# Inverter Test under full load (RL)

**Brief description-**

To test the high current load capacity of the inverter RL load will be used in the below configuration.



To simulate the RL load, induction motor’s two stator phase winding will be used as they can sustain rated current that the inverter needs to flow eventually.

**Lab** - Heavy Laboratory, Pon 105/2.117

**Equipment –**

1. Lambda ESS Power Supply - Need to be brought down from the rack.
2. Voltage Supply 30V/1A - 4 Channel.
3. Cooling Fan – DC 24V
4. Induction motor - Facing away from test bench so the wires are closer to bench.
5. Oscilloscope – Teledyny LeCroy HDO41014-MS (1GHz) (For higher resolution.)
6. Probes – Differential Voltage Probes, Rogoswki Coil for Current.
7. Signal Generator.
8. Extension Cord for power supply of Differential/Rogoswki etc.



**Schedule –**

1. Bring all the equipment on test bench – 25th Feb 2019
2. Power up and test all the equipment – 25, 26 Feb 2019
3. Connect motor stator windings and inverter. Stabilize the fixture so it doesn’t move. 26 Feb 2019.
4. Start with load test - 26 Feb 2019.
5. Gradually increase current and continue with load test – 27, 28, 1 March (Hopefully, if everything goes ok.)

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|  | Prepare Setup | | Test | | |  |  | Buffer |