



EUROPEAN COMMISSION  
DIRECTORATE-GENERAL  
JOINT RESEARCH CENTRE  
Directorate G – JRC-Karlsruhe

## **European Commission – JRC-Karlsruhe**

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### **CALL FOR TENDERS Open Procedure JRC/KRU/2017/G.1/0048/OC**

**Supply of gloves for glove boxes**

**Tender specifications:  
Annex A: Technical Specifications**

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## 1. INTRODUCTION

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### 1.1. Task of the JRC Karlsruhe

The JRC Karlsruhe formerly - Institute for Transuranium Elements (ITU) is a research institute of the Joint Research Centre (JRC) of the European Commission, situated on the Campus Nord of the Karlsruhe Institute for Technology (KIT).

The mission of JRC Karlsruhe is to provide the scientific foundation for the protection of the European citizen against risks associated with the handling and storage of highly radioactive material. JRC Karlsruhe prime objectives are to serve as a reference centre for basic actinide research, to contribute to an effective safety and safeguards system for the nuclear fuel cycle, and to study technological and medical applications of radionuclides/actinides.

The JRC Karlsruhe provides scientific support for European policies in the field of nuclear safety and safeguards. It works very closely with national and international bodies in the nuclear field, both within the EU and beyond, as well as with the nuclear industry. In addition to playing a key role in EU policy on nuclear waste management and the safety of nuclear installations, JRC Karlsruhe is also heavily involved in efforts to combat weapons proliferation and illegal trafficking of nuclear materials, and in developing and operating advanced detection tools.

More information at <https://ec.europa.eu/jrc/en>

### 1.2. Scope of the tender

The tender relates to the supply of gloves for glove boxes meant for different task executions:

- Anatomical ambidextrous Size. 8½, (ITU store number 15101)
- Anatomical Right / Left Size 9¾, (ITU store number 15102)
- Anatomical ambidextrous Size 9¾, (ITU store number 15103)

JRC Karlsruhe shall each year order an indicative quantity as set out under point 5, quantity set on basis of the average quantity ordered over the last years.

### 1.3. Processing of the tender, price fixing

The tender is free of charge to the customer.

The contractor has to inform itself about the manner and the extend of the deliveries and efforts as well as the legal conditions before handing in the tender.

The objection of a mistake is excluded.

The amounts given in the specification are estimated. In the frame of the grand total, individual positions can be increased or decreased or completely removed.

A reduction of the scope of work compared to the one in the specification does not qualify the contractor neither to change the prizes nor to additional claims.

The executing contractor has to give as part of its tender the names of subcontractors, as far as these are necessary for the work of the specified task.

The contractor has to keep exactly to all points of the specification. Is it of the opinion that divergences are necessary to obtain the correct function then it has to explicitly inform the customer in writing and it has to hand in an alternative offer.

In any case the specification has to be filled in properly.

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Would the contractor like to use other materials or products as the ones proposed in the specification then it has to apply for this in good time and it has to verify the equivalency through an independent acknowledged institution when asked. The final decision about the equivalency is taken by the customer.

Specifications, which have been changed or are incomplete, will be eliminated. Up to the end of the award procedure the contractor is bound by its offer.

The binding time for the procedure is **6 months**.

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## **2. CONTRACT SPECIFICATIONS**

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### **2.1. Applicable rules and directives**

The supply related to the call for tender is going to be implemented in accordance with:

- The framework contract provided in the tender documentation
- The technical specification as described in the tender documentation and the quality requirements

### **2.2. Duration of the contract**

The contract will have duration of 12 months. This contract might be extended up to a maximum of 3 times by 12 months, therefore up to a maximum of 48 months.

### **2.3. Deliveries**

The supplies shall be delivered under Incoterms DDP<sup>1</sup>. The supplier shall be responsible for the packaging, shipping and necessary transport insurances in order to deliver the equipment to the JRC Karlsruhe, to the following address:

European Commission – JRC Karlsruhe  
Hermann-von-Helmholtz-Platz 1  
76344 Eggenstein-Leopoldshafen (Germany)

FAO: Mr M. Gammelín

### **2.4. Acceptance**

The purchaser will conduct a technical acceptance of the products at the contractor's premises.

The technical acceptance of the goods for the main store takes place as a matter of principle after the submission of the delivery note. Each delivery has to have a delivery note enclosed.

### **2.5. Terms of payment**

Terms of payment are specified in the contract.

The payment of the delivered gloves takes place upon receipt of an invoice. Payment delay and adjustment of prices are regulated in the contract.

### **2.6. Warranty**

The JRC Karlsruhe has the possibility to return all gloves delivered with serious quality defects and to demand a new delivery of the same type and quantity. Should these also be of defective quality, the JRC Karlsruhe has the right to withdraw from the contract immediately, without recourse claims on the part of the contractor.

The contractor is fully responsible for the work of his employees or his subcontractors (for example forwarding of the delivery).

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<sup>1</sup> Incoterms 2010 of the International Chamber of Commerce: DDP = Delivered Duty Paid = The Contractor has to bear all costs and risks involved in delivering goods to destination.

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### **3. GENERAL REQUIREMENT FOR WORKING AT THE JRC KARLSRUHE**

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#### **3.1. General technical conditions**

##### Basic requirements

The group "New buildings, warehouses and logistics" is responsible within the institute for the delivery of gloves to the material warehouse.

##### Access to JRC Karlsruhe

The object is located on the campus north of the Karlsruhe Institute of Technology (KIT). The regulations of the KIT valid at the beginning of the work are compulsory. The contractor shall inquire about the rules, in particular the import and export conditions of the KIT, prior to submitting an offer or before starting the work.

Access to JRC Karlsruhe requires the submission of a valid ID or passport. Access to the JRC Karlsruhe may result in waiting times due to the safety regulations, which are not covered separately.

##### Delivery times

The delivery times of the goods delivery building are from 08:00 to 11:30 and from 13:00 to 16:00. Fridays only until 3 pm.

#### **3.2. Directives and norms to be followed**

Technical norms are generally referred to in the following points of the technical specification (DIN norms etc.). Equivalent norms (EN, CE and ISO etc.) are also accepted. The bidder is responsible for proving that they are equivalent.

The bidder is requested to provide details of the manufacturer, type and technical properties of the brands on offer, where applicable, to give information on the quality of products. If the bidder doesn't offer no brand name in his offer, then the brand name given by the Commission applies.

The minimum technical requirements are to be fulfilled by the contractor, otherwise the quotation is declared to be invalid. The data to be completed by the bidder serve the purpose of assessing the quotation.

All details provided by the contractor in addition to the minimum requirements only provide information and are not taken into account in assessment of the quotations.

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## 4. TECHNICAL SPECIFICATION

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### 4.1. Style of glove

The gloves have to be delivered in two different styles:

- a) Five finger glove, anatomical right / left
- b) Five finger glove, anatomical ambidextrous

The overall length of each glove has to be  $815 \text{ mm} \pm 15 \text{ mm}$  and the attachment diameter has to be  $178 \text{ mm} \pm 2 \text{ mm}$ . The overlap connection at the end of the shaft must have a diameter of  $5 \text{ mm} \pm 1 \text{ mm}$ .

The finger size according to EN 420: 1994 must be  $9\frac{3}{4} \equiv 9Q$  respectively  $8\frac{1}{2} \equiv 8Q$ .

### 4.2. Material

The material of the gloves has to be CSM (chlorsulfonated polyethylene) according to the manufacturer. The quality of the material has to be strictly met. The contractor himself has to ensure on a regular basis, that the same material is always being used. The JRC Karlsruhe is entitled to be affirmed from time to time, which material in which production series was used.

### 4.3. Dimensional accuracy

The required thickness of the material has to be 0.38 mm. The deviation in all areas of the glove (at the fingers, at the hand, between the fingers and at the upper arm) is allowed to be a maximum of  $+ 0.25 \text{ mm}$  respectively  $- 0.08 \text{ mm}$ .

All measurements and tolerances can be extracted from the drawing D-142, 3-833 and have to be adhered to accurately. The purchaser has to be informed in writing about possible deviations in the production of a series.

### 4.4. Chemical consistency

The purchaser has to be informed in writing about possible deviations from the chemical base material.

### 4.5. Visual inspection

All gloves have to be visually inspected at the contractor's premises. Gloves with open blisters are not allowed to be used. Furthermore the gloves are not allowed to have neither punctures on the surface, nor stains or other strange non CSM containing materials.

During spot checks the material thickness has to be tested and recorded in a protocol. The customer is entitled to inspect these protocols on request.

### 4.6. Material consistency

At the contractor's premises all gloves have to undergo the successively specified test for material consistency. This test has to take place at room temperature.

For this test, it is necessary that every glove is filled with tap water up to approx. 5 cm under the overlap. The glove should then be tested with 5 kV DC potential difference. The test has to be started with a small voltage which has to be increased by 500V per second until the 5 kV DC has been reached. This voltage has to be kept for a minimum of 15 seconds, without a voltage flashover occurring.

A glove shall be deemed to be in working condition by the contractor, if it has passed the two tests under 4.5 and 4.6.

The contractor confirms with his offer, that he can conduct the test described above and that he performs it as a matter of routine with every glove. The customer is entitled, to have this test demonstrated on demand. Should the contractor not conduct or not be able to conduct this test, then the offer will be excluded from the competition.

#### **4.7. Pressure test**

As these gloves are extreme safety relevant parts for glove boxes, all gloves will undergo a secondary test (a pressure test) at the JRC Karlsruhe.

This test should confirm the tightness of the gloves through a different test method than the one described under point 4.6. This test also takes place at room temperature.

Should this test show that one or more gloves should not be tight when tested repeatedly, the customer is authorised to send one or more gloves back to the contractor at its own expense and ask for one or more new gloves at no charge to the customer. For the implementation of the works described above the customer supplies all tools, machinery, wrought materials and standard parts.

#### **4.8. Quality assurance**

As the gloves come into contact with radioactive materials, the gloves have to be manufactured according to the highest safety requirements (it calls for the contractor to be certified according to ISO 9001 or comparable).

#### **4.9. Identification**

On every glove as a minimum the following identification has to be stated:

1. the name of the manufacturer
2. the size of the glove
3. the type of glove (denomination)
4. the week of manufacturing
5. the year of manufacturing

#### **4.10. Storage, time limit of storage**

The contractor has to give binding information with the handover of the tender in respect of the type of storage as well as the time limit of storage.

#### **4.11. Certificate**

For every delivery a certificate of conformity has to be enclosed. This certificate has to be attached to the delivery note.

#### **4.12. Packing and Transport**

In each case two pairs of gloves have to be packed singularly in wrapping tissue and have to be dispatched in a suitable and solid cardboard box.

Furthermore every glove has to be furnished with a 5mm thick support carton.

A maximum of 15 cartons may be stacked on top of each other during transport.