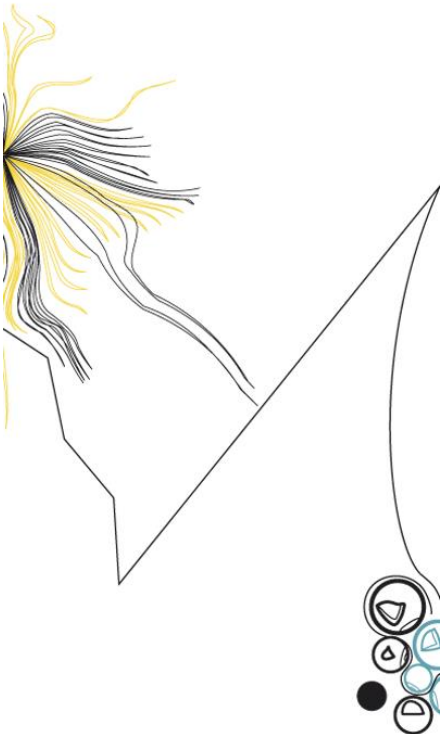


European Market consultation
Inductive Coupled Plasma cluster system

University of Twente



AUT-Kenmerk: CVB-UIT 1613
Datum: 07-12-2015

1. CLIENT: UNIVERSITY OF TWENTE

The greatest challenges that await the world in the coming decades, have a lot of effect on the worldwide university landscape. Today's students are the *global citizens* of tomorrow, professionals that look for solutions to big social problems. The University of Twente is a young and enterprising university that prepares young people for the future. We accomplish this through innovative, attractive and future-focused education and through fulfilling a global function in technological and social research. The University of Twente is the place where talent development is maximized. Students and staff are the focus at the University of Twente. Together, 3,300 researchers and professionals work on pioneering research, relevant innovations and inspiring education for more than 9.000 students.

The education of the University of Twente is provided by the five faculties:

- Behavioural, Management and Social sciences (BMS)
- Engineering Technology (CTW)
- Electrical Engineering, Mathematics and Computer Science (EEMCS/EWI)
- Science and Technology (TNW)
- Geo-Information Science and Earth Observation (ITC)

The service departments below support education and research at the campus.

- Centre for Educational Support (CES)
- Facility Service Centre (FB)
- Financial and Economic Affairs (FEZ)
- General Affairs (AZ)
- Human Resources (HR)
- ICT Service Centre (ICTS)
- Library & Archive (B&A)
- Marketing & Communications (M&C)
- Strategy & Policy (S&B)

We recommend that you visit our website www.utwente.nl to gain a good picture of the scope and complexity of the site and buildings.

MESA+ Institute for Nanotechnology

MESA+ is one of the world's largest nanotechnology research institutes. A total of 525 researchers work together on cutting-edge research at the highest level; including research in the fields of materials science, lab-on-a-chip technology, nanophotonics, nanoelectronics and nanofluidics. The aim for excellence is always the focal point with scientific publications in leading international journals. On average, every single day, one article is published by a MESA+ scientist.

Multidisciplinary collaboration between the various research directions of MESA+ is stimulated by the unique structure of Strategic Research Orientations in which a large number of researchers collaborate in a specific research program. This method of interdisciplinary research leads to ground-breaking results, it reinforces the cohesion between ongoing high-quality research and it provides excellent opportunities for external partners.

MESA+ offers a state-of-the-art NanoLab with a floor area of 1250 square meters. Users are offered a unique laboratory with a wide variety of technologies and equipment to develop an almost unlimited number of applications. Next to scientific researchers is the laboratory space and equipment of the MESA+ NanoLab used for 40% by industrial partners.

2. MARKET CONSULTATION

Procurement department

The provision of professional procurement support for the processes and projects of the University of Twente's faculties, schools and services is the province of the Procurement Department of the University of Twente. The Procurement Department implements project-based procurement processes and (European) tenders, which means it is involved in this process - and in this market consultation - right from the start.

Market consultation explanation

A market consultation is the process of exchanging information with interested parties about a proposed invitation to tender, organized by the contracting authority, based on which the latter can determine the feasibility and the preconditions of the contract to be awarded. A market consultation could also be about obtaining information on - or insight into - possible solutions to a problem. Market parties may also actually be asked for ideas. For the contracting authority, the consultation could also provide insight into how best to design the tender procedure. Market consultation can take one of a variety of forms: closed or open consultation, written or verbal, interactive or non-interactive or a combination of both.

Objective & Scope

This is the market consultation for an ICP (Inductive Coupled Plasma) cluster system with 2 modules; one deep silicon etcher and one metal etcher

Please note that this is a market consultation and not an invitation for a Tender.

The University of Twente wants to start a market research before proceeding to tender.

With this market consultation University Twente wants to find out:

- The number of possible suppliers in the market
- If the possible suppliers can deliver the described equipment, meeting the demanded technical specifications and requirements.
- an indication of the price for the specific ICP cluster system.

Motivation of the Investment

The MESA+ Institute for Nanotechnology will invest in a new ICP cluster system that will add new innovative capabilities to the NanoLab cleanroom.

Within MESA+ institute, the new cluster system will be used in a multi-user environment (researchers, students and industrial partners) for a wide range of applications.

Therefore, robustness, user-friendliness, flexibility and applicability range are important factors besides accurateness and reproducibility of the experimentation results.

Planning

Through the mail (e.verheij@utwente.nl) you can ask questions related to this document.

Questions will be anonymized answered in a public information notice.

Suppliers who want to reply on this consultation, need to send in the completed Declaration of compliance with Schedule of Requirements (Appendix 1) by email before 21 December 2015 14.00 pm.

Nr.	Process step	Deadline
1.	Publication of the public market consultation	7 December 2015
2.	Closing date for submitting questions	14 December 2015 10.00 hours am CET
3.	Final date for responding to questions	16 December 2015
4.	Final date for submitting a response on the Market consultation	21 December 2015 14.00 hours pm CET

Preconditions

The following preconditions apply to this market consultation:

- This document is intended solely for market consultation purposes; the market consultation is not part of a European tender or procurement process;
- The market consultation is not an invitation to submit a tender for a possible European contract nor a request for a quotation. This market consultation is a form of preparation;
- Participation in the market consultation is entirely voluntary and free of obligation and has no consequences whatsoever on participation in a possible European tender or procurement process. This means that market parties who do not participate in the market consultation are not excluded from participating in a possible European tender. Nor will market parties who participate in the market consultation be in any way excluded from - or receive preferential treatment in - any European tender or procurement process;
- The parties have no right to reimbursement of any costs that may be incurred within the framework of this market consultation;
- Claims relating to the use of information, confidentiality, or requests for reimbursement in connection therewith, will not be honored. Documents submitted by participating market parties will be regarded as public documents and thus as free of copyright;
- No rights whatsoever may be derived from information supplied within the context of the market consultation;
- Information supplied during the market consultation may differ from information supplied during a later stage within the context of a possible European tender or procurement process;
- Responses to - and the global results of - the market consultation will be recorded in a market consultation report in a fully anonymized form. The market consultation report will be included in the tender documents for a possible European tender, thereby respecting the fundamental principles of transparency, objectivity and equality;
- The University of Twente retains the right to terminate, either entirely or partially, the process of market consultation;
- The University of Twente retains the right to adjust its plans, as recorded in this document, as it sees fit;
- Communication during this market consultation will be in the English language;
- Questions can be asked only via e-mail;
- By participating in this market consultation, participating market parties indicate their unconditional agreement with the conditions as stipulated in this market consultation document.

APPENDIX 1: STANDARD FORM:

Declaration of compliance with Schedule of Requirements

The Supplier is to declare compliance with the Schedule of Requirements.

Mandatory requirements for the ICP cluster system.

All the following requirements must be fulfilled for both systems in the cluster:

- The supplier must confirm that he can offer one cluster as well as 2 standalone load locked systems to guarantee the processing under vacuum to achieve nano etching.
- Working in a broad temperature range; (-150 °C up to 400 °C)
- Equipped with helical ICP sources and state of the art generators with fast matching networks to ensure stable and accurate plasma's for the etching in the nano-regime
- Control by very fast PLC's (minimum step time 10 msec; 1 msec resolution)
- Installed with the patented Bosch process
- Flexible and fast acting Mass flow controllers
- Sample requirements:
 - Substrate size up to 200 mm in diameter
 - Active spacer with magnetic confinement
 - Notebook or PC for operation and control; windows based PC as user interface
 - Dedicated software for data acquisition, logging and analysis
 - Low Cost of ownership
 - Process support from the supplier
- Suppliers must confirm to list at least 10 references for the Bosch and 10 references for the cryo process.

The Supplier declares that he complies unconditionally with the Schedule of Requirements as set out above.

Yes

The Supplier also gives a quotation for the ICP cluster system delivery duty paid in Euro.

Name of undersigned	
Position	
Bidder	
Signature	
Town/city and date	