

DBT's RGCB Laboratory Medicine & Molecular Diagnostic (LMMD) Facility

COVID 19 Diagnostic Protocols include:

- NABL, NABH, and ILAC accredited laboratory.
- Part of the National Network of "A grade" Virology laboratories certified by ICMR since 2011 and currently an approved COVID 19 diagnostic facility
- Operates with BSL 2 and BSL3 practice.
- Has 2 viral burnout laminar flow, which does not contaminate the environment with corona virus
- Four class-3 laminar flow equipment.
- Effluent treatment plant for safe discharge of biological waste.
- Personnel highly trained to handle all viral diseases with experience of over 10 years in viral diagnosis.
- Full personal protection gear (PPE) used for all deployed staff.
- Four high-end in vitro diagnostic certified machines used for testing.
- Four "minus 80" freezers for sample storage.
- Six "minus 20" freezers for reagent storage.
- Two refrigerated centrifuges for RNA extraction.
- Electronic pipettes are used for testing which prevents error in volumetric measurement.
- 30KvA UPS back up for 5 hours continuous operation.
- Two diesel generators back up for unlimited time.
- Testing time less than 3 hours 30 minutes.
- Rated sample processing capacity of 3072 run per day (24 Hours).
- Declared testing capacity as of now, 500 tests per day.

Testing process followed at lab is given:

- Sample received after confirming cold chain maintenance. If not maintained, sample are rejected.
- Sample barcode generated and work list made at the front desk.

- The work list along with pending work list if any, is assigned to the technologist on duty assigned for sample aliquoting.
- Aliquoted sample from the designated aliquoting room is transferred through the pass box to DBN/RNA extraction room where the designated staff will process. Usually manual isolation is done, especially when the sample volume is low and/or when doing viruses as manual process gives better.