

AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

A Constituent College of Vinayaka Mission's Research Foundation
(Deemed to be University Under Sec 3 of UGC Act 1956)
Vinayaka Nagar, Old Mahabalipuram Road, Paiyanoor
Chengalpet District, Tamilnadu India Pincode : 603 104

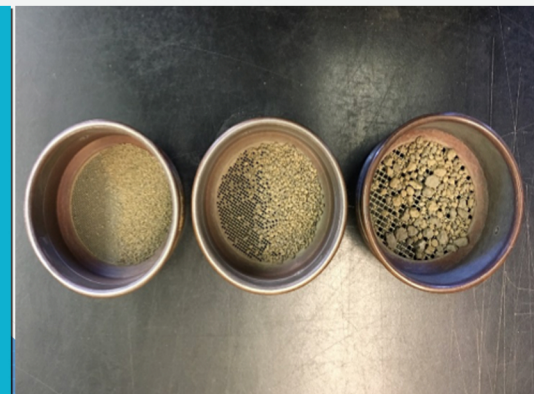
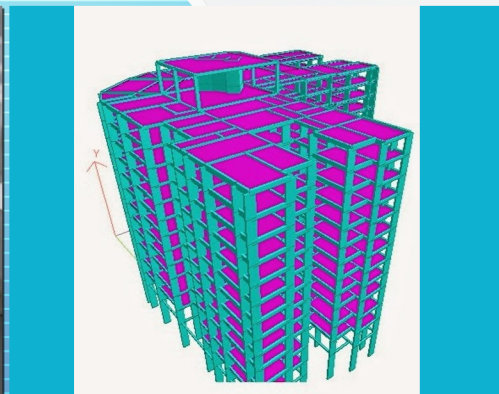


DEPARTMENT OF CIVIL ENGINEERING

CONSULTANCY DIVISION

The Department of Civil Engineering was established in the year 2008 and has grown into a full-fledged department with specializations in all the major areas of Civil Engineering. The department has produced several eminent engineers who have made significant contributions in the planning and execution of Civil Engineering projects in India as well as abroad. The faculty of the department continues to strive loftier by exploring new frontiers of knowledge, imparting the latest technical knowledge to the students and conducting high quality of research. The departmental activities embrace Planning, Design, Construction and Management. All the laboratories of the department are well equipped with advanced and sophisticated equipment to satisfy the training needs of the students and to meet the research and consultancy requirements of the department. The department has been constantly involved in a wide range of consultancy in the following fields.

- **CONCRETE CONSULTANCY**
- **GEO-TECHNICAL CONSULTANCY**
- **STRUCTURAL DESIGN & CIVIL CONSULTANCY**



CONCRETE CONSULTANCY

The concrete consultancy division provides solutions for various requirements in both fresh and hardened concrete. Services on mix designs with new specifications to optimise strength, durability and constructability are delivered. Other services such as strength and durability assessments for new and existing structures, performance testing for concrete and its constituent materials, design of concrete specifications, guidance on all aspects of concrete performance ensuring State-of-the-Art technologies. New specifications can be prepared or existing ones reviewed to optimise both durability and constructability.

Our range of services includes:

- Durability assessments for new structures
- Advice on performance testing for concrete and its constituent materials
- Production of materials and concrete specifications
- Advice on all aspects of concrete performance, based on the most recent developments in technology



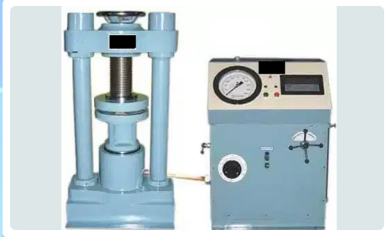
COMPUTERIZED UTM



LOADING FRAME FOR FLEXURE BEHAVIOUR ANALYSIS



COMPRESSION TESTING MACHINE



VEE BEE CONSISTOMETER



REBOUND HAMMER



FLOW TABLE



COMPACTION FACTOR APPARATUS



AGGREGATE IMPACT VALUE APP.



CONSULTANCY FACILITIES

HARD CONCRETE PARAMETERS

- ~ Flexural Strength
- ~ Cube Compression
- ~ Tensile Strength

FRESH CONCRETE PARAMETERS

- Workability Characteristic by*
- ~ Vee Bee Consistometer
 - ~ Compaction Factor Apparatus
 - ~ Slump Cone

CEMENT PROPERTIES

- ~ Fineness, Soundness, Consistency, Setting Time Tests

AGGREGATE PARAMETERS

- ~ Sieve Analysis of M-Sand
- ~ Los Angeles Test for Aggregate
- ~ Crushing Strength of Aggregate
- ~ Impact Strength of Aggregate
- ~ Sieve Analysis of Sand



GEO- TECHNICAL CONSULTANCY

Geotechnical Consultancy division provide quality consultation on solution for any complexities on soil characteristics and foundation design. Well-equipped instrumentations and skilled experts offers all of the major tests related to soil index and engineering qualities. To explore subsurface conditions, the laboratory experiment employs soil mechanics principles according to the IS codes. In order to aid in the acquisition of a comprehensive image of soil concerns involving the soil property under investigation. The division serves clients such as IGCAR - Kalpakkam, Aurobindo Reality Infra Private Limited (ARIPL), and others. We think that soil consultation services should be provided to clients in a responsible and timely manner. The complete solution for geo-technical properties such as Direct shear test, Unconfined compressive strength, Triaxial Shear Test, Consolidation, Permeability, Soil index properties, Proctor density test and California Bearing Ratio test (CBR) are done at higher precision in reasonable price.



TRIAXIAL SHEAR APPARATUS



DIRECT SHEAR TEST APPARATUS



CONSOLIDATION TEST APPARATUS



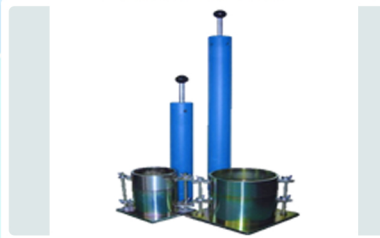
UNCONFINED COMP. TEST APPARATUS



PYCNOMETER



STANDARD AND MODIFIED PROCTOR TEST



CASAGRANDE APPARATUS



MECHANICAL SIEVE ANALYSIS



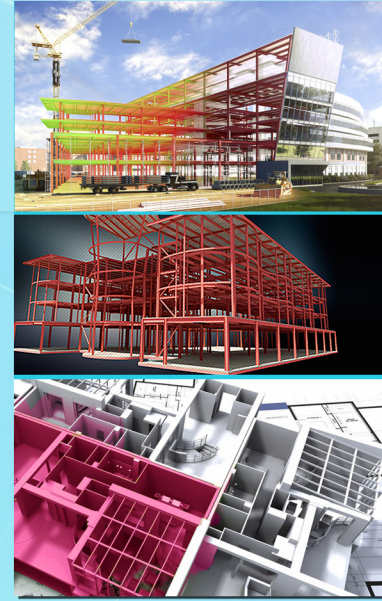
TEST IN SOIL ENGINEERING LABORATORY

1. Specific Gravity
2. Mechanical sieve size analysis
3. Liquid limit – Casagrande tool
4. Plastic limit
5. Shrinkage Limit
6. Falling Head permeability test
7. Constant Head permeability test
8. Standard proctor compaction test
9. Modified proctor compaction test
10. Consolidation test
11. California Bearing Ratio (CBR)
12. Direct shear test
13. Unconfined compressive strength test
14. Triaxial shear Test

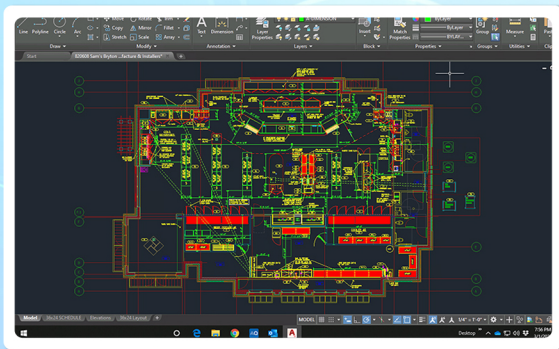


STRUCTURAL DESIGN & CIVIL CONSULTANCY

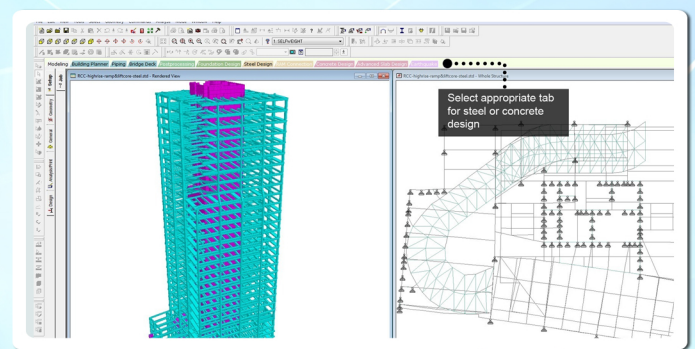
‘Structural Design and Civil consultancy’ division provides complete solution for design and detailing of Reinforced Cement Concrete structures, Steel structures and other structural components. Various services such as structural evaluation report, non-destructive testing of structures, Structural and construction inspection are provided with experts of respective domains. The Department of Civil Engineering, AVIT has signed MoU with Bentley Ltd. where the students and faculty members are trained and guided by the experts from ‘Bentley Educations’ team with all the software packages provided by the Bentley. Services on Quantity estimation, BoQ preparation, Structural Approval drawings are also done with peer team of engineers in the division. Our renowned clients across the state are United Shakthi Associates, Sundaram Clayton Ltd., Harita Fehrer Ltd, and several small scale to large scale industries. All the services are provided with competitive charges and with reliable quality.



AUTOCAD DRAFTING AND DETAILING



STAAD PRO. ANALYSIS AND DESIGN



AVIT CHENNAI CAMPUS

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