Application Design, Engineering, Supply, Installation and Commissioning with Emerson Quantum Cascade CEMS at CMEC TEL +Thal Nova (Engro Thar Projects)

### Key points:

- Fiscal Measurement of Flue Gases
- Sample Probe installation at lower height of 180-meter-high chimney.
- Address customer's requirement through optimum system design.

## **Customer:**

Customers are the Coal Power Plants with 330 MW production capacity, are committed to their mission of tackling the challenges of the new energy future. Customer's aim is to meet the energy needs of society, in ways that are economically, socially and environmentally viable, now and in the future.

# **Challenges:**

- End user is not convinced with the proposed solution by SICK CEMS, specifically on height at which sample probe is to be placed.
- CEMS is to be installed on chimney 180-meter in height.
- As per SICK recommendation, EPC constructed platforms at 75 and 110 meter.
- SICK proposed their sample probe to be placed at 75-meter, end user considered it as serious health hazard considering routine maintenances to be performed there.
- End user is desperately looking for CEMS solution in which sample probe can be placed at lower heights for easy maintenance.
- Evaluation and Conformity of performance and efficiency at lower height installation.

# Solution:

- As per EE Engagement Strategy with end user, we get informed about the issue.
- EE analyzed that Sample Probe placement is key in winning two CEMS projects.
- EE transparently communicated probe placement to end user and assured them in terms of providing support for selection of suitable Sample Probe.
- EE is working with multiple vendors to better advise end user in selecting:
  - Sample Probe which could be installed at lowest possible height.
  - Sample Probe which require minimum maintenance.
- EE is also supporting end user in taking up case with their EPC in terms of CEMS solution for lower height installation along with respective Sample Probe with minimum maintenance requirement in comparison to the SICK CEMS proposal.
- EE already educated customer on Emerson latest Cascade Laser Technology and trying to grab end user confidence in terms of providing them support on Sample Probe vendors so that Emerson CEMS could get finalized as a whole package.

### **Results:**

EE is working deliberately with end user in order to win CEMS project on two plants.





Emerson Quantum Cascade CEMS









Proposed SICK CEMS

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ROSEMOUNT