



IMPORTANCE OF GEO-TECHNICAL INVESTIGATIONS:

Geo-Technical Investigation or commonly known- Soil Testing is an essential stage of every Construction Project after performing Topographical & Contour Survey. The main purpose of Geo-Technical Investigation is to obtain bearing capacity of soil, determination of various soil parameters which affects the foundation design based on existing Site Conditions.

Finally the ultimate aim of Geo-Technical Investigation is to provide a safe and economically feasible design of the foundations.

M/s Indu Geo Solutions (IGS) is committed to provide the best quality of the work/services within client's timeline for maximum satisfaction of our clients without any recurrences.

We are experts in carrying out Geo-Technical Investigations for the following areas:

- ✓ Residential, Commercial and Office Buildings/ Industrial Buildings;
- ✓ Industrial Structures & Berthing Structures, Ware Houses etc.;
- ✓ Highways projects;
 - Bridges, Flyovers, Grade Separators, ROBs/ RUBs;
- ✓ Power Projects (Thermal / Solar / Wind), Hydroelectric Power Project;
- ✓ Road, Railways, Runways and Pipelines;
- ✓ Refineries & Fertilizers Projects;
- ✓ Towers, Chimneys and allied structures;

About us

Indu Geo Solutions (IGS), Chennai is a professionally managed company with a combination of Geotechnical Engineers, Geologists, Surveyors and Civil Structural Engineers. We are well qualified and enriched with hands on experience in various Civil Engineering Projects. The main asset of IGS is to head each of the department supported by skilled and semi-skilled executives for providing services in the above-mentioned fields.

Dr. S. Narasimha Rao, former **Director/ Professor – Indian Institute of Technology (IIT) – Madras** is our esteemed Technical Advisor. He is also Director of TNRDC (Tamil Nadu Road Development Corporation), Advisor – Thirumal Thirupathi Devasthanams (TTD), Former Director – Dredging Corporation of India Ltd., (DCIL) , Advisor – Karaikal Port and so on. He is a well experienced, gamut of knowledge in various challenging Geo-Technical Investigation projects. He submitted various Technical/ Research Papers with reference to Geo-Technical Engineering for various National & International Journals. He has a total teaching experience for a span of 40 years in IIT-Madras and Geo-Technical Engineering professional experience for a span of 50 years who dealt various challenging sites not only India but all over the world.

Er. Sreenivas Sreemanthula is the **Founder, Chief Executive Officer (CEO)** with Masters of Technology in Soil Mechanics & Foundation Engineering (SM&FE) who is enriched with a hands-on

experience of more than 20 years in Geotechnical/ Geophysical Engineering field and successfully handled and executed various prestigious Geotechnical Investigations projects in all over India.

LIST OF EQUIPMENTS:

1. FIELD TESTING EQUIPMENTS:

- Boring rigs- (Rotary Calyx type - 10 sets)
- Truck mounted Hydraulic Rigs – 5 nos
- Tractor mounted Hydraulic Rigs – 5 nos
- Block Vibration Test (BVT) Setup – 1 no.
- Cross Hole Shear Wave Test Setup – 1 no
- Seismic Refraction Test (SRT) Test Setup – 1 no
- Cyclic Plate Load Test (CPLT) setup – 1 no
- Standard Penetration Test (SPT) setups – 8 Nos.
- Rock drilling rigs (Rotary - 2 sets)
- Plate load setup (1 no.)
- Cyclic Plate Load Tests setup-1no;
- Electrical Resistivity Test setup – 2 nos.
- Dynamic Cone (DCPT) test setups (4 nos.)
- Static Cone (SCPT) test setup (1 no of 10T capacity)
- Field CBR test setups – 2 nos.
- Hand Augers – 4 nos
- In-situ Permeability test setups (2 nos.)
- In-situ density test setups (core cutter and sand replacement (2 nos.)
- In-situ moisture test setups (2 nos.)

2. LABORATORY TESTING EQUIPMENTS:

- Sieve Analysis setup – 10 nos.
- Hydrometer Analysis test apparatus – 4 nos
- Atterbergs (LL/PL) test apparatus – 5 nos
- Shrinkage Limit test apparatus.- 5 nos
- Pycnometer & Specific Gravity bottle for Specific Gravity test – 5 nos
- Tri-axial Shear test apparatus with pore pressure measurement – 2 no
- Direct Shear test apparatus – 2 no.
- Consolidation Test Apparatus – 2 no.
- Hot Air Ovens – 4 nos
- pH meter – 4 nos
- Chemical test set-up for soil and water samples – 1 no.
- Weighing machines (Manual & electronic) – 4 nos.
- Sample Extractor – 4 nos
- CBR test apparatus – 1 no.
- Proctor test apparatus – 1 no.

- UCCS test apparatus – 1 no.
- Permeability Test Apparatus – 1 no.
- Point Load Index test for rock core testing – 1 no.
- Rock Compression Testing Machine – 1 no.

CLIENTELE: Our esteemed Clients include but not limited to the following:

Govt. Bodies:

Central:

- ✚ The Garrison Engineer, NAD, Visakhapattanam AP
- ✚ Central Public Works Department (CPWD), Chennai

State:

- ✚ The Executive Engineer, DRDA, Villupuram Dist., TN
- ✚ Highways Dept., Govt. of Tamil Nadu

MNC's:

- ✚ M/s Greenko Group, Hyderabad, Telangana State,
- ✚ M/s Siemens Gamesa Renewable Power Pvt. Ltd., Chennai
- ✚ L&T Construction, Buildings & Factories, Chennai
- ✚ M/s CDM Smith India Private Limited., (formerly Wilbur Smith Associates Pvt. Ltd.)
- ✚ M/s SunEdison Energy India Pvt. Ltd.,

POWER SECTOR:

- ✚ M/s KSK POWER COMPANY LTD., HYDERABAD
- ✚ M/s KBP Group, Chennai

Architects:

- ✚ M/s RJ Architects Pvt. Ltd., Chennai
- ✚ M/s Design Key Studios, Chennai
- ✚ M/s Master Piece Architects, Chennai
- ✚ M/s LandTech. Engineers & Architects, Chennai

Structural Consultants:

- ✚ M/s Prahalad Civil & Structural Engineers (PCSE) Pvt. Ltd., Chennai
- ✚ M/s Arunkumar & Associates, Chennai
- ✚ M/s Das Consultants, Chennai
- ✚ M/s AARKAY Associates, Chennai
- ✚ M/s Keerthi Associates, Chennai
- ✚ M/s Structo Engineers, Chennai

Builders & Flat Promoters:

- ✚ M/s Estilo Construction, Kancheepuram, TN
- ✚ M/s Master Builders, Chennai
- ✚ M/s Winner Foundations Pvt. Ltd., Chennai;
- ✚ M/s Renga Shelters Pvt. Ltd., Chennai,
- ✚ M/s South India Properties Pvt. Ltd., Chennai
- ✚ M/s Shanthi Builders, Chennai
- ✚ M/s Vijay Builders, RA Puram, Chennai
- ✚ M/s Concrete Builders, Royapettah, Chennai
- ✚ M/s Laabdhi Developers, Chennai
- ✚ M/s Man & Soil Builders Pvt. Ltd., Chennai
- ✚ M/s Rajmani Builders Pvt. Ltd., Chennai
- ✚ M/s S. R. Foundations, Chennai
- ✚ M/s Srivarie Foundations, Chennai
- ✚ M/s K. E. Housing Pvt. Ltd., Chennai
- ✚ M/s Goodwill Constructions, Chennai
- ✚ M/s Man & Soil Builders Pvt. Ltd., Chennai
- ✚ M/s Laabdhi Developers, Chennai
- ✚ M/s Raajmani Builders Pvt. Ltd., Chennai
- ✚ M/s Jamals, Chennai
- ✚ M/s NCC Urban Infrastructure Limited., Bangalore

Industries & Ware Houses:

- ✚ M/s JMFTZ – SEZ, Mannur, Chennai
- ✚ M/s Indo Cool Composites, Chennai
- ✚ M/s Indus Steels & Alloys Ltd., Hosur/ Bangalore

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