Then ain purpose of this fiant work contract is to provide the ITER Diagnostics Program and specifically the Visible Spectroscopy Reference System of this Program with specialized optomedratical and electrical components and associated acceptance and qualification tests to support its manufacturing and construction

Due to the diversity of the required components, the IIER Organization reserves the right to available to contract to note the none contractor:

The ITER Project is an international effort aimed at demonstrating the scientific and

Manufacturing assembly and testing of pressurized circuits (e.g. for water coding or prematic actuators);

Themal cycling tests;

Mederical testing ind. vibrationable tests (resonance, sine or random), notion in vacuum tests, pulling/pushing tests;

Radiography, Ultrascrictesting and dyepenetration testing of welded joints,

Metologyandoptical alignent (eg with laser trading);

Manufacturing of custom optical surfaces (e.g. by diamond turning) and optical precision polishing

Uniformcoating (e.g. by Physical Vapour Deposition) of multiple materials (Copper, Rhodium, Platinum, Aluminium, Zinconium, and Silicon Oxide, Boron Carbide, Titanium Oxide, Dielectric coatings etc.) with coating thicknesses up to 10 µm, on several substrate materials (Stairless Steel, Copper, Aluminium, Aluminium, Aluminium, Nitricle etc.) of sizes up to 300/300 mm² (potentially outsourced).

Optical testing (transmission, specular/diffuse reflectivity and BRDF¹, contrast, varient encr, stray light characterization...) in the infrared and visible (and if possible ultraviolet and X-ray wavelength bands).

The Contract is expected to cone into force by the end of 2021 for a firm duction of four (4) years with an aption to extend for a further period of 2 years

Their dicative Call for Tendernilestons are

Call for Nonination End of May 2024

Issuing of Prequilification invitations

Issuing of Call for Tender

Submission of Tendes

End of May 2024

End of August 2024

Mid of November 2024

Theselection process will be based on the following past experiences and facilities

Supplying of TIER gade materials with (31 and 32) certification,
Supplying of Ultra high vacuum compatible mechanical components or systems,
Machining of UHV-compatible mechanical components,
Supplying and machining of non-UHV mechanical components,
Supplying of Optical components (minors, lenses, contings, polishing) both UHV compatible and monvacuum.

Computer Aided Design,
Med in ing facilities,
Test facilities including UHV testing electrical testing optical testing alignment and
methology testing

Participation is open to all legal pasons participating either individually or in a grouping (consortium) which is established in an IIER Member State A legal pason cannot participate individually or as a consortium partner in more than one application or tender. A consortium may be a permanent, legally established grouping or a grouping which has been constituted informally for a specific tender procedure. All members of a consortium (i.e. the leader and all other members) are jointly and severally liable to the IIER Organization. The consortium cannot be morified later without the approval of the IIER Organization. Legal entities belonging to the same legal grouping are allowed to participate separately if they are able to demonstrate independent technical and financial capacities. Biddens' (individual or consortium) must comply with the selection criteria. IO reserves the right to disregard duplicated references and may endure such legal entities form the tender procedure.

Further information on the ITER Organization procuement can be found at http://www.iter.org/org/team/adm/proc