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| **ITER Organization Call for Expertise IO/17/CFE/14176/JTR** |

FINANCIAL PROPOSAL TEMPLATE

**Section 1**

All prices shall be in Euros (€) net of all duties and taxes. As an international organisation the ITER Organization is exempt from all taxes and duties. Applicable taxes (if any) shall be shown separately.

The **Financial Offer** shall be submitted in the basis of the following:

Having examined all the Documents attached to this Request for Quotation, including the Scope of Work and the Technical Specification for the performance of the Services, and having examined all conditions and factors which might in any way affect the cost or time of performance thereof, we the undersigned, offer to complete the Services upon the terms and conditions set forth in the Proposal Documents for the following price:

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| **D#** | **W / Package** | **Work Package Description** | **Est Due date** | **Price (EUR)** |
| D1 | Study of the State of  the Art | Critical study of the feedthrough concepts already developed within IO and analysis of the suitability of those designs to cope with the particular requirements of the Equatorial and Upper Launcher.  Market survey to identify suitable ultrahigh vacuum electrical feedthroughs to the Equatorial and Upper Launcher needs.  A descriptive presentation & report is also part of this deliverable | T0 + 1 months |  |
| D2 | Mechanical Design of the  EC electrical Feedthroughs | The objective of this phase is to integrate an ultrahigh vacuum electrical feedthrough into a standard ITER flange. It includes the incorporation of ITER Vacuum Handbook requirements together with safety requirements and functional requirements from EC perspective (signals, etc.) Before the start of this phase, all requirements will be  provided to the contractor by IO.  A descriptive report and 3D data is part of this deliverable. | T0 + 5 months |  |
| D3 | Component Load  Specification | This work package consists on the analysis of the launchers load specifications (provided by IO, e.g. [1]) and identity those loads applicable to the feedthroughs at equatorial and upper levels.  A report, “Feedthrough Load Specification”, following [2],  is expected as part of this deliverable. | T0 + 5 months |  |

**Maximum Total Contract Price: €\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| D4 | Structural  Integrity  Evaluation and  Qualification Plan | According to the loads identified in the previous work package, this phase deals with the analysis of the structural behaviour of the feedthroughs. The work should start with a failure mode analysis of the components (e.g. Plastic collapse, excessive deformation, fatigue, etc.). After, a FEA analysis by ANSYS is expected in order to provide the safety demonstration of the feedthroughs.  In parallel, and also considering the loads identified in the  previous work a testing program for the feedthrough should be developed.  The main outputs shall be:   An Structural Integrity Report (StIR) which include the methodology and all the results of the analyses including tables and figures illustrating the mechanical reactions and the distribution of stresses, strains and displacements in the analysed part at all applied loads and load combinations. The guideline to perform this report is [3] and [4].   A qualification plan to cover the additional tests required for the core of the feedthrough in order to have the complete qualification of the component. | T0 + 10 months |  |
| D5 | Technical  Specification | The final work package for this contract is a technical specification where the main technical requirements of the different feedthroughs are collected towards the prototype manufacturing (built to print). | T0 + 12 months |  |
| **MAXIMUM TOTAL CONTRACT PRICE (EUR)** | | |  |

In addition to completing this financial template please provide a technical offer / management plan containing the relevant details of how you propose to carry out this work in accordance with the Technical Specification ITER\_D\_UL2B37 v1.1 dated 5th April 2017

For payments IO suggests thatinvoices may be submitted upon the satisfactory completion of the deliverables as stated in the table above. Payments will be made following the acceptance and approval by the IO responsible officer of the corresponding deliverable in accordance with the Technical Specification ITER\_D\_UL2B37 v1.1 dated 5th April 2017 and upon receipt of a correctly rendered invoice.

An alternative payment schedule may be made by the bidder.

Date, Company Stamp / Signature

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**Section 2**

**COST BREAKDOWN**

In addition to providing your total fixed price for the deliverables in the table above, please could you also provide your estimated cost breakdown, number of personnel and the time frames for completing each deliverable as indicated in the table below. Please note that all costs must include all expenses that are necessary to deliver the services including travel, accommodation, daily subsistence allowances and any other conceivable expenses that are required to successfully complete the work. The table below is an example however, you may provide your own version or expand on the table below.

***Cost Breakdown Table***

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| --- | --- | --- |
| **D #** | **Description, and Number of Resources/ Unit of Time** | **Cost (EUR)** |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
|  | **TOTAL COST (EUR)** |  |

Any results or rights thereon, including copyright and other intellectual or industrial property rights, obtained in performance of the Contract, shall be owned solely by the ITER Organization, which may use, publish, assign or transfer them as it sees fit, without geographical or other limitation, except where industrial or intellectual property rights exist prior to the Contract being entered into. The Contractor may request a non-exclusive license to use generated intellectual property which the Contractor may create as a result of the services in the course of the execution of this Contract. The ownership of any background intellectual property will not change unless otherwise agreed by the ITER Organization and the Contractor.

Company Stamp / Signature:

Date: