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| **ITER Organization Call for Expertise IO/16/CFE/13464/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:

**Firm and Fixed Total Contract Price: €\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **D #** | **Description** | **Est Due Dates** | **Price (EUR)** |
| D01 | Thermal design for the three DSMs of the first integrated equatorial port aiming to maximize the content of water in the front part of the modular DSM concept developed by IO (the target would be up to 30%). The design shall keep the manufacturability restrictions imposed by the ITER PR and IVH. Additionally the design shall demonstrate that the pressure of the coolant is not a relevant driver of the DSM mechanical design. The deliverable includes the design (geometrical files oriented to simulation [Spaceclaim – Catia is not specifically required], report and presentation describing the design, isolated DSM thermal-hydraulics analyses supporting the design and justification report stating the relevance of pressure as design driver | T0 + 3 months |  |
| D02 | Thermal design for the three DSMs of the second integrated  equatorial port aiming to maximize the content of water in the  front part of the modular DSM concept developed by IO (the  target would be up to 30%). The design shall keep the  manufacturability restrictions imposed by the ITER PR and  IVH. Additionally the design shall demonstrate that the  pressure of the coolant is not a relevant driver of the DSM  mechanical design.  The deliverable includes the design (geometrical files oriented  to simulation [Spaceclaim – Catia is not specifically required],  report and presentation describing the design, isolated DSM  thermal-hydraulics analyses supporting the design and  justification report stating the relevance of pressure as design driver. | T0 + 6 months |  |

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| D03 | Construction of a thermal-hydraulic FE model of the first  integrated equatorial port. The model shall consider the thermal  design of DSMs developed in D01 above and the current  thermal design of PPS. Set-up of the model implementing the  heat transfer mechanisms, boundary conditions and interpolated  fields (nuclear heating [provided by the IO]) required  simulating the operational and baking conditions of the ITER  machine. The deliverable shall include the FE model itself (and  submodels if applicable), all routines (in APDL or any other  programming language) required to perform the set-up of the  analysis and to launch the process and a report [and  presentation] describing the principles of conceptual model, its  implementation in the FE model, the setting-up, the model  characteristics and how the analysis has to be launched. | T0 + 9 months |  |
| D04 | Construction of a thermal-hydraulic FE model of the second  integrated equatorial port. The model shall consider the thermal  design of DSMs developed in D01 above and the current  thermal design of PPS. Set-up of the model implementing theheat transfer mechanisms, boundary conditions and interpolated  fields (nuclear heating [provided by the IO]) required  simulating the operational and baking conditions of the ITER  machine. The deliverable shall include the FE model itself (and  submodels if applicable), all routines (in APDL or any other  programming language) required to perform the set-up of the  analysis and to launch the process and a report [and  presentation] describing the principles of conceptual model, its  implementation in the FE model, the setting-up, the model characteristics and how the analysis has to be launched. | T0 + 12 months |  |
| **TOTAL FIRM & FIXED 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\_U2RCJY v1.1 dated 21st October 2016.

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\_U2RCJY v1.1 dated 21st October 2016 and upon receipt of a correctly rendered invoice.

An alternative payment schedule may be made by the bidder.

Company Stamp / Signature

Date:

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| **ITER Organization Call for Expertise IO/16/CFE/12810/JTR** |

**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 |  |  |
|  | **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: