**Vacuum Chamber Specifications**

A room of approximate dimension 14.4 ft x 14.2 ft x 11ft need to be converted to a low pressure chamber by using a vacuum pump. The pressure (range: 1 bar-0.008 bar) in the room should be adjustable or set using a control panel. The time to reach the lowest pressure of .008 bar should be less than 2 hours. A general sealing of the room will be done by IIT, however any minor leakage/gaps should be fixed by the vendor. The room requires a door for entry of personnel and also a window to view. In addition, there should be provision for taking cables (signal/electrical).

Specifications for the room and the door are given below.

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| **Room dimension** | (Appx)14.4 ftx14.2 ftx11ft |
| **Required Vacuum level** | ~1/100 atmosphere (~10 milli Bar) |
| **Pressure control method** | Using on off solenoid valve with less than 1-2%fluctuation in pressure level.  (If other methods are available kindly  mention) |
| **Temperature control** | Not Required |
| **Door specifications** | **Vacuum chamber Door Size of door: 1500 x 1000 mm Material: Stainless steel Window size on the door: 400 x 600 mm Window material: 12 mm thick acrylic** |
| **Air tight glands to tap power and signal wires** |  |