



DBT - NIAB, Hyderabad



Development of diagnostics and *in vitro* assay system for novel corona virus infection

- NIAB has developed aptamers for binding to the genomic RNA of novel corona virus, for quick and affordable colorimetric point-of-care device in dot blot or lateral flow assay format to detect the presence of virus in the clinical samples, patients samples to be tested.
- Developed an electrochemical small coin battery driven gadget that can detect the SARS-CoV-2 surface protein at bed side within 1-2 minutes upto femtomolar concentration, thus is highly sensitive in nature and can detect very low copy number of virus; patients samples needs to be tested.
- Working to express the spike proteins of Novel Corona virus on the surface of mammalian cell lines, which will act as a safe and non-hazardous surrogate for viral surface contours to screen new molecules or antibodies for therapeutic purposes.