

Tender Documentation for Invitation to Tender for the supply of IR Spectroradiometer

1. Contracting Authority:

PRAMACOM-HT, spol. s r.o.
Radčina 497/22, Praha 6, PSC 161 00
IČ: 26514753
Represented by company official Jiří Oulehla, tel.+420 581 242 811

2. Subject of Contract:

Compact spectroradiometer with a telescope enabling concurrent measuring of radiometric quantities within SWIR, MWIR and LWIR both in laboratory and common field conditions with a capability of data export and their editing (storage, graph drawing, link to database) using attached software. There must be met the following technical parameters:

Parameter	Required Value
Min. spectral measuring range	1 μm -13 μm
Detector Type	HgCdTe and InSb or detectors of equivalent characteristics ensuring linear response in a band measurement
Cooling of detectors	Stirling cooler
Max. field of view of telescope	Less than 30 mrad
Telescope aperture diameter	Min. 40 mm
Min. focusing range	30 m to infinity
Setting of field of view	Min. for 4 more FOV sizes (less than max. telescope field of view)
Speed of scanning	Min. three levels ranging from 10 scans/s to 80 scans/s
Spectral resolution	When speed is 10 scans/s better than 2%
Observing equipment	Camera enabling observation of a measured object on monitor without parallax
Computer and software	Data evaluation and link to spectroradiometric databases. Current data acquisition from the whole band in real time. Programming capability enabling further data processing.
Electrical interface	In compliance with European standards
Operating temperature	0 °C to 45 °C
Warranty period	1 year
Additional removable optical telescopes	Possible future equipping with additional collimating optics (option)

3. Estimated Contract Value:

3.100.000 CZK (125.000,- EURO or 172.000,- USD) excl. VAT.

4. Place of Performance of Contract:

PRAMACOM-HT, spol. s r.o.
tř. 17. listopadu 50A
779 00 Olomouc
Czech Republic

5. Delivery Term:

Less than 16 weeks from receipt of order.

6. Proof of Qualifications:

Existence of one's own website with a description of Subject of Contract.
Please state a reference to the website (a link to the website must be a part of quotation).

7. Requirements of Contracting Authority:

Quotation must comprise at least a description of each component of the contract, a total price and a completed document **“An Overview of Essential Technical Parameters of System Offered within the Contract”** signed by an authorized company official.

8. Methodology of Quotation Elaboration:

Quotation must be written either in English or in Czech language.
Quotation must be sent or submitted in written form in a sealed envelope to the place of contract performance, on the envelope there must be clearly stated **“DO NOT OPER – IR Spectroradiometer Tender”**.

9. Evaluation of Candidates:

Quotations that will not meet required parameters stated in **“An Overview of Essential Technical Parameters of System Offered within the Contract”** will be excluded.

Quotations that will exceed the expected value of the contract stated in paragraph 3 by more than 20% will be excluded.

Quotations declaring parameters with values being different from those stated on the website of the supplier will be excluded.

Quotations that will not guarantee meeting delivery time according to paragraph 5 will be excluded.

10. Evaluation Methodology:

Each quotation will be given points based on four viewpoints:

- a) price
- b) spectral sensitivity
- c) aperture diameter
- d) scanning speed
- e) warranty period

ad a) lowest-priced quotation meeting required technical parameters will be given 100 points. Each following quotation will be given $\{100 (\text{quotation price})/(\text{lowest-priced quotation price})\}$ points. Proposed prices in various currencies will be converted to CZK based on rate applicable for the Czech National Bank on 12 October 2011.

ad b) Each quotation offering a device with a spectral resolution in a complete spectral band better than 0,3% will be given 10 preferential points.

ad c) Each quotation offering device with an optical collimator aperture diameter bigger than or equal to 100 mm will be given 5 preferential points. Each quotation offering device with an optical collimator aperture diameter bigger than or equal to 220 mm will be given 12 preferential points more (i.e. 17 preferential points in total).

d) Each quotation offering device that enables to reach scanning speed higher than 100 scans/s with resolution of 32 cm^{-1} will be given 10 preferential points.

e) Each quotation offering device with a warranty period longer than or equal to two years will be given 2 preferential points.

The winning quotation is the one that will be given the highest number of points.

11. Deadline and Place for Quotations Submitting:

Quotations can be submitted continuously in period from tender invitations on 19 October 2011 to 21 November 2011. Place for quotation submitting is stated in paragraph 4.

An Overview of Essential Technical Parameters of System Offered within the Contract

Parameter	Required Value	Values of Submitted Quotations
Min. spectral measuring range	1 μm -13 μm	
Detector Type	HgCdTe and InSb or detectors of equivalent characteristics ensuring linear response in a band measurement	
Cooling of detectors	Stirling cooler	
Max. field of view of telescope	Less than 30 mrad	
Telescope aperture diameter	Min. 40 mm	
Min. focusing range	30 m to infinity	
Setting of field of view	Min. for 4 more FOV sizes (less than max. telescope field of view)	
Speed of scanning	Min. three levels ranging from 10 scans/s to 80 scans/s	
Spectral resolution	When speed is 10 scans/s better than 2%	
Observing equipment	Camera enabling observation of a measured object on monitor without parallax	
Computer and software	Data evaluation and link to spectroradiometric databases. Current data acquisition from the whole band in real time. Programming capability enabling further data processing.	
Electrical interface	In compliance with European standards	
Operating temperature	0 $^{\circ}\text{C}$ to 45 $^{\circ}\text{C}$	
Warranty period	1 year	
Additional removable optical telescopes	Possible future equipping with additional collimating optics (option)	

Hereby I confirm the truth of above mentioned parameters:

Quotation of company:

Date:

Name and surname:

Signature: