

534495-2026 - Competition

Netherlands – Laboratory, optical and precision equipments (excl. glasses) – Cryogen free dilution refrigerator

OJ S 147/2026 03/08/2026

Contract or concession notice – standard regime

Supplies

1. Buyer

1.1. Buyer

Official name: Stichting Nederlandse Wetenschappelijk Onderzoek Instituten (NWO-I)

Email: f.zijlstra@nwo.nl

Legal type of the buyer: Body governed by public law

Activity of the contracting authority: Education

2. Procedure

2.1. Procedure

Title: Cryogen free dilution refrigerator

Description: NWO institute SRON wishes to purchase a cryogen free dilution refrigerator for the study and development of superconducting energy-resolving single-photon detectors (MKIDs). The system will be used in the context of a new project to develop the most sensitive MKIDs for exoplanet spectroscopy at visible to near-infrared wavelengths, and demonstrate them at a scale of ten-thousands of pixels. To that end, optical access to the cryostat from outside is required to characterise the detectors. The aim is to demonstrate the detectors at a scale that requires readout with at least 16 coaxial lines. To keep operational costs low, the system should be cryogen free, i.e. not require liquid Helium for operation. Since the detectors include thin membranes, we have particular requirements on the vibration isolation. The system will be primarily used by PhD students and postdocs, and should offer fully automated cryogenic operation, but at the same time allow full manual control and custom 1 Cryogen free dilution refrigerator

Procedure identifier: 170c63ab-d6c4-47d7-bd1b-c7788d901105

Type of procedure: Open

The procedure is accelerated: no

2.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 38000000 Laboratory, optical and precision equipments (excl. glasses)

2.1.2. Place of performance

Country: Netherlands

Anywhere in the given country

Additional information: Leiden

2.1.3. Value

Estimated value excluding VAT: 375 000,00 EUR

2.1.4. General information

Legal basis:

Directive 2014/24/EU

2.1.6. Grounds for exclusion

Sources of grounds for exclusion: European Single Procurement Document (ESPD)

5. Lot

5.1. Lot: LOT-0000

Title: Cryogen free dilution refrigerator

Description: NWO institute SRON wishes to purchase a cryogen free dilution refrigerator for the study and development of superconducting energy-resolving single-photon detectors (MKIDs). The system will be used in the context of a new project to develop the most sensitive MKIDs for exoplanet spectroscopy at visible to near-infrared wavelengths, and demonstrate them at a scale of ten-thousands of pixels. To that end, optical access to the cryostat from outside is required to characterise the detectors. The aim is to demonstrate the detectors at a scale that requires readout with at least 16 coaxial lines. To keep operational costs low, the system should be cryogen free, i.e. not require liquid Helium for operation. Since the detectors include thin membranes, we have particular requirements on the vibration isolation. The system will be primarily used by PhD students and postdocs, and should offer fully automated cryogenic operation, but at the same time allow full manual control and custom 1 Cryogen free dilution refrigerator

Internal identifier: 1

5.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 38000000 Laboratory, optical and precision equipments (excl. glasses)

Options:

Description of the options: The Contracting Authority has defined several optional requirements, see Annex E Schedule of Requirements. The ability to fulfil optional requirements will be taken into account in the award criteria as specified in Annex D Quality Criteria Form and Annex E Schedule of Requirements. As such the optional requirements are part of the Tender and of the final contract. The Tenderer indicates his ability to fulfil the optional requirement and specifies a price for each option in Annex C Price Sheet. The Contracting Authority reserves the right for each option to choose whether or not to include it in the contract. If the Tenderer cannot deliver one of the options, no price for that option should be specified. The price for the optional requirements will not be part of determining the comparison price for this Tender.

5.1.2. Place of performance

Country: Netherlands

Anywhere in the given country

Additional information: Leiden

5.1.3. Estimated duration

Duration: 9 Months

5.1.5. Value

Estimated value excluding VAT: 375 000,00 EUR

5.1.6. General information

Reserved participation:

Participation is not reserved.

The names and professional qualifications of the staff assigned to perform the contract must be given: Not required

Procurement Project not financed with EU Funds.

The procurement is covered by the Government Procurement Agreement (GPA): yes

5.1.7. Strategic procurement

Aim of strategic procurement: No strategic procurement

5.1.9. Selection criteria

Sources of selection criteria: European Single Procurement Document (ESPD)

5.1.10. Award criteria**Criterion:**

Type: Price

Name: Adapted Value

Description: The contract will be awarded according to the Adapted Value method, which is reflected in the lowest price per quality point. The contract will be awarded to the tenderer with the lowest price per quality point. The price per quality point is calculated by dividing the total tender price ex VAT as specified in Annex C Price Sheet, by the total score on quality.

Category of award weight criterion: Weight (points, exact)

Award criterion number: 100

5.1.11. Procurement documents

Deadline for requesting additional information: 19/08/2026 12:00:00 (UTC+02:00) Eastern European Time, Central European Summer Time

Address of the procurement documents: <https://www.tenderned.nl/aankondigingen/overzicht/435273>

5.1.12. Terms of procurement**Terms of submission:**

Electronic submission: Required

Address for submission: <https://www.tenderned.nl/aankondigingen/overzicht/435273>

Languages in which tenders or requests to participate may be submitted: Dutch

Electronic catalogue: Not allowed

Variants: Not allowed

Deadline for receipt of tenders: 23/09/2026 12:00:00 (UTC+02:00) Eastern European Time, Central European Summer Time

Duration during which the tender must remain valid: 4 Months

Information about public opening:

Opening date: 23/09/2026 12:30:00 (UTC+02:00) Eastern European Time, Central European Summer Time

Terms of contract:

The execution of the contract must be performed within the framework of sheltered employment programmes: No

Electronic invoicing: Required

Electronic ordering will be used: no

Electronic payment will be used: no

5.1.15. Techniques**Framework agreement:**

No framework agreement

Information about the dynamic purchasing system:

No dynamic purchase system

5.1.16. Further information, mediation and review

Review organisation: Stichting Nederlandse Wetenschappelijk Onderzoek Instituten (NWO-I) - Rechtbank Den Haag

Organisation providing additional information about the procurement procedure: Stichting Nederlandse Wetenschappelijk Onderzoek Instituten (NWO-I)

Organisation providing more information on the review procedures: Stichting Nederlandse Wetenschappelijk Onderzoek Instituten (NWO-I)

Organisation receiving requests to participate: Stichting Nederlandse Wetenschappelijk Onderzoek Instituten (NWO-I)

8. Organisations

8.1. ORG-0001

Official name: Stichting Nederlandse Wetenschappelijk Onderzoek Instituten (NWO-I)

Registration number: 111590197

Department: SRON

Postal address: Niels Bohrweg 4

Town: Leiden

Postcode: 2333 CA

Country subdivision (NUTS): Agglomeratie Leiden en Bollenstreek (NL363)

Country: Netherlands

Contact point: Freek Zijlstra

Email: f.zijlstra@nwo.nl

Telephone: +31 306001255

Internet address: <http://www.sron.nl>

Other contact points:

Official name: Rechtbank Den Haag

Town: Den Haag

Postcode: 2595 AJ

Country subdivision (NUTS): Agglomeratie 's-Gravenhage (NL361)

Country: Netherlands

Email: voorlichting.rb.den.haag@rechtspraak.nl

Internet address: <https://www.rechtspraak.nl/Organisatie-en-contact/Organisatie/Rechtbanken/Rechtbank-Den-Haag/Contact#b542d574-4c57-4d59-96de-53a745e131250>

Roles of this organisation:

Buyer

Organisation providing additional information about the procurement procedure

Organisation receiving requests to participate

Review organisation

Organisation providing more information on the review procedures

Notice information

Notice identifier/version: b0666276-10d0-4c6c-89f8-cc3b3f4c79ba - 01

Form type: Competition

Notice type: Contract or concession notice – standard regime

Notice subtype: 16

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