



# CIVIL TECH LABS

(Geo & Construction Material Testing)

# 10-122/4, Road No. 7, Satyanarayana Colony, NAGARAM Municipality,  
Near By ECIL Cross Roads, Hyderabad – 500 083, Telangana.

Contact Nos. 9948229391/8885558690/9848288510/7660000549

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## Organization Providing Recognition

- Civil Tech Labs is Accredited by NABL (Geo & Construction Material Testing).
- Civil Tech Labs is an ISO 9001-2015 Certified Lab Approved by QMS Certification

## About Us

The Strength of the group lies in its Dedicated, Multi Discipline Professionals, Innovative Management and Lab Equipped with Sophisticated Equipments/Instruments. Established in 2014.

“**CIVIL TECH Labs**” culture is grounded in Integrity & Respect. This means holding the highest Standards of Ethical Business Culture. This Reputation for Adhering to these Standards has created a faith in its customers and helped in maintaining an unbreakable bond with more than 100 clients within a short span.

## Objectives:

- To Establish a Centre of Excellence in the Field/Laboratory of Testing.
- Complying to all National/International Standards, Codes, International Journals, and Regulatory Requirements.
- Development of our facilities and Training personnel.
- Continually improving/implementing our processes and services.
- To team up with reputed Educational and Research Organizations and Organize collaborative programs for promotion of research and training pertaining to the construction materials.
- To organize awareness programs for the rural areas for proper utilization of the construction materials.
- Fulfil the Customer Satisfaction.

## Our field/Laboratory of Activities includes:

- Geo-Technical Investigations
- Laboratory and Field Testing of Constructing Materials and Components.
- Semi-destructive Testing (Core Test) for CC Roads and RC structures.
- Third Party Quality Assurance of Construction activities

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### **Geo Technical Investigation:**

- Collection of Disturbed and Undisturbed soil samples for Laboratory Testing.
- Standard Penetration Test.
- California Bearing Ratio, Safe Bearing Capacity, Compaction and in-situ density Tests for Compaction Control in Embankments and Highways.

### **Laboratory and Field Testing of Building Materials and Components:**

- Carrying out laboratory Tests on Construction Materials such as Cement, Soil, Coarse and Fine Aggregate, Clay Bricks, Fly ash Bricks, Concrete Blocks, Timber, Rebar, etc. as per relevant Indian Standards.
- Concrete Mix proportioning for strength, workability and durability for varying application.
- Bitumen Content, Density, and in Laboratory.
- Laboratory Testings of GSB, WMM.

### **Semi-Destructive Testing (Core Test) of RC Structures and CC Road:**

- Assessment of Harden Concrete in-situ Strength through Core Extraction.
- Assessment of Harden Concrete Cubes.

### **Third Party Quality Assurance of Construction activities**

- Setting up a team of Engineers at site or carrying out periodic site visits depending on site requirement for quality inspection.
- Checking of materials of construction and review of test reports, collecting samples at site, if necessary to examine the quality.
- Quality inspection of Materials and works including Form work, fabrication, Concreting and Finishes.
- Furnishing periodic reports on quality aspects to the client.

### **Contact Us**

**M/s. CIVIL TECH Labs,**

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## **Our Esteemed Clients**

1. Roads & Buildings Department
2. Irrigation Department
3. Panchayat Raj Department
4. RWS
5. HMDA
6. GHMC
7. TSEWIDC
8. TSIIC
9. TSMSIDC
10. TSPHCL
11. Public Health
12. Karimnagar Smart City
13. Forest Dept
14. Yeshpal Constructions Pvt. Ltd.,
15. Coastral Infra Projects
16. Sri Sai Constructions
17. Sri Laxmi Ramachandra Projects
18. Anitha Constructions
19. Hemchand & Co
20. Shivam Roads & Infra Structures
21. Navayuga Engineering
22. Afcon Infrastructure Ltd
23. NSPR
24. Kapil Infra Private Limited
25. SNIST
26. Mahavir Contructions
27. Lucid Laboratories Pvt. Ltd.,
28. Aditya Constructions
29. Poulami Infra Pvt Ltd
30. KSR Infra
31. Mark infra
32. AR Constructions
33. Q Constructions
34. Akishita Avenues,
35. Jayam Engineering
36. Maram Infra Projects
37. RSS-JV,
38. Sudha Construction,
39. DEC Infrastructure & Projects
40. B.V.R Constructions
41. Pioneer Engineering works
42. . Craftsman Projects
43. SUROJ BUILDCON PVT. LTD
44. Sri Sai Tanishq Constructions,
45. Medha Servo Drives Pvt Ltd,
46. Raghava Constructions
47. Varenyam InfraTech,
48. Nitigya Constructions Pvt.Ltd,
49. Superior labs
50. Madhumitha Constructions
51. GESTS Consutancy
52. Aryan Constructions
53. BLG Projects
54. GSR Consrtrictions
55. Kakatiya Constructions
56. SSR Crest Engineers
57. Chandana Infra Projects
58. G R Consultancy

## List of Facilities:

Sl. No.	Material	Name of Tests	Quantity of samples required for test
1	Soil	Grain Size Analysis	60 Kgs.
		Liquid Limit & Plastic Limit	
		OMC & MDD	
		CBR	
		SBC	
		Swell Pressure (including Grain Size Analysis, LL, PL, OMC, MDD)	
		Free Swell Index	
		Organic Impurities	
		Specific Gravity	
		Void Ratio	
		Permeability	
		100% Saturation	
2	SPT	SBC	Un-Disturbed
3	Bituminous Mixes	Sieve Analysis	10 Kgs
		Bitumen Content	Each Layer
		Density by Core Extraction	20 Kgs of each size of sieve
		Bitumen Job Mix Formula	
4	Bricks/Fly Ash	Water Absorption	5 $\geq$ No's
		Compressive Strength	
		Efflorescence	
5	Cement	Physical Properties	20 Kgs.
6	Coarse Aggregate	Sieve Analysis	25 Kgs.
		Specific Gravity	
		Bulk Density	
		Flakiness & Elongation Index	
		Water Absorption	
		Impact Value	25 Kgs.
		Crushing Value	
		Aggregate Abrasion Value	
		Soundness Loss	
		Petro graphic Test	
Potential Alkali Silica Reactivity test (Mortar Bar Method as per ASTM C 1260)			
7	Fine Aggregate	Sieve Analysis	25 Kgs
		Specific Gravity	
		Bulk Density	
		Bulking & Moisture Content	
		Silt Content	
		Water Absorption	
		Materials Finer than 75 $\mu$	
		Organic Impurities	
		Soundness Loss	
		Petro graphic Test	
		Potential Alkali Silica Reactivity test (Mortar Bar Method as per ASTM C 1260)	

8	Concrete Cores	Extraction & Testing	03Nos.
		Extraction	
9	Concrete Blocks	Water Absorption	
		Compressive Strength	
		Density	
10	Concrete Cubes	Compressive Strength	
11	Concrete Mix Design	Upto M-45 Grade	Cement – 1Bag FA- 25Kgs CA- 25Kgs (each size)
		Above M-45 Grade	
12	Granular Sub Base (GSB)	Sieve Analysis	60 Kgs
		Atterberg limits	
		Specific gravity	
		Water absorption	
		OMC&MDD	
		Job Mix Formula	
		Density by Sand Replacement	
13	Wet Mix Macadam	Sieve Analysis	60 Kgs
		Specific gravity	
		Water absorption	
		OMC&MDD	
		Job Mix Formula	
		Density by Sand Replacement	
14	Paver Blocks	Water Absorption	4 $\geq$ No's
		Compressive Strength	
15	Reinforcing Steel	Mass /Running meter	3 Nos of 1.0 Meter
		Tensile est/Elongation/0.2% proof	
		Bend Test	
		Rebend Test	
		Chemical Properties	3 Nos of 1.0 Meter
16	Structural Steel	Tensile Test	1.0 M-1 No. 0.5 M-1 No.
		Bend Test	
		Chemical Properties	
17	Water	Suitability for Concrete	1.0 Lt
18	NDT	Non-destructive Ultrasonic Pluse Velocity Non-destructive Testing of Concrete- Rebound Hammer	