

Switzerland-Geneva: Research and development services and related consultancy services

OJ S 107/2016 04/06/2016

Contract notice

Services

Directive 2004/18/EC

Section I: Contracting authority

I.1. Name and addresses

Official name: European Organization for Nuclear Research (CERN)

Postal address: Genève 23

Town: Geneva

Postal code: 1211

Country: Switzerland

Contact person: CERN

For the attention of: Chrisophe Veys

E-mail: HL-Quaco-procurement@cern.ch**Internet address(es):**General address of the contracting authority: <http://www.cern.ch/>Electronic submission of tenders and requests to participate: <https://quaco.web.cern.ch/>**Additional information can be obtained from:**

the abovementioned address

Specifications and additional documents (including documents for competitive dialogue and a dynamic purchasing system) can be obtained from:

the abovementioned address

Tenders or requests to participate must be submitted: the abovementioned address**I.2. Type of the contracting authority**

Body governed by public law

I.3. Main activity

Other: European Organization for Nuclear Research (CERN)

I.4. Contract award on behalf of other contracting authorities

The contracting authority is purchasing on behalf of other contracting authorities: yes

Official name: Narodowe Centrum Badań Jądrowych (NCBJ)

Postal address: ul. Andrzeja Sołtana 7, Świerk

Town: Otwock

Postal code: 05-400

Country: Poland

Official name: Le commissariat à l'énergie atomique et aux énergies alternatives (CEA)

Postal address: Centre d'études nucléaire de Saclay

Town: Saclay

Postal code: 91400

Country: France

Official name: Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT)

Postal address: Avenida Complutense, 40

Town: Madrid
Postal code: 28040
Country: Spain

Section II: Object of the contract

II.1. Description

II.1.1. Title attributed to the contract by the contracting authority

Quadrupole Corrector First-of-a-kind for HL-LHC (QUACO Pre-commercial Procurement).

II.1.2. Type of contract and place of performance or delivery

Services

Service category No 8: Research and development services

Main site or place of performance: R&D-services will be executed at the Tenderers premises and delivered to the CERN site.

NUTS code

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

The procurement involves the establishment of a framework agreement

II.1.4. Information about framework agreement

Framework agreement with several operators

Number Envisaged maximum number of participants to the framework agreement: 4

Duration of the framework agreement

Duration in months: 39

Estimated total value of purchases for the entire duration of the framework agreement

Estimated value excluding VAT: 4 656 000 EUR

II.1.5. Short description of the contract or purchase(s)

To extend its discovery potential, the Large Hadron Collider (LHC) will need a major upgrade in the 2020s to increase its luminosity. The integrated luminosity goal is a 10-fold increase of the nominal design value. As a highly complex and optimized machine, such an upgrade must be carefully studied. The necessary developments will require many years of prototyping, testing and implementing.

The new configuration of the machine, HL LHC, among other things, will be based on a new generation of magnets in the two high-luminosity interaction regions, aiming to provide a stronger beam focusing. All of these magnets constitute a significant technical challenge at the edge and beyond the actual state-of-the-art technology. The technical challenges range from materials (i.e. NbTi and Nb₃Sn superconductor cables with unprecedented current carrying density), process (i.e. 3D printing to precision manufacture magnet subcomponents), design techniques (i.e. extensive use of prototype and testing to retro-fit the design production). This Pre-Commercial procurement focuses on the realization of R&D services to develop MQYY superconducting quadrupole magnets that will be used in the Q4 Cryoassembly on the HL-LHC project. The MQYY will be part of the Insertion Region (IR) magnets delivering the beams to the CMS and ATLAS experiments.

II.1.6. CPV code(s)

73000000 Research and development services and related consultancy services, 73300000 Design and execution of research and development, 31630000 Magnets

II.1.7. Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: no

II.1.8. Lots

This contract is divided into lots: no

II.1.9. Information about variants

Variants will be accepted: no

II.2. Scope of the procurement

II.2.1. Total quantity or scope

This Pre-commercial procurement for the development of superconducting quadrupole magnets will be deployed in 3 phases:

— Phase 1 — Solution Design with a budget of 399 000 EUR;

— Phase 2 — Engineering Detailed Design with a budget of 1 800 000 EUR;

— Phase 3 — First-of-a-kind Manufacturing and testing with a budget of 2 457 000 EUR.

Estimated value excluding VAT: 4 656 000 EUR

II.2.2. Information about options

Options: no

II.2.3. Information about renewals

This contract is subject to renewal: no

II.3. Duration of the contract or time limit for completion

Duration in months: 39 (from the award of the contract)

Section III: Legal, economic, financial and technical information

III.1. Conditions related to the contract

III.1.1. Deposits and guarantees required

Provided that CERN makes advance payments to the Contractor under Phase 3, the payment of any invoice by CERN under Phase 3 shall be subject to the provision by the Contractor of a bank guarantee for the performance of his obligations under Phase 3. The bank guarantee, in favour of CERN, shall be issued by a bank approved by CERN, for an amount corresponding to 10 % of the amount stipulated in the Work Order for Phase 3.

III.1.2. Main financing conditions and payment arrangements and/or reference to the relevant provisions governing them

See Request for Tenders.

III.1.3. Legal form to be taken by the group of economic operators to whom the contract is to be awarded

No particular legal form required.

III.1.4. Contract performance conditions

The performance of the contract is subject to particular conditions: yes

Description of particular conditions: The PCP is carried out under the explicit exemption for R&D services set out in art.16(f) of Directive 2004/18/EC of the European Parliament and of the Council and art.14 of Directive 2014/24/EC of the European Parliament and of the Council. Tenderers are asked to observe that the main object of the tender has to cover R&D services and not products or supplies, or commercial development activities.

III.2. Conditions for participation

III.2.1. Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers

List and brief description of conditions: See section 3.3 Selection Criteria of the Request for Tenders.

III.2.2. Economic and financial ability

List and brief description of conditions: See section 3.3 Selection Criteria of the Request for Tenders.

Minimum level(s) of standards possibly required: See section 3.3 Selection Criteria of the Request for Tenders.

III.2.3. Technical and professional ability

List and brief description of conditions:

See section 3.3 Selection Criteria of the Request for Tenders.

Minimum level(s) of standards possibly required:

See section 3.3 Selection Criteria of the Request for Tenders.

III.2.4. Information about reserved contracts

III.3. Conditions specific to services contracts

III.3.1. Information about a particular profession

Execution of the service is reserved to a particular profession: no

III.3.2. 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: yes

Section IV: Procedure

IV.1. Type of procedure

IV.1.1. Type of procedure

Open

IV.1.2. Information about the limits on the number of candidates to be invited

IV.1.3. Information about reduction of the number of solutions or tenders during negotiation or dialogue

IV.2. Award criteria

IV.2.1. Award criteria

The most economically advantageous tender in terms of Price is not the only award criterion and all criteria are stated only in the procurement documents

IV.2.2. Information about electronic auction

An electronic auction will be used: no

IV.3. Administrative information

IV.3.1. File reference number attributed by the contracting authority

IT-4191/TE/HL-LHC

IV.3.2. Previous publication concerning this procedure

Prior information notice

Notice number in the OJ S: [2016/S 012-017759](#) of 19.1.2016

IV.3.3. Conditions for obtaining specifications and additional documents or descriptive document

Time limit for receipt of requests for documents or for accessing documents: 29.6.2016 - 12:00

Payable documents: no

IV.3.4. Time limit for receipt of tenders or requests to participate

18.8.2016 - 12:00

IV.3.5. Estimated date of dispatch of invitations to tender or to participate to selected candidates

IV.3.6. Languages in which tenders or requests to participate may be submitted

English.

IV.3.7. Minimum time frame during which the tenderer must maintain the tender

Duration in days: 180 (from the date stated for receipt of tender)

IV.3.8. Conditions for opening of tenders

Date: 22.8.2016 - 14:00

Persons authorised to be present at the opening of tenders: no

Section VI: Complementary information

VI.1. Information about recurrence

This is a recurrent procurement: no

VI.2. Information about European Union funds

The procurement is related to a project and/or programme financed by European Union funds:
yes

Identification of the project: Funded by the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No 689359.

VI.3. Additional information

An information session will be organised at CERN on the 7.7.2016 (additional information on the website).

Questions or requests for clarification concerning the Tender Documents must be asked in English before the 30.6.2016. All questions received will be dealt with and answered during the information session. After the information session, no additional questions will be allowed nor answered for Phase 1.

VI.4. Procedures for review

VI.4.1. Review body

Official name: The Arbitration Tribunal of Geneva

Country: Switzerland

VI.4.2. Review procedure

VI.4.3. Service from which information about the review procedure may be obtained

VI.5.

Date of dispatch of this notice

31.5.2016