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| Component | Specifications | Uses | Min Cost Range (INR) |
| Temperature Sensors | Type: K-type Thermocouples  Type: K-type Thermocouples | Directly measure the temperature of the boiler water, steam, and various critical points. | 35,000 |
| Signal Conditioning and Data Acquisition | Storage Capacity: Sufficient for data logging | Converts thermocouple signals into digital data, stores it, and transmits it to the control system | 75,000 |
| Control System | Type: PLC or DCS  Programming Language: Ladder logic | Receives data from the data logger, compares it to setpoints, and initiates control actions through actuators. | 35,000 |
| Actuators | Type: Control Valves or Burners  Response Time: Fast enough to react to temperature changes | Adjust steam flow or fuel input to maintain desired boiler temperature. | 7,000 |
| Alarm System | Output: Loud audible alarm, flashing lights, and/or remote notifications | Alerts operators to critical temperature deviations. | 5,000 |
| Microcontroler | Operating Voltage: 5V SRAM: 2 KB  EEPROM: 1 KB | Controls the sensor, processes temperature data, and communicates with other components | 700 |