Plastic Limit Test (SL-GT-001)

IS 2720 (PART-VII) ASTM D-42, BS 1377 AASHTO T 90.

Moisture contents at which soil has smallest plasticity is called limit. For determination purpose plastic limit is defined as the water content at which a soil will just begin to crumble when rolled in to a thread of 3mm dia.

Specification : The complete set consists of one each.

i) Glass plate 20cm x 15cm having round ends, ii) Brass or stainless steel rod 3mm dia x 10cm long, iii) Flexible spatula 15cm, iv) Set of moisture containers, v) Porcelain basin 150mm dia, vi) Plastic wash bottle 500ml.

Shrinkage Limit Set (SL-GT-002)

IS 2720 (PART-VI) ASTM D-427, BS 1377, AASHTO T 92.

Shrinkage limit is the maximum water content at which a reduction in water content does not cause an appreciable reduction in volume of the soil mass. At shrinkage limit, on further reduction in water, air enters in to the voids of soils and thus keeps the volume constant. The apparatus set be used to determine shrinkage limit and to calculate other shrinkage ratio, shrinkage index and volumetric shrinkage.

Specification : Set consists of one each -

i) Porcelain evaporating dish, ii) Shrinkage dish, iii) Glass cup, iv) Perspex plate with three metal prongs, v) Flexible spatula 100mm, vi) Glass cylinder, vii) 25ml x 5ml, supplied without mercury.

Linear Shrinkage Mould (SL-GT-003)

BS 1377-2

A sample mould which is filled with the soil under test. This is then dried and the resulting decrease length of the specimen measured is expressed as the linear shrinkage. It is 25mm Dia x 12.5mm Height x 140mm Length.

Soil Cone Penetrometer (SL-GT-004)

IS 2720 (PART IV)

For determining the liquid limit of soils. This is specially useful to obtain reliable and accurate results of those soil which have low plasticity index. The penetration moisture contents determined when cone with half angle for 75-90 minutes under a total sliding weight of 148 gm penetration 25mm gives the liquid limit.

Soil Hydrometer (SL-GT-005)

ASTM D-422 AASHTO T-88, BS 1377-2.

Used for grain size analysis of soils where more than 10% of the material will pass through 75 micron. B.S. core. Manufactured from clear transparent glass having uniform clarity throughout the upper and on which density scale is engraved. The scale range is 0.995 to 1.030 @ density (gm/cc) at 27oC smallest division on the scale is 0.0005.

Liquid Limit Device (SL-GT-006)

IS 2720 (PART VI), BS 1377-2, ASTM D-4318.

Casagrande method in mechanical form is known as liquid limit method and has been in use for soil mechanics for a number of decades. The liquid limit data of soils is useful to correlate mechanical properties of soil, such as compressibility and lower shear strength. Liquid limit is the water content at which soil passes from plastic to liquid state or liquid to plastic state. Liquid limit cannot be determined. For determination purpose liquid limit is that water content at which a part of soil, cut by a groove of standard dimensions, will flow together for a distance of 1.2cm under an impact of 25 blows in a standard liquid limit apparatus. The soil at the water content has some strength which is about 0.17kn/m, eg 0.17gm/sq.cm/. At this water content soil just passes from liquid state to plastic state. It is specially so formed as an adjustable bracket. The cup can be adjusted for a fall of 1 cm and can be raised an dropped on a rubber base of standard hardness by cam action. Complete with one Casagrande grooving tool, one ASTM grooving tool and a height gauge block.

Liquid Limit Device (with Counter) (SL-GT-007)

Same as above but fitted with a counter to register the number of blows.

Liquid Limit Device (Motorized) (SL-GT-008)

Same as above but fitted with a motor geared down to give approximately 120 rpm. Suitable for operation on 230V A.C., Single Phase, 50 Cycles.

SPARES : Casagrande grooving tool, ASTM grooving tool, height block, cup type.

Marsh Cone (SL-GT-009)

ASTM D-2417E, AASHTO T-179.

This cone is used to find out viscosity of bentonite slurry and similar material. The marsh cone is 6 inch in diameter at the top and 12 inch long, and tapers to join a tube 2 inch long and 3/16 inch inside dia. The capacity of the funnel is 1500cc. Time in seconds required to flow out 1000cc of slurry from cone is measured as funnel viscosity of the material.

Mud Balance (SL-GT-010)

ASTM D-2417E, AASHTO T 179.

Designed to find out specific gravities of semi-liquids like mud and other liquids having densities in the range 0.91 to 2.5. A stainless steel foam calibrated specific gravities from 2.6 to 2.5. A stainless steel cup with lid and overflow which is fitted on one side of the beam. A counter weights with cursor slides over the graduated scale. The beam has a knife edge at centre which rests in a fulcrum fitted in the stand. Levelling screw and spirit level are fitted to the stand.

High Speed Stirrer (SL-GT-011)

IS 2720 (PART IV)

This is for mechanical analysis and also other laboratory applications for stirring. Speed approximately 4000 R.P.M. under load. A dispersion cup is supported on a rest on the stand of the stirrer and has a removable baffle. For operation on 230V A.C. supplied with dispersion cup or baffle cup.

Grain Size Analysis (Pipette Method) (SL-GT-012)

IS 2720 (PART IV) AAS-BS 1377-2.

This is for the determination of the sub sieve particle distribution in a soil sample by mechanical analysis and assays of this kind express quantity the proportions by weight of the various sizes of particles present in the soil. It is recommended as a standard procedure to use dispersion agent to avoid flocculation. The apparatus consists of a sliding panel which moves up and down by means of a screw efficiency. Anderson pipette fixed to it to be raised or lowered vertically. A sedimentation tube is held by a balancing clamp provided on the stand below the pipette. The depth of immersion is measured by a scale graduated in mm at the side of the sliding panel. Supplied complete with Anderson pipette 10ml. At the side capacity made from glass, and a sedimentation tube also of glass of 500ml capacity and 50mm. Test form pad.

ACCESSORIES & SPARES : i) Sedimentation Pipette (Anderson pipette) 25ml, ii) Sedimentation tube 100ml, iii) Sedimentation pipette 10ml, iv) Sedimentation tube 500ml, v) Test forms pad of 50.

Sand Equivalent Test Set (SL-GT-013)

ASTM D-2417E, AASHTO T-176.

Used to determine the relevant proportions of clay-like or Plastic fines and dust in granular soils & fine aggregate. Consists of:

1. Acrylic graduated cylinder (4 nos.)
2. Rubber stopper for cylinder (4 nos.)
3. Graduated steel rule-650 mm.
4. Funnel 100mm plastic.
5. Aspiration bottle 5 lit plastic with rubber cork.
6. Used for the separation bottle with siphon assembly.
7. Irrigation tube with stop pinch cock & weighted foot assembly.

Motorized Sand Equivalent Shaker (SL-GT-014)

ASTM D-2417E, AASHTO T 176.

Sand equivalent tests serve as rapid field correlation tests to show relative proportions of clay-like or plastic fines and dusts in granular soils and fine aggregates. The test separates sand and clay, a comparative reading is determined between the suspended clay and the settled sand in the mass zero cylinder. Tests due to good in the laboratory.

other preset at 45 minutes to increase accuracy and ease of operation compared to a spring-type timer. It is recommended for samples in the laboratory.

The consistent, repeatable oscillation of the apparatus eliminates operator-caused variation. Shaking operation delivers an 8" (203mm) stroke at a speed of 175 ±2 strokes per minute. Dimensions: 12 x L24 x D4"H (31 x 61 x 61cm).

Plummet Balance (SL-GT-015)

ASTM D-2417E, AASHTO T 176.

Conventionally particle size distribution analysis is carried out using pipette and hydrometer methods. Whereas in hydrometer method it is possible to determine particle size in the range 75microns, the method involves computation and it is time-consuming. The pipette method can be used for particle size only in the percentage of specific sizes from 0.02, 0.006 and 0.002 mm is a percentage of total sample. The plummet balance method to determine sub sieve particle size for the entire range is very rapid and only manipulation of height of the balance, so that plummet sinks to the right depth is required. The percentage of soil in suspension is directly indicated by a pointer over a graduated scale. A vertical rod is mounted on a sturdy base having levelling screws. A pointer with steel pivots turns in jewel bearing at moves over a graduated scale. Scale graduations are marked 0-100% u.c.s. To the other end of the pointer a plummet is hanged. Rack and pinion arrangement is provided on the vertical rod for adjusting the height. Supplied with a chart showing relationship between "K" and temperature of suspension of soils of varying specific gravity from 2.4 to 2.8 to help in solving similar equations. Supplied complete with one Perspex plummet, one measuring jar and one ruler weight for zero adjustment and ruler weight for adjusting the pointer to 100%.

Proctor Compaction Test Apparatus (SL-GT-016)

As Per IS: 27200-VIII

Specification : Soil compaction is of utmost requirement for manufacturing earth fill for dams, canal embankments, reservoirs, highways, runways and railways. The relationship between soil moisture content and compacted dry density largely determines the construction specification, and quality control of compacted earthfill. To check the strength of the soil the density of the soil is taken into account and hence the quality control is obtained otherwise.

SL-GT-0700	Compaction Mould, complete with Collar and Base Plate	Compaction rammer
1. Proctor Compaction (Light)	100mm internal Dia x 127.5mm Height 1000ml volume (IS Mould)	2.6 kg x 310mm fall
2. Proctor Compaction (Light)	100mm internal Dia x 127.5mm Height 1000ml volume (IS Mould)	2.6 kg x 310mm fall

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web problem 1 consider the following set of points 2 1 1 1 3 2 a find the least square regression line for the given data points b plot the given points and the regression line in the same rectangular system of axes problem 2 a find the least square regression line for the following set of data

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web linear regression is a process of drawing a line through data in a scatter plot the line summarizes the data which is useful when making predictions