

(DRAFT) SERVICE CONTRACT

Development of the SOLPS-IO (SOLPS5.3) code: Extension of the computational domain to allow the simulation of plasma contact with the ITER main chamber first wall

CONTRACT NUMBER – IO/13/CT43000000xxx

The ITER International Fusion Energy Organization (hereinafter referred to as "the ITER Organization"), represented by the Director-General, who is represented for the purposes of the signature of this contract by Daphné Crowther, Section Leader, Procurement Installation, Plant and Support

of the one part,

and

[official name in full]

[official legal form]

[statutory registration number]

[official address in full]

[VAT registration number]

hereinafter referred to as "the Contractor"), represented for the purposes of the signature of this contract by [name in full and function,]

of the other part,

HAVE AGREED

the **Special Conditions** and the following Annexes

Annex I – ITER Organization Service Contract General Conditions (version 2009)

Annex II – Technical Specification: K7LULG

Annex III – Contractor's Offer:

Annex IV – Working conditions on the ITER Organization site

link [ITER_D_2EQ9JM - Working conditions on the ITER Organization site](https://user.iter.org/?uid=2EQ9JM) <https://user.iter.org/?uid=2EQ9JM>

Annex V – ITER Organization Internal Regulations concerning work on site, ITER/D/27WD2W (applicable to a Contractor working at ITER)

link [ITER_D_27WDZW - Internal Regulations](https://user.iter.org/?uid=27WDZW) <https://user.iter.org/?uid=27WDZW>

Annex VI – Contractor Safety Management Instruction related to ITER requirements to ensure safe conditions for contractors and visitors working on the IO premises

link [ITER_D_3N8ZN7 - Contractor Safety Management Instruction](#)

which form an integral part of this contract (hereinafter referred to as “the Contract”).

The terms set out in the Special Conditions shall take precedence over those in the other parts of the Contract. The terms set out in the ITER Organization Service Contract General Conditions shall take precedence over those in the Annexes. The terms set out in the Technical Specifications (Annex II) shall take precedence over those in the Contractor’s Offer (Annex III).

Subject to the above, the several instruments forming part of the Contract are to be taken as mutually explanatory. Ambiguities or discrepancies within or between such parts shall be explained or rectified by a written instruction issued by the ITER Organization, subject to the rights of the Contractor under Article II.23 should he dispute any such instruction.

I – SPECIAL CONDITIONS

ARTICLE I.1 - SUBJECT

- I.1.1.** The subject of the Contract is the **Development of the SOLPS-IO (SOLPS5.3) code: Extension of the computational domain to allow the simulation of plasma contact with the ITER main chamber first wall.**
- I.1.2.** The Contractor shall execute the tasks assigned to him in accordance with the Technical Specifications annexed to the Contract (Annex II).

ARTICLE I.2 - DURATION

- I.2.1.** The Contract shall enter into force on the date on which it is signed by the last contracting party.
- I.2.2.** Provision of the services may under no circumstances begin before the date on which the Contract enters into force.
- I.2.3.** The duration of the services shall not exceed 18 months. This period and all other periods specified in the Contract are calculated in calendar days. Provision of the services shall start from the date of entry into force of the Contract.

The period of provision of services may be extended only with the express written agreement of the parties before such period elapses.

ARTICLE I.3 – CONTRACT PRICE

- I.3.1** The fixed lump-sum total amount to be paid by the ITER Organization under the Contract shall be EUR [amount in figures and in words] excluding VAT, covering all services provided. The ITER Organization shall not accept liability for any expenditure beyond the aforementioned maximum amount (*OPTION FOR DELIVERABLES*)
- I.3.2** If at any time the Contractor considers that the services cannot be completed without exceeding that sum, he shall immediately submit to the ITER Organization a full written explanation of the reasons together with a detailed forecast of the excess. The ITER Organization shall not accept any liability for any forecast excess until a formal amendment to this Contract has been made in writing. The ITER Organization is not obligated to accept the above modification of contract price.

ARTICLE I.4 – PAYMENT FORMALITIES AND PERIOD

Payments can only be made after receipt of the document(s) specified in Article I.5 and II.4 below.

Payments shall be executed only if the Contractor has fulfilled his contractual obligations by the date on which the invoice is submitted.

Payment requests may not be made if payments for previous periods have not been executed as a result of default or negligence on the part of the Contractor.

The payment period is 30 days after receipt of a correctly rendered invoice and all necessary supporting documents. If a (technical) report is a further condition for payment, the 30 days period starts after the ITER Organization has:

- (i) approved the (technical) report and
- (ii) received a correctly rendered invoice.

The payment and delivery schedule is the following:

Month	Deliverable	Price €
3	<u>Report #1</u> , illustrating the successful generation and importation of a generalized grid into SOLPS5.3 (work items 1 and 2).	xx
9	<u>Report #2</u> , discussing the modification of the boundary conditions and sputtering model, i.e. results from test cases (non-ITER runs are acceptable) (work items 3 and 4).	xx
12	<u>Report #3</u> , presenting a comparison between the standard SOLPS5.3 version and the modified code on a standard grid (plasma contact in the divertor only). (work item 5)	xx
18	<u>Final report</u> summarizing the code development and verification activity, in particular the simulation results including plasma contact with the ITER wall in the main chamber. (all work items)	xx
	Installation and successful compilation of the SOLPS5.3 source code on the IO computer cluster.	xx
TOTAL COST		xxxxxxx

ARTICLE I.5 – BANK ACCOUNT

Payments shall be made to the Contractor's bank account denominated in the Contract's currency, identified by a duly filled in Financial Identification Form. The Financial Identification Form shall be provided by the ITER Organization in a timely manner.

It is the Contractor's obligation to return this form to the ITER Organization in a timely manner. No payments can be made until ITER Organization is in possession of this document.

ARTICLE I.6 – GENERAL ADMINISTRATIVE PROVISIONS

Any communication relating to the Contract shall be made in writing and shall bear the Contract number. Ordinary mail shall be deemed to have been received by the ITER Organization on the date on which it is registered by the department responsible indicated below. Communications shall be sent to the following addresses:

ITER Organization:

Technical Content

Steve Lisgo POP/TDPW

Steve.Lisgo@iter.org

Route de Vinon sur Verdon, 13115 Saint Paul Lez Durance, France

Contractual Content

Andy Brown ADM/PCD EXT

Andy.Brown@iter.org

Procurement and Contract Division

Route de Vinon sur Verdon, 13115 Saint Paul Lez Durance, France

Invoicing

ITER Organization

Finance and Budget Division

Route de Vinon sur Verdon, 13115 Saint Paul Lez Durance, France

Contractor:

Mr/Mrs/Ms [complete]

[Function]

[Company name]

[Official address in full]

ARTICLE I.7 – PRIVILEGES AND IMMUNITIES

Nothing in or relating to this Contract shall be deemed a waiver, express or implied, of any of the privileges and immunities of the ITER Organization, its staff, experts and the representatives of the ITER parties.

ARTICLE I.8 – SAFETY AND SITE ACCESS

- 1.8.1 The Contractor shall be responsible for the observance by himself, his employees and sub-contractors of all safety precautions necessary for their protection and the protection of any other persons, including all precautions required to be taken by or under or pursuant to any applicable legislation. For the avoidance of doubt this includes the Working conditions on the ITER Organization site (see Annex IV), the ITER Organization Internal Regulations concerning Work, Health, Safety and Security for persons undertaking activities at the ITER site (see Annex V).
- 1.8.2 The Contractor shall adhere to the site access procedure when entering the ITER Organization's site. The ITER Organization shall provide the Contractor with any necessary information and documentation for site access.

I.8.3 ITER Organization will be closed on the following dates in 2013:

Months	ITER site closed dates
January	1, 2
April	1
May	1, 8, 9, 10, 20
July	14
August	12, 13, 14, 15, 16
November	1, 11
December	23, 24, 25, 26, 27, 28, 31

ARTICLE I.9 – OTHER SPECIAL CONDITIONS

STANDARD ARTICLES

Article II.4. 2nd paragraph: The period of time in which to approve the report is 15 calendar days.

SIGNATURES

For the Contractor,
[Company name/forename/surname/function]

For the ITER Organization,
Daphné Crowther, Section Leader,
Procurement Installation, Plant and
Support

Signature: _____

Signature: _____

Done at: _____

Done at: St. Paul Lez Durance

Date: _____

Date: _____

In duplicate in English.