



SIFLON DRUGS LIMITED

Technology Upgrade: Planetary Cooler, Bucket Elevators, and Crusher/Roller Press

SUMMARY OF THE OPTION

Siflon Drugs is a privately-owned company in India and manufactures on average 38 tons of veterinary drug/annum as against an installed capacity of 72 tons/per year.

The operating efficiency of the existing planetary coolers was low and was fraught with maintenance related problems. The achievable secondary air temperatures in the order of 1200 °C were far beyond the present planetary cooler's capabilities. The vertical air lift pumps used for conveying raw meal from the raw mill to the silos are energy intensive. The existing hammer crushers not only consume higher power but also generate wide variations in oversized output material making mill operations more cumbersome and expensive.

The following options were identified:

- The existing vintage planetary coolers were identified for replacement with state of the art grate coolers to achieve optimum secondary air temperatures and high thermal efficiencies.
- The existing vertical air lift pumps were identified for replacement by a bucket elevator system which has much lower energy intensity and specific electrical energy consumption.
- The Team recommended that the crusher, be augmented by a high pressure roller press prior to the mill thus ensuring increase in mill throughput and reduced power consumption.

None of the above proposals were approved by the management, citing inadequacy of funds as the reason. Each of the above option requires an investment of about US\$ 0.5 to 1 million and the payback period is in the range of 3-5 years. However all the above proposals received maximum points so far as technical feasibility was concerned. It was stated that these proposals would be considered during future expansion projects.

KEY WORDS

India, Chemicals, Coolers, Elevators, Press

FOR MORE INFORMATION

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