

# LASER ONLINE ELEMENTAL ANALYZER

## FOR ADVANCED PRODUCTION OF POTASH



NO RADIATION

# LYNCIS



### CHALLENGE:

To stay ahead of the competition and comply with raising environmental standards one of potash producers was seeking for a solution for stable and always on target product quality with maximized utilization of recovered potassium.

### SOLUTION:

MAYA online analyzer was installed on a production conveyor after hot leaching and crystallization process for feedforward control to monitor incoming product quality.

The mineral concentration data in real-time mode is sent to SCADA system and production personnel can promptly adjust water supply levels required for stable and targeted product quality.

In addition, online analyzer is used to divert different grades of potash to separate storage facilities. No production is wasted and different grade can be sold at appropriate price.

### ACHIEVEMENTS:

The prompt process control provided:

- Higher recovery and utilization of potassium
- Stable technology process which guarantee set product quality with no fluctuations
- Higher revenue from higher quality products
- Reduced consumption of water and energy
- Reduced concentration of potassium of tailings

#### INDUSTRY:

Fertilizers

#### TECHNOLOGICAL TASK:

Product Quality Control,  
Grade Sorting

#### ANALYTICAL TASK:

KCl, NaCl, Mg



#### FINANCIAL BENEFIT:

- Higher recovery of potassium
- Additional earnings from high-grade fertilizers
- Elimination of quality claims
- Reduced consumption of water and energy

#### PAYBACK OF INVESTEMENT

- 12 months

#### ENVIRONMENTAL BENEFIT:

- Reduced consumption of water and energy
- Minimization of harmful materials in the final potash product and tailings
- No Gamma, No Neutron, No X-Ray Radiation

**“With MAYA Analyzer we could achieve stable and always on target product quality. No excess concentrations of potassium are required to prevent product claims from customers”** The Client