

**Goal of the project:**

Determination of gaseous and solid pollutants from measuring the emission and immission.

**Short description of the project:**

The result of the contract for the client is the analysis report. The quality of this report is based on the quality of the information that is monitored. For this reason, the precision of the experimental data and instruments involved is an important requirement. The accuracy of the report is based on this precision. The instruments used for measurements are: TESTA FID 123 analyzer, STROHLEIN STE4 analyzer and TESTO 350XL analyzer (emission) and mobile laboratory (air quality).



*Mobile laboratory*

**Project implemented by:**

LaCIEDiN - Laboratory for Fuel Analyses, Ecological Investigations and Pollutant Dispersion

**Implementation period:**

November 2012- November 2014

**Main activities:**

Project steps: planning of the campaigns,

measurements in situ, result processing, data interpretation and preparation of analysis bulletin/report.

**Results:**

- CO, CO<sub>2</sub>, O<sub>2</sub>, NO, NO<sub>2</sub>, NO<sub>x</sub>, SO<sub>2</sub>, CH<sub>4</sub> (from emissions);
- Particulate (emission);
- NO, NO<sub>2</sub>, NO<sub>x</sub>, SO<sub>2</sub> CO, PM<sub>10</sub>, O<sub>3</sub>, CH<sub>4</sub>, VOC, TOC and meteorological parameters (air quality).

**Fields of interest:**

The LaCIEDiN- Laboratory acts according standard SR EN ISO/CEI 17025:2005 and it is RENAR accredited with certificate no. LI 787 from 22.06.2009.

**Financed through/by:**

SC SMITHFIELD PROD SRL

**Research team:**

Prof. Dr. Eng. Ioana Ionel,  
Dr. Eng. Nicolae Lontis,  
Dr. Eng. Tenchea Adrian

**Research centre:**

Research Centre for Thermal Machines and Equipments, Transportation and Environmental Pollution Control

**Aplicability and transferability of the results:**

On customer request, the results are confidential, thus at request the client directly can offer them.

**Contact information:**

E-mail: [ioana.ionel@mec.upt.ro](mailto:ioana.ionel@mec.upt.ro)  
Web: <http://mettcp.mec.upt.ro/>