## **STUDY ON CONSTRUCTION INDUCED VIBRATION & MITIGATION**

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Sources of Construction Induced Vibration

Pile Driving, Sheet Pile Driving, Blasting, Construction Activities, Demolition, Traffic Impact of Construction Induced Vibration

Human perception, Direct damage to structures, Damage due vibration induced settlement, Serviceability of structure

Instrumentation at CE Department , IIEST, Shibpur, Used to Monitor Field & Laboratory Vibration



### FIELD STUDY LOCATIONS FOR ASSESSMENT AND MONITORING OF CONSTRUCTION INDUCED VIBRATION & MITIGATION by Expert Team of IIEST, Sibpur



## **RESERARCH PROJECT & DELOVERABLES**

# Project Title:PREDICTION OF CONSTRUCTION INDUCED VIBRATION AND<br/>DEVELOPMENT OF MITIGATION STRATEGY

Funding Agency:DEPARTMENT OF HIGHER EDUCATION, SCIENCE & TECHNOLOGY<br/>& BIOTECHNOLOGY, GOVERMENT OF WEST BENGAL

Deliverables : Mathematical Model has been developed for Prediction of Construction Induced Vibration



#### Fig. Validation of Developed Mathematical Model with Typical Field Data