

# BRCWC Pvt. Ltd

[Civil Engineering Consultant and Project Executor]



Geotechnical Engineering  
Foundation Consultancy  
Geophysical Testing  
Engineering Survey

## ABOUT US

We are multidisciplinary engineering consulting company. We started our journey in 2015 and in last 3 years we have been able to establish ourselves as a leading consulting group in North East India in various engineering value additions like, Geotechnical & Geophysical Engineering, Surveying etc. We have successfully completed over 100 projects across North East India.

## BRCWC TEAM

BRCWC has a strong and dedicated team of more than 20 people from various professional fields like Civil, Geotechnical and foundation Engineering and Survey Engineering, Management and Finance etc. We have a vertically arranged corporate team that ensures smooth operations and on-time deliveries of our contracts. For more on our offerings, get in touch with us and we would be glad to assist.

## GEOTECHNICAL ENGINEERING

Geotechnical Investigation is a part of Civil Engineering which deals with the technical behavioral properties of earth related materials. A Geotechnical investigation project ideally begins with a survey of underlying materials and their physical, mechanical and chemical properties. BRCWC holds market leadership position across North East India in organized geotechnical investigation sector. We are one of the leading Geotechnical Engineering Companies in North East India and are capable of providing all related engineering value additions ranging from Field Investigations, Field Testing, Laboratory Testing and Analysis as well as Foundation Consultancy. We have own Soil Mechanics Laboratory located in Brahmanpur Chungkham Leikai, Imphal 795001, where testing is conducted on soil, rock and water samples.



## Field exploration and Testing

- Different types of Boring & Drilling Through Soil & Rock
- Trial pits with large Undisturbed Sampling, Bulk Sampling
- Pocket Penetrometer Test
- Standard Penetration Test
- Dynamic Cone Penetration Test
- Static Cone Penetration Test
- Vane Shear Test
- Plate Load Test
- Cyclic Plate Load Test
- Electrical Resistivity Test
- Seismic Refraction Test
- Cross Hole Shear Wave Test
- Piezometer Test
- Block Vibration Test
- California Bearing Ratio Test
- Percolation Test (In Trial Pit)
- Permeability Test in Soil (Falling & Constant Head Pumping-In)
- Permeability Test in Rock (Single Packer & Double Packer)
- Pump Out Test (In Soil & Rock)

## Laboratory Testing

- Strength Tests like - Triaxial Shear Test
- Undrained with Pore Pressure Measurement
- Consolidated Drained, Unconfined
- Compression Test
- Direct Shear Test
- Vane Shear Test
- Proctor Density Test
- Compaction and Consolidation Tests
- Index Properties of Soil
- Consistency Limits of Soil
- Swelling Pressure & Swelling Index
- Permeability Tests
- California Bearing Ratio
- Crushing Strength
- Co-efficient of Softening of Rocks
- Point Load Test
- Chemical Test of Soil & Water Samples for determining pH value and concentration of Ions

# Foundation Consultancy

- Calculation of Bearing capacity of Soil
- Settlement of Foundation
- Design of foundation for different sub-soil conditions
- Slope-Stability Analysis for Embankments, Dams, Retaining-Walls etc.

# GEOPHYSICAL TESTING

BRCWC offers services for various Geophysical Tests like Seismic Refraction, Cross Hole Shear Wave, Down Hole Shear Wave, Dipole–Dipole Sounding, Vertical Electrical Sounding, and Underground Water Survey.



# List of Geophysical and ND test

- Seismic Refraction Test
- Cross hole Shear Wave Test
- Down hole Shear Wave Test
- Electrical Resistivity Test
- Vibration Parameters Measuring

# ENGINEERING SURVEY

Engineering Surveying is defined as those activities involved in the practice and application of surveying principles for the location, design, construction and maintenance and operation of engineered projects. In the past BRCWC has completed more than 10 jobs for various engineering surveys like Topographical, Hydrographical & Route Surveying with the use of state-of-art equipment like DGPS, Hand GPS, and Total Station & Digital Levels.



## Field exploration and Testing

- Topographical Survey with DGPS, GPS & Total Stations
- Leveling by Digital Level & Auto Level instruments
- Hydrographic Survey
- Profiling, Contouring, Leveling, Curve setting, etc.
- Route alignment for roads, bridges, pipelines, power lines etc.
- As built survey for developed city regions
- Quantity survey after construction

### List of Soil Investigation Equipment

Field Equipment	Nos	Laboratory Equipment	Nos
Hydraulic Rig	01	Tri-axial Shear Test Equipment	01
Boring Rig	02	Direct Shear Test Equipment	01
Drilling Rig	02	Consolidation Test Equipment	01
Cross hole Seismic Equipment	01	Vane Shear Test (Motorized)	01
Down hole Seismic Equipment	01	Unconfined Compressive Strength	01
Pressure Meter Equipment	01	Odometer	01
Static Cone Penetration Equipment	01	Rapid Moisture Meters	01
Seismic Refraction Equipment	01	Proctor's Test Equipment	01
Field Density Equipment	02	Cone Penetrometer	01
Block Vibration Test Equipment	01	Swelling Pressure Machine	01
Electrical Resistivity Test Equipment	02	Mechanical Sieve Shaker	01
Dynamic Cone Penetration Test Equipment	02	California Bearing Ratio Test Equip	01
Pump-out Test Equipment	01	Permeability Test	01
California Bearing Ratio Test Equipment	02		
PLT & CPLT Equipment	02		
Vane Shear Equipment	01		
Permeability Test Equipment	02		
Pocket Penetrometer Test Equipment	02		

### List of Geophysical Test Equipment

SL NO.	DESCRIPTION	MAKE	NUMBERS
1.	SEISMIC REFRACTION TEST (24 CHANNELS)	PASI GEOPHYSICS, Italy	1 SET
2.	CROSSHOLE SEISMIC TEST	PASI GEOPHYSICS, Italy	1 SET
3.	DOWNHOLE SEISMIC TEST	PASI GEOPHYSICS, Italy	1 SET
4.	EARTH RESISTIVITY TESTING EQUIPMENT	GEOSENSOR, India	1 SET

### List of Engineering Survey Equipment

SL NO.	DESCRIPTION	MAKE	NUMBERS
1	THEODOLITE WITH ACCESSORIES	SOKKIA	2 SETS.
2	LEVEL WITH ACCESSORIES AND SPOT LEVEL	SOKKIA	2 SETS.
3	ELETRONIC TOTAL STATION (SET610) WITH ACCESSORIES ALL COMPLETE SET.	SOKKIA	2 SETS.

## Persons for Business Contact

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**CIN: U74140MN2015PTC008422**

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### **Laboratory**

**Brahmanpur Chungkham Leikai, Imphal- 795001, Manipur, India**