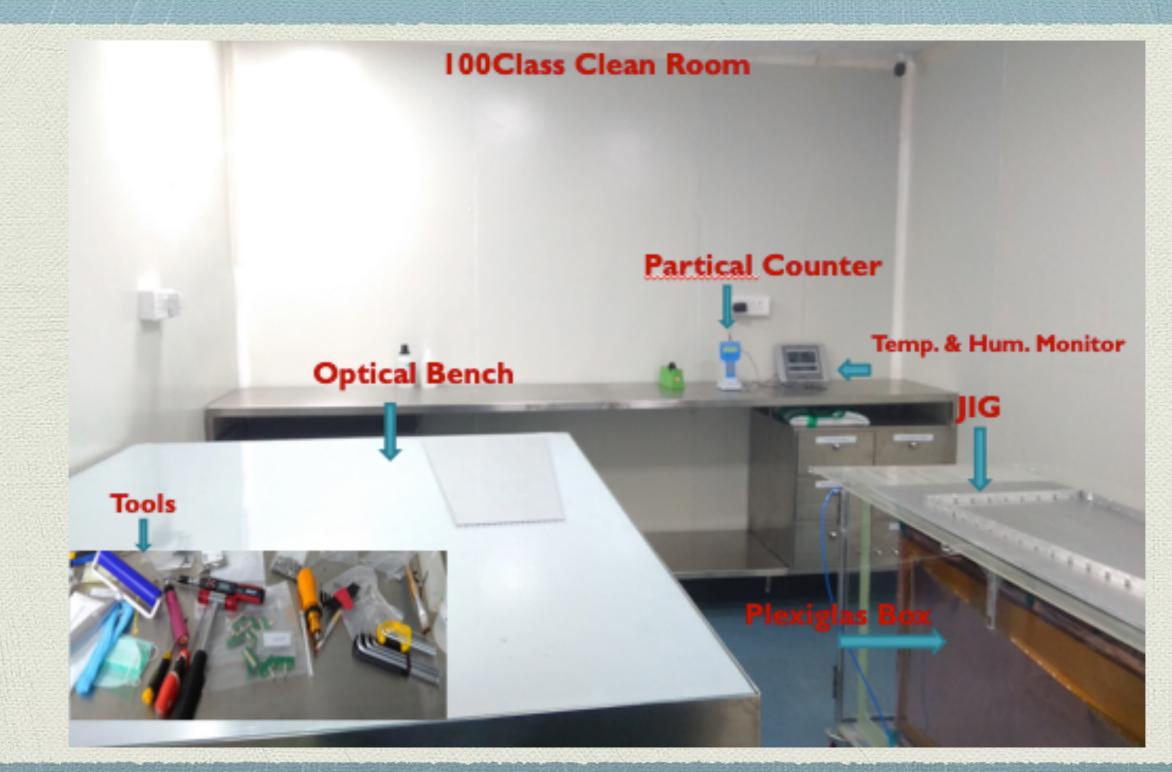
Status of Delhi University

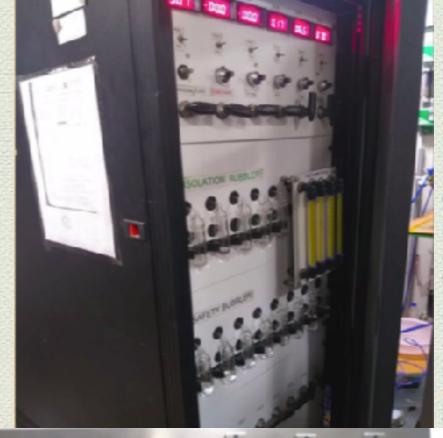
Mohit Gola (University of Delhi)
on behalf of
Delhi GEM group

Clean Room



Gas Mixing Unit

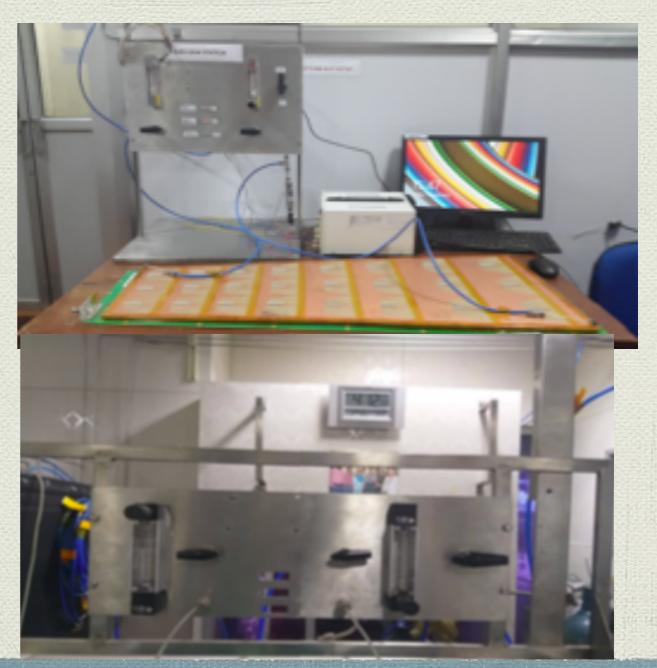
- We have two gas mixing unit.
- One with the manual MFCs and also we have designed and made locally with the help of digital MFCs.
- Also having a facility of pre-mix bottle of Ar/ CO2.





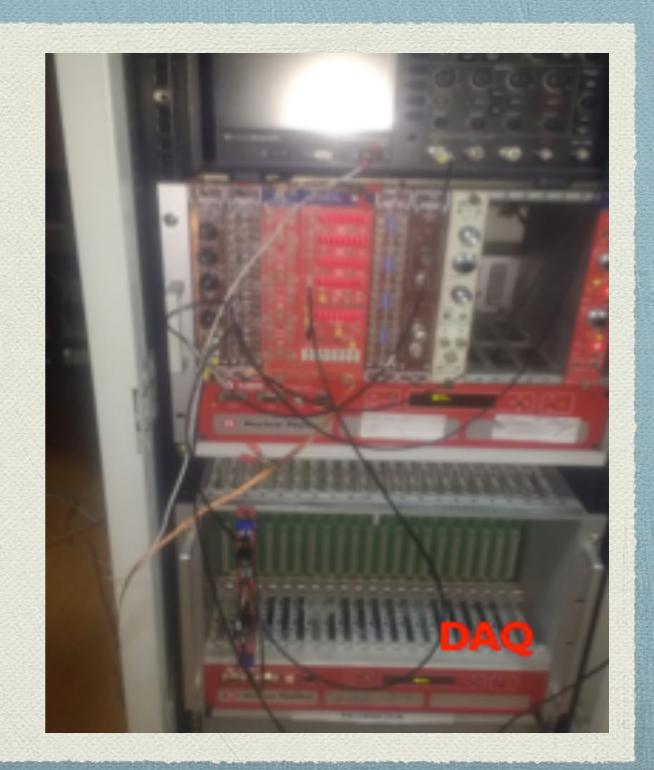
Gas leak Setup (QC3)

- Gas leak setup used for the GE1/1 production is fully functional.
- Another setup prepared.
- Two chambers can be tested simultaneously.
- No change in the setup required after GE1/1 testing.



High Voltage Test(QC4)

- * DAQ for the QC4 test is fully operational and tested for small size detectors.
- Procured few more modules and one more Mini-crate to replica this setup like preamp, scalar, power-supply, etc.
- Which helps in testing of two chambers simultaneously.



Gain and Response Uniformity(QC5)

- Buying a new X-Ray, may be available by this year.
- Also procured few spare modules like pre-amp, amp., etc.
- Fully functional SRS system with FECv6.
- Have two or three pairs of spare APV.



Summary

- We have assembled 8 detectors and tested 16 (8 from Delhi + 8 from Punjab) detectors till response uniformity QC5(2).
- * The Delhi site is fully ready to produce the GE2/1 modules. And we can produce two modules or more per week.
- Need to do few minor modification in quality controls setups due to shape of the GE2/1 modules like supporting structure of copper box, rotatory table, HRS to Panasonic connector.
- * Also need to procure assembly tooling required to build GE2/1 modules like jig, plexiglass.
- * The manpower includes the 2 Physicist, 2 Research scholars and 2 Engineer. Also, few (2-3) Ph.D. students are going to join our group before the end of this year.

Thanks