

Framework Contract

Machine Assembly and Installation

Engineering Support

Summary Technical Specification

Abstract

This specification is for the supply of engineering support to the ITER Organization in the installation, assessment assembly of nuclear and non-nuclear components.

1 INTRODUCTION

1.1 Scope of Work

The purpose of this Framework Contract is to provide the Machine Assembly and Installation Section (MAI) of the ITER Organization (IO) Office for Central Integration and Engineering (CIE) with the requisite engineering, technical, and specialist support in order to plan, prepare and manage the site assembly and installation of the ITER tokamak, and its associated plant systems (see www.iter.org for an overview of the ITER project).

The IO MAI Section requires qualified staff with extensive experience in the required fields.

Multiple contract awards are anticipated up to a maximum of three (3) awards. Following award, individual Task Orders will be issued, and all Contractors will be invited to provide proposals for personnel and cost. The award of each Task Order will be based on the Contractor's ability to meet the technical requirements defined in each specific Task Order, the quality of the candidates, and the cost of the proposed services. The IO MAI Section will interview candidates as part of the Task Order evaluation process.

In addition, the IO MAI Section may require additional support as new needs arise.

2 ESTIMATED DURATION

The duration of the MAI Framework Contract will be five (5) years, with the option to extend for one additional three (3) year period.

Task Orders will be issued for specific scopes of work, the duration of each being dependent upon the scope of the task. Task Order durations may vary from a few weeks up to a maximum of 12 months. It is anticipated the initial set of Task Orders will be issued in late autumn 2010, with the commencement of work on or about 1 Jan 2011

3 SCOPE OF WORK DESCRIPTION

The Contractors will provide support to the IO MAI Section at Cadarache, France and at remote locations as required by the IO, to assist with the planning, preparation, documentation, and management of the site assembly and installation of the ITER tokamak, and its associated plant systems.

It is anticipated that the IO MAI section will require support in the following general areas.

- Site assembly of large mechanical systems
- Site installation of plant systems including electrical, water cooling, cryogenics, and related networks
- Tooling design including engineering and CAD
- Specialist services including welding, inspection, QA
- Technical administrative support

The anticipated level of support is defined in each area below is the maximum level which the IO MAI Section tentatively estimates it may require.

- Senior engineer for Mechanical Assembly, Plant Installation, total 4

- Engineer for Mechanical Assembly, Plant Installation, total 8
- Design engineer, total 2
- Specialist engineer (welding, Inspection), total 2
- CAD, total 4
- Technical Administrator, total 2
- Other specialists

3.1 The scope of the specific support to be provided by the contractors is as follows:

- a. Assistance in the development of assembly and installation plans, schedules, resource and cost estimates, and design of the associated assembly and installation tooling. This work will include, but not be limited to, feasibility assessments, the preparation of calculations, CAD models, drawings, specifications, cost estimates and the preparation and maintenance of related documentation.
- b. Preparation and update of baseline documentation including Project Requirements Documents, System Requirements Documents (SRDs), System Installation Description Documents (DDD), Interface Control Documents (ICDs), Interface Sheets (IS's). Preparation of assembly procedures, schedules, cost estimates, quality management and control documents, and any other documentation relating to the assembly and installation of the ITER tokamak and its associated plant systems.
- c. Assistance required to fulfil the roles/duties outlined above.
- d. Any other tasks as may be defined by the Leader of the MAI Section.

4 QUALITY ASSURANCE REQUIREMENTS

The contractor shall hold, and maintain during the entire duration of the contract, a valid ISO 9001 and 14001 certification or comparable.

The contractor shall maintain a Contract Quality Program that shall be subject to approval by the IO.