



## TARSADIA CIVIL ENGG TESTING & CONSULTANCY SERVICES

*Supporting Infrastructure Development*



**CHHOTUBHAI GOPALBHAI PATEL INSTITUTE OF TECHNOLOGY**

"Maliba Campus", Gopal Vidyanagar, Bardoli - Mahuva Road, Ta. : Mahuva, Dist. : Surat - 394 350 (Gujarat), India.

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# Quality Infrastructure Through Sound Testing

## Cement Concrete Testing



Concrete Mixer Machine - 1 Cu ft

Slump Test  
Compaction Factor  
Flow Table  
Work ability  
Concrete mix Design



Load Cell & Lvd

Precise digital measurement of loads and displacement

## Non-destructive Testing



Rebound Hammer

Ultrasonic Pulse Velocity Tester

Compressive Strength  
Homogeneity of Material

## Soil Testing



Triaxial Test For Soil

Shear strength  
Bearing Capacity



Direct Shear Box Apparatus

Shear strength of Soil

# All Tests as per Indian Standards

## Concrete Testing



Automatic Compression Testing Machine-2000 kN

Compression test  
Transverse test

## Bitumen Testing



Marshal Mix Design

Bituminous mix design  
Consistency of bitumen



Universal Pentrometer

## Steel Testing



Universal Testing Machine-600 kN

Tensile test  
Shear test  
Compression test  
Hardness test  
Flexure test  
Young's modulus of Elasticity



Bitumen Ductility Test

## Surveying



Total Station & Theodolite

Area of farms/plots  
Establishment of Boundaries  
Alignment work,  
Surveying work

## Aggregate Testing



Aggregate Impact Test



CBR

## Consultancy Work Supported

- Design of Multistoreyed Building
- Design of Bridges & Culverts
- Design of Water tanks, Chimneys & Silos
- Design of Geotechnical Structures
- Rate analysis & Quoting Tenders.
- Surveying work through Total Station
- Asphalt / Bitumen design mix

## Testing of

- Cement
- Concrete
- Steel
- Tile
- Brick
- Paver Block
- Soil
- Aggregate

## Tarsadia Civil Engineering Testing & Consulting Services (TCETCS) - Part of CGPIT

TCETCS is a part of Chhotubhai Gopalbhai Patel Institute of Technology Bardoli, which extends technical support to civil engineering work. This is an effort towards extending Institute-Industry-Interaction which ultimately helps to the society and the students.

All equipments are digital, computerised, standard and AIMIL brand.

### Prof. Dr. Jatin A. Desai

*Head of the TCETCS*

Ex. Head & Professor,  
Applied Mechanics Dept., NIT-Surat.

### Experience:

27 years research and consultancy.

He has offered his consultancy services to SMC, SUDA, ONGC, GAIL, KRIBHCO, ESSAR, NTPC, L&T etc.

### Consultancy Works Undertaken :

Design of isolation bearing, Design and proof checking of Bridges, Culverts, Chimneys, Silos.

Proof checking of design and Stability of Structures

Retrofitting of earthquake affected structures.



CHHOTUBHAI GOPALBHAI PATEL  
INSTITUTE OF TECHNOLOGY,  
Bardoli.

CGPIT is one of the institutes of Bardoli Pradesh Kelavni Mandal. CGPIT got its AICTE approval in Aug-2009. It is affiliated to Gujarat Technological University offering courses in various branches of engineering viz.

- Civil Engineering
- Computer Engineering
- Information & Technology
- Electronics & Communication
- Mechanical Engineering - [Proposed]
- MBA-Infrastructure Management - [Proposed]

### Team Members :

Dr. N.C.Shah - Director  
Ph.D. Urban Planning 40 years experience

Mr. K.N.Gandhi - Head of Department  
B.E. Civil 34 years experience

Mr. Yogendra Tandel - Assistant Professor  
M.Tech Soil Mechanics, Ph. D. persuing

Mr. Gunvat R. Solanki - Assistant Professor  
M.Tech Soil Mechanics- 2 years experience

Ms. Apurva Suthar - Assistant Professor  
M. Tech Water Resource Engg.- 2 years experience



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