



Tel: +9180-2287 4039
+9180-2235 4085
Fax : +9180-2228 5591
e-mail : com-hfws@karnataka.gov.in

COMMISSIONERATE

Health & Family Welfare Services

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

Date: 18/08/2020

CIRCULAR

Sub: Mapping of Districts to ICMR Laboratories for testing Sentinel Survey samples for estimating COVID-19 Burden in Karnataka -reg.

Covid-19 has been spreading across the Country with more than 2.1 million affected and 44,466 deaths. As on 10.08.2020, the state has 1,72,102 active cases and 3,091 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. 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.

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.

Sample size planned for each district is 432. For the survey, RT-PCR and Rapid Antigen Detection Test and will be used for the diagnosis of acute infection; while serum testing for IgG antibodies will be used to find the immunity in the community. Risk Groups selected for the survey and the type of test planned for each risk group is shown below:

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	

Moderate to high risk: Persons with high contact in the community (144)	Vendors at the vegetable markets	28	Rapid Antigen testing (RAT) & IgG antibody test. 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	
High risk (144)	Elderly	72	RAT & IgG antibody test. RT PCR testing to be done for all RAT negative samples)
	Persons with comorbid conditions	72	
Total Same size per sampling unit		432	

Each district has been mapped to ICMR Laboratories for RT- PCR testing and COVID-19 IgG ELISA testing. Mapping of districts to ICMR labs is attached in Annexure 1 & 2. COVID-19 IgG ELISA testing will be performed in 9 ICMR labs shown below, to which 4-5 adjacent districts have been mapped. ELISA kits will be distributed to the ICMR labs from NIMHANS.

1. NIV, Bangalore unit,
2. National Institute of Mental Health and Neurosciences, Bangalore
3. Bangalore Medical College and Research Institute, Bangalore
4. KIMS, Hubli
5. Mysore Medical College and Research Center, Mysore
6. Gulbarga Institute of Medical Sciences, Kalaburgi
7. Hassan Institute of Medical Sciences, Hassan
8. Shivamogga Institute of Medical Sciences, Shivmogga
9. Vijayanagar Institute of Medical Sciences, Ballari

Nodal Officers of the ICMR labs are hereby informed to test the survey samples on priority basis and share the results to the concerned districts.


Commissioner,

Health & Family Welfare Services.

To:

The Nodal Officers, Govt. ICMR labs & Nodal Officer - NIMHANS.

Copy for kind information:

1. The Additional Chief Secretary, Dept. of Health and FW, VikasaSoudha, 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 Project Director (IDSP), D. H & F. W .S, Anand Rao Circle, Bengaluru
5. The District Health and FW Officers, All district & The Chief Health Officer, BBMP
6. The District Surveillance Officers, All district.

Annexure 1:
Mapping of Districts to ICMR labs for COVID19 IgG ELISA testing for Survey

Sl. No	Name of District	Name of the Laboratory
1	BBMP(South Zone)	NIV, Bengaluru Unit
2	BBMP (Dasarahalli)	
3	Bengaluru Rural	
4	Chikkaballapur	
5	Tumakuru	
6	Bengaluru Urban	National Institute of Mental health and Neurosciences, Bengaluru
7	BBMP (East Zone)	
8	BBMP (Yelahanka)	
9	BBMP (West Zone)	
10	Belagavi	
11	Kolar	Bengaluru Medical College and Research Institute, Bengaluru
12	BBMP (Mahadevapura)	
13	BBMP (Bommanahalli)	
14	BBMP (RR Nagara)	
15	Ramanagara	
16	Haveri	KIMS, Hubli
17	Bagalkot	
18	Gadag	
19	Dharwad	
20	Chamarjanagara	Mysore Medical College and Research Centre, Mysuru
21	Kodagu	
22	Mysuru	
23	Mandya	
24	Kalaburagi	Gulbarga Institute of Medical Sciences, Kalaburagi
25	Yadgiri	
26	Bidar	
27	Vijayapura	
28	Hassan	Hassan Institute of Medical Sciences, Hassan
29	Dakshina Kannada	
30	Udupi	
31	Chikkamagaluru	
32	Chitradurga	Shivamogga Institute of Medical Sciences, Shivamogga
33	Uttar Kannada	
34	Davangere	
35	Shivamogga	
36	Koppal	Vijayanagar Institute of Medical Sciences, Bellary
37	Raichur	
38	Ballari	

Annexure 2 : Mapping of Districts to RT-PCR lab for Cross-Sectional Sentinel Survey.

Sl. No	Name of District	Name of the Laboratory
1	BBMP (East Zone)	Bowring and Lady Curzon, Bengaluru
2	BBMP (Dasarahalli)	Bengaluru Medical College and Research Institute, Bengaluru
3	BBMP (RR Nagara)	
4	Bangalore Rural	Command Hospital, Bengaluru.
5	BBMP (Yelahanka)	National Centre for Biological Sciences (NCBS)
6	Bengaluru Urban	Kidwai Memorial Institute of Oncology, Bengaluru
7	BBMP (South Zone)	National Institute of Mental health and Neurosciences, Bangalore
8	BBMP (West Zone)	Indian Institute of Science, Bengaluru
9	BBMP (Bommanahalli)	Syngene
10	BBMP (Mahadevapura)	National Institute of Virology, Bengaluru Unit
11	Kolar	SNR District Hospital, Kolar
12	Vijayapura	Vijayapura District Hospital
13	Ramanagara	District Hospital, Ramanagara
14	Tumakuru	District Hospital, Tumkur
15	Chikkaballapur	Public Health Lab, Chikkaballapura
16	Belagavi	National Institute of Traditional Medicine, Belagavi
		Belagavi Institute of Medical Sciences, Belagavi
17	Bagalkot	District Hospital, Bagalkot
18	Haveri	District Hospital, Haveri
19	Chamarajanagara	Chamarajanagara Institute of Medical Sciences, Chamaraja Nagar
20	Kodagu	Kodagu Institute of Medical Sciences - Madikeri
21	Mysuru	Mysore Medical College and Research Centre, Mysuru
22	Mandya	Mandya Institute of Medical Sciences, Mandya
23	Kalaburagi	Gulbarga Institute of Medical Sciences, Kalaburagi

24	Yadgiri	Yadgiri Institute of Medical Sciences, Yadgiri
25	Bidar	Bidar Institute of Medical Sciences, Bidar
26	Gadag	Gadag Institute of Medical Sciences, Gadag
27	Hassan	Hassan Institute of Medical Sciences, Hassan
28	Dharwad	KIMS, Hubli
		Dharwad Institute of Mental Health & Neurosciences, Dharwad
29	Chikkamagaluru	Public Health Laboratory, Chikmagaluru
30	Chitradurga	Virus Diagnostic Laboratory - Shimogga
31	Uttar Kannada	Karwar Institute of Medical Sciences, Karwar
32	Davangere	Chigateri District Hospital, Davangere
33	Shivamogga	Shivamogga Institute of Medical Sciences, Shivamogga
34	Koppal	Koppal Institute of Medical Sciences, Koppal
35	Raichur	Raichur Institute of Medical Sciences, Raichur
36	Ballari	Vijayanagar Institute of Medical Sciences, Ballari
37	Dakshina Kannada	Wenlock District Hospital, Mangalore
38	Udupi	District Hospital, Udupi.