



## Project: International Thermonuclear Experimental Reactor (ITER)

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Developing Technologies for India's deliverables to ITER



### Abstract:

- As a part of the agreement related to procurement arrangements with ITER France, ITER India is responsible towards delivering the machine core components viz the cryostat and the in-wall shields and packages related to cooling water systems, cryogenics, IC and EC RF heating systems, Diagnostic neutral beam and diagnostics. Each of this package has special requirements related to materials, precision machining, jointing technologies for similar and dissimilar materials and RF technologies. Enormous experience has been gained during the course of ensuring these deliverables to ITER with the Indian industry and to bring the industry to the state of industrial readiness for future needs. The present status of the deliverables and the technologies developed shall be presented and discussed.

### About the Speaker:

- Aparajita Mukherjee, presently works as Senior Project Manager, ITER-India, for Ion Cyclotron and Electron Cyclotron Resonance Heating & Current Drive Source system for international fusion project, ITER. Her major involvement is in the field of engineering design/analysis and technology development of Radio Frequency components/sub-systems/systems, especially for ITER requirement. Previously she worked extensively for Indian Tokamaks ADITYA & SST-1 for Ion Cyclotron Resonance Heating system. Her field of interest are studies of Radio Frequency wave propagation in the plasma medium, development of launcher structure, low & high power Radio Frequency sources, various Radio Frequency components, matching networks and amplifier cavities.

