



## Vasavi College of Engineering

(Private Un-aided Non-minority Autonomous Institution)

**ACCREDITED BY NAAC WITH 'A++' GRADE**

Affiliated to Osmania University and Approved by AICTE.

Dear Sir/Madam

Vasavi College of Engineering is established in the year 1981 under the aegis of Vasavi Academy of Education, the college has been granted autonomy by the University Grants Commission, New Delhi. The college has been accredited by NAAC with A++ Grade and all the courses of the college are accredited by NBA.

The Civil Engineering Department is part of the college since its inception. Besides high quality teaching the Department is actively involved in material testing and consultancy works. The Department has 13 members of faculty and 10 members of supporting staff. The Department has nine full-fledged laboratories in addition to a Centre for Geomatics. The Department also has in its gamut an exclusive computing facility with the latest software in Design, Planning and Management, Remote Sensing, GIS, Land & Water Management, etc. It has even organised two international conferences and several national conferences.

Hence, it is requested to give us material testing or other consultancy works of your organization.

### Consultancy Coordinators:

- 1 Dr. C. Mohan Lal, Associate Professor,  
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- 2 Dr. M.V.S.S.Sastri, Associate Professor  
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- 3 Dr. B. Sridhar, Professor & Head,  
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**Dr. B. Sridhar**  
**H.O.D.(Civil)**



## HIGHWAY MATERIAL TESTING

S. No	Test Characteristics/ Properties Parameters	Test Method	Sample Quantity
1.	Pavement Evaluation – BBD Studies at site	IRC - 81	Field Test
2.	Classified Volume Count at site	IRC SP 19	Field Test
3.	Determination of Field CBR	IS:2720 P31	Field Test

## WATER & AIR TESTING

S.No.	Name of the Test
1.	Acidity test, Alkalinity
2.	Total Hardness test
3.	pH test Water Soil
4.	Conductivity test Water Soil
5.	Turbidity test
6.	Total dissolved solids
7.	Total Solids
8.	Dissolved oxygen
9.	Measurement of Chlorides
10.	Optimum coagulant measurement

## LAND SURVEYING

S.No	Name of the Test
1.	Boundaries Location
2.	Contouring
3.	Plots & Roads layout
4.	Total station hiring per day

## GEOGRAPHICAL INFORMATION SYSTEMS

1. Digitization of maps
2. Editing, adding database, preparing layouts.
3. Spatial analysis using Geoprocessing tools

**Dr. B. SRIDHAR**  
Professor & HOD,  
Department of Civil Engineering

### Consultancy Coordinators:

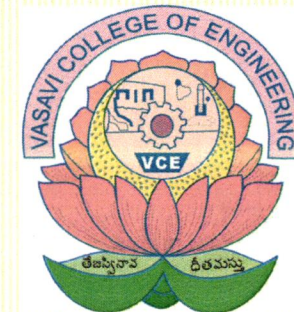
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## CONSULTANCY & MATERIAL TESTING SERVICES



DEPARTMENT OF CIVIL ENGINEERING



**VASAVI COLLEGE OF ENGINEERING**  
**(AUTONOMOUS)**  
**IBRAHIMBAGH, HYDERABAD-31**  
**Www.vce.ac.in**



## STRUCTURAL DESIGN CONSULTANCY

- Structural Designs & Drawings of RC Structures including high rise buildings
- Industrial Steel structure designs including fabrication drawings
- Proof Checking of Structural designs
- Structural Health Monitoring using NDT (Non Destructive Testing)

## SOIL TESTING

1. Standard penetration test (Safe bearing capacity)(Provided Borehole is ready)
2. Safe Bearing Capacity test from c,  $\phi$  values
3. Core Cutter and Moisture Content test
4. Specific gravity test
5. Sieve Analysis test
6. Liquid limit
7. Plastic limit
8. Shrinkage limit
9. Proctor Compaction test
10. Permeability
11. Relative Density
12. CBR test Unsoaked
13. CBR test soaked
14. Unconfined compression test
15. Free swelling Index
16. Swell pressure
17. Modified compaction
18. Hydrometer Analysis
19. Permeability clay soils

## MATERIAL TESTING (CEMENT, CONCRETE, WOOD, TILES)

- 1
  - i). Compressive Strength on Cement Concrete Cubes
  - ii). Solid blocks
- 2 Test on Cement
  - i) Fineness
  - ii) Compressive Strength for 3,7& 28 days
  - iii) Consistency
  - iv) Initial and Final Setting time
  - v) Soundness
- 3 Test on Coarse Aggregates
  - i) Sieve Analysis
  - ii) Fineness Modulus
  - iii) Specific gravity
  - iv) % of Voids
  - v) Bulk Density
- 4 Tests on Fine Aggregate
  - i) Specific gravity
  - ii) Sieve Analysis
  - iii) Bulk Density
  - iv) Bulking of Sand
  - v) Moisture content
- 5 Tests on Steel Specimens (Min of Three Samples)
  - i) Weight per metre (3 nos)
  - ii) Ultimate tensile strength
  - iii) % Elongation
  - iv) Bend & rebend Test
  - v) Proof stress
- 6 Concrete Mix Design
- 7 Brick Test (Min of Samples) Compressive Strength + water absorption
- 8 Torsion (3specimens Min)
- 9 Tests on Wood
  - i) Compressive strength
  - ii) Moisture content

## TRANSPORTATION ENGINEERING TESTS

S. No	Test Characteristics/ Properties Parameters	Test Method	Sample Quantity
1.	Sieve Analysis, FM & Grad. Curve	IS:2386 P01	20 Kg
2.	Flakiness & Elongation Index	IS:2386 P01	15 Kg
3.	Angularity Number	IS:2386 P01	15 Kg
4.	Sp. Gr. & Water Absorption	IS:2386 P03	15 Kg
5.	Aggregate Impact Value-AIV	IS:2386 P04	15 Kg
6.	Aggregate Abrasion Value- (LA)	IS:2386 P04	15 Kg
7.	Aggregate Crushing Value-ACV	IS:2386 P04	15 Kg
8.	Ten Percent Fines Value-TFV	IS:2386 P04	15 Kg
9.	Soundness with Na <sub>2</sub> SO <sub>4</sub> / MgSO <sub>4</sub> (5 Cycles)	IS:2386 P04	50 Kg
10.	Penetration at 25°C	IS 1203	3.0 Kg
11.	Ductility at 27°C	IS 1208	3.0 Kg
12.	Softening Point-Ring &Ball	IS 1205	3.0 kg
13.	Flash Point - COC	IS:1448P-69	2.0 Kg
14.	Specific Gravity at 27°C	IS 1202	2.0 Kg
15.	Elastic Recovery of TFOT at 25°C	SP- 53	1.0 Kg
16.	Bitumen Mix Design - Marshal	MS-2	-
17.	Bitumen Extraction	IS 13826 P7	3.0 Kg
18.	Speed Studies	IRC SP 19	Field Studies
19.	Audit Studies for road crash	IRC 088	Field Studies
20.	Feasibility studies for road infrastructure development		
21.	Traffic impact assessment for commercial centers		
22.	DPR preparation		
23.	Highway infrastructure design		