

ACCREDITED WITH FOLLOWING AGENCY



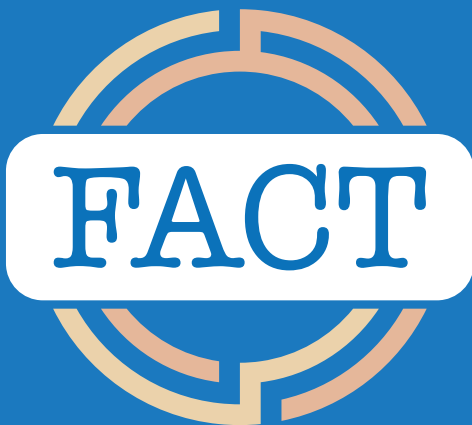
ISO - 9001:2015



TC-10148

**NATIONAL
ACCREDITATION
BOARD FOR CALIBRATION AND TESTING
LABORATORIES**

CERTIFICATE NO. TC - 10148



**Forensics
Application for
Civil Consultancy &
Testing Lab**

www.facttestlab.com

INTRODUCTION

Forensics Application for Civil Consultancy and Testing LAB (as known as FACT Lab) established in the year 2019 is India's first forensic based civil testing lab, at the time when awareness for testing of soil and building structure with a view to select appropriate foundations for structures is increasing in clients, consultants and architects and are asking for the quality work.

We have been accredited by NABL ISO/IEC 17025:2017 and ISO: 9001 - 2015.

We at FACT Lab are planning not only to fulfil the need for a systematic laboratory but also to contribute in cultivating the appreciation as comprehension for different types of testing. The laboratory is also proud of assisting the designers to select type, size and depth of foundation appropriate to the structures in relation with the soil strata at the site of execution.

Besides this the laboratory also undertakes physical and mechanical testing of building materials and foundation soil, design of concrete mixes having high range of compressive strength. And also it offers its services for control and evaluation of concrete quality at site.

The laboratory is the first in India to develop forensics based structure analysis using non-destructive testing by combined rebound hammer and ultrasonic pulse method. the laboratory also undertakes complete NDT on existing structures and provides useful and timely information for due action for restoration/retrofitting or rehabilitation. till date our laboratory has carried out more than 300 geotechnical projects, 50 surveys and 200 NDT projects.

We also have been associated with NABL Labs, Drilling contractors and more companies for collaboration and big projects.

“Forensics Application for Civil Consultancy and Testing Lab (FACT Lab)” is a multi-functional body that consults versatile disciplines. Also it performs various physical & mechanical tests and many other construction quality related jobs. As the core intension of the firm is to enhance the quality of structures, it is its goal to give major influence in the construction industry. So to fulfil the requirements, there are several expertise of this firm as to give as much as comprehensive contribution to raise the pre and post construction structural qualities and are mentioned below.

- As this firm has special addition of forensic based application to the existing/under- construction structures, it's some of the functions are restoration, retrofitting and rehabilitation. Also it could be necessitate that the functionality of any existing structure is to be altered such a way that it requires more or less interpolations for the same and all it requires is the detailed investigations and elaborations. And all the desired requirements are fulfilled here with higher degree of excellence.
- It evaluates various soil parameters related to foundations, retaining structures, anchoring structures and earthen works with the help of testing and results interpretation.
- In accordance with the structural quality enhancement, this firm gives monitorial and inspectional services to the developers along with the special implementation of the forensics knowledge. (i.e. third party investigation).
- It also does various types of land surveys that are mandatory for the commencement of construction up to its completion.
- Also it has a very good team of excellency in Architectural exterior and interior designs and visualizations.

It is to be mentioned about that one of the divisions of the FACT is a testing laboratory. Which is a material testing body that performs the several mechanical and physical parameters of various construction materials. All the testing parameters' procedure and result analysis have been verified by the constituent board of quality council that is “National Accreditation Board for Testing and Calibration Laboratory” as known as NABL, which is the supreme authority in controlling testing and calibration.

Moreover, since the acronym of “Forensics Application for Civil Consultancy and Testing lab” is “FACT”, the team never lets the reputation down of the name. Every associated member from FACT lab is trained to function one's duty with honesty and wisdom. As they are subjected to the works that may determine the crucial construction projects, their personnel possess a very good experience and excellent competency to execute every individual functions with precision, to analyses the results with accuracy and to produce the presentable investigation reports.

TEAM

Mr. Siddharth Shah **Owner – Technical Head**

Mr. Siddharth Shah has post-graduation degree (M. Tech. in Civil Engineering) with Specialization in Forensic Structural Engineering. He has years of experience in testing, restoration and structure assessment. He has been part of many government projects for testing and analysis projects. He has core knowledge in structure analysis and Non-Destructive Testing, Structure Assessment, Material Testing and Soil Testing.

Mr. Harsh Sheth **Owner – Project Head**

Mr. Harsh Sheth has post-graduation degree (M. Tech. in Civil Engineering) with Specialization in Forensic Structural Engineering. He has years of experience in geotechnical testing. He has been part of many government projects for testing and analysis projects. He has core knowledge in geotechnical and structure analysis of building and foundation.

Mr. Arman Saiyed **Geotechnical Engineer**

Mr. Arman Saiyed has a post-graduation degree (M. E. Civil Engineering) with specialization in Geotechnical Engineering. With 5 years of experience, he has competency in testing, analyzing and interpreting the soil as a foundation material and also various other construction materials. He has deliberateness and is having ability to conceptualize the different approaches and terminologies for the interpretation, analysis and execution.

The team with above mention leads in addition with 5 field/testing engineers and 8 helpers.

Along with the field members, all the executives often visit the field for the supervision.

Ms. Tincy Sharma **Geologist**

MSc Geology with 10 years of experience.

Mr. Marut Chaudhary **Testing Engineer**

B. Tech. Civil – Material testing engineer with 3 years experience

Mr. Parth Prajapati **Structural Designer**

M. Tech. Civil – Structural designing with 4 years of experience

Mr. Chirag Rawal **Structural Engineer**

M. Tech. Structure – Structural designing with 2 year of experience

Mr. Mitul Mehta **Survey Head**

B. Tech Civil – Survey execution with more than 15 years experience.

Mr. Hitesh Talpada **Site In Charge**

Diploma Civil – Filed supervisor with more than 5 year of experience.

Mr. Virbhadra Zala **Site Head**

Diploma Civil – Field testing with more than 5 years of experience.

Mr. Raj Chauhan **Lab Testing and Data Evaluator**

Diploma Civil – Testing and data evaluation with more than 2 years of experience

Mr. Ayush Desai **Admin**

Diploma Civil – Testing and administration with 1 years of experience

TESTS THAT WE DO

A. Soil as a foundation material

Laboratory Tests

1. Gradation
2. Liquid Limit
3. Plastic Limit
4. Shrinkage Limit
5. Hydrometer Analysis
6. Direct Shear
7. Tri-Axial Shear
8. Consolidation
9. Permeability
10. California Bearing Ratio
11. Moisture Content
12. Specific Gravity
13. Light Compaction
14. Heavy Compaction
15. Swelling Pressure
16. Unconsolidated Compressive Strength
17. Free Swell Index
18. Density of Shelby

Field Tests

1. Field Density
2. Soil Core
3. Sand Replacement
4. Field Moisture Content
5. Plate Load Test
6. Standard Penetration Test
7. Static Cone Penetration Test
8. Dynamic Cone Penetration Test
9. Vane Shear Test
10. Pile Load – Static & Dynamic
11. Electric Resistivity
12. Ground Water Mapping

B. Other building materials

1. Cement Physical & Chemical
2. Sand (Fine Aggregate)
3. Coarse Aggregate
4. Bitumen & Bitumen Mix
5. Paver
6. A.A.C
7. Tiles
8. Tile Adhesive
9. Bricks
10. Concrete Blocks

C. Metal

1. Steel Reinforcement bars
2. Metal Plate
3. Weld Test
4. Steel Wet Analysis
5. Steel Spectro Analysis

D. Non Destructive Survey

1. Rebound Hammer Testing
2. Ultrasonic Pulse Velocity Testing
3. Half Cell Potential Testing
4. Carbonation
5. Concrete Core Cutting and Testing
6. Pull off and Pull out Testing
7. Covermeter
8. Rebar Scanning & Mapping

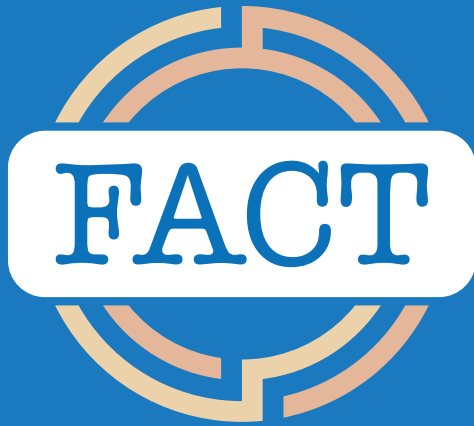
CONSULTANCY SERVICES

- Testing soil as a foundation material and several building materials.
- Designing shallow and deep foundations, earthen slopes, retaining walls, anchored structures, techniques etc.
- Structural Designing
- Architectural Design
- Interior Designing
- Restoration Designing
- Old Structures Designing
- Visual Inspection
- Third Party Inspection
- Foundation Designing
- NABL Consultancy

COMPLETED PROJECTS

- 1. Kalathiya Engg. & Const. Ltd, National Highway Authority of India**
Four/Six Laning of Bodhre to Dhule, Maharashtra – Running Project – ETC 05/22
- 2. Delhi Metro**
Delhi Haryana Metro Soil Investigation, Delhi
- 3. Uttarakhand World Bank Work**
Soil Investigation for Bridges, Uttarakhand
- 4. Ganga Expressway – National Highway Authority of India**
Soil Investigation for whole Highway project, UP
- 5. Bilaspur Smart City**
Soil Investigation Project, Chhattisgarh
- 6. Sardar Sarovar Narmada Nigam**
Bridge Structure Assessment, Gujarat
- 7. Military Engineer Services, Army**
Soil Investigation, Gujarat
- 8. Airforce – MES**
Structure Assessment, Gujarat
- 9. Indian Oil Corporation Limited**
Soil Investigation, Gujarat
- 10. HRRL – Rajasthan**
Refinery Soil Investigation, Rajasthan
- 11. Paramount Limited**
Soil Investigation, Rajasthan
- 12. V.R.C Limited**
Soil Investigation, Rajasthan
- 13. Sterlite Power Transmission**
Soil investigation – Gujarat
- 14. Sterlite Power Transmission**
Soil investigation – Maharashtra
- 15. Sterlite Power Transmission**
Soil investigation – Kerala
- 16. Akash Ganga**
Soil Investigation, Refiner, Rajasthan
- 17. Keller**
Soil Investigation, Refiner, Rajasthan
- 18. Tata Projects**
Soil Investigation, Refiner, Rajasthan
- 19. TOYO Engineering Ind Pvt Ltd.**
Soil Investigation, Refiner, Rajasthan
- 20. Military Engineer Services, Army**
Soil Investigation, Gujarat
- 21. Ineos Stryolution**
Structure Assessment, Gujarat
- 22. L&T**
Structure Assessment, Gujarat
- 23. Sardar Patel Stadium**
Structure Assessment, Gujarat
- 24. PWD**
Soil Investigation, Maharashtra
- 25. Indian Railways**
Structure Assessment, Gujarat
- 26. Rail Vikas Nigam Limited**
Soil Assessment, MP
- 27. Northern Railways**
Firozpur – Bhatinda, Haryana
- 28. Unitech Power Transmission Ltd**
Soil Investigation, NDT and Building Material – Gujarat
- 29. Arise Developers, Gujarat**

and many more local projects.



Forensics Application for Civil Consultancy & Testing Lab

Feel free to contact us regarding any requirements of civil consultancy and testing needs at below details:

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