



# S. N. Patel Institute of Technology & Research Centre, Umrahk

(A Vidyabharti Trust Institution)

## Civil Engineering Department Semester-III

### Laboratory Name: Geotechnical Engineering

Sr.No.	Equipment Name
1	Cylindrical core cutter, Steel dolley, Steel rammer mass 9kg, Balance, Palette knife, Straight edge, steel rule
2	Sieves of sizes 4.75 mm, 2.0 mm, 1.0 mm, 600. That is, $75\mu$ and $150\mu$ , $300\mu$ I.S 460-1962 is used
3	Porcelain evaporating dish, Flat glass plate, Balance accurate to 0.01 g, Drying oven, maintained at $110 \pm 5^\circ\text{C}$ ( $230 \pm 9^\circ\text{F}$ ), Weighing dishes, non-absorbent, with lids., Spatula, Desiccators and other accessories
4	Graduated glass stand pipe and the clamp, Supporting frame for the stand pipe and the clamp
5	Typical equipment for proctor test
6	Oedometer
7	Shear box 60 mm square and 50 mm deep, Grid plates, porous stones, Loading device
8	Loading frame of capacity of 2 t, with constant rate of movement, Proving ring of 0.01 kg, Soil trimmer, Evaporating dish
9	Triaxial test setup, Sample tubes, Rubber ring, Open ended cylindrical section, Weighing balance
10	Vane shear test apparatus with accessories
11	Drilling Rig, Split spoon (tube), Drop hammer 65 kg (140 lbs), Driving head, Tripod (anvil)
12	CBR test setup