False Economy?

Consider a typical office building with up to 500 people working in it. After a substantial natural or manmade disaster, the building's owners would typically need to have a structural safety survey done before allowing the office workers back in to the building.

The process can take from many hours to a number of days depending on the size of the building and the suspected damage.

However, had the proprietor installed a live monitoring system, he would have been able to instantly say whether the safety levels had been breached. What is the cost of the survey? What is the cost of lost time due to 500 office workers being idle?

Contact us for a comprehensive consultation and discussion on your Building Structural Health Monitoring requirements.

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Our Services

Advice
Consulting
Technical Proposal
Financial Offer
Planning
Installation
Training
Typical Building

A five story building with a rectangular plan will require a simple installation with the following equipment:

- 2 x GMS Series Seismic Recorder with internal Triaxial Accelerometer
- 2 x GMS Series Seismic Recorder with internal Biaxial Accelerometer
- 2 x AC-71 Uniaxial Accelerometer
- GPS, Wireless time sync, WiFi or Cable

Contact us for the cost of a Turnkey Solution

What can be measured?

There are a host of options for measuring the changes in a structure. Each project will have its own unique requirements. The structural engineers will assess such requirements, which our experts can then provide as an appropriate package.

The most widely used packages for Building Structural Health Monitoring:

1. Vibration: Structural health, behaviour and modal analysis, comfort index
2. Strain: Fatigue and rainfall analysis
3. Displacement: Joints, cracks and differential settlements of foundations
4. Tilt: With reference to allowable limits
5. Environment: Wind speed and direction, humidity and temperature

Analysis Capabilities

A typical setup as above will provide valuable information about the health of the structure. Thresholds for acceptable changes in the structure could be set to provide automatic notifications. After a natural disaster or heavy construction work around the structure, valuable information about the change in structural behaviour can be provided at an instant. Insurance claims due to any damages to the structures can be settled based on credible evidence.

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