



TEASER CONSULTING ENGINEERS PRIVATE LIMITED

OFF. NO-11, 3RD FLR., SCO NO-3 & 4, HUDA MARKET, SECTOR-19,
FARIDABAD, HARYANA, (121002) INDIA

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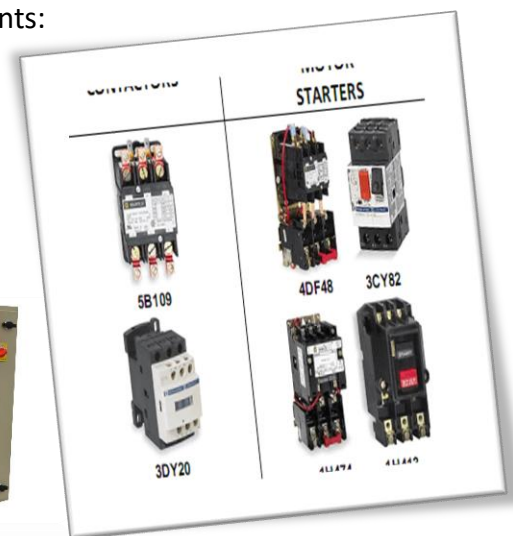
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Electrical Spare Parts

1. Switchgear & Protection Components: -

Switchgear and protection components are essential for ensuring safe and reliable power distribution, control, and protection of electrical systems across various sections like raw material handling, crushing, milling, kilns, and packing. Here's a breakdown of the main switchgear and protection components typically used in cement plants:

- **Circuit Breakers (ACB, MCCB, MCB, VCB)**
- **Relays (Overload, Earth fault, Time delay, etc.)**
- **Contactors and Starters (DOL, Star-Delta, Soft Starters)**
- **Fuses (HT & LT)**
- **Surge Protectors / SPD**
- **Disconnect Switches / Isolators**
- **Thermal Overload Relays**



2. Power Supply & Distribution: -

The power supply and distribution system in a cement plant is a critical infrastructure that supports continuous and reliable operation of heavy electrical equipment such as crushers, mills, kilns, conveyors, and packing units. Here's a detailed overview:

- **Transformers (HT & LT)**
- **Current & Potential Transformers (CTs & PTs)**
- **Busbars and Insulators**
- **Capacitor Banks (Power Factor Correction)**
- **Distribution Boards (DBs, SDBs, LDBs)**
- **UPS & Inverters (with Batteries)**





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3. Motor & Drive Related: -

Motors and drives are critical components that power a wide range of equipment. Their performance directly affects plant efficiency, energy consumption, and production output.

- Electric Motors (HT & LT, Slip Ring, Squirrel Cage)
- Variable Frequency Drives (VFDs) / Soft Starters
- Motor Starters and Control Units
- Motor Protection Relays
- Carbon Brushes and Slip Rings
- Bearings for Motors
- Cooling Fans (for VFDs, motors)



4. Cables & Wiring Accessories: -

Cement plants operate in harsh, dusty, high-temperature environments, and their electrical systems require durable and reliable wiring infrastructure to ensure safe and uninterrupted operations.

- Power Cables (HT, LT, Armored/Unarmored)
- Control & Instrumentation Cables
- Cable Glands and Lugs
- Cable Trays and Conduits
- Junction Boxes (Weatherproof, Flameproof)





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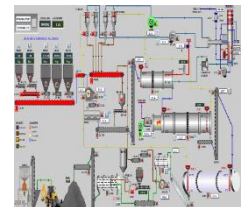
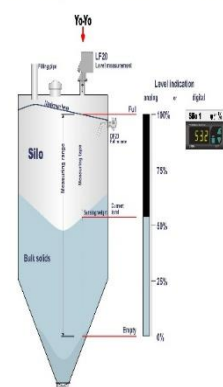
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5. Control & Instrumentation: -

Control and Instrumentation (C&I) play a crucial role in optimizing cement manufacturing processes. They ensure safe, efficient, and continuous production by monitoring and controlling various parameters across the plant.

- PLCs and I/O Modules
- HMI Panels / SCADA Units
- Sensors (Temperature, Proximity, Vibration, Pressure)
- Limit Switches, Encoders
- RTDs and Thermocouples
- Level Switches & Transmitters (for silo/bins)

Yo-Yo type and weight for continuous level measurement of bulk solids.



6. Lighting and Miscellaneous: -

Lighting is essential for safe operations, maintenance, and productivity in a cement plant. It includes general area lighting, task lighting for specific equipment or processes, emergency lighting, and outdoor illumination.

Miscellaneous Systems in a Cement Plant refer to various auxiliary systems and utilities that support the main production process. These include systems such as compressed air, water supply and drainage, fire protection, communication, security, and other non-core equipment that are essential for the smooth and safe functioning of the plant.

- Industrial LED Lights / Floodlights
- Emergency Lighting Units
- Switches, Sockets, and MCB Boxes
- Panel Meters (Volt, Amp, Hz, Power factor)
- Push Buttons and Selector Switches
- Tower Lamps / Indication Lights
- Buzzers and Alarms





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7. Control Panels (LT / HT): -

Control Panels in a cement plant are electrical systems used to manage, control, and distribute power to various equipment and machinery within the plant. They help ensure safe, efficient, and automated operation of the entire plant.

HT (High Tension) Manage incoming high voltage power (typically 11kV or 33kV) from the grid or captive power plant.

LT (Low Tension) Distribute and control low voltage power (usually 415V or 440V) to motors, pumps, and other equipment.

- **MCC Panels (Motor Control Centers)**
- **PCC Panels (Power Control Centers)**
- **VFD Panels / Soft Starter Panels**
- **DG Synchronization Panels**
- **Feeder Panels (Crusher, Kiln, Raw Mill, etc.)**

