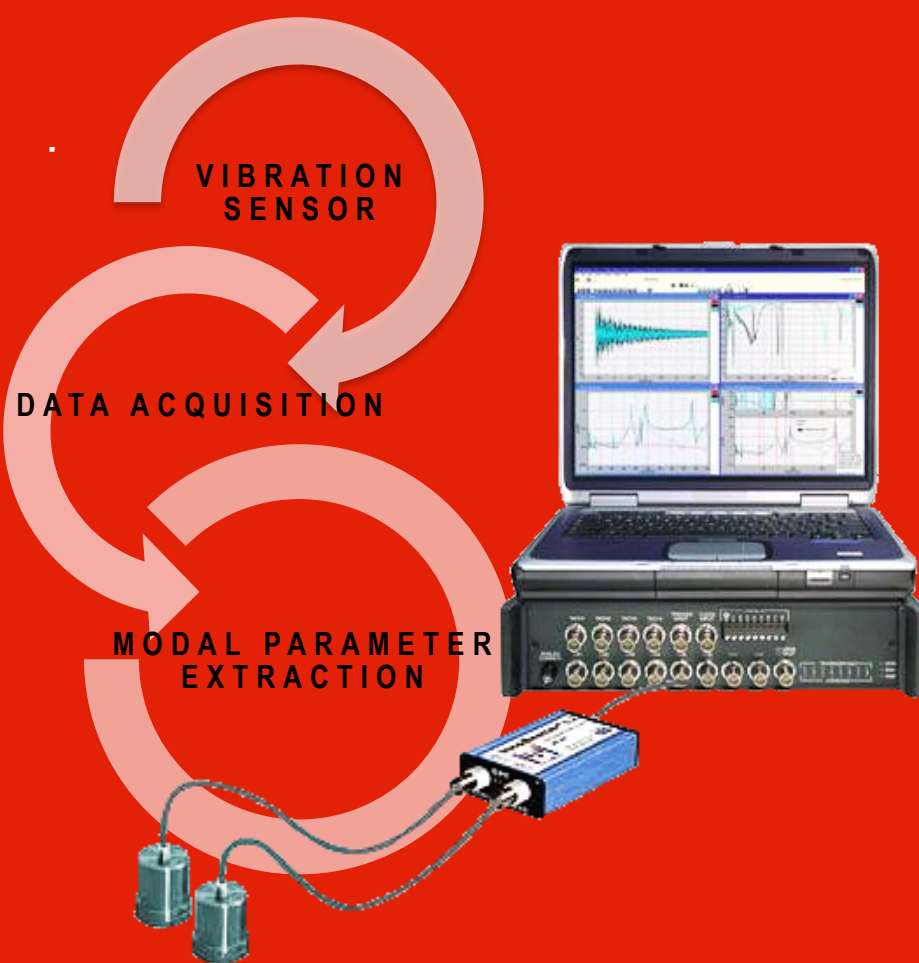


Monitoring during demolition



For a complete list of available literature please visit our website. www.scmces.com
www.scmces.in

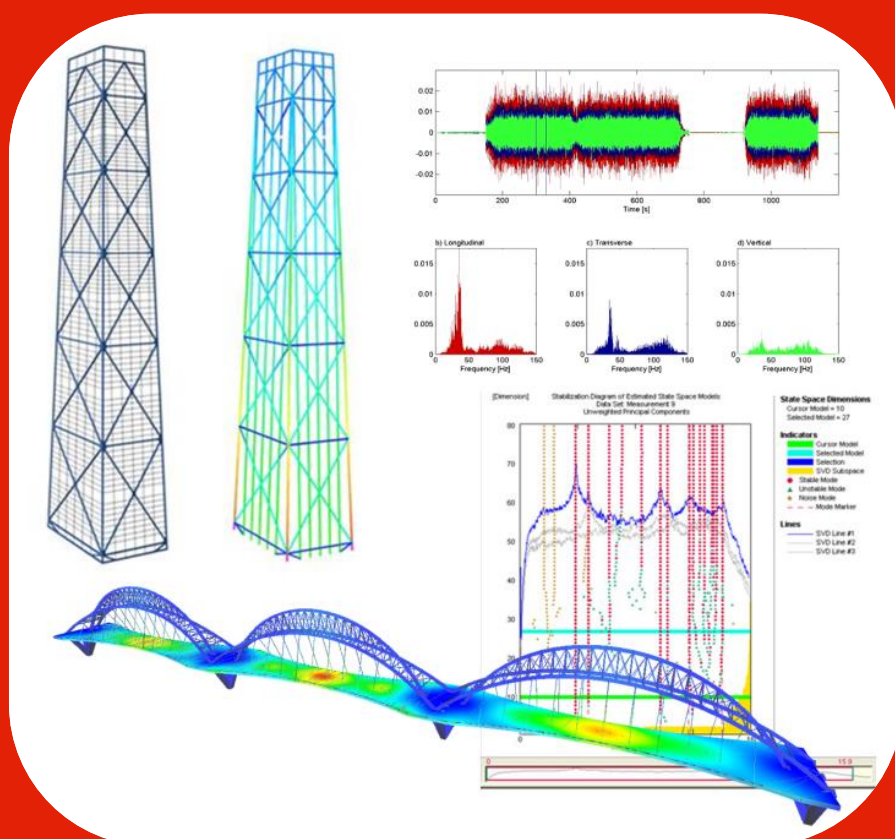
SCMCE has the capability to conduct Operational Modal Analysis primarily used in real-time structural monitoring systems. The stimulus in operation is ambient conditions such as traffic load, wind, and seismic activity. Operational modal analysis requires three steps to extract the modal parameters: (1) Vibration sensor (2) Data acquisition (3) Modal parameter extraction



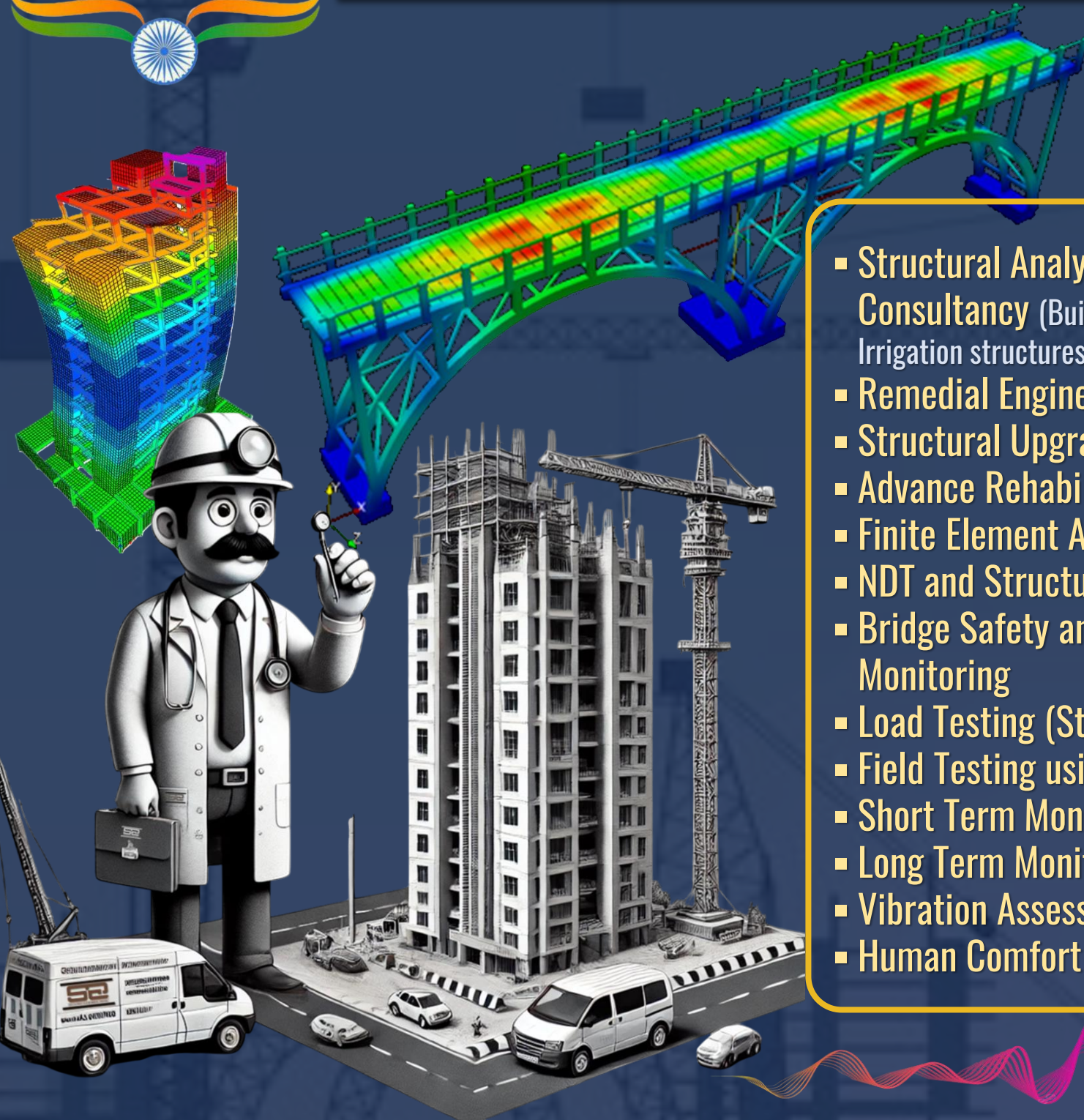
SCMCE can provide services in the areas of:

Analytical structural assessment including dynamic based finite element model updating

□ One method of dynamic based finite element model updating uses frequency response functions obtained from a dynamic load test and compares them with frequency response functions obtained from a finite element model.



For further information contact:
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- Structural Analysis & Design Consultancy (Buildings, Bridges, Culverts, Irrigation structures, Towers, etc.)
- Remedial Engineering.
- Structural Upgradation
- Advance Rehabilitation
- Finite Element Analysis and Updating
- NDT and Structural assessment
- Bridge Safety and Structural Health Monitoring
- Load Testing (Static and Dynamic)
- Field Testing using Sensor technology
- Short Term Monitoring
- Long Term Monitoring
- Vibration Assessment
- Human Comfort Investigation

SCMCES provides consultancy services for civil infrastructure, including Structural Analysis Design, Review, Audit, Remedial Engineering, Advanced Rehabilitation Technologies(ART), Structural Health Monitoring (SHM), services as well as research and training in related engineering domains.

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“Engineering Insight ❖ Monitoring Integrity ❖ Building Futures”



SCM Consultancy & Engineering Services



Structural
Analysis &
Design

Advanced
Rehabilitation
Technology

Structural
Health
Monitoring



TRAINING

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ABOUT US:

SCMCES provides Structural Health Monitoring (SHM) related services and advance rehabilitation solutions for civil infrastructure, including consultation, engineering, research and training services.



CONSULTANCY & ENGINEERING SERVICES

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