

<b>TITLE: Technical Officer for ECH &amp; CD</b>		<b>CHD-007</b>
<b>REPORTS TO LINE MANAGER: Division Head for H &amp; CD; Department of CODAC&amp;IT, H&amp;CD and Diagnostics</b>		
<b>DIRECT EMPLOYMENT: NOT REQUIRED</b>		<b>GRADE RANGE: P3-P4</b>
<b>DATE WRITTEN: July 2007</b>	<b>DATE REVISED:</b>	<b>DATE REVISED:</b>

**Purpose:**

To support the Division Head in all matter relating to the implementation of ITER Electron Cyclotron Heating (ECH) system. The H&CD systems of ITER is designed to deliver 20 MW of power in the Electron Cyclotron range of frequencies. Candidate will work in the RF Heating and Current Drive division and will be responsible for the R&D activities of ECH, design, and procurement. He will also interface between Various DAs involved in the procurement activities of ECH & CD systems. He will also be responsible for the start up system and its follow up during procurement.

**Major Duties/Responsibilities:**

- To be responsible for the integration of EC heating and current drive system in ITER. Plasma Start up system coordination.  
To define tasks and oversee the design and R&D work undertaken by the Participant Teams in this field of work.  
To participate in the design and integration of interfaces of the EC H&CD Launcher systems to ITER.  
To review and maintain the Project Integration documents referring to this WBS.
- Supports the DH in all matters related to the ECH systems for ITER construction.
- Develops the designs of ECH systems by personal contribution and by specifying, monitoring and coordinating work in the laboratories and institutes of the ITER Partners, including any relevant supporting R&D, with emphasis on ECH launchers.
- Assist with the preparation of the relevant procurement packages.
- Assists with the management of the scope, schedule and cost of procurement of the associated systems and supporting hardware through the specified procurement packages.
- Assists with the preparation of the interface documentation and keeping it up to date.
- Assists with the preparations for the installation of ECH & CD systems on ITER.
- Reports variances on all technical, cost and schedule aspects immediately to the DH.
- Supports effective risk identification and management.
- Shows strong commitment to the ITER safety program and enforces it through individual behaviour and in his organization.

- Maintains a strong commitment to the implementation and perpetuation of ITER values and ethics.

**Qualifications Required:**

- Post Graduate degree in Science or Engineering in a relevant area with working experience for at least seven years. Expertise in design and integration of heating systems in fusion research facility with excellent technical and managerial leadership.
- Experience in effective QA management and implementation would be an advantage.

**Work Direction and Interfaces:**

Reports to the DH.

**Authority/Approval Levels:**

Has authority and approval levels defined by the DDG for his scope of work.

**Measures of Effectiveness:**

Successfully develops the design of ECH systems.

Successfully develops the design of interfaces of ECH components with the main tokamak components.

Successfully prepares technical specifications of allocated procurement packages.

Successfully manages the procurement of the ECH system.

Successfully develops cost effective installation and testing plans.

Successfully maintains effective communications with all parties delivering subsystems for the ECH systems.

Successfully supports the ECH need of the project.