

# **UNVERSIAL TEST APPARATUS**



- 1. Max. Capacity 1000 KN
- 2. Max. Clearance for Tensile Test (mm) 50-900
- 3. Max. Clearance for Compression Test (mm) 0-900
- 4. Clearance between Columns (mm) 850
- 5. Tension Test: Clamping Jaws for round specimen mm 20-40 40-60 60-80
- 6. Clamping Jaws for Flat specimen Mm 0-20 20-45 45-70 Width mm 100
- 7. For Compression Test: Pair of compression plate of diameter Mm 220

## **COMPRESSION TESTING MACHINE APPARATUS**



- 1. Capacity: 2000 kN
- 2. Digital Compression Testing Machine with Single Gauge.
- 3. The Digital Indicator: 4-Digits display calibrated in Kilo Newton (KN) and pre-set to maximum load capacity fitted with micro switches to switch-off the motor when the load approaches the maximum capacity of the gauge, avoiding any over loading.
- 4. Safety Relays avoiding motor restart on its own after a power breakdown.
- 5. Electrically operated pumping units with a control knob to adjust the pace rate which can be effectively controlled during the course of testing, by observing the progress of the Digital Indicator readings.



## FLEXURE TESTING MACHINE APPARATUS



- 1. Capacity: 100 kN
- 2. Load indicated on a calibrated Bourdon tube type Pressure Gauge
- 3. Pressure Gauge of range: 0-100kN x 0.5kN (0-10,000 kgf x 50 Kgf).
- 4. The load gauge is calibrated by National Laboratories.
- 5. Length of beam 2000 mm



# **COMPACTION FACTOR APPARATUS**



- 1. Consisting of two rigid conical hoppers and a cylinder mounted on a rigid metal frame. Lower openings of the hoppers fitted with hinged trapdoors having quick release catches.
- 2. A circular metal plate is provided to cover the top of the cylinder.
- 3. Supplied with one plasterer's trowel and one tamping rod, 16mm dia x 600 mm long, one end rounded.



## TILE FLEXURE TESTING APPARATUS



- 1. Double lever loading machine where load is placed by a flow of lead metal that automatically stops as the sample breaks.
- 2. Sample mounting rollers 40mm or 12mm in dia. Bearing rollers can be placed at center distances of 150, 200 or 270 mm.
- 3. The unit equipped with a 20 Kg lead metal.



# **RELATIVE DENSITY TEST APPARATUS**



### Basic

#### **Details: -**

- 1. Vibratory table, with a cushioned steel vibrating decks about 75cm x 75cm. frequency of approximately 3600 vibratory table per minute under a 11.5 kg load.
- 2. Variable Amplitude in between 0.65mm in step of 0.05 to 0.25mm, 0.25 to 0.45 mm and 0.45 to 0.65mm.
- 3. Suitable for operations on 415V, Three Phase supply.
- 4. Cylindrical metal unit weight mould, 3000ml. Capacity.
- 5. Surcharge base plate for mould. Handle for surcharge base plate. Surcharge weight. The total weight together with surcharge base plate and handle is equipment to 140 kg. /sq. cm.
- 6. Cylindrical metal unit weight mould 15000 ml. capacity. (Total weight together with the above mould & surcharge weight should be equivalent to 140 kg./sq. cm)



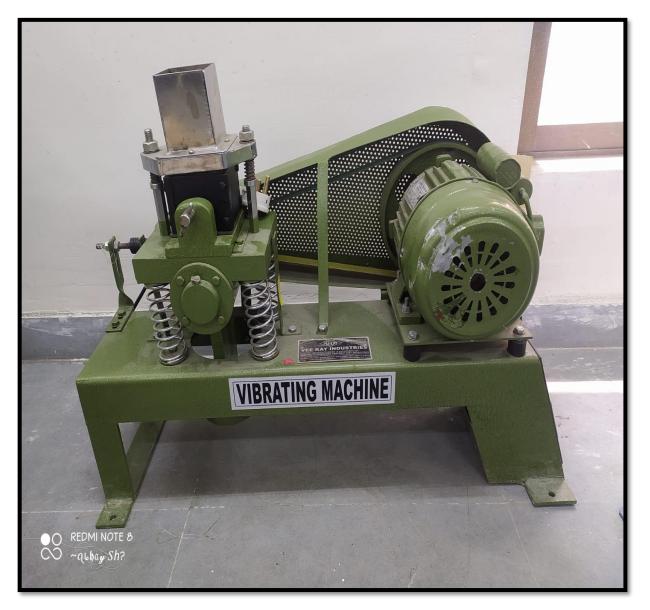
# TILE ABRASION MACHINE APPARATUS



- 1. Tiles specimen of size 7.06cm x 7.06cm
- 2. Load applied is 30 kgf.
- 3. A funnel to evenly spread abrasive powder on the grinding path.
- 4. pre-set counter re-adjustable to automatically stops the machine after specified revolutions



## **VIBRATING MACHE APPARATUS**



- 1. Vibrating machine motor driven of power of 1 kw
- 2. Cement cube mould of size 7.05x7.05x7.05 cm is used



# **VIBRATING PLATFORM APPARATUS**



- 1. Vibrating machine motor driven of power of 1 kw
- 2. Table top 75cm x 75cm for 6 moulds of 150mm cube
- 3. Vibration of 2600-3600 vibration per minute
- 4. Carrying load 140 kg



# **VEE BEE CONSISTOMETER APPARATUS**



- 1. Slump Cone and a graduated rod supplied with the instrument
- 2. Acrylic disc to find out work ability of concrete expressed in Vee Bee degrees
- 3. Vibrating table size 380mm long and 260mm wide, resting on elastic support at a height of about 305mm above the floor
- 4. A holder fixed to the base in to which a swivel arm is telescoped with funnel and guide swivel arm is also detachable from the vibrating table.



# **CEMENT AUTOCALVE APPARATUS**



- 1. Stainless-steel cylinder with a welded heat insulated metal housing attractively finished. Attached control unit enclosing a sensitive pressure regulator and pressure gauge.
- 2. Power switches and pilot lights for controlling the electric heating units.
- 3. Inside chamber dimensions 10.5 cm diameter x 40.5 cm height suitable for operation on 230 V, 50 Hz Single Phase A. C. supply.
- 4. Supply with test bar holder, special rack to hold specimens above water level in the autoclave and in a vertical position to expose them in the same manner.
- 5. A Digital PID Controller for controlling the desired temperature.



## **DIGITAL LOS ANGLES ABRASION MACHINE**



- 1. The machine consists of a heavy steel cylinder of 711 mm inside diameter x 508 mm inside length, mounted on a base frame.
- 2. The drum is rotated at a speed of 30-33 rpm by an electric motor through a heavy-duty reduction gear.
- 3. The machine is fitted with an automatic digital counter which can be preset to the required number of revolutions of the drum.
- 4. Power supply: 230 V 50 Hz 1ph 750W
- 5. Dimensions: 1000x800x1000 mm Weight: 370 Kg approx.



# AGGREATE IMPACT APPARATUS



- 1. Blow Counter to count the number of strokes (detachable)
- 2. Tamping Rod 230mm long x 10mm diameter.
- 3. Metal measure 75mm dia x 50mm high. (for specimen preparation)



# SIEVE SHAKER APPARATUS



- 1. 0.25 kW motor
- 2. Starter and overload protection
- 3. 0-60-minute mechanical timer
- 4. Adjustable top clamping bar