

Name of public contract:

Equipment for Development of Incremental Forming

Substantiation of purpose of the public contract in accordance with section 86, subsection 2 and section 156, subsection 1, paragraph a) of the Act No. 137/2006 Sb., Public Contract Act (hereinafter referred to as "PCA")

Description of needs to be met by completing the public contract:

The public contract is performed as part of the Regional Technological Institute project – RTI, CZ.1.05/2.1.00/03.0093, which is funded from the Operational Programme Research and Development for Innovation.

The main strategic objective of the project is to build, start the operation of and sustain a research centre entitled Regional Technological Institute (RTI). RTI will become an autonomous and integral part of the Faculty of Mechanical Engineering of University of West Bohemia in Pilsen. RTI will perform most of its activities in newly-constructed hall laboratories.

RTI will focus on providing computational and experimental support for designing advanced structures of vehicles, production machines and equipment and on research, development and optimization of manufacturing technologies in engineering. RTI's key partners of interest include engineering and technology companies engaged in the following business areas: manufacturing and operation of transport and handling technology, production and operation of machine tools and forming machines and implementation of machining and forming technologies. Ten laboratories and testing shops with modern equipment will offer substantial new research capacity available to companies based in the region and elsewhere.

One of these planned facilities is the Experimental Forming Laboratory which is intended to house the Equipment for Development of Incremental Forming.

Description of the subject-matter of public contract:

The subject-matter of the public contract is procurement of Equipment for Development of Incremental Forming. The equipment is to be used for flexible rolling of rotation-symmetric products with variable cross-section. It shall allow manufacturing of cylindrical, conical and other pre-defined rotation-symmetric products with a straight longitudinal axis. The rolling process will be realized with three adjustable rolls providing adjustable controlled process conditions (temperature, rolling speed and others). The equipment shall include software for recording and analysing the data. The equipment shall be a complete, new, fully functional system, including the required software with a licence, ready for full use. The performance of the public contract shall include the delivery, installation and commissioning of the equipment, including the setting and adjustment of machines and training of operators on the delivered equipment and software. The equipment will be used to achieve project objectives in the field of research and development.

Relationship between the subject-matter of the public contract and the needs of the Contracting Authority:

The performance of the public contract will enable research into machining and forming processes and machine design to be carried out.

Risks associated with performance of the

Risks related to a failure to perform the public contract and/or to a decline in the public contract quality would threaten the fulfilment of objectives of the RTI project,

**public contract accounted for in tender conditions by the Contracting Authority:**

particularly in the Experimental Forming Laboratory, as the full-scale operation of the latter would not be possible. These risks would have negative impacts on compliance with monitoring indicators. A delay in performing the public contract may affect the completion of the following RTI project milestone: Start-up Operation of Experimental Forming Laboratory.

**Anticipated date of public contract completion:**

The Contracting Authority set the completion date on the basis of a market survey, taking account of the necessary trial run.

The Contracting Authority requires that the Supplier allows trial run for thirty calendar days to take place. The trial run shall commence immediately after the acceptance report is signed and shall be used for comprehensive verification of compliance of the equipment with all requirements set out by the Contracting Authority in the tender documentation and for ensuring that the equipment operators have mastered all activities included in the basic training.

The trial run shall include advanced training for no less than the above-specified minimum number of operators, as a follow-up to the basic training. Its purpose shall be the mastering of specific measurements/tests and combining the knowledge acquired for conducting advanced analyses and specific activities in the envisaged research and development tasks.

**Alternative fulfilment of the planned goal and its justification:**

The Regional Technological Institute project – RTI, CZ.1.05/2.1.00/03.0093 – comprises a stage which cannot be completed without performing the present public contract. The Contracting Authority considers the fulfilment of its goal through performing this public contract as the most effective and efficient variant.

**Extent, to which the public contract affects the fulfilment of the planned goal:**

The performance of this public contract is one of the prerequisites for fully-fledged operation of the Experimental Forming Laboratory.