

# COMPANY PROFILE



## **TECHNOEDGE** RESEARCH LAB (Construction Material Testing Laboratory)

A Board of Quality Council of India Approved Laboratory as Per ISO/IEC-17025:2017 National accredited (NABL) and approved from govt bodies such as Cidco, Mumbai Railways & Various other govt sectors.



TC-11161

### **OFFICE ADDRESS:**

Gala NO. 006, F-Wing Shop, Bliss Building, Plot NO. AM-19,  
Additional MIDC, Anand Nagar, Ambernath (E) -421506

Email:- [technoedge.lab@gmail.com](mailto:technoedge.lab@gmail.com)

Visit us: [www.technoedgelab.in](http://www.technoedgelab.in)

Customer Support:-  8788171620

Free Pickup service:-  8691025017

Technical Support:-  9021667881



# TECHNOEDGE RESEARCH LAB

(Construction Material Testing Laboratory)

GSTIN : 27AJTPL6959K1Z5

## ABOUT US

**TECHNOEDGE RESEARCH LAB** & trustworthy laboratory based in Mumbai & Ambernath engaged in testing of all type of construction materials since 2016. Company specializes in NDT, soil investigation, Cement, Concrete Mix Design, Flexible and rigid Pavement such as Asphalt and Concrete, Reinforcement, Aggregate, Bricks/Blocks etc. **TECHNOEDGE RESEARCH LAB** delivers superior value to all its customers by leveraging its expertise in material testing services, consulting, research, and training. We are an independent laboratory, promoted with the objectives of providing building material testing services to Industry, Institution, Government, and other private agencies.

The laboratory management is committed to carry out testing activities under the scope of this management system by meeting the requirement of **IS/ISO/IEC – 17025: 2017** and to satisfy the needs of customers, the regulatory authorities or organizations providing recognition. The laboratory is being run and managed by technical and experienced professionals having wide experience in the various areas of their specialization. The laboratory employees are well- qualified staff who are capable enough to test and supervise the work and related quality functions. The company has installed the requisite equipment's to meet the requirements.

In the field of Building materials & NDT Testing, **Technoedge Research Lab** handles various kinds of construction projects including **Housing Complexes, industrial Complexes. Commercial Parks, Hotels, Flyovers, high rise Buildings.** and offers testing on **Products including Aggregates, Cement, hardened Concrete, concrete Blocks, Bricks, Fly Ash etc.**



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## OUR VISION

- Aim to deliver at every construction work with efficient process and better control on methodology.

## OUR MISSION

- Providing innovative quality service on time with the best solutions.

## OUR CORE VALUES

- Motivation
- Integrity
- Value Addition
- Leadership
- Consistency
- Trust
- Consistency
- Efficiency
- Proactive
- Quality



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## QUALITY POLICY

- We are committed to maintaining high standards of laboratory operation & performance and render good professional services to customers for building materials testing.
- The management system is developed to ensure and build competence, impartiality, and consistent operation in the laboratory.
- We are committed to complying with the requirements of ISO/IEC 17025:2017 to continually improve the effectiveness of the management system.





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## FROM THE DESK OF CEO:

- AmitKumar Lichade Completed B.E in 2004 from Nagpur university, 1-year Study at Structural Consultant. After that Complete Management Study from NICMAR Pune and Focus on Management and Compliances process.
- Work for the new product development and use of specialized material in Concrete.
- More than 14 years' experience in Quality and System Management, also Vast experience in Concrete technology prepared High Grade concrete mix Design up to M 80 Grade, Free Flow Concrete Durable concrete etc. internal Auditor for reputed firms, Structural repairing, and renovation experience of more than 10 years.



- Quality assurance and certification for the reputed **Organization, Preparation for the Audit at Govt** Projects like CC roads, Bridges etc. Raw materials Analysis and Research for the different zones of Maharashtra state.
- Study of Crushers and Raw material properties to get Better Quality for the concrete.
- Material study for the Metro Project and Work as a consultant for the RMC plants.
  - We give training for Site Engineers and Professionals.



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## SERVICES OFFERED BY TECHNOEDGE RESEARCH LAB

Test on fresh / hardened concrete

- Concrete Mix Design
- Cube Testing
- Flexural Test
- Modulus of elasticity
- Core extraction, dressing, capping and testing
- Permeability test
- Chemical Analysis
- Split Tensile Test





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## TEST ON OTHER BUILDING MATERIAL

- Cement testing
- Coarse / Fine aggregate
- Bricks
- Paver block
- AAC block
- Ceramic tiles
- Solid concrete block
- Flooring tile/Ceramic Tile/checkered tile/Vitrified tile
- Marble and granite
- Water
- Admixture





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## SOIL TEST AND INVESTIGATION:

- Liquid limit/Plastic limit test
- Shrinkage limit test
- Plasticity index limit test
- Standard Proctor test
- Modified proctor test
- Lab C.B.R test
- Field C.B.R test
- Free swell index test
- Direct Shear test
- In situ density by core cutter method
- In situ density by sand replacement method
- Consolidation test
- Moisture content
- Bulk density/ Dry density
- Unconfined compression test







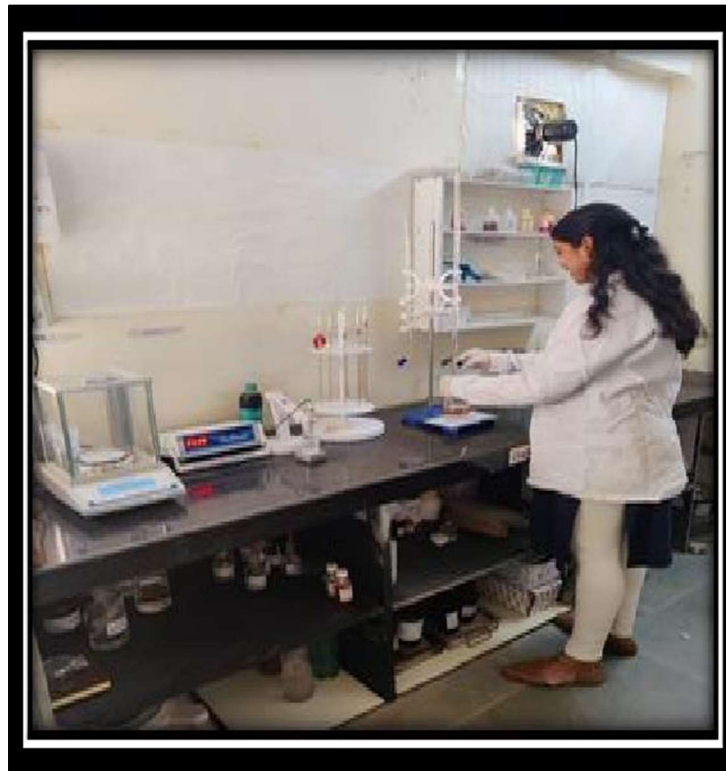
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## CHEMICAL TEST:

- Construction water
- Admixture
- Coarse Aggregate
- Fine Aggregate
- Soil
- Drinking Water
- Cement
- Fly Ash
- Steel
- Tiles





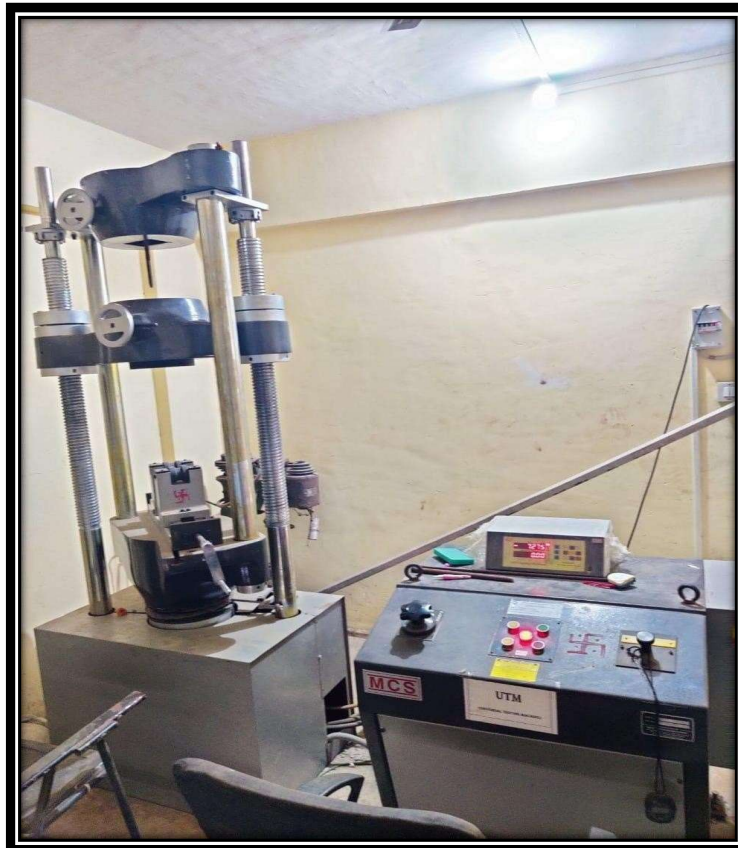
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## STEEL SECTION:

- Reinforced bar
- Steel Bollard
- MS Plate
- MS Pipe
- MS Angle
- Chequered Plate
- Square Pipe





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## NDT-NON-DESTRUCTIVE PERMANENT TESTING FACILITIES:

### 1. REBOUND HAMMER (AS PER IS 516 PART 5 SEC 4)

APPLICATIONS OF TEST:

- ASSESSING THE APPROXIMATE COMPRESSIVE STRENGTH OF CONCRETE.
- ASSESSING THE HARDNESS OF CONCRETE SURFACE.



### 2. ULTRASONIC PULSE VELOCITY TEST (AS PER IS 516 PART 5 SEC 1)

APPLICATIONS OF TEST:

- HOMOGENEITY & UNIFORMITY OF CONCRETE.
- PRESENCE OF CRACKS, VOIDS & OTHER IMPERFECTIONS.
- VELOCITY CO-RELATED STRENGTH.



### 3. CARBONATION TEST (AS PER BS EN 14630)

APPLICATIONS OF TEST:

- ASSESSING THE CARBONATION RATE IN THE HARDENED CONCRETE
- TO MEASURE THE DEPTH OF CARBONATION TEST
- THIS TEST IS ONLY APPLICABLE FOR FRESHLY BROKEN CONCRETE



#### 4. HALF CELL POTENTIAL TEST (AS PER IS 516 PART 5 SEC 2)

APPLICATION OF TEST:

- ASSESSING THE RATE OF CORROSION ACTIVITY OF REINFORCED STEEL IN RCC.







# TECHNOEDGE RESEARCH LAB

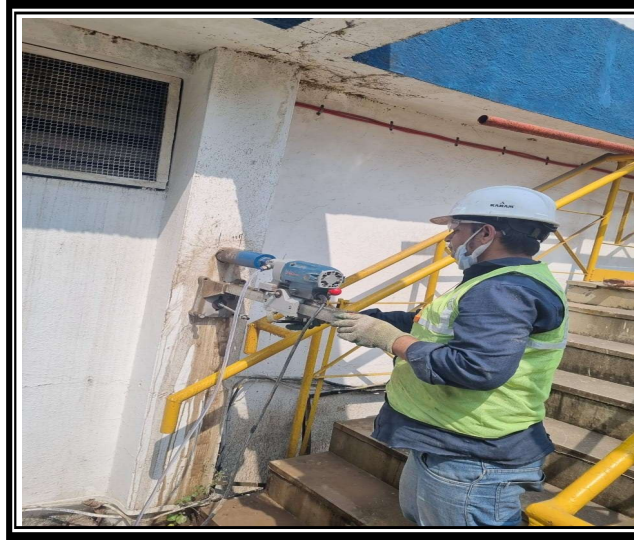
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## 5. CORE EXTRACTION & COMPRESSION (IS 456:2000 & IS 516 PART 4)

APPLICATION OF TEST:

- ASSESSMENT OF STRENGTH
- STUDY OF AGGREGATES USED IN THE MIX DESIGN
- ASSESSING PROBABLE CAUSES OF FAILURES/PROBLEM



## 6. DPT-Dye Penetrant Testing (AS PER ASTM E165)

APPLICATIONS OF TEST:

- Dye Penetrant Testing- PT uses liquid penetrant (either visible or fluorescent) to detect surface breaking imperfections or defects. PT is a reliable, proven method for testing welds, castings, forgings and components





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## 7. UTG-ULTRASONIC THICKNESS GAUGE (AS PER ASTM E 797)

### APPLICATION OF TEST:

- Ultrasonic testing- UT uses high frequency sound waves to test materials and can be used to determine material thicknesses and loss of thickness due to corrosion or erosion, as well as internal discontinuities within materials or welds such as cracking and porosity.



## 8. PILE INTEGRITY TEST (AS PER ASTM D 5882)

**APPLICATION OF TEST:** Pile Integrity Test (PIT), or “low strain impact integrity testing of deep foundation” is a widely used non-destructive test method **for the evaluation of pile quality, and integrity**. The test can also be used to estimate the unknown length of existing piles and foundations.







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## LABORATORY TESTING SETUP

### SOIL & AGGREGATE TESTING AREA



### CEMENT TESTING AREA





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## **BITUMEN & SOIL TESTING**



## **CHEMICAL TESTING AREA**







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## CUBE CURING & COMPRESSION TESTING AREA



## AGGREGATE PHYSICAL TESTING AREA





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## TECHNICAL STAFF SEATING AREA



## CUSTOMER SUPPORT DEPARTMENT







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## OUR PRESTIGIOUS CLIENT

“We salute our prestigious clients to whom we have served directly or on behalf of Govt. agency or in association with our associates.”

### WE BUILD RELATIONS



ISO 9001:2000



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## NABL CERTIFICATION AND GOVT BODY APPROVAL'S

		<b>National Accreditation Board for Testing and Calibration Laboratories</b>
<b>CERTIFICATE OF ACCREDITATION</b>		
<b>TECHNOEDGE RESEARCH LAB</b>		
has been assessed and accredited in accordance with the standard		
<b>ISO/IEC 17025:2017</b>		
<b>"General Requirements for the Competence of Testing &amp; Calibration Laboratories"</b>		
for its facilities at		
GALA NO. 006, F-WING, BLISS BUILDING, PLOT NO. AM-19, ADDITIONAL MIDC, AMBARNATH (E), THANE, MAHARASHTRA, INDIA		
in the field of		
<b>TESTING</b>		
Certificate Number:	TC-11161	
Issue Date:	17/11/2022	Valid Until: 16/11/2024
<p>This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard &amp; the relevant requirements of NABL. (To see the scope of accreditation of this laboratory, you may also visit NABL website <a href="http://www.nabl-india.org">www.nabl-india.org</a>)</p>		
Name of Legal Identity : TECHNOEDGE RESEARCH LAB		
Signed for and on behalf of NABL		
		
	N. Venkateswaran	Chief Executive Officer





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## CITY AND INDUSTRIAL DEVELOPMENT CORPORATION OF MAHARASHTRA LIMITED

(CIN - U99999 MH 1970 SGC - 014574)

### REGD. OFFICE:

"NIRMAL", 2nd Floor, Nariman Point,  
Mumbai - 400 021.  
PHONE : 00-91-22-6650 0900  
FAX : 00-91-22-2202 2509

### HEAD OFFICE:

CIDCO Bhavan, CBD Belapur,  
Navi Mumbai - 400 614.  
PHONE: 00-91-22-6791 8100  
FAX : 00-91-22-6791 8166

Ref. No. CIDCO/EE (QC)/LAB/2023/952

Date: 03/03/2023

To,  
M/s Technoedge Research Lab,  
Gala No. 006, F-Wing Shop, Bliss Building,  
Plot No. AM-19, Additional MIDC,  
Anand Nagar, Ambernath East. PIN:421 506

**Subject :** Approval to Registration as Material Testing Laboratory of M/s  
**Technoedge Research Lab, Ambernath (E).**

**Reference :** 1. Your Application Letter No. Nil dated 28/01/2023  
2. Payment Receipt No. 6100004522/2022 dated 25/02/2023  
3. NABL Certificate No. TC- 11161 dated 17/11/2022 valid upto 16/11/2024

Dear Sir,

CIDCO is pleased to inform you that, your application for registration as a Material Testing Laboratory viz. **M/s Technoedge Research Lab** situated at "**Gala No. 006, F-Wing Shop, Bliss Building, Plot No. AM-19, Additional MIDC, Anand Nagar, Ambernath East. PIN:421 506**" is hereby approved by this office. The said Laboratory is now registered with this office from **28/01/2023 to 16/11/2024** (i.e. upto validity of your NABL accreditation).

You are hereby permitted to test all the construction related samples pertaining to various infrastructural and building works of CIDCO.

During the period of registration, the following conditions will be applicable.

1. The Laboratory shall be maintained in working condition for entire period.
2. The laboratory should give top priority to testing of samples of CIDCO works. In case of failure with this respect is noticed, the Laboratories will be deregistered.

M/s Technoedge Research Lab

Page 1 of 3 In case of any corruption related complaints, please visit :  
[www.cidco.maharashtra.gov.in](http://www.cidco.maharashtra.gov.in) Click on Dakshata link



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3. The values of acceptance limits for the test conducted shall be indicated in the test report as per relevant codes.
4. Whenever the testing is carried out for CIDCO works, Laboratory representative should allow CIDCO's visiting personnel to witness the test.
5. The Laboratory owner should follow all instructions given to them from time to time by the Corporation.
6. The instruments should be got calibrated from time to time as per requirement & calibration certificate shall be made available for inspection to visiting CIDCO officers.
7. Registers showing test conducted and result obtained for CIDCO works shall be maintained & kept in the Laboratory for inspection of the visiting CIDCO officer.
8. The tests shall be carried out as per the procedure mentioned in the relevant tender conditions/specifications/IS codes/BS codes/ASTM/ MORTH etc., as the case may be.
9. Please note that this renewed registration of laboratory is valid up to 16/11/2024 only. The laboratory shall submit the Certificate of renewal of Accreditation by NABL beyond 16/11/2024 in time. On receipt of the same, registration will be further extended upto 27/01/2025.
10. A surveillance audit will be conducted after lapse of one year from the issue of this letter. **You have to apply for surveillance audit on or before 02/03/2024.** The laboratory has to make all necessary arrangement for the same.
11. Application for renewal of registration shall be made 6 (SIX) months before the expiry of the registration.

Thanking you,

**Enclosed:** Annexure-I

Yours faithfully,

( D. M. Bokade )

02-03-2023

Executive Engineer (Quality Control)  
Raigad Bhavan, 5<sup>th</sup> Floor,  
CBD-Belapur, Navi Mumbai-400614.



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## Annexure-I

Brief details of tests carried out at "M/s Technoedge Research Lab"

**Location:** Gala No. 006, F-Wing Shop, Bliss Building, Plot No. AM-19, Additional MIDC, Anand Nagar, Ambernath East. PIN:421 506.

• **Mechanical**

- Building Materials
  - AAC Blocks
  - Burnt Clay Bricks
  - Coarse Aggregates
  - Concrete Cube & Cylinder
  - Fine Aggregates
  - River Sand
  - Solid Blocks
  - Wash Sand

• **Non-Destructive**

- Building Materials
  - Reinforced Concrete Structures

02-03-2023

(D.M. Bokade)

Executive Engineer (Quality Control)  
Raigad Bhavan, 5<sup>th</sup> Floor,  
CBD-Belapur, Navi Mumbai-400614.





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**मुंबई रेलवे विकास कॉर्पोरेशन लिमिटेड**  
भारत सरकार, रेल मंत्रालय का एक सार्वजनिक उपक्रम  
**MUMBAI RAILWAY VIKAS CORPORATION LTD.**  
(A PSU of Government of India, Ministry of Railways)

CIN: U45203MH1999G01120765

Date: / /

No. MRVC/W/Station Dev/2022/LOT-III/Neral

To,  
**Technoedge Research Lab,**  
**Ambar Nath**


**Sub:** - Cement Test, Aggregate tests, Mixed Design report for "Improvement of stations including provision of FOB's, elevated decks, inter-connections between Deck/FOB's, skywalks, relocation of service buildings, stalls, kiosks etc., improving entry/exit, improving circulating areas, provision of green spaces etc., at Neral & Kasara stations of Central Railways".

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**Ref:** i) L.O.A. No. MRVC/W/Stn. Impr/Contract/2022/Lot III dated 02.09.2022

In reference to Subject work, MRVC is executing construction of Proposed Station Improvement Work at Neral Station. The scope of Proposed Station Improvement Work at Neral Station involves RCC work in various structures.

Kindly please submit the report of Cement Test, Aggregate/Crushed sand tests, Mixed Design for M20, M25, M30, and M35 as per contract agreement for further approval.

  
(A. S. Ghumadwar)  
SPE/MRVC

CC/- AEN, Dy.CE-EE for kind information please.

दूसरी मंज़िल, चर्चगेट स्टेशन भवन, मुंबई - 400 020.  
2<sup>nd</sup> floor, Churchgate Station Bldg., Mumbai 400 020.

Tel. 022-22014623 (MTNL) 22648 (Rly) Fax : 022-22096972. Website : [www.mrvc.indianrailways.gov.in](http://www.mrvc.indianrailways.gov.in)