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.