

Seminar

Institute for Plasma Research

Title : ITER Assembly Approach, Planning and Current Status

Speaker : Mr. Vijay Bedakihale
ITER Organization, France

Date : 17th December 2014, Wednesday

Time : 03.00 PM

Venue : Seminar Hall, IPR

Abstract:

The ITER machine is being constructed in Cadarache, south of France and the ITER Organization (IO) has overall responsibility for integration.

To accomplish the assembly operation, specially designed, purpose-built tools, as well as standard commercially available tooling and equipment are used. To support the assembly process, a number of services and facilities - metrology, machining facility, NDT, beryllium controlled area and occupational safety - will be established at the site. The combined technical requirements for the assembled sub-systems need to be carefully planned in order to ensure that the machine operates to design specification and can be constructed within the scheduled duration. The key challenges in planning the assembly tasks are the tight installation tolerances for the large, heavy major components of the Tokamak machine.

This presentation will summarise the key features like overall assembly approach, the planning behind it and highlight the current status of the work along with, the principle tooling to be used, the work breakdown and highlight of the key functional tolerances to be achieved during assembly. Emphasis is placed on Subassembly Activities carried out in the Assembly Building adjacent to Tokamak Building to describe how these key points are considered during assembly.
