

Institutional Industrial Membership for Welding

Technical Specification

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1. Abstract

ITER will be the world's largest experimental facility to demonstrate the scientific and technical feasibility of fusion power. At present ITER employs approx 450 staff members.

The vacuum vessel system provides the high vacuum boundary for the plasma, and is the primary confinement for the radioactive inventory. The system shall be built in accordance with RCC – MR 2007 French Nuclear Code and ITER specific requirements.

1.1. The ITER project

The ITER project aims to demonstrate the scientific and technological feasibility of fusion power for peaceful purposes and to gain the knowledge necessary for the design of the next-stage device, DEMO, or the DEMOnstration fusion power plant.

Receiving 50MW of input power, the ITER Machine is designed to produce 500 MW of fusion power for extended periods of time. This represents ten times more than the input power needed to keep the plasma at temperature. It will therefore be the first fusion experiment to produce net energy. It will also test a number of key technologies, including heating, control, and the diagnostics and remote maintenance that will be needed for DEMO.

Further information can be found on the ITER website (<http://www.iter.org>) and also at the web pages of the ITER Parties that can be accessed via the ITER website.

2. Scope of Work

The contractor shall provide access to a broad spectrum of welding engineering advice and services from qualified professionals.

These services may include:

- Responses to technical queries
- Access to research articles and reports
- Access to global technical publications
- Access to library or information services
- Access to consultancy services
- Access to laboratory facilities
- Training courses

The Service provider shall be proficient and have sound experience in the global market place. They shall have an extensive R&D programme aimed at advancing the knowledge database.

Note: - The services supplied, whether written or spoken, shall be fluent in the English language.

3. Deliverables detail

Technical queries made by ITER personnel shall be answered within the agreed timescale and guaranteed. Library and information services, articles and reports, shall be made available in electronic format, where possible.

All technical enquiries require a response within one working day.

4. Pricing schedule.

1 year membership of the Institute shall include, at least:

	Included in the membership yes / no
Responses to technical queries from ITER	
Simple query requiring 1 hour response	
Simple query requiring 1 day response	
Access to research articles and reports	
Access to global technical publications	
Access to library or information services	
Access to consultancy services	
R & D program availability	
Training courses	

5. Others

Indicate what additional services are provided as part of a 1 year membership fee.