

Measurement of outgassing rate of the different materials using OGMS

Abstract

Exhaust and Fuelling Technology Development division is working in the field of cryogenics and vacuum. EFTD, division have developed cryopumps for the TOKAMAK applications. For the development of the cryopump, outgassing rate of the different materials is required to be measured for ultra-high vacuum applications. Outgassing rate of upto 10-14 mbar-litre/sec/cm² can be measured using Outgassing Measurement System (OGMS) at EFTD Division, IPR. This project involves assembly of the components of the OGMS, and measurement of outgassing rate of different materials using conductance method.

Academic Project Requirements:

1) Required No. of student(s) for academic project: 1

2) Name of course with branch/discipline: Mechanical Engineering

3) Academic Project duration:

(a) Total academic project duration: 40 Weeks

(b) Student's presence at IPR for academic project work: 5 Full working Days per week

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