**QUESTIONNAIRE**

**MARKET SURVEY**

**Supply of Visible Survey Spectroscopy System**

**REF. IO/MS/24/CPT/VSSS**

We invite all potential companies, institutions or entities from ITER Member States to participate to this Market Survey by returning a completed questionnaire **no later than 10 May 2024**, to the following email address [chloe.perret@iter.org](mailto:chloe.perret@iter.org) .

Please note this is not a Call for Nomination request, and the purpose of this survey is not to access and evaluate the capacity of your company. Therefore, we would appreciate very much if you provide open and frank feedback, which will help the IO to better understand the real situation of the industry and the market.

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# General Information

***Company Name:*** ………………………………………………………………………………

***Address:*** ……………………………………………………………………………

## Representatives to be contacted:

|  |  |  |  |
| --- | --- | --- | --- |
| ***Contact person*** | ***Name + Title*** | ***Email address*** | ***Telephone*** |
| ***Commercial Matters:*** |  |  | + |
|  |  |  |  |
| ***Technical Matters:*** |  |  | + |
|  |  |  |  |

***Main Products:***

|  |  |
| --- | --- |
| ***Main Products*** | ***Description*** |
|  |  |
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***Turnover:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ***Turnover***  ***2020*** | ***Turnover***  ***2021*** | ***Turnover***  ***2022*** | ***Number of employees*** |
| **All activities** |  |  |  |  |

# General Questions

Notes to consider when responding to the questions:

* Section 6 of the Technical Description contains the specifications sought after by the ITER Organization. The other sections mainly provide background information and justification for the specifications listed in Section 6.
* Of the specifications in Section 6; following have the highest priority:
  + RS-SUS-001: Spectral range 400-700nm
  + RS-SUS-002: Spectral resolution <2nm
  + RS-SUS-003: 3 channels (but can be achieved by 3 separate spectrometers)
  + RS-SUS-007: Signal to Noise
  + RS-SUS-009: Dynamic range
  + RS-SUS-044: Industrial serial or ethernet communication for configuration (no USB)
  + RS-SUS-045: Ethernet (GigE Vision) for data acquisition (no USB)
  + RS-SUS-046: Availability of Linux drivers/API

The other specifications are of course important too, but not meeting one of those would not automatically rule out the product; i.e. on those specification there’s a bit of room of negotiation.

* Regarding RS-SUS-007 on signal to noise, we realize is requires a calculation which might be difficult in the short term of this Market Survey. The main point to consider is that in order to meet the SNR specifications, fairly sensitive sensors and high throughput of the spectrometer(s) are anticipated. Also the dispersion probably should not be too high (but still good enough to meet the spectral resolution), although a higher dispersion could be acceptable if the sensor allows binning in the dispersion direction without the introduction of too much read-out noise.
* Regarding RS-SUS-044, RS-SUS-045 and RS-SUS-046, the technical description leaves open a small option for USB, but this would really be a very last resort. Due to regulations the ITER organization must follow, communication over USB would result in a significant extra I&C development cost for the ITER organization that would be taken in consideration when selecting the spectrometer system.

## Do you have mature (off-the-shelf) products that can meet the technical requirements with reference to Technical Description (Annex I)?

***YES***

***NO***

If YES, please provide a brief overview:

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If NO, please indicate the aspects to be developed/customized:

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## Do you see technical difficulties in the scope of this supply with reference to Technical Description (Annex I)?

***YES***

***NO***

If YES, please explain:

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## Have you an indication of tentative delivery schedule?

***YES***

***NO***

If YES, please explain:

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## Please indicate any other information that may be relevant for this Market Survey?

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# Cost Estimation

***Please provide your non-binding cost estimation according to Technical Description (Annex I) in the following format. It is requested from the potential suppliers to segregate the costs related to manufacturing, contract management and transportation.***

***All prices shall be in Euros (€) net of all duties and taxes. As an international organization the ITER Organization is exempt from all taxes and duties. The Supply shall be delivered on the basis of DAP Incoterms 2020, Saint Paul les Durance, France.***

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| --- | --- | --- | --- | --- | --- |
| **Equipment** | **Manufacturing cost € / spectrometer** | **Number of spectrometers needed (1-3)** | **Contract Management cost €** | **Transport cost €** | **Total Cost €** |
| Visible Survey Spectroscopy System |  |  |  |  |  |

Note: All the companies who participate in this questionnaire are requested to submit the cost estimation as non-binding basis. The target uncertainty of the estimation should be within +/-15%. The information will help the IO to estimate the approximately level of the market prices.

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| --- | --- |
| Signature: | COMPANY STAMP |
| Name: |
| Position: |
| Tel: |
| Date: |