

Justification of Purposefulness of Public Contract

Public Contract name: **Optical and X-ray Streak Cameras for Experimental Areas**

Type of Public Contract and Procedure: above-the-threshold public contract for supplies in the open procedure.

Number in the Official Information System of Public Contracts: 511080

Contracting Authority: Fyzikální ústav AV ČR, v. v. i.
Seat: Na Slovance 2, 182 21 Praha 8
Identification No.: 68378271
Tax Identification No.: CZ68378271
Person authorized to represent the Contracting Authority: prof. Jan Řídký, DrSc., Director

Statement of Reasons for Purposefulness of Public Contract Pursuant to Sec. 2 of the Decree n. 232/2012 Coll.	
The data pursuant to Sec. 1, where a modification occurred in contrast to the facts pursuant to Sec. 1 of the regulation (modifications in contrast to Justification of Purposefulness of Public Contract for Purposes of Contracting Authority Prior Information Notice):	
a) description of the needs to be accomplished through the performance of a public contract	No changes
b) description of the subject matter of a public contract	No changes
c) a mutual relationship between the subject matter of a public contract and the needs of the contracting entity	No changes
d) foreseen deadline of the performance of a public contract	Initiation of the Public Contract Performance is set in November 2015, which differs from the originally expected initiation in August 2015. Expected Completion of the performance is expected in May 2017

The description of the risks attaching to the performance of a public contract which were taken into account by the contracting entity in setting forth tender conditions. It particularly involves the risks of failure to execute a public contract, delay with the performance of a public contract, reduced quality of the performance, expending additional financial costs	Not realizing the Public Contract might jeopardize a fulfilment of aims and conditions emerging from a realization of the projects, whose proper realization the Contracting Authority has pledged to.
The contracting authority may delimit the variants of the accomplishment of the need and justification of the selected variant of the public contract <i>(optional)</i>	The Contracting Authority is not aware of any other way of accomplishing its needs.
The contracting authority may delimit to what extent the public contract will influence the performance of envisaged target. <i>(optional)</i>	A successful realization of the public contract achieves a fulfilment of the Contracting Authority needs and a reaching of the envisaged target.
Supplementary information justifying the purposefulness of a public contract <i>(optional)</i>	

Statement of Reasons for Proportionality of the Requirements on Technical Qualifications Prerequisites for the Performance of a Public Supply Contract Pursuant to Sec. 3(1) of the Decree n. 232/2012 Coll. <i>(justification of proportionality of the requirements on technical qualifications prerequisites in relation to the subject matter of the public contract and to the risks attaching to the performance of the public contract)</i>	
Justification of proportionality of the requirements for the list of principal deliveries. <i>(The contracting entity shall fill it in compulsorily, where the required financial value of all principal deliveries amounts in the aggregate to at least three times the estimated value of the public contract.)</i>	Not relevant in any of parts of the public contract.

Justification of proportionality of the requirement for submission of the list of technicians or technical bodies. (<i>The contracting authority shall fill it in compulsorily, where it requires the submission of the list of more than three technicians or technical bodies</i>).	Not relevant in any of parts of the public contract.
Justification of proportionality of the requirement for production of the description of technical facilities and measures used by the economic operator for ensuring quality control, and description of facilities or equipment of the economic operator designed for research.	Not relevant in any of parts of the public contract.
Justification of proportionality of the requirement on the check carried out on the production capacities by the contracting authority or on its behalf by another person and, if necessary, a check on measures relating to assurance of quality and research.	Not relevant in any of parts of the public contract.
Justification of proportionality of the requirement for submission of samples, descriptions or photographs of the products to be supplied.	Not relevant in any of parts of the public contract.
Justification of proportionality of the requirement for production of evidence attesting conformity of a required product issued by the relevant authority.	Not relevant in any of parts of the public contract.

Statement of Reasons for Delimitation of Commercial Terms and Conditions for Public Supply Contracts and Public Service Contracts Pursuant to Sec. 4 of the Decree n. 232/2012 Coll.

Justification of delimitation of the commercial term setting forth maturity of invoices longer than 30 days	Not applicable. Maturity of invoices is 30 days.
Justification of delimitation of the commercial term setting forth the requirement for third party liability insurance for the damage brought about by the economic operator to third persons amounting to twice the estimated value of the public contract.	Not applicable. No such requirement in the contract.
Justification of delimitation of the commercial term setting forth the requirement for a bank guarantee higher than 5 % of the public contract value.	Not applicable. No such requirement in the contract.
Justification of delimitation of the commercial term setting forth the requirement for a guarantee period longer than 24 months	Not applicable. Guarantee period does not exceed 24 months.
Justification of delimitation of the commercial term setting forth a contractual penalty in the event of default of the economic operator higher than 0.2 % of the estimated value of the public contract for each day of delay.	Not applicable.
Justification of delimitation of the commercial term setting forth a contractual penalty in the event of default of the contracting entity higher than 0.05 % of the due	Not applicable.
Justification of delimitation of other commercial terms and conditions pursuant to Sec. 5(2). The contracting authority shall justify delimitation of commercial terms and conditions of a public supply contract and public service contract in proportion to its needs and to the risks attaching to the performance of the public contract.	Not applicable.

Justification for Technical Conditions specification of Public Contract Pursuant to Sec. 5 of the Decree

Technical Condition	Justification for Technical Condition
Time resolution in the ps range	This is the fastest range of measurements that can be made by streak cameras. This is important to measure the ultrafast dynamics of plasmas.
Spatial resolution of greater than 10 lp/mm	Such resolution is important when the camera is coupled to the spectrometer or directly imaging the plasma.
Time ranges till 50 ns	Fast plasma phenomena is expected to last maximum of 50 ns.
Trigger jitter less than 10 ps rms	Trigger jitter within this value is required to compare shot to shot variability in plasma evolution.

Justification for Basic and Partial Evaluation Criteria setting pursuant to Sec. 6 of the Decree

Evaluation Criterion	Justification for Evaluation Criterion
Total Bid Price (70% for parts 1 and 2; 75% for part 3)	Price is considered an important evaluation criterion as the streak cameras should meet the budget requirement.
Number of spatial resolution units (10% for every part)	Higher the spatial resolution units, implies better spatial resolution. This is important for resolving structures within the plasma.
Number of temporally resolved events (10% for every part)	Higher temporally resolved events means higher time resolution of the camera. It is important to measure plasma dynamics with sufficient details.
Read out system (10% for parts 1 and 2)	An external MCP to the streak tube is susceptible to noise, and so is not preferred as a read out system.

Internal optical Ethernet communication module in the camera (5% for part 3)

Internal optical Ethernet communication is less susceptible to EMP noise generated from the experiments.