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# COMMISSIONERATE

## Health & Family Welfare Services

No: DD/ SSU/COVID-19 Sero Surveillance/17/2020-21

Date: 14/08/2020

### CIRCULAR

**Sub: Sentinel Survey for estimating COVID-19 Burden in Karnataka-reg.**

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Covid-19 has spread across the Country with more than 2.1 million affected and 44,466 deaths. As on 10.08.2020, the state has 1,72,1 active cases and 3613 deaths. Currently, only Case-based reporting exists which helps in testing, tracing and treating cases, but has limited use for other public health responses.

Government of Karnataka has planned to conduct Serial cross-sectional sero survey in all the 30 districts, including BBMP to estimate COVID-19 burden in the State over three rounds starting from August 2020. Each district will be the unit for survey; and in case of Bengaluru, each zone (8) of BBMP will be considered as a district (East, West, South, Bommanhalli, Dasarahalli, Mahadevpura, RR Nagara and Yelahanka). Hence, a total of 38 units has been included for the survey and from each unit, health facilities have been selected.

The objectives of the survey are: (1) To estimate prevalence of COVID-19 in the general population of Karnataka state. (2) To estimate the proportion of people with immunity developed against SARS-COV-2 infection.

Details of Risk Groups selected for the survey and sample size for each stratum			
Risk Groups (sample size)	Sub-groups	Sample Size for each Unit	Type of Test
Low risk (144)	Pregnant women presenting for ANC clinic	72	RT PCR & IgG antibody test
	Persons attending the outpatient department in the hospitals/ attendees	72	

<b>Moderate to high risk: Persons with high contact in the community (144)</b>	Vendors at the vegetable markets	28	<b>Rapid Antigen testing (RAT) &amp; IgG antibody test.</b> RT PCR testing to be done for all RAT negative samples)
	Bus conductors/Auto drivers	28	
	Healthcare workers	30	
	Individuals in containment zones	28	
	Congregate settings: Markets, Malls, Retail stores, Bus stops, Railway stations Powrakarmikas/ waste collectors	30	
<b>High risk (144)</b>	Elderly	72	<b>RAT &amp; IgG antibody test.</b> RT PCR testing to be done for all RAT negative samples)
	Persons with comorbid conditions	72	
<b>Total Same size per sampling unit</b>		<b>432</b>	

Following activities need to be carried out for implementing the survey :

- DSO to select the health staff for survey including identified health facility (Annexure1) and Community groups and train them.
- Ensure availability of Rapid antigen kits, lab consumables, lab format and other contingencies for survey. **RAT and RT-PCR samples collected for survey should be included within the overall target allotted for the district.**
- **Low risk category** participants need to be tested for RT PCR testing (Nasopharyngeal swab & Oropharyngeal swab in same VTM) and IgG antibody ELISA testing (venous blood).
- **Moderate and High-risk group** participants need to be tested for Rapid Antigen testing (nasopharyngeal swab in Virus Extraction tube) and IgG antibody ELISA testing (venous blood). RT-PCR samples (Nasopharyngeal swab & Oropharyngeal swab in same VTM) has to be collected for all participants planned for RAT. If the suspected individuals tests positive by RAT, then reconfirmation by RT-PCR is not required (swab collected in VTM should be discarded). If the Suspected individuals (Symptomatic/ Asymptomatic) tests negative, then reconfirmation with RT-PCR testing is required.
- Basic data collection of all participants will be done through a Survey App. SRF ID obtained from RT-PCR App will be entered in the Survey App for further entry of RT-PCR results and Antibody results.

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- Ensure testing of samples and reporting on priority basis and arrange transport of RT-PCR samples and serum samples for IgG antibody ELISA testing to the mapped ICMR testing labs.
  - Ensure entry of results in the Survey App at the district level, after RT-PCR results and Antibody results are obtained from ICMR labs. Rapid antigen test results should be entered in the survey App at the health facility, as and when the test is conducted.

**Detailed training will be imparted and survey manual is being shared for further necessary planning. DSO is hereby instructed to adhere to the guidelines and also make necessary arrangement for implementation of the Survey.**



**Commissioner,**

**Health & Family Welfare Services.**

**To:**

**The District Health and FW Officers, All district & The Chief Health Officer, BBMP**

**Copy for necessary action to :**

The District Surveillance Officer & DAPCO All district.

**Copy for kind information:**

1. The Additional Chief Secretary, Department of Health and FW, Vikasa Soudha, Bengaluru
2. The Additional Chief Secretary, Planning
2. The Mission Director (NHM), Dept. of Health and FW, Anand Rao Circle, Bengaluru
3. The Director, Directorate of Health and FW Services, Ananda Rao Circle, Bengaluru
4. The Deputy Commissioners & Chief Executive Officers, All districts.
5. The Commissioner, BBMP
6. The Project Director (IDSP), Department of Health and FW, Ananda Rao Circle, Bengaluru.
7. The Project Director, KSAPS, Department of Health and FW, Ananda Rao Circle, Bengaluru.
8. The Deputy Director (SSU), D. H & F. Services, Ananda Rao Circle, Bengaluru