

Developing the R-D laboratory in the field of modernization and manufacturing the electrical DMCL locomotives

Beneficiary: **SC SOFTRONIC SRL CRAIOVA**

Project: POSCCE, PA2

Operation: O2.3.2 „**Development of R&D infrastructure in enterprises and creation of new R&D jobs**”

Contract period: 01.09.2009-31.08.2011

Contract ID-245

Project value:

ERDF project value =1,532,017.74 lei

State budget value =228,922.19 lei

Eligible co-financing =1,173,960.08 lei

Project eligible total value = 2,934,900.02 lei

Project total value =4,009,720.22 lei

General objective

Modernizing and developing the R&D infrastructure of SC SOFTRONIC SRL in order to increase its level of innovation and competitiveness on the market.

Specific object

Developing the R&D infrastructure in order to elaborate and manufacture new types of components for electric locomotives (EL).

Project contribution in achieving the competitions objectives include:

- developing the R&D capacity of company by establishing 6 laboratories, equipped with modern equipment and devices and 5 test stands:

- 6 R&D laboratories for development of new models and prototypes and for preparing the documentation for in house manufacturing;

- 5 test stands for verifying the electric and electronic equipment:

- Power transformer test stand
- Traction motors test stand
- Invertors test stand
- Simulator for variable tension supply 17 – 27,5 KV

- creating new available research jobs to attract the young engineers in research and development activities.

Indicators achieved by the project

Project implementing results (outputs):

- Establishing 6 research laboratories for developing models and prototypes and for testing electric and electronic equipment developed for EL modernization.
- Establishing 5 test stands: motors supply bloc (invertors) test stand; simulator for variable tension 17-

27.5 KV; test stand for testing the commands and auxiliary services; power transformer test stand; traction motors test stand;

- No of R&D equipment and devices: 49
- No of IT equipments (hardware): 41
- No of software licenses: 33

Results achieved by the project:

- New available jobs in R&D: 11
- International project in which the infrastructure will be implied: 1
- Patenting new technical solutions.

Project relevant pictures:



Administrative building SC Softronic SRL



Research laboratory – overview



Research laboratory – overview



CD1 Research laboratory



CD2 Research laboratory



CD3 Research laboratory



CD4 Research laboratory



CD5 Research laboratory



CD6 Research laboratory



Auxiliary services test stand



Invertors test stand



Traction motors test stand



Traction motors test stand