Profile

BOLPEX INTERNATIONAL LTD.

Civil & Mechanical Engineering

BOLPEX

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BOLPEX

OUR VISION AND MISSION STATEMENT

VISION

To be the preferred contractor of choice.
A company that our customers want to work with and our employees are proud to work for

MISSION

To be the preeminent provider of superior construction services by consistently improving the quality of our product; to add value for clients through innovation and integrity

BOLPEX ...THE COMPANY

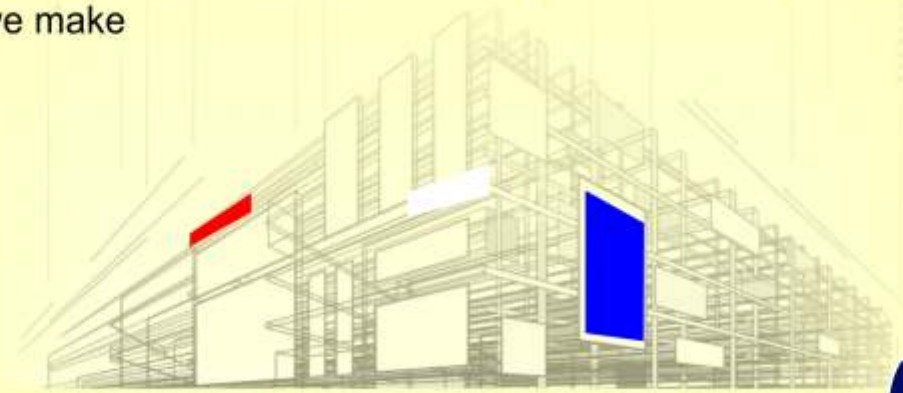
Bolpex International Ltd was founded in 2011 since then the company has grown dramatically in both size and reputation. We have a broad portfolio of successful completed projects across a range of sectors including residential, restoration, refreshment, hospitality, commercial , industrial, healthcare and pharmaceutical.

We have built our reputation on our client focus, hands-on approach and other competitive edge and reliable execution of all projects undertaken. This is achieved through our relentless attention to details and an focus to ensure experienced team with the drive and customer focus to ensure client satisfaction is given on all projects.

We continue to invest in modern business practices and management techniques in order to ensure that we remain at the cutting edge of our industry. We continue to build on our reputation with our focus firmly on growing the ability of the business to deliver in new and innovative ways.

Our aim is to be our client's first choice for construction related services.

We will anticipate their needs, and deliver on every commitment we make



Static Load Test (SLT) --Pile Test

Static Load Tests (SLT) of: foundation piles and pillars, diaphragm walls, anchors and soil nails

We carry out static tests in any possible configuration: vertical (compression and tension), lateral and raked piles load tests.

Lateral load test Raked compression test

The tests are performed by applying a maintained load method or a CPR (Constant Rate of Penetration) type tests. Thanks to the application of an up-to-date apparatus, we have the capacity to carry out cyclic tests, e.g. to simulate loads in railway track or vehicle traffic environment.

Kentledge Static Load Tests - Due to high costs of handling and operating of hoisting equipment, kentledge load tests are performed exclusively in cases where there is no possibility to use anchor piles, or anchor pile capacity is insufficient. Kentledge is also often used to carry out zone load tests, e.g. in case of gravel columns or improved soils.

Kentledge load test

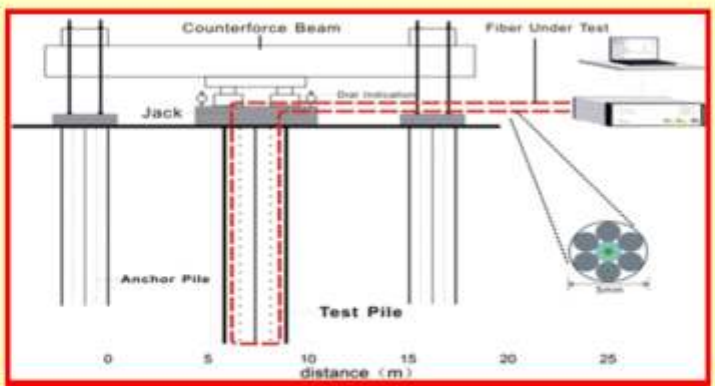
Static Load Tests with Anchor Piles - To carry our this type of test, extra-fine steel beams are required, hence their deformation under load is minimal. Threaded bars DYWIDAG Pre stressing Steel THREADBAR® are applied as connecting members to join beams to anchor piles. A wide range of our beams provides possibilities of test loading within a range of 100 KN up to 30 MN plus, using two/three/four/six/eight anchor piles arranged around the pile to be tested.

Load test with the application of anchor piles
Static Load Testing Applying a Compound Method (anchor-kentledge) – it is a combination of the two methods described above.

Anchor-kentledge type of load test

Static Load Testing of foundation piles with measurement of strain distribution on the side and base surface using fiber cables

Measurements using a technology developed by fibrisTerre/NZ Sensing.
We will soon publish a more detailed description of the method...



Scheme of a measurement setup

Preparation of a pile for strain measurements Prepared pile with fiber cable

Dynamic Load Tests (DLT) of foundation piles

Dynamic tests are a universally applied method to assess bearing capacity of foundation piles. Tests are relatively inexpensive and the time required for their preparation is quite short. Loading is generated by stroking the pile head with a hammer of the piling machine or with a steel pile driver (1%-5% of the load) lowered inertly from the height of 0.5m ÷ 3.0m. Logging of the stress wave moving along the pile is effected by an accelerometers and extensometers installed on the pile head, ca. two diameters from the stroke level.

Pile head prepared for dynamic load test Sensors installed on the pile head

Automatic device for dynamic tests of bored piles

Pile and diaphragm wall Integrity Testing (PIT/PET/CSL)

Sonic Echo Integrity Testing - The test is performed by application of the Pile Integrity Tester™ (PIT) or Pile Echo Tester (PET). The test belongs to the group of the 'Low Strain Dynamic Testing' and is intended to check the integrity of a pile by applying a slight stroke with a hammer on the pile head, hence generating a compression wave traveling along the shaft of the pile. A highly sensitive accelerometer placed on top of the pile records returning wave in a time function, i.e. according to the pile length.

Where any clear alteration is encountered, the wave is reflected and recorded prior to the recording of the signal stemming from the pile base. Due to this test, all the piles at the construction site can be checked quickly and efficiently, identifying their lengths, any necking of their diameters and/or cracks and even abrupt changes in geotechnical system of layers. Any potential deviations indicating pile structure-related problems are detected and analysed immediately. The test requires only a careful preparation of the pile head and ensuring a suitable access to the pile to be tested.

World Class Geotechnical Testing

PILE TESTING INSTRUMENT

Static load tester

JCQ-503A standard type

JCQ-503B remote supervision type NEW

JCQ-503C remote supervision type NEW

JCQ-503D portable rugged type

JCQ-503E wireless measurement and control type

JCQ-301 handheld type

JCQ-302 popular type

JCQ-401 Building Bolt Tester

JCQ-203 displacement detector

sensor

UPM-50 waterproof displacement sensor NEW

MS-50 displacement sensor

Capacitance type kilometer displacement sensor

CYB-10S oil pressure sensor

CYB-20S oil pressure sensor

YLR-3F pressure load sensor

Jack

QW single oil jack

QF double oil jack

Oil pump controller

JCQ-500FM oil pump flow controller

JCQ-500 oil pump switch controller

DBD single oil pump

BZ70-1 double oil pump

PAST CONSTRUCTION PROJECTS

Completed Residential building at World Bank Estate, Owerri

Completed Residential building at Abiriba

Ejindu Housing Estate, Aba

ONGOING CIVIL PROJECTS

a

Construction of water drainage way at Aba

On-going construction of flats at Housing Estate 3-3, Onitsha

On-going construction of Duplex at Housing Estate 3-3, Onitsha

BOLPEX CONSTRUCTION EQUIPMENTS

Excavator

Backhoe Loader

Bulldozer

Crawler Loader

Dump Truck

Cranes

Industrial Generator

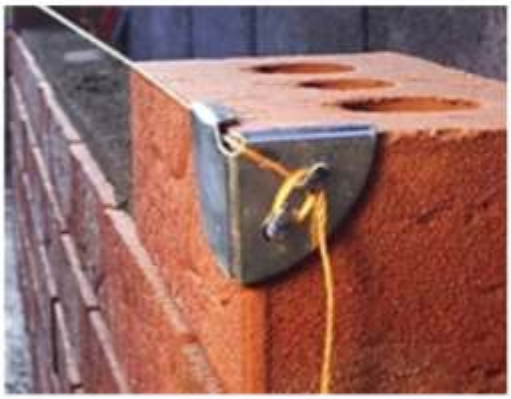
BOLPEX WAREHOUSE AND YARDS

Bolpex Ware-House

Bolpex Yards

CONSTRUCTION PROJECTS

Light Construction Tools



Construction Tools

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