



Consiglio Nazionale delle Ricerche

Istituto dei Sistemi Complessi
Via dei Taurini 19 – 00185 Roma
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PUBLIC NOTICE

Expression of interest for the participation at the negotiated procedure tender by fiduciary, according to article n. 125 of the Italian of Legislative Decree 163/2006 dated 12/04/2006, for the supply of a **system for THz Time Domain Spectroscopy (THz-TDS) equipped with femtosecond laser source and fiber-coupled emitter and receiver**, to be delivered to the Italian National Research Council - Institute for Complex Systems (CNR-ISC), based at UOS Sapienza, Dept. of Physics, University of Rome "La Sapienza", Piazzale Aldo Moro 2, 00185 Rome (Italy).

CIG. 60711718CB

CUP B52112000270005

Notice is hereby

that the CNR-ISC intends to acquire a **system for THz Time Domain Spectroscopy (THz-TDS) equipped with femtosecond laser source and fiber-coupled transmitter and receiver** and is publishing this notice in order to identify, in accordance with the principles of rotation, equal treatment and transparency, economic operators to be invited to the negotiated procedure by fiduciary pursuant to article n. 125 of the Italian Legislative Decree 163/2006 dated 12/04/2006, and subsequent amendments.

1) STATION CONTRACTING

CNR-ISC, UOS Sapienza, at the Dept. of Physics, University of Rome "La Sapienza", Piazzale Aldo Moro 2, 00185 Rome (Italy). Contacts: tel. +39 06 90672880, +39 06 49937462, fax: +39 06 49937440

2) RESPONSIBLE FOR THE PROCEDURE

According to Article n. 10, paragraph 1, of the Decree 163/2006, the Responsible for the procedure (RUP) is **Dr. Mauro Missori**, CNR-ISC, email: mauro.missori@isc.cnr.it

3) OBJECT OF THE CONTRACT

The contract has as its object the provision of a **system for THz Time Domain Spectroscopy (THz-TDS) equipped with femtosecond laser source and fiber-coupled emitter and receiver**, to be installed at the UOS Sapienza, Dept. of Physics, University of Rome "La Sapienza".

The essential features of the system must meet the following requirements:

Detailed specifications of the THz-TDS system

General description

The system must have compact configuration, minimal alignment needs, agile switching between reflection and transmission geometry and optional extension unit for x-y sample scanning.

The system must include:

- the femtosecond fiber laser
- fiber-coupled THz emitter and detector antenna modules
- fiber-coupled opto-mechanical light path with delay line
- THz beam path
- electronics for lock-in detection
- a PC with software package for measurement and data analysis.

Software package must include:

- measurement and automation software
- software for spectral data analysis and calculation of material parameters (absorption coefficient and refractive index)
- availability of libraries or native codes

Performances

- Spectral range > 4 THz
- Dynamic range > 75 dB
- Total scan range > 300 ps
- Flexible setting of scanning range and speed
- THz frequency resolution < 3 GHz
- Fast and slow scan mode

Laser specifications

- Mode locked fiber laser
- Wavelength 1560 nm
- Total average output power > 60 mW
- Pulse duration at the antenna < 90 fs
- Fiber coupled THz antennas included in the system

System components

Optical Breadboard with THz TPX polymer lenses

Microcontroller-Based control electronics: electrical chopper for emitter antenna with adjustable frequency, control electronics for the delay line, analog lock-in amplifier with integrated transimpedance amplifier

Weight

Optomechanical setup < 40 kg

4) AMOUNT OF CONTRACT

The fee-based auction amounted to € 65,000.00 (sixty-five thousand / 00), net of VAT.

5) WARRANTY

The warranty of the instrument must be 24 (twenty four) months.

6) SURETY

We require a surety equivalent to 10% of the tender as the winner from art. 113 of Legislative Decree 163/2006.

7) AWARD CRITERIA

The procedure will be awarded according to the criterion **of the lowest prices in accordance with art. 82 of Legislative Decree 163/2006 and subsequent amendments.**

8) PARTICIPATION REQUIREMENTS

May submit expressions of interest traders who meet the general requirements and professional competence described in art. 38 and 39 of Legislative Decree 163/2006 and subsequent amendments.

9) PARTECIPATION PROCEDURE

This call represents the intention of the CNR-ISC of creating a short-list of eligible participants and it will be potentially followed by an official invite to participate to a tender through procedures for the award of piecework contracts to registered/approved suppliers, according to the art. 125 of the D.Lgs. 163/2006 and subsequent amendments.

10) SUBMISSION OF THE STATEMENT OF INTEREST

The bidders should send their statement of interest no later than 12:00 (midday) - 28/01/2015, to the CNR ISC.

The statement should be submitted via "PEC" (Italian "Posta Electronica Certificata") to the email address protocollo.isc@pec.cnr.it. In alternative, **non-italian** bidders can send the statement – with return-receipt- to the email address mauro.missori@isc.cnr.it.

Any bid received after the deadline will not be considered. It is worth noting that the bidder is the sole responsible for the effective submission of the required documents and the CNR-ISC is not committed or obliged to perform any action concerning possible delays in the e-mail delivery.

The statement of interest should be presented using the form "statement of interest.pdf" provided by the CNR-ISC and attached to this communication. A scanned copy of a valid document of identity of the bidder (or of its authorized legal representative) must be attached to the submission.

It is worth noting that the submission of the statement does not imply any automatic participation to the tender, nor the CNR recognizes any obligation to finalize any financial agreement with a bidder upon submission.

11) ADDITIONAL INFORMATION

This notice has the sole purpose to pursue a market survey, it does not commit the CNR-ISC in any contractual way. The CNR-ISC is free to pursue different actions for similar purposes and to interrupt the survey at any moment if needed without any obligation towards the participants.

12) PERSONAL DATA HANDLING

The collected data will be handled in agreement with the article n. 13 of the Italian of Legislative Decree 196/2006 and later modifications, for the sole tender purpose.

13) PUBLICATION OF THIS NOTICE

This notice is published on the website <http://www.urp.cnr.it>

In attachment: template of the document "Statement of interest".

ISC - CNR - ISC	
Tit: IX.3	Cl: ACQUISIZIONE F:
N. 0000297	05/02/2015
	

Il Direttore
Prof. Claudio Conti

