

To the ITER Domestic Agencies

By email only
Saint-Paul-lez-Durance, 13 December 2022

Reference: PCD/2022/OUT/0056 (856MYA)

Subject: ITER Lost Alpha Monitor Development

Dear ITER Domestic Agencies,

The ITER diagnostic systems include a Lost Alpha Monitor using a reciprocating Fast Ion Loss Detector located in ITER Diagnostic Equatorial Port #8 (EP8) to measure the energy and flux of fast ions during the tokamak pulse.

According to the project schedule, the development work of this Lost Alpha Monitor shall start from 2023.

The scope of work covers conceptual design, preliminary design, final design and preparation of the manufacturing technical specifications and the associated drawings, prototyping and tests. Each level of review requires the preparation of an extensive document set which is subject to careful review, as well as a CAD model representation of the system following the ITER CAD protocol. (for detailed information including needed competences/experiences, thanks to refer to the Attachment)

The IO intend to establish partnership with competent labs/universities/institutes for the above-mentioned scope of work based on 50-50 cost-sharing arrangement. The estimated IO cash contribution is within the Range A (Cost Range definition shown in the ITER Procurement Website).

The IO would like you to check if you have interested labs/universities/institutes for this subject. If yes, the IO will solicit proposals from the proposed candidates and will select one based on the best value for ITER.

Furthermore, more globally, we would like to confirm with the ITER Members that, for the all aspects of diagnostics, we are always open for proposals of cooperation/partnership where opportunities and interests overlap.

If you consider there are some opportunities in this domain from your national labs/universities/institutes, please send the proposed contact information to the corresponding procurement officer: Lijun LIU (Lijun.liu@iter.org)

Your return is expected before **6 January 2023**.

Best Regards,

Christophe DORSCHNER
Head of Division
Procurement & Contracts Division

Attachment: Technical Description