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Sealmatic Successfully Commissions Sophisticated Seal Supply System At 525 x 2 MW Thermal Power Plant



Mumbai, April 22nd 2024: Sealmatic India Ltd, listed on the Bombay Stock Exchange (BSE: BOM: 543782), proudly announces the successful commissioning of a state-of-the-art Seal Supply System at the 525 x 2 MW Thermal Power Plant. This achievement marks a significant stride in the realm of thermal power technology.

A thermal power plant is a sophisticated industrial facility designed to generate electricity through the combustion of fossil fuels, primarily coal, oil, or natural gas. At its heart lies a complex network of machinery and equipment, each playing a pivotal role in the generation and distribution of power. Among these vital components are **boiler feed pumps**, which serve as the essence of the plant, tirelessly delivering water to the boiler at high pressure and temperature.

Boiler Feed Pumps (BFP) are the mainstays of the thermal power plant, operating under extreme conditions of temperature, pressure and high RPM. BFP pumps are tasked with maintaining a continuous supply of water to the boiler, ensuring optimal steam generation for power production. Operating within such a demanding environment necessitates robust sealing systems capable of withstanding the severities of prolonged operation.

The Seal Supply System which is crafted with precision engineering and meticulous attention to detail, this system represents the epitome of innovation in thermal power plant operations. Central to the Seal Supply System is the integration of various instruments, heat exchangers, magnetic filters, flanges, valves etc.

The heat exchanger plays a vital role in dissipating excess heat generated by equipment such as boiler feed pumps, thereby safeguarding against thermal overload and ensuring optimal performance. By efficiently transferring heat to the surrounding environment, heat exchangers help maintain operational integrity and prolong equipment lifespan. In addition to heat exchangers, the system also incorporates advanced magnetic filters, serving as the first line of defense against contaminants and debris. Operating within the harsh confines of a thermal power plant, these filters act as preventing foreign particles from infiltrating critical components and compromising system efficiency. Through their magnetic properties, these filters attract and capture unwanted contaminants, ensuring uninterrupted operation and minimal downtime.

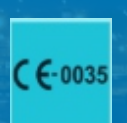
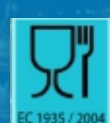
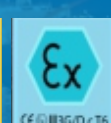
The Seal Supply System weighing at **1000 kg approx**, stands as a testament to Sealmatic's dedication to quality and precision. Every component, from flushing water piping to cooling water fittings, flanges, valves were meticulously crafted from SS 316 stainless steel and other exotic materials, meeting the exacting standards of the customer and the demanding environment of the power plant. All aspects were taken into consideration while testing the system to ensure compliance with stringent specifications. Coolers and filters are subjected to independent hydrostatic testing at Sealmatic state-of-the-art facility, reaffirming their durability and reliability under extreme conditions. With maximum allowable pressures of 6.54 MPa at 215 deg.C, for seal water circulation and 01 MPa for cooling water line at 50 deg.C. The system exceeds industry standards for safety and performance.

Sealing systems featuring maximum operational reliability, convenient maintenance and low leakage rates with necessary environmental protective measures are standard requirements in modern power stations. The commissioning of the Seal Supply System at the 525 x 2 MW Thermal Power Plant exemplifies the collaborative efforts of Sealmatic Dream Team. With meticulous attention to detail and steadfast commitment to customer satisfaction.

22nd April 2024

API SPEC Q1 . API . ISO 9001:2015 . EU 1935:2004 . ATEX - 2014/34/EU . ISO 9001:2015 . ISO 14001:2015 . BS-OHSAS 18001:2007 . PED-CE

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