



Sharayu Agro Industries Limited (Night View)

## Incineration (Spent Wash) Boilers

**S.S. Engineers**, an 'ASME' CERTIFIED COMPANY, established in the 80's has the expertise and long standing experience in the design and installation of sugar plants along with co-generation plants by installing high pressure and high temperature boilers with matching TG sets, electricals and instrumentation. We are Turn-Key full plant suppliers having already delivered / in hand **33 COMPLETE SUGAR PLANTS, OVER 250 MILLS, 92 HIGH PRESSURE BOILERS, 30 CO- GENERATION PLANTS.**

**S.S. Engineers** also designs, manufactures and supplies **Spent Wash Incineration boilers**. The spent wash from the distillery is incinerated completely to achieve 'Zero Liquid Discharge'. With this Spent Wash Incineration Boiler, the power as well as the steam requirement of the distillery is met satisfactorily. The supporting fuels that can be used to incinerate spent wash in these boilers are **bagasse** and **coal**. The spent wash to coal ratio that can be attained is 72:28 and for bagasse it is 60:40. Our installation at Sharayu Agro Industries Limited has a capacity of 25TPH and a pressure of 45 kg/cm<sup>2</sup> and is working at the mentioned parameters since its commissioning. Our second installation is under execution at Kancheshwar Sugar Limited.

The Spent Wash Boiler has the following features:

- Boiler construction is tail end type with folded furnace construction and horizontal convection section.

- The fouling potential is minimised through multi-pass design and with online cleaning systems.
- The boiler is designed such that it is easily maintainable.
- The convective section of the boiler (consisting of Economiser, Superheater and Evaporator) consist of vertical tubes.
- The total assembly is made up of Gas tight construction.
- A Steam Coil Air Preheater is provided to preheat combustion air. This is required to maintain the bed from quenching.
- Travelling grate is provided for efficient combustion of Spent & coal& bagasse.

The boiler will need off-line cleaning once in 60 days of operation. The cleaning will include the water wall, super-heater, evaporator and economiser section. The total time required will be 3-4 days. The cleaning frequency and duration is an estimated one, and will be decided based on the actual operating parameters / conditions.



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**S.S. Engineers has also started the supply of distillery plants!**