

Germany-Jülich: Miscellaneous evaluation or testing instruments

OJ S 118/2020 19/06/2020

Contract notice

Supplies

Legal Basis:

Directive 2014/24/EU

Section I: Contracting authority

I.1. Name and addresses

Official name: Forschungszentrum Jülich GmbH

Postal address: M-E, Leo-Brandt-Straße

Town: Jülich

NUTS code: DEA26 Düren

Postal code: 52428

Country: Germany

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Internet address(es):

Main address: <http://www.fz-juelich.de>

Address of the buyer profile: http://www.fz-juelich.de/portal/DE/Service/Beschaffungen/Ausschreibungen/_node.htm

I.3. Communication

The procurement documents are available for unrestricted and full direct access, free of charge, at: www.subreport.de/E19733648

Additional information can be obtained from the abovementioned address

Tenders or requests to participate must be submitted electronically via: www.subreport.de/E19733648

Tenders or requests to participate must be submitted to the abovementioned address

I.4. Type of the contracting authority

Other type: Body governed by private law

I.5. Main activity

Other activity: Research

Section II: Object

II.1. Scope of the procurement

II.1.1. Title

Sample Cave Shielding for the Spectrometer SKADI at the ESS

Reference number: W60/42246084

II.1.2. Main CPV code

38900000 Miscellaneous evaluation or testing instruments

II.1.3. Type of contract

Supplies

II.1.4. Short description

The award procedure relates to the shielding concept, design, manufacturing and installation of the sample cave shielding for the neutron scattering instrument SKADI that will be built on beam port E3 in the east hall of ESS in Lund (Sweden). The sample cave shielding protects the environment from radioactive neutron and gamma radiation. The order and thickness of the shielding elements has to reduce a maximum dose rate to 1,5 µSv/h at the exterior contact. The shielding walls should be constructed of 600 mm thick normal concrete with carbon steel rebar, the inner side of the concrete walls and top should be lined with the 50 mm thick steel plates and borepoxy plates. The access to the sample area is provided through the motorised side and roof doors.

II.1.5. Estimated total value

II.1.6. Information about lots

This contract is divided into lots: no

II.2. Description

II.2.3. Place of performance

NUTS code: SE224 Skåne län

Main site or place of performance: European Spallation Source (ESS) in Lund, SWEDEN.

II.2.4. Description of the procurement

The Small-K Advanced Diffractometer (SKADI) is a small-angle neutron scattering (SANS) instrument to be constructed at the European Spallation Source (ESS).

SKADI is a versatile SANS instrument, which will enable scientists to perform a wide range of investigations on topics requiring small scattering angles to access long length scales. The scientific areas targeted by SKADI include investigations of smart materials, biological and medical research, magnetic materials and materials for energy storage, as well as experiments on nanomaterials and nanocomposites or colloidal systems. These experiments promise a high potential impact on science and society. To maximise the societal applicability of these studies SKADI is designed to accommodate in-situ measurements with custom made sample environments to provide 'real-world' conditions. One part of the SKADI instrument is sample cave shielding. The sample cave shielding protects the environment from radioactive radiation.

During the experiments, samples are exposed to a neutron beam. For most of the experiments, the sample will be positioned in air. This setup has the advantage of fast sample change and allows an easier conversion of experiments. Those produce radioactive radiation that must be shielded. Access to the sample area is provided through the side door and roof hatch, both of which are motor operated with appropriate safety switches and interlock systems for safe access. The arrangement and the thickness of the shielding elements were preliminary calculated and simulated to provide a maximum dose rate of 1.5 µSv/h at the outer shielding surface.

The shielding walls should be constructed of 600 mm thick normal concrete with carbon steel rebar, the inner side of the concrete walls and top should be lined with the 50 mm thick steel plates depending on the shielding calculations and 5 mm Borepoxy plates as the neutron-absorbing material. This layer will absorb the neutron and will act as an activation protection for materials underneath. The steel plates are painted with primer paint only.

The concrete walls of the shielding are to be constructed modularly from prefabricated elements. The casting of the walls at the construction site is not desired. Access to the sample area is provided through the side door and roof hatch. All the doors are motor operated with appropriate safety switches and interlock systems for safe access. The roof door is opened if access from the above is required especially for handling cryostat components. This door is made of 200 mm thick steel plate and covered with 5 mm borepoxy plates from the inside. The side door is intended for access to the sample location. The door is made of 600 mm concrete and covered inside with 50 mm steel plates depending on the shielding calculations and 5 mm Bore-poxy plates as the neutron-absorbing material. The door should overlap to minimise radiation. Basically, all gaps must be covered with a chicane. The side door should also be motor-driven with corresponding position measuring systems.

Scope of work:

Scope of work for this project is the detailed design, manufacturing, delivery and installation of a turnkey sample cave for biological shielding of SKADI. This includes the following items:

- 1) conceptual design,
- 2) structure calculation and structure drawings for all relevant components,
- 3) calculations of the drives and design the doors,
- 4) shielding design with detail drawings,
- 5) calculations of the radiation shielding of the shielding,
- 6) stairs and rails,
- 7) manufacturing and assembly, painting (colour of painting the concrete blocks will be painted white (RAL to be defined) with plain green circle RAL6038, the steel structure in a similar manner,
- 8) factory acceptance tests (FAT),
- 9) delivery to ESS storage facility (Lund Sweden),
- 10) transport to ESS site,
- 11) installation in the instrument hall (optional),
- 12) site acceptance test (SAT) of the complete systems at ESS,
- 13) documentation.

II.2.5. Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.6. Estimated value

II.2.7. Duration of the contract, framework agreement or dynamic purchasing system

Start: 02/11/2020 End: 31/08/2023

This contract is subject to renewal: no

II.2.9. Information about the limits on the number of candidates to be invited

Envisaged number of candidates: 3 Objective criteria for choosing the limited number of candidates:

Objective criteria for choosing the limited number of candidates are stated only in the procurement documents.

II.2.10. Information about variants

Variants will be accepted: no

II.2.11. Information about options

Options: no

II.2.13. Information about European Union funds

The procurement is related to a project and/or programme financed by European Union funds:
no

II.2.14. Additional information

Section III: Legal, economic, financial and technical information

III.1. Conditions for participation

III.1.2. Economic and financial standing

Selection criteria as stated in the procurement documents

III.1.3. Technical and professional ability

Selection criteria as stated in the procurement documents

III.2. Conditions related to the contract

III.2.3. Information about staff responsible for the performance of the contract

Obligation to indicate the names and professional qualifications of the staff assigned to performing the contract

Section IV: Procedure

IV.1. Description

IV.1.1. Type of procedure

Competitive procedure with negotiation

IV.1.3. Information about a framework agreement or a dynamic purchasing system

IV.1.5. Information about negotiation

The contracting authority reserves the right to award the contract on the basis of the initial tenders without conducting negotiations

IV.1.8. Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: yes

IV.2. Administrative information

IV.2.2. Time limit for receipt of tenders or requests to participate

Date: 31/07/2020 Local time: 11:00

IV.2.3. Estimated date of dispatch of invitations to tender or to participate to selected candidates

Date: 21/08/2020

IV.2.4. Languages in which tenders or requests to participate may be submitted

English

IV.2.6. Minimum time frame during which the tenderer must maintain the tender

Tender must be valid until: 30/11/2020

Section VI: Complementary information

VI.1. Information about recurrence

This is a recurrent procurement: no

VI.2. Information about electronic workflows

Electronic ordering will be used

Electronic invoicing will be accepted

Electronic payment will be used

VI.3. Additional information**VI.4. Procedures for review****VI.4.1. Review body**

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VI.5. Date of dispatch of this notice

17/06/2020