



ISTITUTO NAZIONALE DI ASTROFISICA
NATIONAL INSTITUTE FOR ASTROPHYSICS

OSSERVATORIO ASTROFISICO DI CATANIA

EXPLORATIVE PUBLIC NOTICE

FOR MANIFESTATION OF INTEREST TO THE PARTICIPATION TO THE NEGOTIATED PROCEDURE ACCORDING TO ARTICLE 63, SUBSECTION 3, LETTER A) OF THE LEGISLATIVE DECREE NO. 50/2016 AND FOLLOWING MODIFICATIONS AND INTEGRATIONS FOR THE COMMITMENT OF THE SUPPLY OF SCIENTIFIC INSTRUMENTATION AIMED TO THE REALIZATION OF A SYSTEM FOR ANALYSIS OF MATERIALS BY LASER ABLATION, LASER IONIZATION AND TIME OF FLIGHT MASS SPECTROMETRY

1) PURPOSE OF THIS NOTICE

Please note that this explorative notice does not represent an official beginning of a tender procedure. The only aim of this notice is to probe the national and international market in order to verify the presence of potentially interested companies who are able to provide the requested instrumentation and are interested to participate to the tender. In light of the above this notice does not give neither rights of priority, nor promise or obligation of any kind either to the companies or to this Administration who reserves the right to cancel, suspend, and modify partially or totally this procedure.

2) REQUESTED MATERIALS AND INSTRUMENTATION

The requested instrumentation is grouped into three Lots. A schematic description is given below

LOT no. 1

- 1.1) UHV (Ultra High Vacuum) CHAMBER;**
- 1.2) CRYOSTAT;**
- 1.3) SAMPLE-HOLDERS;**
- 1.4) CRYOSTAT TRANSLATIONAL (XYZ) AND ROTATIONAL (THETA) MOVEMENT SYSTEM;**
- 1.5) PUMPING GROUPS;**
- 1.6) SUPERSONIC HELIUM JET PULSED VALVE;**
- 1.7) XYZ POSITIONING DEVICE FOR THE PULSED VALVE.**

LOT no. 2

- 2.1) Pulsed Nd:YAG LASER with optical parametric oscillator (OPO) tunable in the range 2700-3100 nm;**



ISTITUTO NAZIONALE DI ASTROFISICA
NATIONAL INSTITUTE FOR ASTROPHYSICS

OSSERVATORIO ASTROFISICO DI CATANIA

- 2.2) Pulsed Nd:YAG LASER 355 nm;
- 2.3) Optical table adjustable in height (one for each laser);
- 2.4) Mirror holders for laser beam orientation (beam-steering);
- 2.5) Si photodiode calibrated by NIST in the range from 116 to 254 nm.

LOT no. 3

- 3.1) Orthogonal time of flight mass spectrometer with electrostatic mirror (reflectron) which is able to measure the m/Q range from a value lower than or equal to 10 Th to a value greater than or equal to 2800 Th, with resolving power $M/dM = 5000$ and with pulse frequency greater than or equal to 28 kHz.

N.B. A general description of the requested instrumentation is given in Annex A). A detailed and binding description with technical tables, on the basis of which economic operators will submit their offer, will be provided to those who will manifest their interest after invitation following article 63, subsection 3, letter a) of the Legislative Decree no. 50/2016 and its modifications and integrations.

3) DELIVERY TIME AND PLACE

The instrumentation as described in Section 2) must be delivered and installed at the Astrophysical Observatory of Catania, via Santa Sofia 78, 95123 – Catania (ITALY), within six months from contract stipulation.

4) EXPECTED AMOUNT OF THE TENDER

The total amount of the tender is expected to be **845.000,00 €** (without VAT). This amount is divided among the three lots described in Section 2) as follows:

- **Lot no. 1**: 290.000,00 € (without VAT);
- **Lot no. 2**: 240.000,00 € (without VAT);
- **Lot no. 3**: 315.000,00 € (without VAT).

OSSERVATORIO ASTROFISICO DI CATANIA

5) MINIMUM REQUIREMENTS REQUESTED TO BE DECLARED AFTER RECEIVMENT OF THE INVITATION LETTER

a) General requirements:

- a1) Absence of obstacles to the participation to a tender procedure and a contract stipulation as reported in article 80 of the Legislative Decree no. 50/2016 and its modifications and integrations;

b) Requirements of professional eligibility:

b1) For Italian companies

Enrollment to the C.C.I.A.A. (Chamber of Commerce, Industry, Crafts and Agriculture) Register according to article 83, subsection 1, letter a) and subsection 3 of the Legislative Decree no. 50/2016 and its modifications and integrations;

b2) For companies based in UE Member States

Enrollment to a professional or commercial register as requested in their home country according to Annex XI of Instruction 2014/24/UE of European Parliament and Council on 26 February 2014;

b3) For companies based in non-EU Member States

Enrollment to a professional or commercial register in their home country, if existing.

c) Requirements of economical capabilities

- c1) The total annual revenue.

- c2) The revenue of the latest three years in activities which require an expertise equal or similar to the expertise requested in the supply described in this Notice has to be more than twice amount of 240.000,00 € that is the expected cost of Lot no. 2 as reported in section 4).

d) Requirements of technical capabilities

- d1) Appropriate experience in the field related to the instrumentation here requested testified by the number of contracts, the kind of instrumentation dealt with, the customers (public or private) and the total revenue in the latest three years.



OSSERVATORIO ASTROFISICO DI CATANIA

- d2) Adequate number of employees and technical resources in relation to the requested instrumentation.

During the tender the participants will be requested to declare the requirements listed above according to articles 46 and 47 of the Decree of the President of the Republic no. 445/2000 and following modifications and integrations.

6) DETAILED RULES AND TERMS OF PRESENTATION OF THE MANIFESTATION OF INTEREST

Economic operators may submit their manifestation of interest for all three Lots listed in Section 2) above or for two or only one of them, using the form attached to this notice (Annex B).

The manifestation of interest must be signed by the legal representative or a special procurator (in which case the copy of the relevant proxy must be attached) of the economic operator and must be accompanied by a copy of the identity document of the reporting entity. Subscription can take place in autographic or digital format depending on the method chosen for the transmission of the manifestation of interest that is:

- a) The subscription must be autograph, if the manifestation of interest, as well as any attachment, is sent in paper form, by means of a registered letter with acknowledgment of receipt from Italy or by any other means of transmission by letter, which will allow the verification of the delivery, for dispatch from abroad. On the envelope used for the shipment, in addition to the sender's address, telephone and e-mail, the following statement must be reported:

“MANIFESTAZIONE D’INTERESSE PER FORNITURA DI STRUMENTAZIONE SCIENTIFICA”

The aforesaid envelope must be sent to the following address:

***INAF- Osservatorio Astrofisico di Catania
Via Santa Sofia n. 78
95123 – Catania
ITALIA***

- b) The subscription must take place in digital form, if the manifestation of interest, as well as any other attachment, is sent by a pdf file, by means of a certified e-mail to the certified mailbox of the INAF-Astrophysical Observatory of Catania: inafoacatania@pcert.postecert.it. In the subject of the message, the following statement must be reported:



ISTITUTO NAZIONALE DI ASTROFISICA
NATIONAL INSTITUTE FOR ASTROPHYSICS

OSSERVATORIO ASTROFISICO DI CATANIA

“MANIFESTAZIONE D’INTERESSE PER FORNITURA DI STRUMENTAZIONE SCIENTIFICA”

It should be noted that this transmission mode can only be used if you have a certified e-mail box. Therefore, messages from ordinary mailboxes will not be accepted.

The manifestation of interest, regardless of the transmission method chosen, must arrive no later than **13:00** on **8 November 2017**. Exceptions will not be granted, whatever is the cause of delay in delivery, unless such delay is directly attributable to the INAF- Astrophysical Observatory of Catania.

7) CONTRACT AWARD PROCEDURE

The negotiated procedure, without prior publication of a call for tenders, will be started, according to article 63, subsection 3, letter a) of the Legislative Decree no. 50/2016 and its modifications and integrations, by the invitation letter addressed to those subjects who have expressed their interest in participating in this explorative notice, in the times indicated above.

In the case the number of manifestation of interest received is greater than 15 (fifteen), INAF- Astrophysical Observatory of Catania reserves the right, to its unquestionable judgment, to proceed with a draw that will take place in a public session, on a date, place and time that will be communicated later.

8) CRITERION FOR THE AWARD OF THE CONTRACT

The adjudication will be awarded with the criterion of the most economically advantageous tender, based on the best value for money.

9) RESPONSIBLE ONLY OF THE PROCEDURE

The Responsible Only of the Procedure, according to article 31 of the Legislative Decree no. 50/2016 and its modifications and integrations, is Dr. Alessandro Del Bove Orlandi, who will be available for any request of clarification, by using exclusively the following email addresses:

inafoacatania@pcert.postecert.it or alessandro.delbove@inaf.it.



OSSERVATORIO ASTROFISICO DI CATANIA

10) PERSONAL DATA PROCESSING

According to article 13 of the Legislative Decree no. 196/2003 and its modifications and integrations, the personal data collected with the manifestation of interest and with the respective documentation will be processed, even with computer tools, exclusively in the process for which they were made.

11) ADVERTISING

This notice will be published according to article 29, subsection 1, of the Legislative Decree no. 50/2016 and its modifications and integrations and of the Legislative Decree no. 33/2013 and its modifications and integrations, in the section “Profilo del Committente” sub-section “Forniture” present on INAF-Astrophysical Observatory of Catania web site: http://www.oact.inaf.it/weboac/Bandi_Forniture/.

Catania, 18 October 2017

THE DIRECTOR
Grazia Maria Umana

ANNEXES:

- A. Rough description of the required instrumentation;
- B. Form for the expression of interest.