

RFQ- 625164-YG – Redundancy of the Gas System	 IAEA International Atomic Energy Agency	Statement of Work dated 2023-05-22 by the Seibersdorf Laboratories Service Section (SLSS)
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Statement of Work

*Redundancy of the Gas System supplying the
Energy Centre at the IAEA Laboratories Seibersdorf*

RFQ-NUMBER-YG – Redundancy of the Gas System supplying the Energy Centre	 IAEA International Atomic Energy Agency	Statement of Work dated 2023-05-22 by the Seibersdorf Laboratories Service Section (SLSS)
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Contents

Acronyms.....	3
1. Scope	4
2. Contractor's Requirements	4
2.1. Administrative Requirements	4
2.2. Technical Requirements	5
3. Applicable Documents	7
4. IAEA Responsibilities.....	7
5. Method and Source of Acceptance.....	7
6. Deliverable Items	8
7. Marking.....	8
8. Warranty	8

Acronyms

The following acronyms shall apply throughout the Statement of Work (SoW) unless defined otherwise hereinafter:

CE	Common Era
IAEA	International Atomic Energy Agency
POC	Point of Contact
PPE	Personal Protective Equipment
SoW	Statement of Work
SPOC	Single Point of Contact

RFQ-NUMBER-YG – Redundancy of the Gas System supplying the Energy Centre	 IAEA International Atomic Energy Agency	Statement of Work dated 2023-05-22 by the Seibersdorf Laboratories Service Section (SLSS)
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1. Scope

This SoW describes the requirements for redundancy of the Gas System (hereinafter referred to as the “System”) supplying the Energy Centre located in the Laboratories at Seibersdorf (Friedensstrasse 1, 2444 Seibersdorf, Austria) of the International Atomic Energy Agency (IAEA).

The new main gas supply line and its control station of the Energy Centre installed in 2017 have a few single points of failure that can lead to a System-wide propagating heating failure. To increase the fault tolerance of the System, the IAEA requires a Contractor to duplicate critical hardware components (hereinafter referred to as the “Goods” unless otherwise specified) and enable functions, precisely as it is done in modern industrial systems, by implementing a redundancy – “bypass” (hereinafter referred to as the “Services”).



Figure No. 1 Existing state of the gas supply system at Seibersdorf.

2. Contractor’s Requirements

2.1. Administrative Requirements

- 2.1.1. The Contractor shall ensure that all Services are provided in compliance with all appropriate safety measures, and provide and ensure the use of all required Personal Protective Equipment (PPE) needed to carry out the specified and standardized services by Contractor’s authorized personnel only;

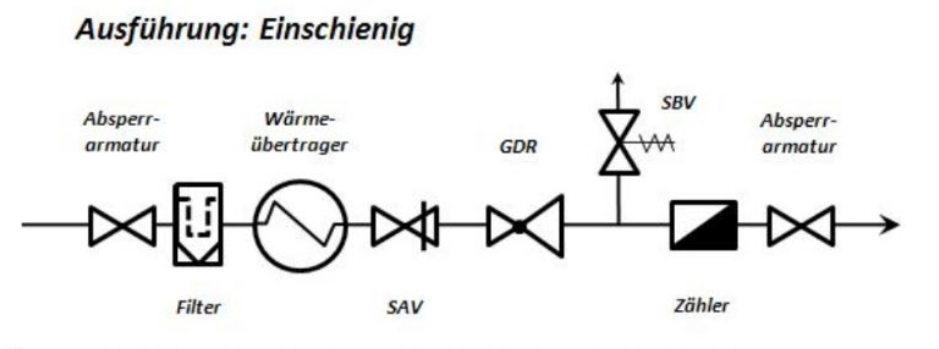
RFQ-NUMBER-YG – Redundancy of the Gas System supplying the Energy Centre	 IAEA International Atomic Energy Agency	Statement of Work dated 2023-05-22 by the Seibersdorf Laboratories Service Section (SLSS)
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- 2.1.2. The Contractor shall be a certified service company in gas installation, and maintain certification through delivery of all Goods and Services as stipulated in this SoW;
- 2.1.3. The Contractor shall ensure that required permit(s) and approval(s) by the Austrian authorities and/or external counterpart(s) are obtained before providing the Services;
- 2.1.4. The Contractor shall implement all recommendations listed in **Annex 1 – IAEA Specific Preliminary Notes**;
- 2.1.5. The Contractor shall nominate and provide contact details of a Single Point of Contact (SPOC), whose availability shall be ensured throughout the Service activities of the Contractor or appointed subcontractors;
- 2.1.6. The SPOC shall coordinate all activities as stipulated in this SoW with the IAEA Point of Contact (IAEA POC); and
- 2.1.7. The Contractor shall ensure that all Services are provided following the latest applicable standards.

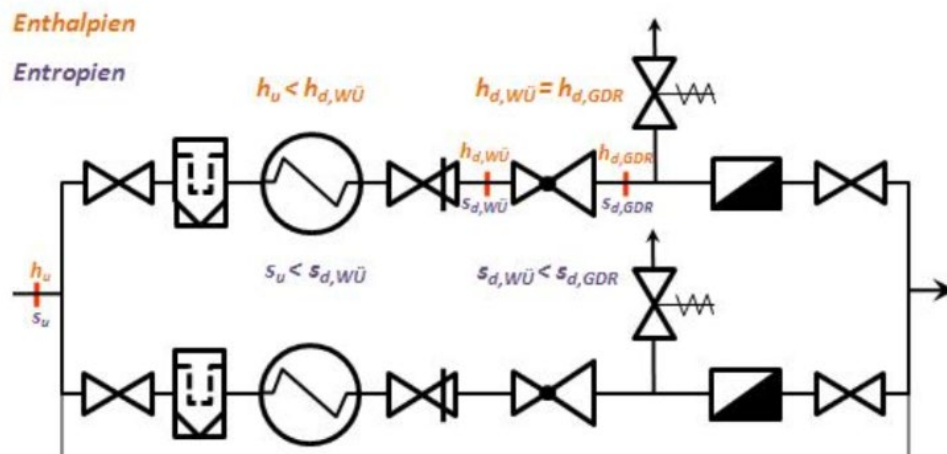
2.2. Technical Requirements

- 2.2.1. The Contractor shall provide a redundancy – "bypass" to increase the fault tolerance of the existing System by duplicating critical hardware components and functions as per below:

i) The existing state of the System:



ii) Required state of the System following the implementation of Goods and Services:



- 2.2.2. The Contractor shall provide a technical solution minimizing the downtime of the gas supply during the modification to a maximum of 24 hours;
- 2.2.3. The Contractor shall put in place all necessary protective measures ensuring no damage to exposed and buried pipelines during modification;
- 2.2.4. The Contractor shall install beside the existing TREPKA container of size six (6) a larger similar container to host a bypass with all its accessories;
- 2.2.5. The Contractor shall perform all necessary soil works;
- 2.2.6. The Contractor shall perform all necessary civil engineering works;
- 2.2.7. The Contractor shall remove and discard after completion the existing TREPKA container size six (6) and its foundation;
- 2.2.8. The Contractor shall solve the issue mentioned in **Annex 3 – Maintenance Protocol by GEVA Austria GmbH** (*"Functional test not possible as no connection available"*) by including a connection for the functional test done during periodic service/maintenance; and
- 2.2.9. The Contractor shall ensure full commissioning, including bypass functionality as stipulated in **Section No. 5 – Method and Source of Acceptance**.

RFQ-NUMBER-YG – Redundancy of the Gas System supplying the Energy Centre	 IAEA International Atomic Energy Agency	Statement of Work dated 2023-05-22 by the Seibersdorf Laboratories Service Section (SLSS)
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3. Applicable Documents

- 3.1. Annex 1 – IAEA Specific Preliminary Notes;
- 3.2. Annex 2 – Integral Montage Drawing dated 14.02.2016; and
- 3.3. Annex 3 – Maintenance Protocol by GEVA Austria GmbH dated 03.02.2023;

4. IAEA Responsibilities

- 4.1. The IAEA will appoint the IAEA POC and notify the Contractor accordingly;
- 4.2. The IAEA will provide on-site activities to address the general requirements in the area of hygiene, security and safety;
- 4.3. The IAEA will coordinate and implement any security control during on-site activities; and
- 4.4. The IAEA will provide the first emergency help in case of an accident.

5. Method and Source of Acceptance

- 5.1. The Contractor shall, before any installation, modification, and/or construction, provide to the IAEA POC detailed drawings for approval;
- 5.2. The Contractor shall, after completion, test together with the IAEA POC the Goods (e.g., equipment, hardware, etc.) and overall System performance to demonstrate and prove that the provided technical solution is functioning to the satisfaction of the IAEA;
- 5.3. The Contractor shall participate in a formal hand-over process conducted at a stage agreed upon by the IAEA POC to demonstrate that the contracted Goods and Services were implemented correctly; and
- 5.4. The Contractor shall document the installation, modification, construction, and/or commissioning tests in an Acceptance Protocol to be reviewed and signed by the IAEA POC.

RFQ-NUMBER-YG – Redundancy of the Gas System supplying the Energy Centre	 IAEA International Atomic Energy Agency	Statement of Work dated 2023-05-22 by the Seibersdorf Laboratories Service Section (SLSS)
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6. Deliverable Items

- 6.1. The Contractor shall provide a detailed implementation plan, mentioning all project phases, including the time frame for each step.
- 6.2. The Contractor's SPOC shall provide to the IAEA POC the following data items following the contract signature and before initiating Services:
 - 6.2.1. A detailed schedule of the installation and safety inspection, with associated impacts on the Seibersdorf Laboratories activities; and
 - 6.2.2. Detailed commissioning procedure.
- 6.3. The Contractor's SPOC shall provide to the IAEA POC the following data items within 28 working days following the competition of the Services:
 - 6.3.1. Update existing drawings; and
 - 6.3.2. Provide a test book reflecting the initial and updated installation.

7. Marking

- 7.1. The Goods shall display all relevant to Common Era (CE) compliance markings; and
- 7.2. An inspection sticker ("*pruefplakette*") shall be applied.

8. Warranty

- 8.1. The Contractor shall provide a minimum of 12 months warranty for all Goods delivered.
- 8.2. The Contractor shall provide a minimum of 24 months warranty for all Services and works.
- 8.3. The Contractor shall participate in a final formal review of the implemented Goods and Services and works three (3) months before the end of the warranty period.

RFQ-NUMBER-YG – Redundancy of the Gas System supplying the Energy Centre	 IAEA International Atomic Energy Agency	Statement of Work dated 2023-05-22 by the Seibersdorf Laboratories Service Section (SLSS)
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- 8.4. The warranty periods shall start on the date of issuance of the Acceptance Protocol of each task order.