

## **MATERIAL TESTING LAB**

### **Tests that are being performed in Regional Centre, Vattiyoorkavu**

**Kerala State Nirmithi Kendra , Regional Office CPT campus, Vattiyoorkavu, Trivandrum**

**Ph : + 91- 471-2362229**

#### **I. Cement**

- 1 Percentage of water for standard consistency, Initial and final setting time
- 2 Fineness of cement (Sieve test)
3. Soundness of cement
4. Specific gravity of cement
5. Compressive strength of cement (including casting of six specimen)

#### **II. Sand and fine aggregate**

1. Sieve Analysis
2. Specific Gravity

#### **III. Test for Bricks**

1. Water absorption
2. Compressive strength
3. Efflorescence

#### **IV. Test for Coarse aggregate**

1. Sieve Analysis
2. Crushing strength
3. Specific gravity

#### **V. Test for Concrete**

1. Compression test on cube & cylinder
2. Concrete mix design including analysis of materials

#### **VI. Test for concrete block, Interlocking paver blocks & Interlocking bricks**

1. Compressive Strength
2. Water absorption

#### **VII. Tests that can be conducted using UTM**

##### **Test for steel reinforcement**

1. Tensile test (unit weight, actual diameter, elongation, ultimate stress, yield stress, breaking stress)
2. Bending test (bend & rebend)

#### **VIII. Weight of various sections (aluminum/steel)**

**MATERIAL TESTING LAB**

Tests that are being performed in Regional Centre, Manakkala, Adoor

**Kerala State Nirmithi Kendra , Regional Office, Manakala P.O, Adoor, Pathanamthitta Dist-691551.**

**Ph : + 91- 04734 296587**

Equipments

1.Compression Testing Machine(CTM)-1 No

Tests

Concrete cube

Solid Block

Red Brick

Various type of paver blocks

2. Water Absorption

Solid Block/Concrete cube /brick

**MATERIAL TESTING LAB**

Tests that are being performed in Regional Centre, Vallichira, Pala

**Kerala State Nirmithi Kendra , Regional Office, Vallichira P.O, Pala ,Kottayam,**

**Ph : + 91- 482-2211412**

Equipments

1.Compression Testing Machine(CTM)-1 No

Tests

Concrete cube

Solid Block

Red Brick

Various type of paver blocks

**MATERIAL TESTING LAB**

Tests that are being performed in Regional Centre, Muttom

**Kerala State Nirmithi Kendra , Regional Office, Muttom.P.O., Thodupuzha. PIN. 685587,**

**Ph : + 91- 486 2255996**

Equipment

1.Compression Testing Machine(CTM)-1 No

Tests

Concrete cube

Solid Block

Red Brick

Various type of Paver blocks

**MATERIAL TESTING LAB**

**Tests that are being performed in Regional Centre, Ernakulum**

**Kerala State Nirmithi Kendra , Regional Office, Chenakala Road, HMT Colony P.O Kalamassery  
Pin: 683503 Ph : + 91- 484-2555944**

<u>Equipment</u>	<u>Tests</u>
1.Compression test	1.Concrete cube 2.Solid Block 3.Red Brick 4.Paver blocks
2. Sieve Analysis Test	1.Coarse Aggregates 2. Fine Aggregates
3. Weight of various section	1.(Aluminum/steel)

**MATERIAL TESTING LAB**

**Tests that are being performed in Regional Centre,Palakkad**

**Kerala State Nirmithi Kendra , Regional Office Marutharoad, Kodumbu (PO) Palakkad 678551  
Ph : + 91- 491-2571492**

<u>Equipment</u>	<u>Tests</u>
1.Compression Testing Machine(CTM)-1 No	Concrete cube Solid Block Red Brick Various type of paver blocks

**MATERIAL TESTING LAB**

**Tests that are being performed in Regional Centre, Kozhikode**

**Kerala State Nirmithi Kendra , Regional Office, Near Azhakodi temple, Thiruthiyad, Kozhikode,  
Ph : + 91- 495-2725394**

<u>Equipments</u>	<u>Tests</u>
1.Compression Testing Machine(CTM)-1 No	Concrete cube Solid Block Red Brick
Various type of paver blocks	