



## TEASER CONSULTING ENGINEERS PRIVATE LIMITED

OFF. NO-11, 3<sup>RD</sup> FLR., SCO NO-3 & 4, HUDA MARKET, SECTOR-19,  
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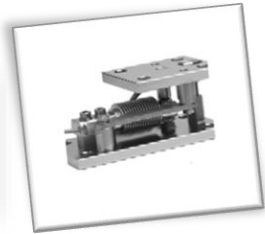
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### Lab & Testing Equipment Spare Parts

#### 1. General Lab Equipment Spares: -

General Lab Equipment Spares in a cement plant refer to the replacement parts and consumables kept in inventory to ensure the smooth operation, maintenance, and accuracy of laboratory equipment used for quality control, chemical analysis, and physical testing of raw materials, clinker, and cement products.

- **Oven spare parts** (heating elements, thermostats, timers)
- **Weighing balance spares** (load cells, displays, power adapters)
- **Sample grinder spares** (grinding discs, blades, motor brushes)
- **Vibratory sieve shaker spares** (rubber pads, clamps, motors)
- **Desiccators** (lids, vacuum seals, drying agents)
- **Muffle furnace parts** (heating coils, insulation bricks, controllers)



#### 2. Chemical Testing Lab Spares: -

The Chemical Testing Laboratory plays a vital role in ensuring quality control by analyzing raw materials, clinker, cement, and other process materials. The lab uses a range of equipment and instruments, and to maintain smooth operation, it requires a consistent supply of lab spares.

- **Titration equipment spares** (burettes, pipettes, glass joints)
- **pH meters** (electrodes, calibration buffers)
- **Conductivity meters** (cell sensors, cables)
- **Glassware** (beakers, volumetric flasks, graduated cylinders)
- **Reagents and standards** for cement (silica, alumina, calcium oxide)





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### 3. Physical Testing Lab Spares: -

The Physical Testing Laboratory in a cement plant ensures that the mechanical and physical properties of cement and concrete meet industry standards. Regular testing includes fineness, setting time, compressive strength, and soundness. To perform these tests effectively, the lab must be equipped with key spares and consumables.

- **Compressive strength testing machine parts** (load cells, platens, hydraulics)
- **Blaine apparatus spares** (permeability cells, manometers)
- **Le Chatelier moulds** (needles, weights)
- **Vicat apparatus** (needles, plungers, glass plates)
- **Soundness testing kits** (gauging trowels, indicators)



### 4. Automation and Electronics: -

In a cement plant laboratory, automation and electronics are integral to improving the efficiency, accuracy, and consistency of testing processes. They support both chemical and physical labs by minimizing manual errors, speeding up analysis, and enabling real-time monitoring.

- **PLC boards**
- **Temperature sensors**
- **Power supplies**
- **Relays and contactors**
- **Lab software keys or licenses**





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### 5. Common Wear and Tear Items: -

Laboratory equipment in a cement plant undergoes regular use in high-temperature, abrasive, and chemically reactive conditions. Over time, several components experience wear and tear, affecting the accuracy and reliability of test results. Regular replacement of these items is essential for efficient lab operation.

- Rubber seals
- O-rings
- Fuses
- Belts and bearings
- Lubricants and cleaning agents

