**Sardar Vallabhbhai National Institute of Technology Surat**

**Department of Civil Engineering, Geotechnical Engineering Section**

***Computational Geomechanics Laboratory***

Location: **ARC 304**

A new Lab.: ***Computational Geomechanics Lab.*** is established at ARC 304, 3rd Floor of Advance Research Center (ARC) to provide dedicated computing facilities to research scholars of post graduate and doctoral programs. The laboratory is also used for training / hand-on session for the courses offered by GE section on “Computer Applications in Geotechnical Engineering”, “Finite Element Method” and “Software training Lab” for PG and PhD students. Moreover, the computing facilities will be used for research and academic work by MTech and PhD students using licensed software like PLAXIS 3D, Geo5, MIDAS (GTS, Soil Work, FEA, Civil), MSEW 3.0 and ReSSA+ in addition to routine analysis on MS-office platform. Already, the computers and furniture are processed to be procured from OH-35 by Central Store SVNIT.

Facilities

1. Computing Facilities – Total 50 computers are under process to be procured by Central Store SVNIT Surat
2. Furniture – Computer Table, Tables and Chairs are under process to be procured by Central Store SVNIT Surat
3. Projector
4. Projector Screen
5. Wifi Router – to be procured
6. UPS

Software

1. 15 Users Plaxis 3D
2. Geo5
3. MIDAS (GTS, Soil Work, FEA, Civil)
4. MSEW 3.0
5. ReSSA+ in addition to routine analysis on MS-office platform

Utilization

1. PG course on Numerical Modelling in Geomechanics (PCEGT204) – Software training, technical learning on computer applications in Geotechnical Engineering
2. Software training program for participant from STTPs
3. High-end research in area of computational geomechanics – PG and PhD Students