

**Germany-Hamburg: Power supply transformers**

OJ S 167/2014 02/09/2014

Contract notice

Supplies

Directive 2004/18/EC

**Section I: Contracting authority**

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**I.1. Name and addresses**

Official name: Deutsche Elektronen-Synchrotron DESY

Postal address: Notkestraße 85

Town: Hamburg

Postal code: 22607

Country: Germany

For the attention of: Frau Roy

E-mail: [warenwirtschaft.v4sk@desy.de](mailto:warenwirtschaft.v4sk@desy.de)

Telephone: +49 4089982480

Fax: +49 4089984009

**Internet address(es):**General address of the contracting authority: [www.desy.de](http://www.desy.de)**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**

Other: Foundation under German Civil Law

**I.3. Main activity**

Other: Research

**I.4. Contract award on behalf of other contracting authorities****Section II: Object of the contract**

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**II.1. Description****II.1.1. Title attributed to the contract by the contracting authority**

EO019-14 XFEL: Manufacture and supply of 16 units High Power Switched Mode Power Supplies for the European XFEL.

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

Supplies

Main site or place of performance: DESY, Notkestrasse 85, 22607 Hamburg, Germany.

NUTS code DE600 Hamburg

**II.1.3. Information about a framework agreement or a dynamic purchasing system****II.1.4. Information about framework agreement**

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

The power supply shall be a unipolar switched mode power supply, e.g. buck converter. As magnet power supplies the power supply will mainly be operated in constant DC mode at different current levels.

The primary DC voltage is generated by a central diode rectifier which is not part of this tender. Several power parts will be connected to this diode rectifier. The power connection to this rectifier is done via bus bars and cabling. There will be external fuses for the short circuit protection between the diode rectifier and the power part. These fuses will be in the rack that will contain the power parts.

The output will be connected directly to the magnet (resistive-inductive load).

The power supplies shall be water cooled without fans.

DESY will provide a digital regulation with the precision regulation and control of the power part. Into the power part an interface card will be inserted which is connected to the digital regulation via light link. To provide a connection between the removable interface card and the power part, a so called adapter card will be mounted into the power part.

It is assumed to have a buck converter. However if different topologies are proposed, these are welcome as well.

The given input voltages are the max. nominal voltages by the rectifier. It shall be possible that the power supplies will be connected to lower input voltages.

The power part shall consist of a 19"-housing, steel metal sheet.

Input capacitors.

Semiconductors including drivers.

LC- output filter.

EMC-filters for the input/output and auxiliary voltage.

Housing for the DESY- interface and adapter card.

Measurement devices.

Display.

The precision measurement of the magnet current is done via an external DCCT which is not part of delivery. The overall accuracy of the power supply will be done by an extra current regulation provided by DESY.

### **II.1.6. CPV code(s)**

31174000 Power supply transformers

### **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: yes

## **II.2. Scope of the procurement**

### **II.2.1. Total quantity or scope**

Pos. 1: 7 units Type 1 Nominal output current: 0 - 600 A.

Nominal output voltage: 300 V.

Pos. 2: 3 units Type 2 Nominal output current: 0 - 600 A.

Nominal output voltage: 400 V.

Pos. 3: 3 units Type 3 Nominal output current: 0 - 200 A.

Nominal output voltage: 400 V.

Pos. 4: 3 units Type 4 Nominal output current: 0 - 800 A.  
Nominal output voltage: 200 V.

## **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**

Start 1.4.2015. Completion 22.12.2015

## **Section III: Legal, economic, financial and technical information**

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### **III.1. Conditions related to the contract**

#### **III.1.1. Deposits and guarantees required**

Please refer to the commercial part of the tender documents.

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

Please refer to the commercial part of the tender documents.

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

Please refer to the commercial part of the tender documents.

#### **III.1.4. Contract performance conditions**

The performance of the contract is subject to particular conditions: no

### **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: A recent excerpt from the commercial register extract. Bidders who do not have your seat in the Federal Republic of Germany have to submit relevant certificates.

- Self-declaration that the bidder has properly fulfilled its obligations to pay taxes and fees.
- Self-declaration that the tenderer has his contributions to the statutory social duly fulfilled.
- Self-declaration that the requirements of § 6EG VOL / A (conviction under § § 129, 129a, 129b, § 261 StGB; § 263 StGB; § 264 StGB; § 334 St GB; Article 2 § § 1 or 2 IntBestG and § 370 AO) are not met/existing.

#### **III.2.2. Economic and financial ability**

List and brief description of conditions: — Self-declarations stating that no liquidation has been initiated or is pending against the tenderer.

- Self-declaration stating that no disclosure of insolvency or similar legal proceedings have been initiated or are pending against the tenderer.
- Self-declarations of overall turnover for the last 3 completed financial years of the company.

#### **III.2.3. Technical and professional ability**

List and brief description of conditions:

- Presentation of three references for the design of similar services with details of the address, contact person and their phone number of the last 5 years.

- Detailed production and delivery plan
- Detailed illustration of the technical data:
  - Brief description.
  - Circuit diagram.
  - Design calculation of main components.
  - List of main components such as semiconductors, chokes.
  - Calculated efficiency at different output levels.
  - Power dissipation into water/air.
  - Current load of capacitors.
  - Life time calculation.
  - First design mechanical drawing.
  - Size.
  - App. Weight.

#### **III.2.4. Information about reserved contracts**

#### **III.3. Conditions specific to services contracts**

##### **III.3.1. Information about a particular profession**

##### **III.3.2. Information about staff responsible for the performance of the contract**

### **Section IV: Procedure**

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#### **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 Criteria below

1. Price. Weighting 80
2. Delivery time/delivery schedule. Weighting 20

##### **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**

EO019-14 XFEL

##### **IV.3.2. Previous publication concerning this procedure**

no

##### **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: 9.10.2014

Payable documents: no

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

21.10.2014

**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**

German. English.

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

until: 22.12.2014

**IV.3.8. Conditions for opening of tenders**

Date: 21.10.2014

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

**Section VI: Complementary information**

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**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:  
no

**VI.3. Additional information**

**VI.4. Procedures for review**

**VI.4.1. Review body**

Official name: Vergabekammer des Bundes beim Bundeskartellamt

Postal address: Villemombler Str. 76

Town: Bonn

Postal code: 53123

Country: Germany

**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**

1.9.2014