



Company News

SpectraFlow Analytics receives Order for Airslide Analyzer for Raw Mill Optimization

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Spreitenbach, Switzerland -

Siam City Cement (Lanka) also known as INSEE Cement ordered one SpectraFlow Airslide Analyzer plus a Raw Mix Proportioning Software for the biggest cement manufacturing line in Sri Lanka to optimize the raw mill operation. The ever increasing demand in cost savings and at the same time improving product quality led Siam City Cement (Lanka) to invest in the most advanced raw mill optimization package available on the market.

By installing the SpectraFlow Airslide Analyzer after the raw mill the chemical composition of the raw meal is available every minute and this is the basis to adjust the additive weight feeders before the raw mill in real time. This leads to an unrivalled raw meal stability without the need of automated sample transport systems, highly available lab equipment and operators.

Additionally the SpectraFlow Online Analyzer (Crossbelt for Crusher Optimization and Airslide for Raw Mill Optimization) is free of any radioactive sources, neutron generators or any other hazardous components, which makes the analyzer completely free of the requirement of import permits, operational licenses or radiation officers. This results in very low operational costs with a completely safe technology.

About Siam City Cement (Lanka) / INSEE Cement Lanka:

Siam City Cement (Lanka) is widely known for its strong investment in innovation and R&D to produce high-quality blended cement products and sustainable building materials.

The company is a subsidiary of the Siam City Cement Public Company Limited (SCCC) of Thailand. Drawing from SCCC's 50-year legacy of operational excellence, industry expertise and accumulated knowledge, INSEE Cement Sri Lanka continues to evolve a long-established, award-winning homegrown brands such as INSEE SANSTHA and INSEE MAHAWELI MARINE PLUS into improved, more ecofriendly and high-performance products that can meet the rapid pace of development and urbanization across Sri Lanka.

With a local production capacity of over 3.1 million tons, INSEE Cement Sri Lanka is powered by a 600-strong team spread across a growing local ecosystem. These include key manufacturing facilities in Puttalam and Galle, a cement terminal in Colombo, a ready-mix batching plant and warehouses, as well as an island-wide dealer network. The company's industry-transforming innovation and collaboration space also keeps Sri Lanka abreast with global advancements.

The new SpectraFlow installation in the main manufacturing unit in Puttalam is perfectly in line with this vision and company strategy in enhancing quality, reducing costs and decreasing the environmental impact.

SpectraFlow Installation for Raw Mill Optimization:

The SpectraFlow Airslide Analyzer is an online analyzer to be able to measure raw materials in airslides. As raw materials are processed through a crusher and raw mill these are statistically homogeneous and therefore the analytical results of the SpectraFlow Airslide Analyzer are highly accurate.

By using a SpectraFlow Airslide Analyzer and a site-specific raw mix proportioning strategy the variation in the local raw materials can be balanced out to increase consistency of the raw meal and therefore kiln feed quality considerably. Also a variable MgO , Na_2O , K_2O , Cl and SO_3 content is optimally monitored. The highly consistent kiln feed results in fewer kiln stoppages, refractory problems and simultaneously increase the clinker production.



SpectraFlow Airslide Analyzer in the Puttalam clinker production process. (Pictures: ©SpectraFlow Analytics AG)

Summarized benefits are:

- The analyzer is free of any radioactive sources, neutron generators or any hazardous components. This means the SpectraFlow Analyzer does not require any permits or licenses regarding importation, operation or maintenance.
- The SpectraFlow Analyzer is completely safe, maintenance can be done by the plant personal.
- Raw meal quality will be homogeneous and on setpoint. That results in stable and optimized kiln operation.
- The Airslide Analyzer eliminates the need of automatic sample transport systems, automatic laboratories, high availability of operators and maintenance personal for controlling the raw mill operation.

This SpectraFlow order is the 57th order for the Cement Industry and the 1st airslide analyzer installation in Sri Lanka. This order raises the installed base worldwide to 79 analyzers (43 Crossbelt & 36 Airslide) in 29 countries across all continents.

SpectraFlow Analytics Ltd. Switzerland are the experts in providing online analysis for the cement, bauxite, gold, platinum, copper, potash, phosphate, coal and other minerals industries without any radioactive sources nor neutron generators. The NIR technology used for the SpectraFlow Analyzers is not requiring any permits or licenses and there are no restrictions in buying, importing or maintaining the analyzers. This results in very low operating costs and high availability of the analyzers combined with highly accurate measurement results.