

## Practical Guide To Design Dynamic Block-Type Shallow Foundation Supporting Vibrating Machine

**Authors :** Dodi Ikhsanshaleh

**Abstract :** When subjected to dynamic load, foundation oscillates in the way that depends on the soil behaviour, the geometry and inertia of the foundation and the dynamic exctation. The practical guideline to analysis block-type foundation excited by dynamic load from vibrating machine is presented. The analysis use Lumped Mass Parameter Method to express dynamic properties such as stiffness and damping of soil. The numerical examples are performed on design block-type foundation supporting gas turbine compressor which is important equipment package in gas processing plant

**Keywords :** block foundation, dynamic load, lumped mass parameter

**Conference Title :** ICCEIE 2014 : International Conference on Civil, Environmental and Infrastructure Engineering

**Conference Location :** Kyoto, Japan

**Conference Dates :** November 13-14, 2014