

**COVID 19**

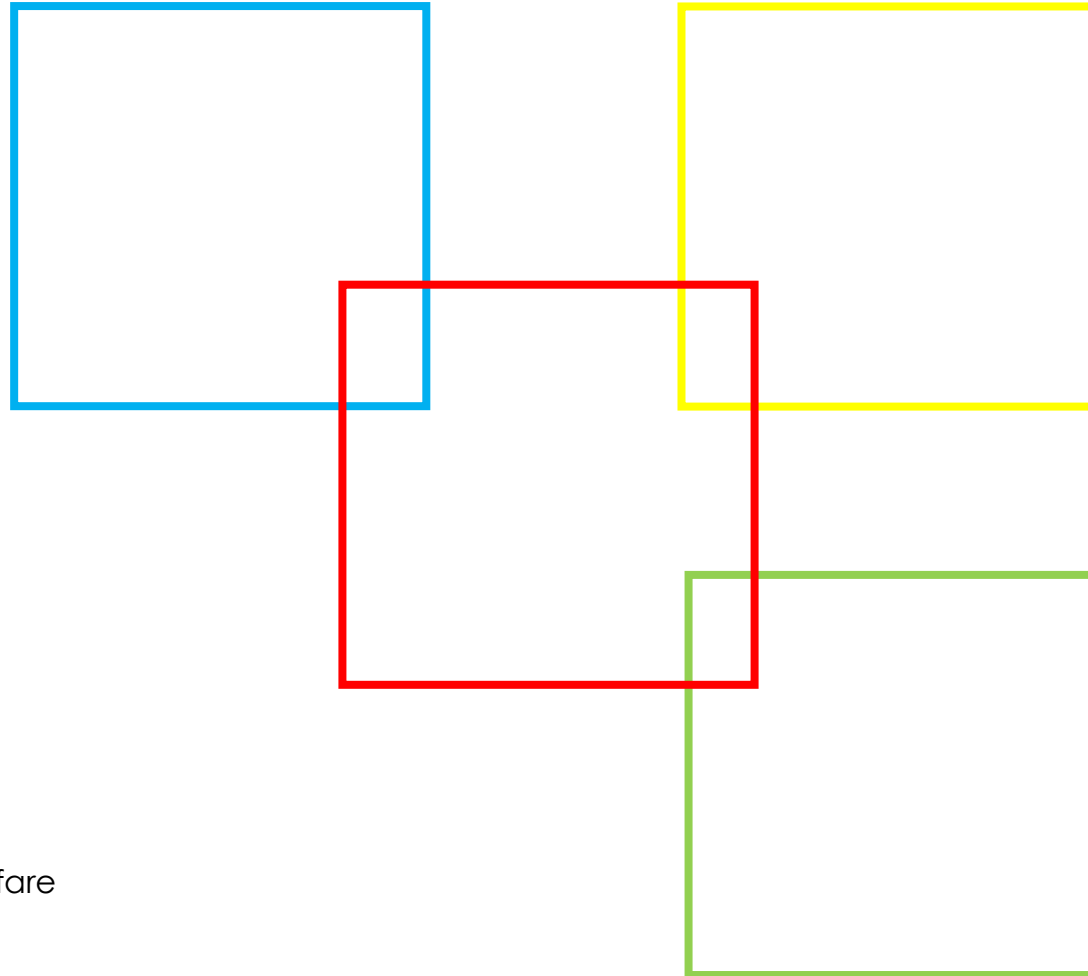
**STATE REPORT ON CLUSTERS**

**(9<sup>th</sup> August 2020)**



Department of Health & Family Welfare

Government of Kerala



## Index

Message	4
Introduction	5
State abstract	6
Summary of clusters in Kerala	8
District cluster reports	
Thiruvananthapuram	9
Kollam	18
Pathanamthitta	28
Alappuzha	33
Kottayam	41
Idukki	45
Ernakulam	49
Thrissur	58
Palakkad	65
Kozhikode	70
Malapuram	77
Wayanadu	81
Kannur	85

Kasaragod	89
Annexure	95
Acknowledgement	

## **Message**

The second volume of the State report on Cluster is published by the Department of Health and Family Welfare. The second volume covers the basic facts regarding the COVID epidemic. The district surveillance units are now having good capacity to analyse the data and do interpretations. The sentinel surveillance samples positive cases give lead to the field teams to identify cases in the community. Based on these positive cases, the field teams do intensive testing and through that exercise, the teams are able to identify the cluster of cases. In this report, the districts have presented various identified clusters and intervention plans within the clusters.

The state cluster report will be of value to all the field functionaries, students and researchers.

I wish all the success to the efforts of teams at the district and sub district level.

**K K Shailaja Teacher**

**Minister Health & Family Welfare  
Social Justice  
Woman & Child Development**

## Introduction

The WHO declared COVID as health emergency in January 2020. The Department of Health and Family Welfare took all essential steps of developing management structures and specific roles and responsibilities to each structures in January itself. All these structures are functioning at their respective level as well as in a coordinated way as a whole.

The second volume of State Clusters report reflects the same. The field teams are identifying the subjects for the samples, the lab teams are processing the samples, from the results of these samples, further drilling down is done to identify the cluster formation. District Collectors are conducting regular discussions with the District Medical Officers, District Surveillance Officers and District Program managers. They regularly plan specific interventions within the clusters such as lock down to reduce the mobility of people to reduce the rate of transmission. More emphasis is given on testing of most at risk population. In all clusters 100% testing of elderly, pregnant mothers, postnatal mothers, people with morbidity, sever acute malnourished children and people with Influenza like illness is followed. The approach of early detection of covid infection among the most at risk population and treatment helps to reduce the probability of fatality.

The report is presented as follows -

- a. State basic data on COVID19.
- b. Definition of clusters categorization.
- c. State abstract of categories of clusters
- d. Details of each districts giving details of active cases, new cases, clusters and trends in the clusters.

State Abstract of COVID cases ( as on 31<sup>st</sup> July)

	KERALA
Total number of confirmed cases	23613
Total cases recovered	13023
Deaths	73
Total active cases	10498
Case per one lakh population	70.68
Case Fatality percentage ( Death / Cases)	0.31
<b>Category of cases</b>	
Import ( Travelled to Kerala from outside)	9606
Through Contacts	14007
Total	23613
Proportion of locally acquired cases	59.32
Locally acquired: imported ratio	1:0.69
<b>CONTACTS UNDER SURVEILLANCE</b>	
Total contacts currently under observation	58702
Primary contacts	45581
Secondary contacts	13121
<b>PEOPLE UNDER SURVEILLANCE</b>	
Total people under surveillance	143323
People under Home/ Institutional Quarantine	133151
People admitted in designated isolation facilities	10172

Term		Definition
<b>Large Cluster</b>	<b>Community</b>	-More than 50 locally transmitted cases in an identified geographical area [LSG area] AND -If more than 10% of wards/ divisions are eligible to be fit into the definition of limited community clusters.
<b>Limited Cluster</b>	<b>Community</b>	More than or equal to 2 locally transmitted cases in a division/ward within the last 14 days but not in same households.
<b>Closed Cluster</b>	<b>Community</b>	More than or equal to two cases of locally transmitted cases in 'closed community' like CISF camps/ Defence camps/ Labour camps etc. within the last 14 days
<b>Institutional Cluster</b>		More than or equal to two cases of locally transmitted cases in an institution like Hospital/ Office within the last 14 days

## Summary of Clusters in Kerala

DISTRICT	TRIVANDRUM	KOLLAM	PATHANAMTHITTA	ALAPPUZHA	KOTTAYAM	IDUKKI	ERNAKULAM	THRISSUR	PALAKKAD	MALAPURAM	KOZHIKODE	WAYANAD	KANNUR	KASARAGOD	TOTAL
Total Clusters	45	21	5	11	5	6	16	18	4	7	15	3	6	12	174
Active Clusters	38	14	5	10	4	5	14	14	1	5	13	3	5	11	142
Contained Clusters	7	7	0	1	1	1	2	4	3	2	2	0	1	1	32
Large Community	10	7	1	2	0	0	2	0	1	1	1	0	0	3	28
Limited Community	15	7	1	4	4	3	9	7	0	2	12	3	0	8	75
Closed Community	2	0	1	1	0	0	3	7	0	2	0	0	2	0	18
Institution	11	0	2	3	0	2	0	0	0	0	0	0	3	0	21
Total Tests performed in the cluster	25085	12567	1694	6540	4806	2171	5996	5344	7107	11779	9322	2496	2127	2910	88165
Total Number of Cases from the Cluster	3579	708	516	677	261	186	882	376	405	287	564	247	340	397	9138
Total deaths due to COVID in the cluster	34	2	0	2	0	1	8	1	0	0	3	0	3	2	56

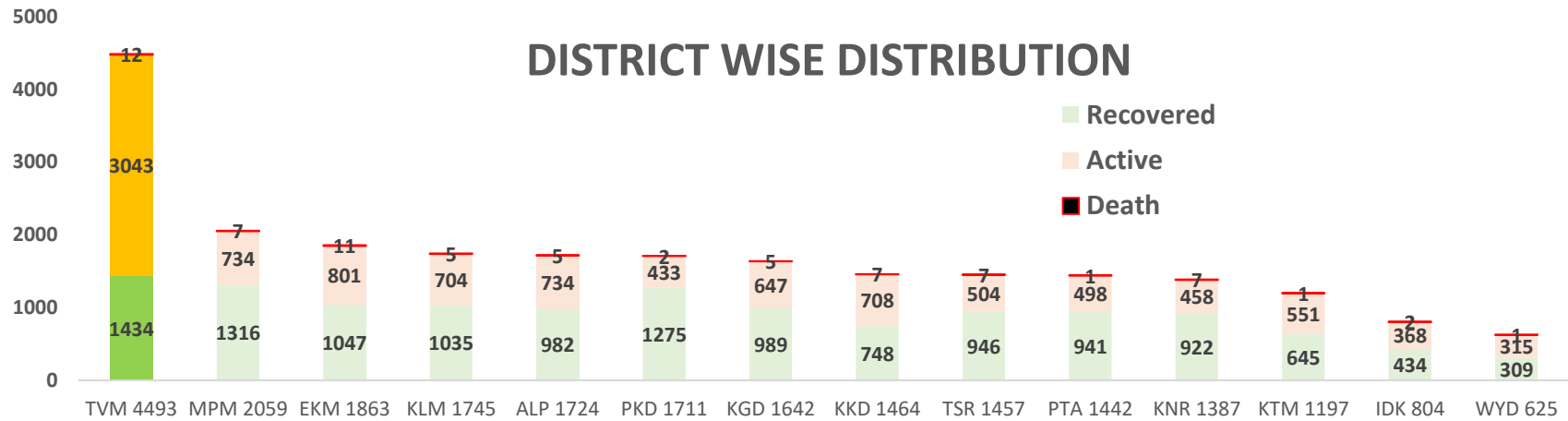


## THIRUVANANTHAPURAM

### Thiruvananthapuram - COVID scenario

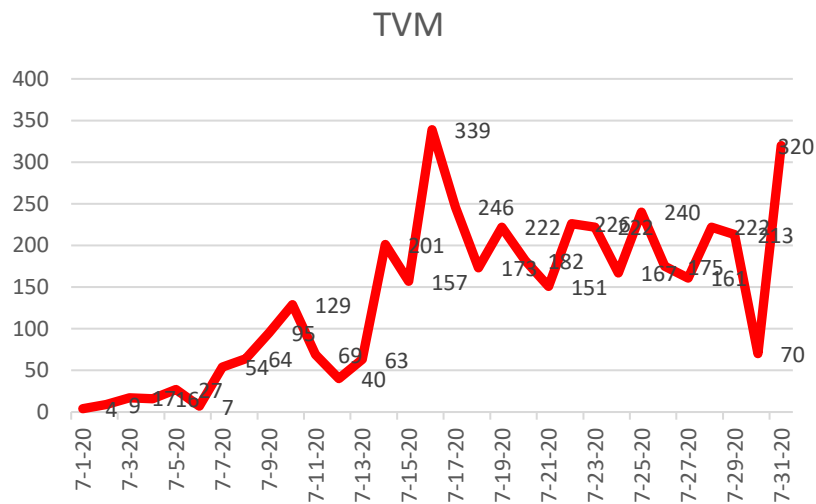
	KERALA	TVM	Percentage
Population 2011 census	33406061	33,01,427	9.88
Total Number of CONFIRMED Cases	23613	4493	19.03
Total cases recovered	13023	1434	11.01
Deaths	73	12	16.44
Total Active Cases	10498	3043	28.99
Cases per 1 lakh population	71	136	
Case fatality % (death/cases)	0.31	0.27	
<b>TYPE OF CASE</b>			
IMPORT (Travelled to Kerala)	9606	411	4.28
THROUGH CONTACT	14007	4084	29.16
TOTAL	23613	4495	19.04
Proportion of Locally Acquired Cases %	59.32	90.86	
Imported: Locally Acquired Ratio	0.69	0.10	
<b>SURVEILLANCE</b>			
Total people currently under observation	58702	2663	4.54
Primary contacts	45581	1779	3.90
Secondary contacts	13121	884	6.74

Thiruvananthapuram constituted 4281 (22 %) of COVID cases reported in July 2020 and 19 % of total cases in the state.

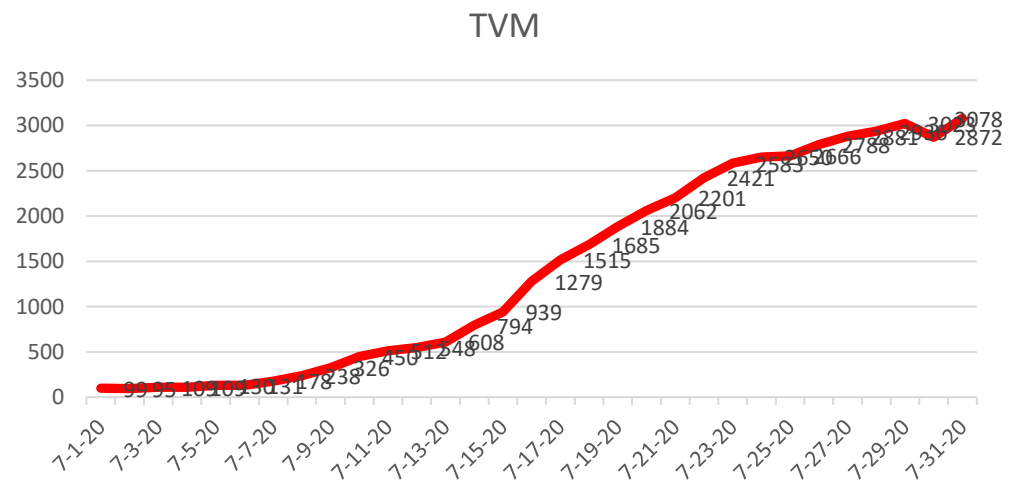


Recovery rate is 32 % as on 31-07-2020

#### Daily new cases – JULY 2020

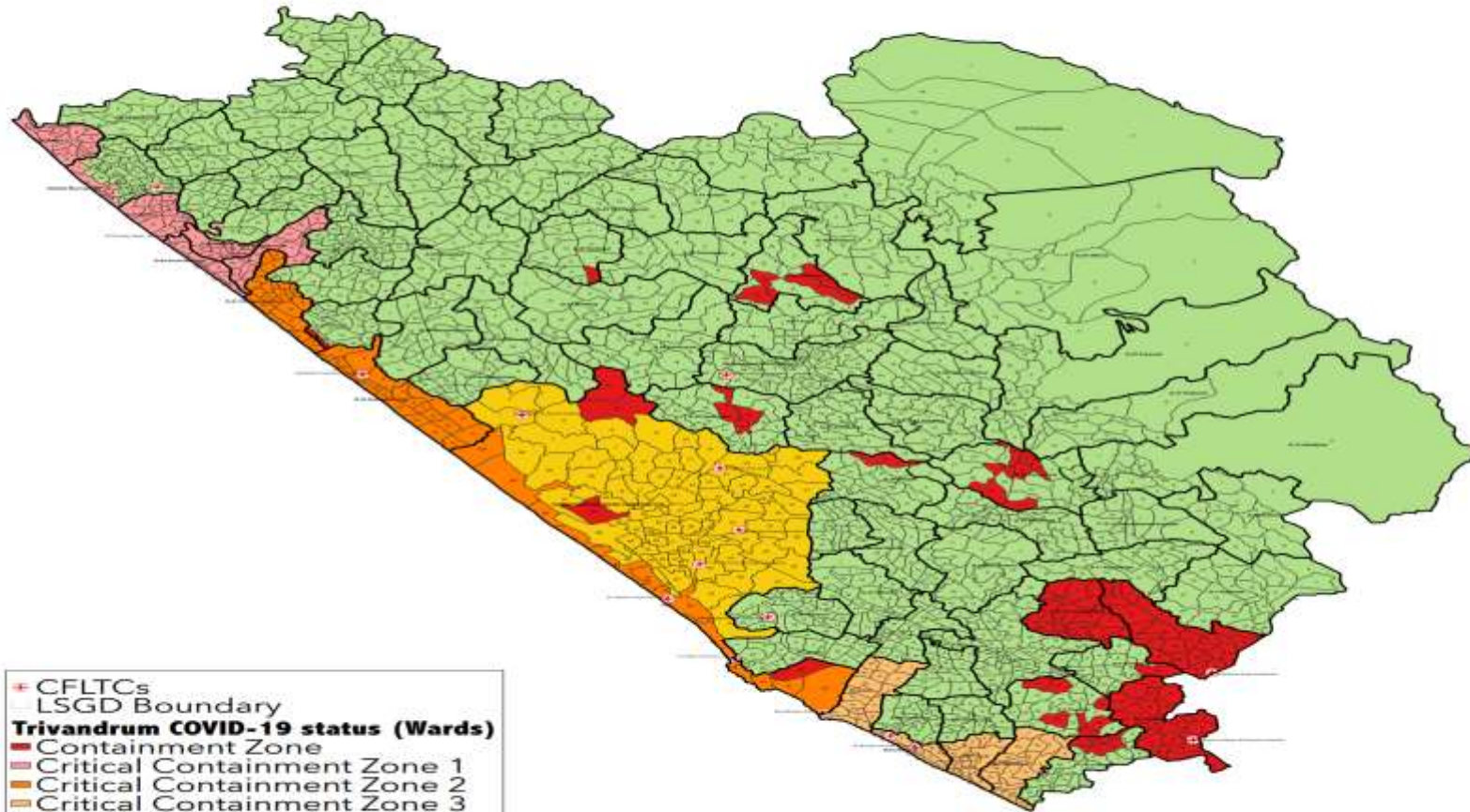


#### Active cases – JULY 2020



# KERALA COVID-19

CRITICAL CONTAINMENT ZONES, CONTAINMENT ZONES AND CFLTCs



- ✚ CFLTCs
- LSGD Boundary
- Trivandrum COVID-19 status (Wards)**
- Containment Zone
- Critical Containment Zone 1
- Critical Containment Zone 2
- Critical Containment Zone 3
- Lockdown zone
- Non-Containment Zones

CONTAINMENT ZONES AS OF  
21/07/2020

NOTE: The map is a graphical representation designed for general purposes only and not to be claimed as a legal document.

	Large Community Clusters	Limited Community Clusters	Institutional Clusters	Closed Community Clusters	Total
<b>Total Number</b>	9	21	13	2	41
<b>Active</b>	9	16	11	1	36
<b>Contained</b>	0	5	2	1	8
<b>Total Locally acquired Cases</b>	2272	870	322	114	3578
<b>Total Deaths</b>	31	3	0	0	34

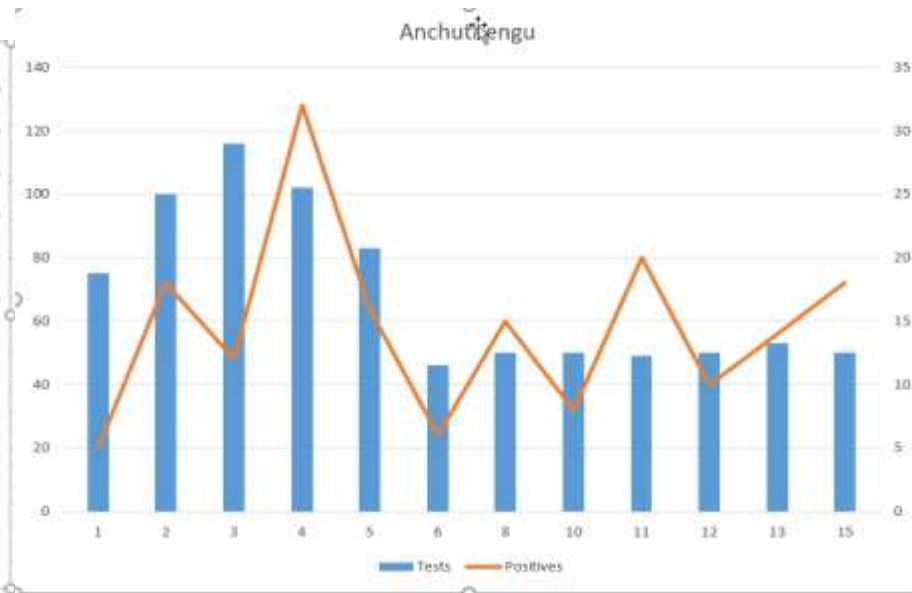
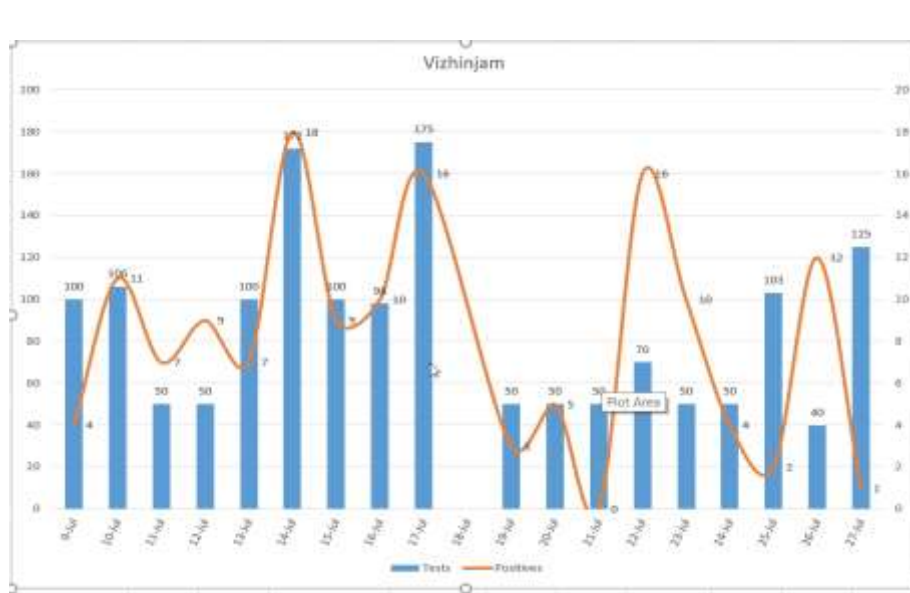
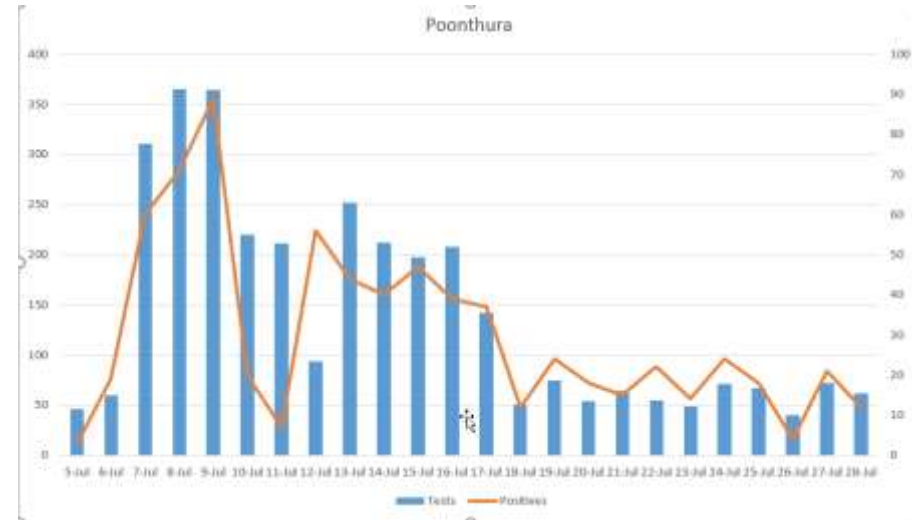
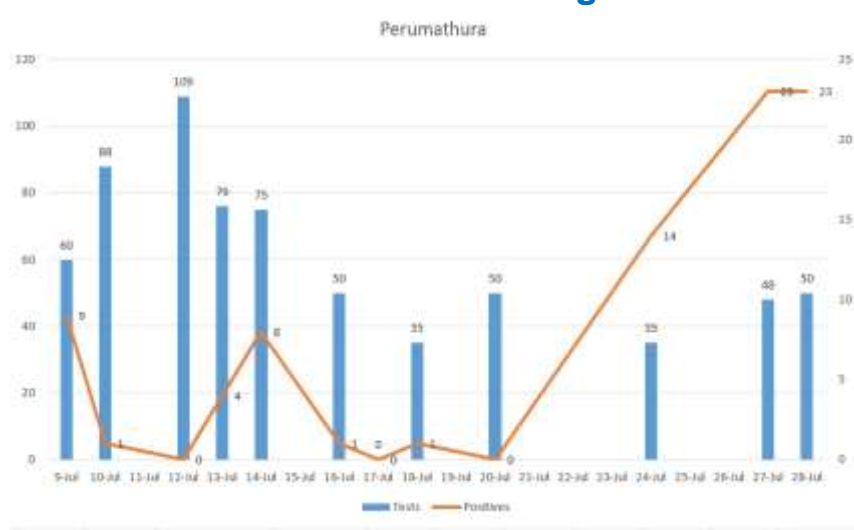
Name of Cluster	Type of Cluster	Total Tests performed in the cluster	Total Number of Cases from the Cluster	Number of tests done on from 29-31 <sup>st</sup> July	Number of locally acquired cases reported in 29-31 <sup>st</sup> July	Total deaths due to COVID in the cluster	Current Status of Cluster	Trend in Cluster based on Number of locally acquired cases
<b>Attukal</b>	Limited Community	563	26	0	0	0	Contained	
<b>Poonthura</b>	Large Community	3358	671	127	32	13	Active	Increasing
<b>Venganoor panchayath</b>	Limited Community	240	18	0	0	1	Active	Increasing
<b>Manacadu</b>	Limited Community	726	24	0	0	0	Contained	
<b>Palayam</b>	Limited Community	337	6	0	0	0	Contained	
<b>Venganoor (Corp area , vizhinjam, harbor, kottappuram</b>	Large Community	1445	205	50	12	1	Active	Increasing

<b>Thiruvallam, vellar</b>	Limited Community	571	46	54	9	2	Active	Static
<b>Karakulam</b>	Limited Community	181	16			0	Active	Static
<b>Valiyathura(87,77,76)</b>	Large Community	1093	159	150	53	0	Active	Increasing
<b>Azhoor GP (ward 1)</b>	Limited Community	186	10	0	0	0	Active	Static
<b>Amachal</b>	Limited Community	442	22	81	4	0	Active	static
<b>Kulathoor GP (9-14)</b>	Large Community	567	83	120	13	0	Active	Increasing
<b>Veli</b>	Limited Community	247	25	98	2	0	Active	Static
<b>Anchuthengu GP</b>	Large Community	1028	212	99	34	0	Active	Increasing
<b>Chiranyinkeezhu GP (5-14)</b>	Limited Community	799	124	50	23	0	Active	Increasing
<b>Karumkulam</b>	Large Community	1310	569	169	86	15	Active	Increasing
<b>Kadinamkulam GP</b>	Limited Community	1242	200	331	78	0	Active	Increasing
<b>Panavoor GP</b>	Limited Community	344	10	0	0	0	Contained	

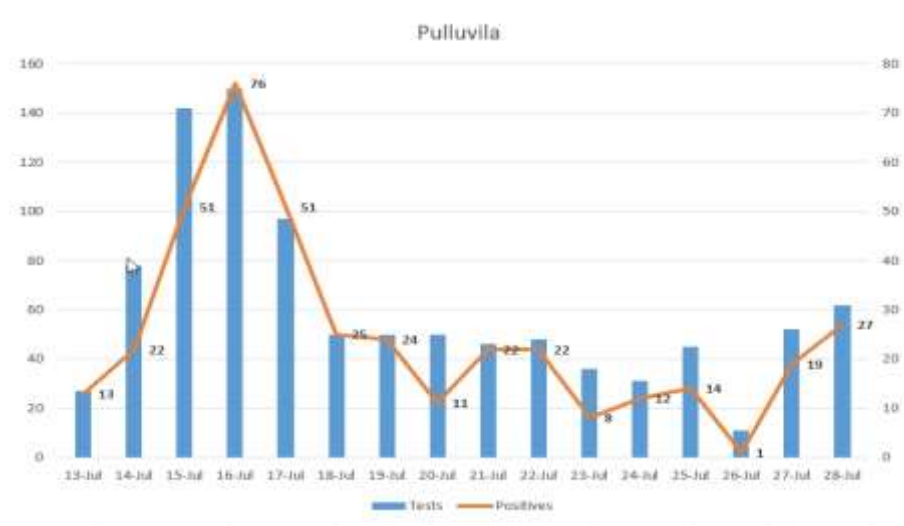
<b>Kunnathukal GP (19)</b>	Limited Community	136	58	152	22	0	Active	Static
<b>Parassala GP</b>	Large Community	750	182	116	13	2	Active	Increasing
<b>Kadakkavoor (9)</b>	Limited Community	250	35	0	0	0	Active	Static
<b>TQH parassala</b>	Institutions	0	0	27	4	0	Active	Increasing
<b>W &amp; C thycaud</b>	Institutions	133	3	4	0	0	Active	Static
<b>Aryanad GP</b>	Limited Community	936	15	0	0	0	Contained	
<b>Kollayil</b>	Limited Community	50	9	125	7	0	Active	Static
<b>Varkkala Municipality</b>	Limited Community	1547	58	0	0	0	Active	Static
<b>Poovar</b>	Large Community	464	91	109	11	0	Active	Increasing
<b>Poovachal panchayath</b>	Limited Community	450	32	98	10	0	Active	Increasing
<b>Kallikkadu</b>	Limited Community	315	36	81	0	0	Active	Increasing
<b>Old age home pulluvila</b>	Closed Community	56	36	56	36	0	Active	
<b>VSSC</b>	Institutions		4	0	0	0	Contained	

<b>NIMS Medicity</b>	Institutions	NA	63			0	Active	Decreasing
<b>Jubilee memorial hospital</b>	Institutions	NA	4	0	0	0	Active	Decreasing
<b>KIMS</b>	Institutions	2924	66			0	Active	Decreasing
<b>RCC</b>	Institutions	NA	9	0	0	0	Active	Decreasing
<b>Ramachandra attakkulangara</b>	Closed Community	180	78	0	0	0	Contained	
<b>Govt medical college</b>	Institutions	NA	53			0	Active	static
<b>Padmanabhaswamy temple</b>	Institutions	160	10	0	0	0	Active	Decreasing
<b>sree Gokulam</b>	Institutions	5	6	0	0	0	Active	Decreasing
<b>Saraswathy hospital parassala</b>	Institutions	75	3	0	0	0	Contained	
<b>KINFRA</b>	Institutions	398	103	398	103	0	Active	Static
<b>Kallikkadu</b>	Limited	350	36			0	Acive	Increasing
<b>Kattakkada KSRTC Depot</b>	Institution	97	8	97	8	0	Acive	Static
<b>Kottukal</b>	Large	350	129	52	11	0	Acive	Static
<b>Chala</b>	Limited	780	26	50	1	0	Active	Static

## Trend of Cases and Tests in Large Clusters



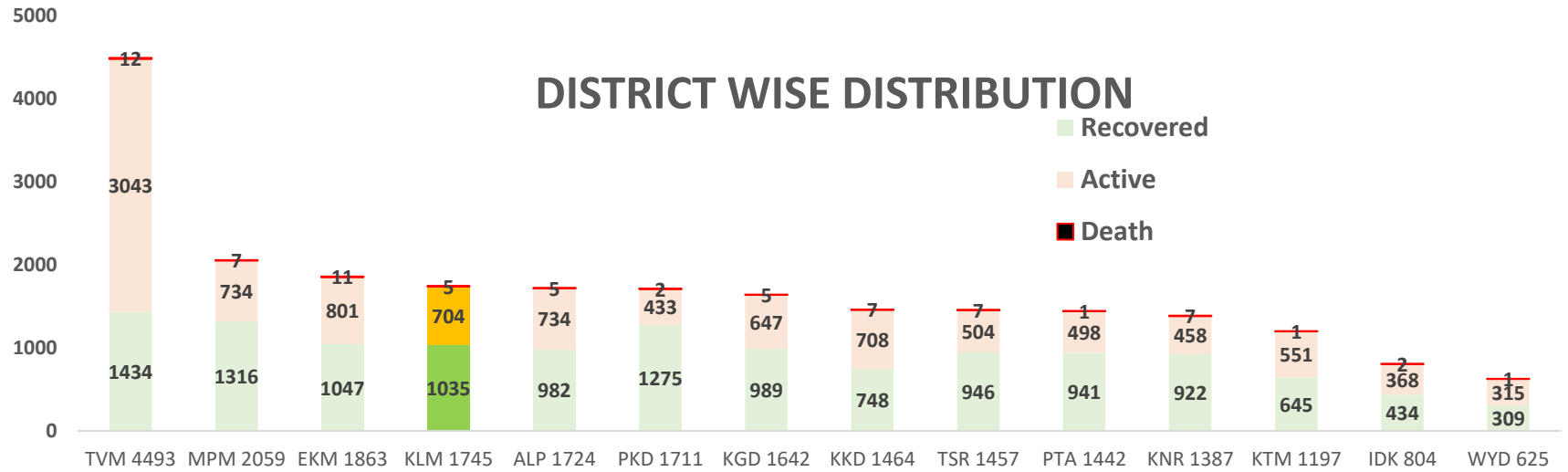




**KOLLAM**  
Kollam - COVID scenario

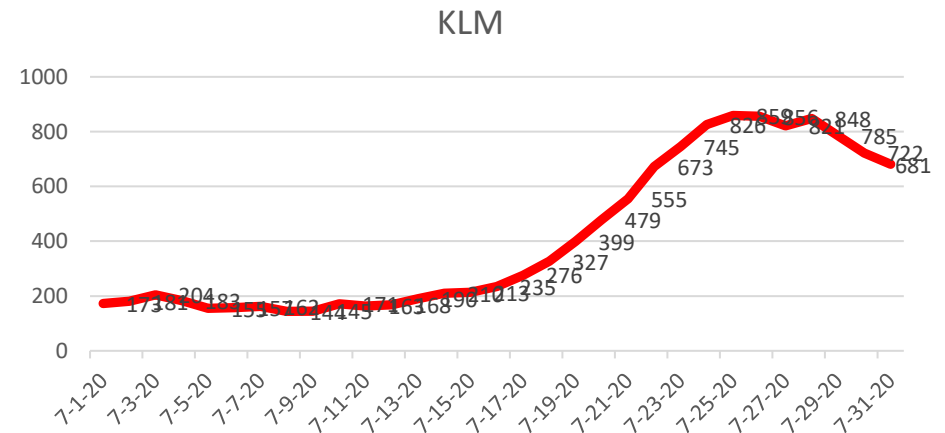
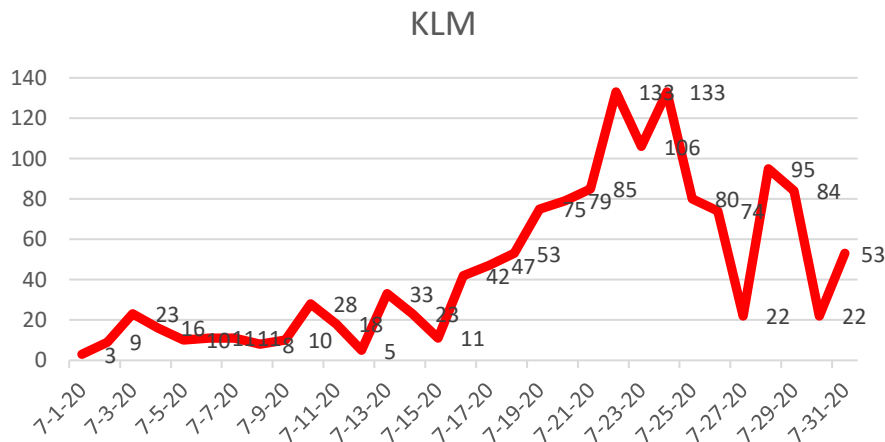
	<b>KERALA</b>	<b>KLM</b>	<b>Percentage</b>
<b>Population 2011 census</b>	33406061	26,35,375	7.89
<b>Total Number of CONFIRMED Cases</b>	23613	1745	7.39
<b>Total cases recovered</b>	13023	1035	7.95
<b>Deaths</b>	73	5	6.85
<b>Total Active Cases</b>	10498	704	6.71
<b>Cases per 1 lakh population</b>	71	66	
<b>Case fatality % (death/cases)</b>	0.31	0.29	
<b>TYPE OF CASE</b>			
<b>IMPORT (Travelled to Kerala)</b>	9606	603	6.28
<b>THROUGH CONTACT</b>	14007	1141	8.15
<b>TOTAL</b>	23613	1744	7.39
<b>Proportion of Locally Acquired Cases %</b>	59.32	65.42	
<b>Imported: Locally Acquired Ratio</b>	0.69	0.53	
<b>SURVEILLANCE</b>			
<b>Total people currently under observation</b>	58702	2455	4.18
<b>Primary contacts</b>	45581	2066	4.53
<b>Secondary contacts</b>	13121	389	2.96

Kollam constituted 1402 (7 %) of COVID cases reported in July 2020 and 7.39 % of total cases in the state.



Recovery rate is 59.3 % as on 31-07-2020

**Daily new cases – JULY 2020    Active cases – JULY 2020**



# Active Clusters\_Kollam

Untitled layer

- Sasthamcotta
- Chavara
- Anchal
- Veroor
- Edamolackal
- Thalachira
- Puzhikara
- Alappad
- Elamadu
- Chithara
- Kottarakkara
- Ittira
- Thazhava
- Kulathapuzha

**Red-Large Cluster**  
**Green-Limited Cluster**



	Large Community Clusters	Limited Community Clusters	Institutional Clusters	Closed Community Clusters	Total
<b>Total Number</b>	7	14	1	0	22
<b>Active</b>	7	7	1	0	14
<b>Contained</b>	0	7	0	0	7
<b>Total Locally acquired Cases</b>	436	258	14	0	694
<b>Total Deaths</b>	25	5	0	0	30
<b>% of Total Cases reported in active clusters in July out of total new cases reported in the district in July</b>	30.3%	14.1%	0	0	44.5

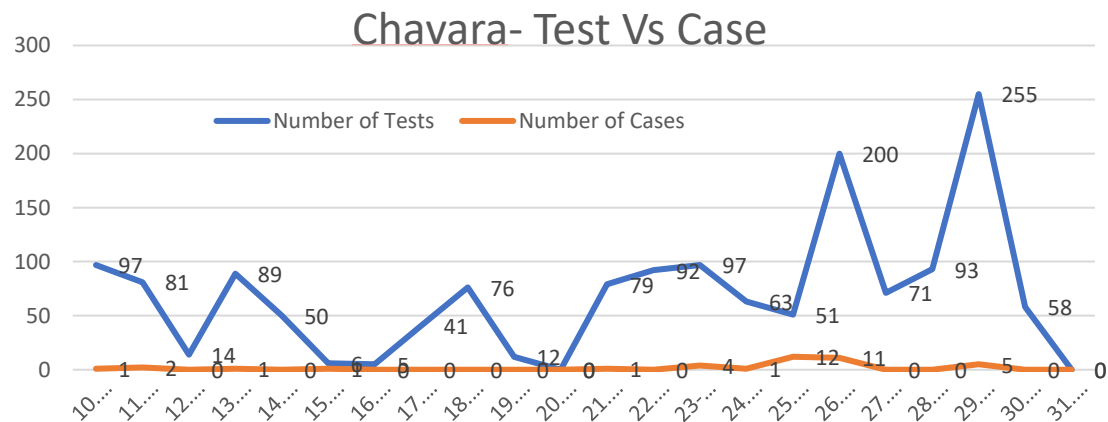
Name of Cluster	Type of Cluster (Large/Limited/Institutional/Closed)	Total Tests performed in the cluster	Total Number of Cases from the Cluster	Number of tests done on from 29-31 <sup>st</sup> July	Number of locally acquired cases reported in 29-31 <sup>st</sup> July	Total deaths due to COVID in the cluster	Current Status of Cluster	Trend in Cluster based on Number of locally acquired cases
<b>Chathanoor</b>	Limited Community	108	5	0	0	0	Contained	NA
<b>Kalluvathukkal</b>	Limited Community	244	5	0	0	0	Contained	NA
<b>Kadakkal</b>	Limited Community	184	3	0	0	0	Contained	NA

<b>Kulathupuzha</b>	Limited Community	152	3	0	0	0	Contained	NA
<b>Padappakkara</b>	Limited Community	15	5	0	0	0	Contained	NA
<b>Nedumpana</b>	Limited Community	229	14	0	0	1	Contained	NA
<b>Eravipuram /Valathungal</b>	Limited Community	406	29	0	0	1	Contained	NA
<b>Sasthamcottah</b>	Large Community	2208	52	87	0	0	Active	Decreasing
<b>Chavara/Panmana</b>	Large Community	1082	48	58	0	0	Active	Decreasing
<b>Anchal</b>	Large Community	1526	47	165	1	0	Active	Decreasing
<b>Yeroor</b>	Large Community	396	35	39	1	0	Active	Decreasing
<b>Edamulakkal</b>	Large Community	253	40	39	8	0	Active	Static
<b>Thalachira</b>	Large Community	1122	144	47	1	0	Active	Decreasing
<b>Pozhikkara</b>	Limited Community	577	16	70	0	0	Active	Decreasing
<b>Azheekal/Alappad</b>	Limited Community	981	59	55	0	0	Active	Decreasing
<b>Elamad</b>	Limited Community	605	32	97	3	0	Active	Static
<b>Chithara/Mancode</b>	Limited Community	698	31	62	0	0	Active	Decreasing
<b>Kottarakkara Municipality</b>	Large Community	1003	70	24	4	0	Active	Decreasing
<b>Ittiva</b>	Limited Community	300	20	40	1	0	Active	Decreasing
<b>Thazhava</b>	Limited Community	130	8	130	8	0	Active	Decreasing
<b>Kulathupuzha</b>	Limited Community	323	28	323	28	0	Active	Increasing
<b>District Jail</b>	Institutional Cluster	25	14	25	14	0	Active	Increasing

## Trend in large clusters

### Chavara

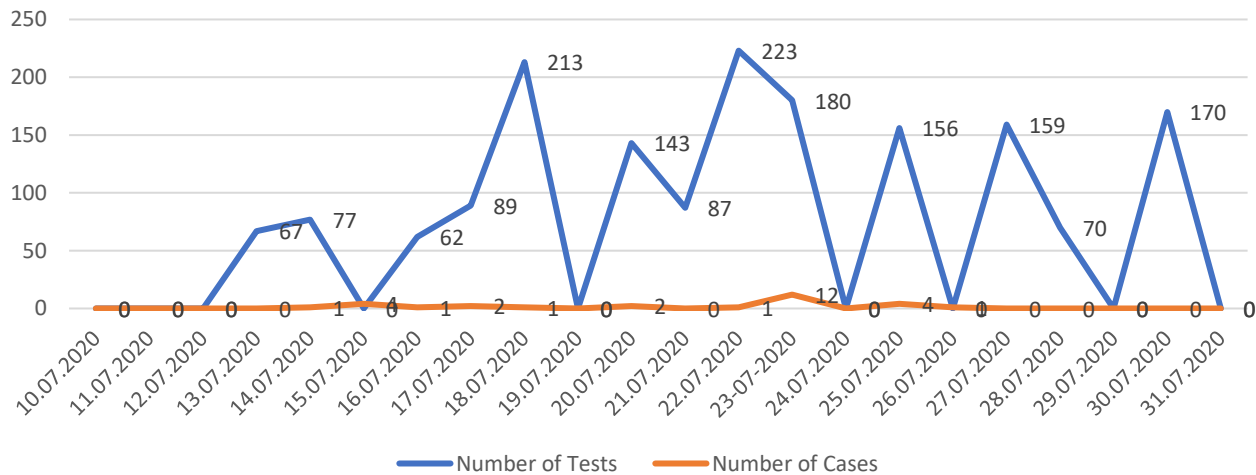
WEEK	A. Total Tests B. Performed	C. Total Locally D. acquired cases	C. Test Positivity Rate (B/A*100%)
Week 2 (Date from 09/07/20 to 16/07/20)	342	5	1.4
Week 3 (Date from 17/07/20 to 24/07/20)	460	6	1.3
Week 4 (Date from 25/07/20 to 31.07.2020)	82	28	4.2
Total	884	39	2.6



### Anchal

	A. Total Tests Performed	B. Total Locally acquired cases	C. Test Positivity Rate (B/A*100%)
Week 2 (Date from 09/07/20 to 16/07/20)	295	8	2.7
Week 3 (Date from 17/07/20 to 24/07/20)	846	20	2.3
Week 4 (Date from 25/07/20 to 31.07.2020)	385	5	1.2
Total	1526	33	2.1

Anchal- Test Vs Case

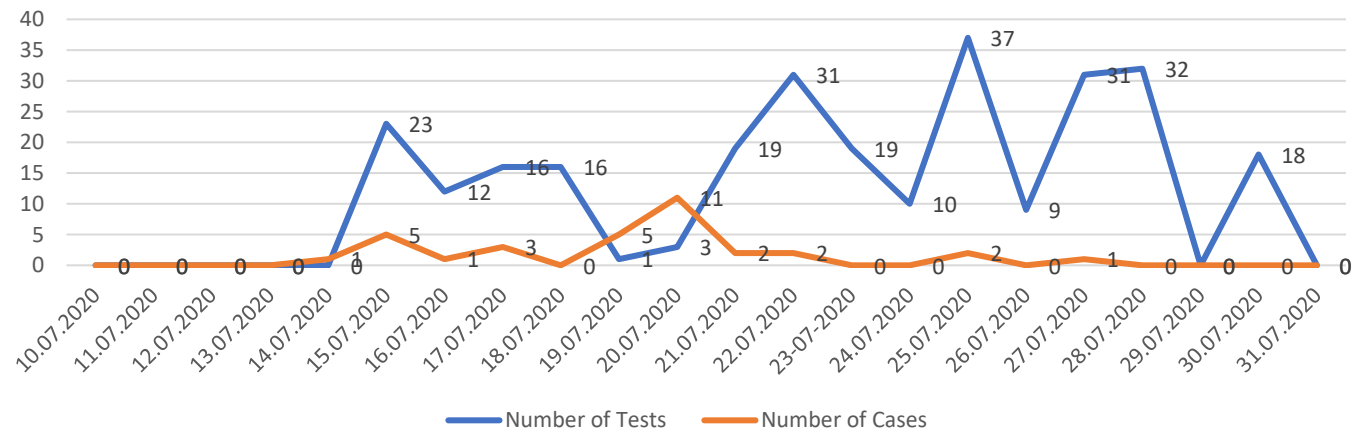




## Yeroor

	A. Total Tests Performed	B. Total Locally acquired cases	C. Test Positivity Rate (B/A*100%)
Week 2 (Date from 09/07/20 to 16/07/20)	35	7	20
Week 3 (Date from 17/07/20 to 24/07/20)	115	23	20
Week 4 (Date from 25/07/20 to 30.07.2020)	109	3	2.7
Total	259	33	12.

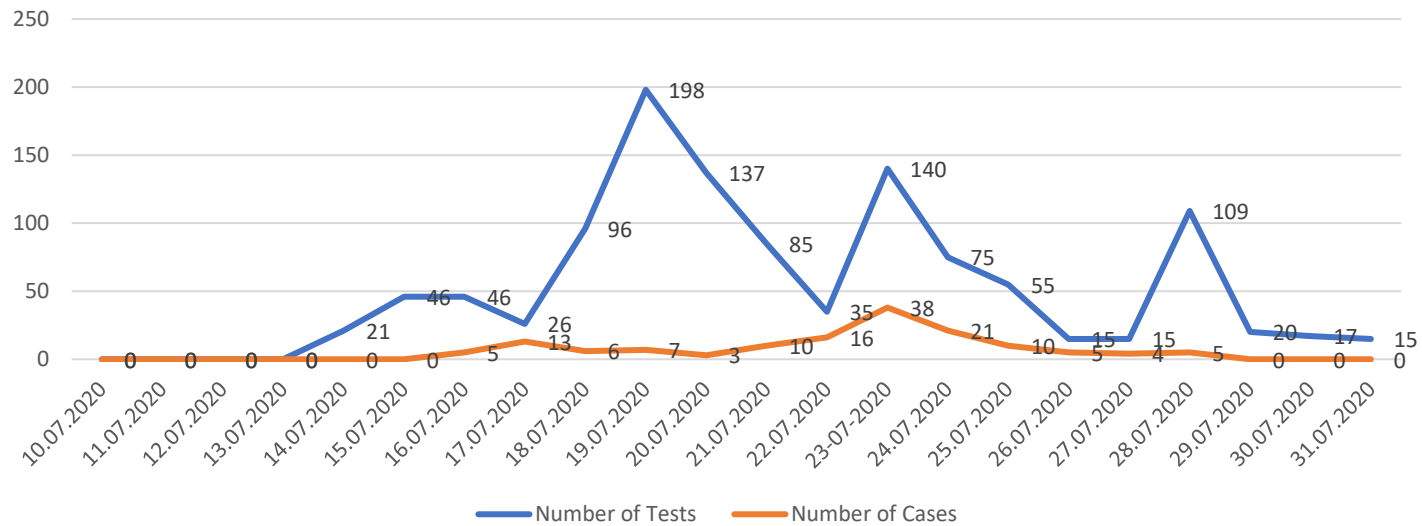
### Yeroor-Test vs Case



## Edamulakkal

	A. Total Tests Performed	B. Total Locally acquired cases	C. Test Positivity Rate (B/A*100%)
Week 2 (Date from 09/07/20to 16/07/20)	67	0	0
Week 3 (Date from17/07/20 to 24/07/70)	792	114	14.3
Week 4(Date from25/07/20 to 31.07.2020)	229	24	10.4
Total	1088	138	12.6

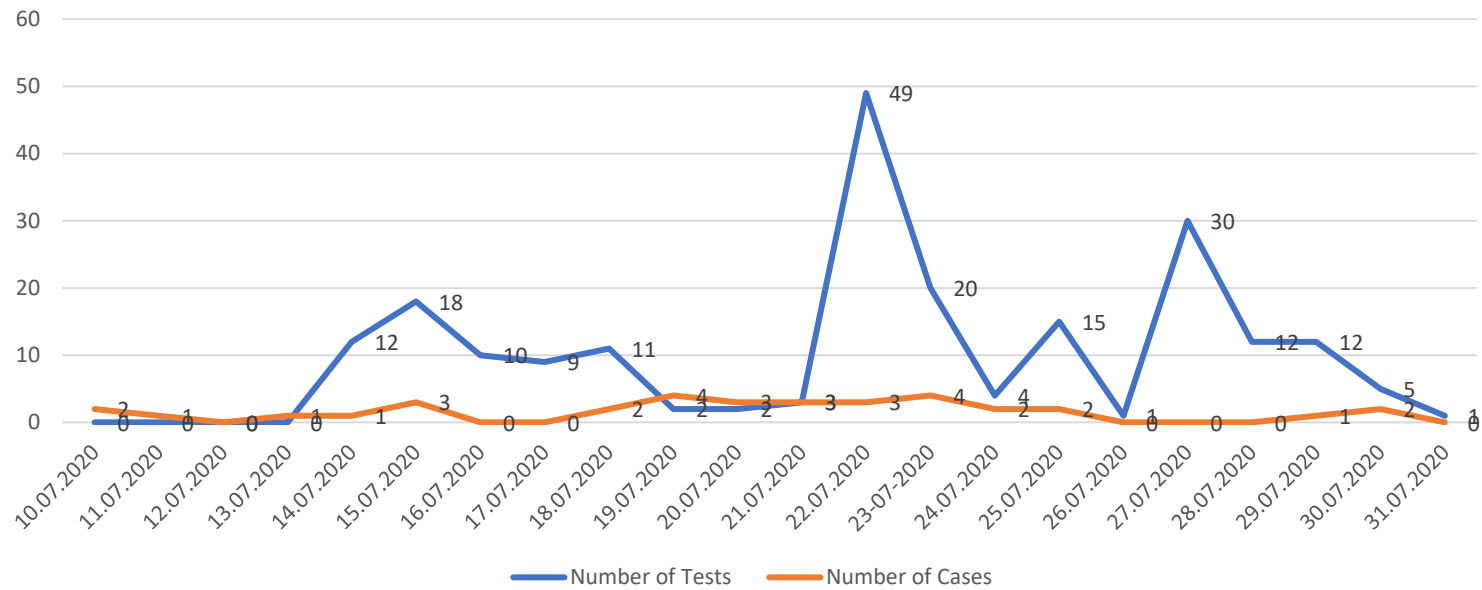
### Thalachira-Test vs Case



## Kottarakara

	A. Total Tests Performed	B. Total Locally acquired cases	C. Test Positivity Rate (B/A*100%)
Week 2 (Date from 09/07/20 to 16/07/20)	40	8	20
Week 3 (Date from 17/07/20 to 24/07/20)	100	21	21
Week 4 (Date from 25/07/20 to 31.07.2020)	71	3	4.2
Total	211	32	15.1

Edamulakkal-Test vs Case

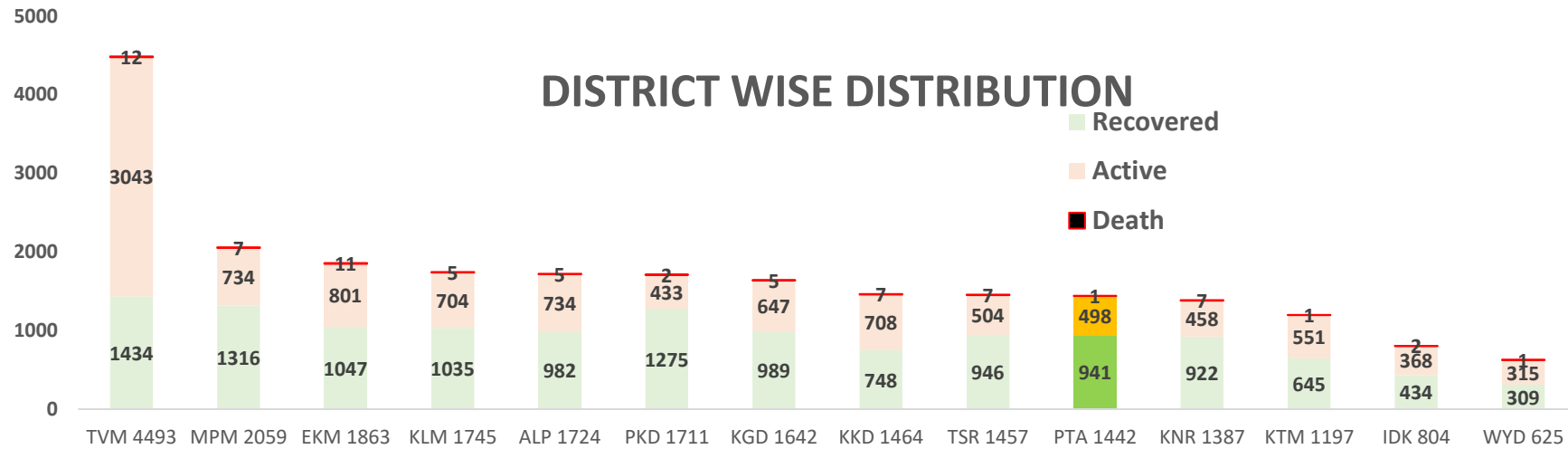


## PATHANAMTHITTA

### Pathanamthitta - COVID scenario

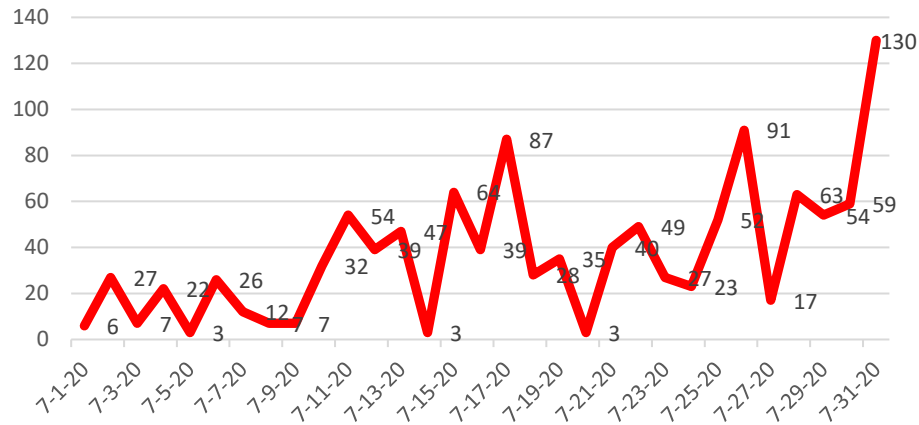
	<b>KERALA</b>	<b>PTA</b>	<b>Percentage</b>
<b>Population 2011 census</b>	33406061	11,97,412	3.58
<b>Total Number of CONFIRMED Cases</b>	23613	1442	6.11
<b>Total cases recovered</b>	13023	941	7.23
<b>Deaths</b>	73	1	1.37
<b>Total Active Cases</b>	10498	498	4.74
<b>Cases per 1 lakh population</b>	71	120	
<b>Case fatality % (death/cases)</b>	0.31	0.07	
<b>TYPE OF CASE</b>			
<b>IMPORT (Travelled to Kerala)</b>	9606	747	7.78
<b>THROUGH CONTACT</b>	14007	695	4.96
<b>TOTAL</b>	23613	1442	6.11
<b>Proportion of Locally Acquired Cases %</b>	59.32	48.20	
<b>Imported: Locally Acquired Ratio</b>	0.69	1.07	
<b>SURVEILLANCE</b>			
<b>Total people currently under observation</b>	58702	1803	3.07
<b>Primary contacts</b>	45581	757	1.66
<b>Secondary contacts</b>	13121	1046	7.97

Pathanamthitta constituted 1153 (6 %) of COVID cases reported in July 2020 and 6.11 % of total cases in the state.



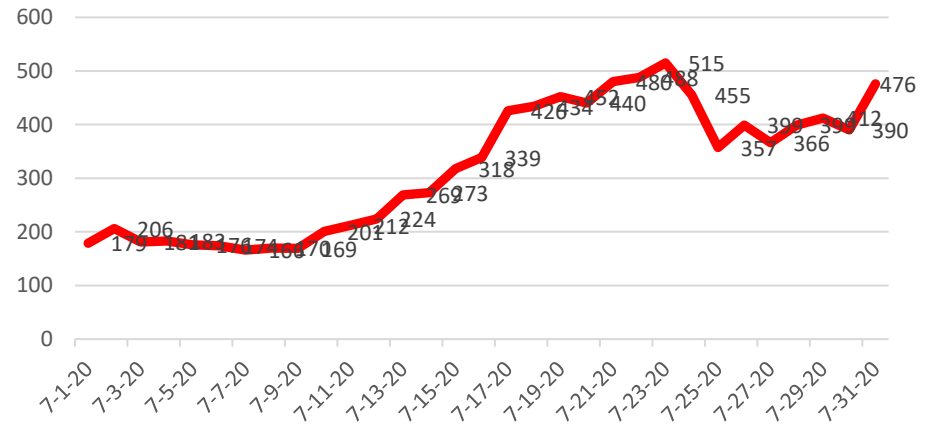
Recovery rate is 65.3 % as on 31-07-2020  
**Daily new cases – JULY 2020**

PTA



**Active cases – JULY 2020**

PTA

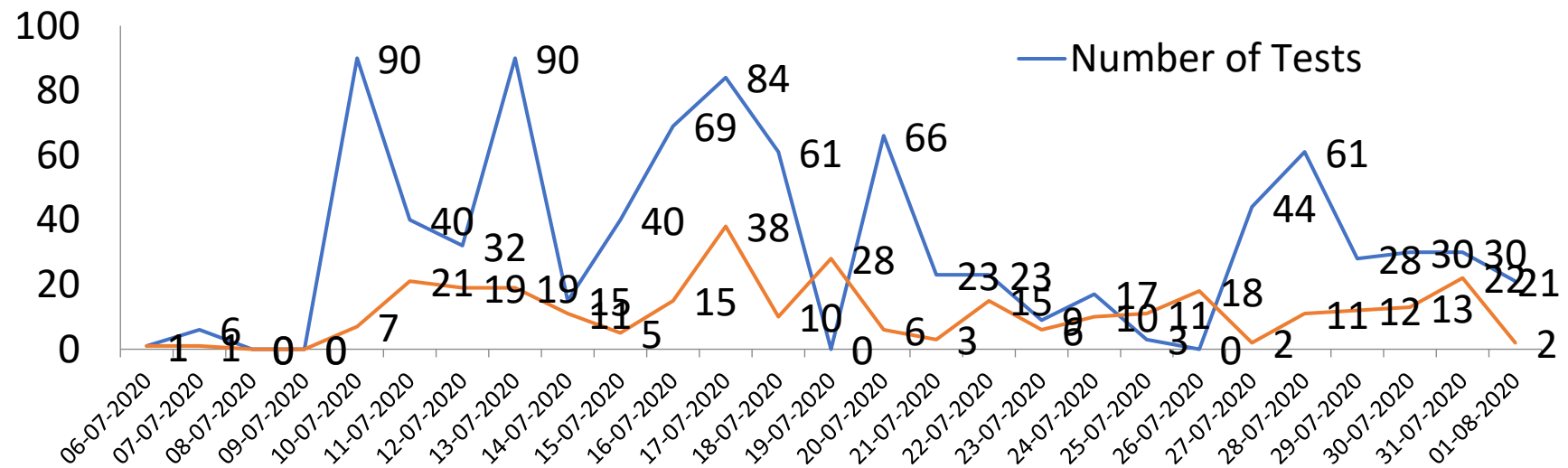




<b>Name of Cluster</b>	<b>Type of Cluster (Large/Limited/Institutional/Closed)</b>	<b>Total Tests performed in the cluster</b>	<b>Total Number of Cases from the Cluster</b>	<b>Number of tests done on from 30 july-01 Aug</b>	<b>Number of locally acquired cases reported in 30 july-01 Aug</b>	<b>Total deaths due to COVID in the cluster</b>	<b>Current Status of Cluster (Active/Contained-Contained if no locally acquired cases in last 7 days)</b>	<b>Trend in Cluster based on Number of locally acquired cases</b>
<b>Kumbazha Market area</b>	Large Community	832	309	87	37	0	Active	Decreasing
<b>Thukalassery Holyspirit Cluster</b>	Institutions	162	45	125	0	0	contained	Static
<b>GH Adoor</b>	Institutions	287	91	79	34	0	Active	Increasing
<b>AR Camp PTA</b>	Closed Community	141	10	59	3	0	Active	Increasing
<b>Kottangal Cluster</b>	Limited Community	159	31	77	31	0	Active	Increasing
<b>Kuttapuzha Cluster</b>	Limited Community	113	30	96	24	0	Active	Increasing

## Kumbazha

	A. Total Tests Performed	B. Total Locally acquired cases	C. Test Positivity Rate (B/A*100%)
Week 1 (Date from 06-07-2020 to 13-07-2020)	259	68	26
Week 2 (Date from 14-07-2020 to 21-07-2020)	358	116	32
Week 3 (Date from 22-07-2020 to 29-07-2020)	185	85	46
Week 4 (Date from 30-07-2020 to 01-08-2020)	81	37	46
Total	883	309	35



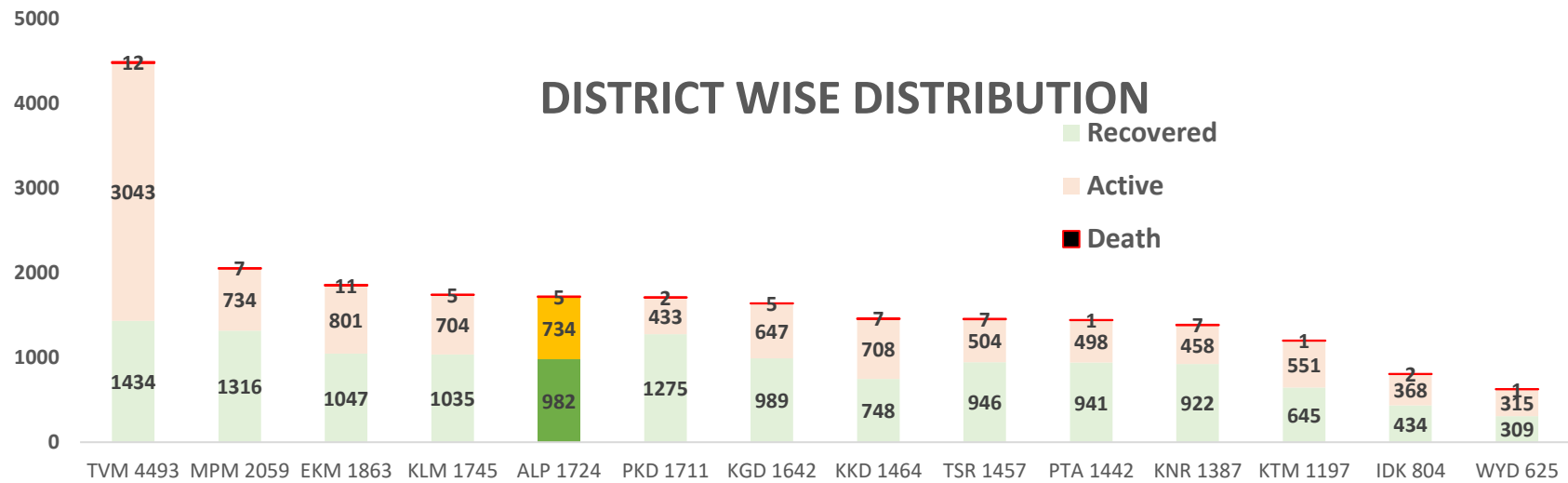


## ALAPPUZHA

### Alappuzha - COVID scenario

	KERALA	ALP	Percentage
Population 2011 census	33406061	21,27,789	6.37
Total Number of CONFIRMED Cases	23613	1724	7.30
Total cases recovered	13023	982	7.54
Deaths	73	5	6.85
Total Active Cases	10498	734	6.99
Cases per 1 lakh population	71	81	
Case fatality % (death/cases)	0.31	0.29	
<b>TYPE OF CASE</b>			
IMPORT (Travelled to Kerala)	9606	805	8.38
THROUGH CONTACT	14007	919	6.56
TOTAL	23613	1724	7.30
Proportion of Locally Acquired Cases %	59.32	53.31	
Imported: Locally Acquired Ratio	0.69	0.88	
<b>SURVEILLANCE</b>			
Total people currently under observation	58702	3875	6.60
Primary contacts	45581	2666	5.85
Secondary contacts	13121	1209	9.21

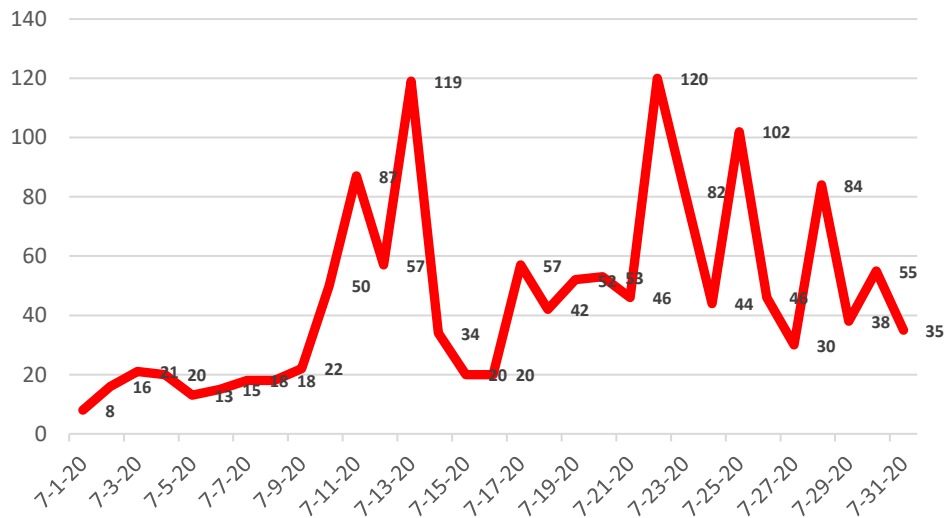
Alappuzha constituted 1424 (8 %) of COVID cases reported in July 2020 and 7.3 % of total cases in the state.



Recovery rate is 56.9 % as on 31-07-2020

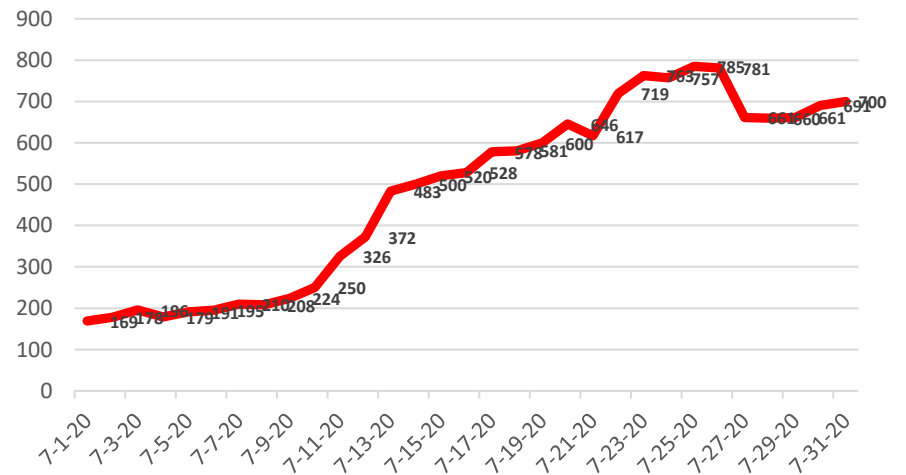
**Alappuzha daily new cases – JULY**

ALP



**2020 Active cases – JULY 2020**

ALP





**Large Cluster**

- 1, Kayamkulam Municipality
- 2, Pallithode
- 3, Chettikad
- 4, Kadakkarapally

**Limited Cluster**

- 1, Mavelikkara Kurathikad
- 2, Pallipad
- 3, Punnapra North

**Closed Community Cluster**

- 1, ITBP Nooranad

**Institutional**

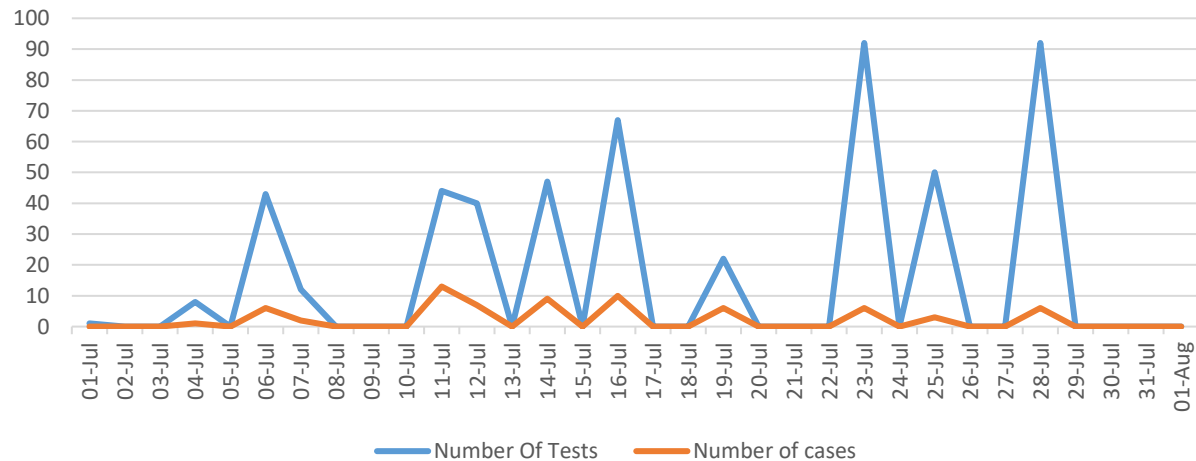
- 1, Alappuzha South Police Station
- 2, Cherthala THQH
- 3, AFDC Ezhupunna

Name of Cluster	Type of Cluster (Large/Limited/ Institutional/ Closed)	Total Tests performed in the cluster	Total Number of Cases from the Cluster	Number of tests done on from 30thjuly -1 <sup>st</sup> Aug	locally acquired cases reported in 30thjuly -1 <sup>st</sup> Aug	Total deaths due to COVID in the cluster	Current Status of Cluster (Active/Contained- Contained if no locally acquired cases in last 7 days)	Trend in Cluster based on Number of locally acquired cases
<b>Kayamkulam Municipality</b>	Large	1434	101	17	1	0	Active	Decreasing
<b>ITBP Nooranad</b>	Closed	640	169	0	0	0	Active	Decreasing
<b>Pallithode</b>	Large	526	69	0	6	1	Active	Decreasing
<b>AFDC Company Ezhupunna</b>	Institution	880	109	10	0	0	Active	Decreasing
<b>THQH Cherthala</b>	Institution	465	15	0	0	0	Contained	Decreasing
<b>Mavelikkara Kurathikad</b>	Limited	273	12	0	0	0	Contained	Decreasing
<b>Kadakkrapally</b>	Large	430	55	200	28	0	Active	Increasing
<b>Chettikad</b>	Large	1034	86	361	11	1	Active	Increasing
<b>Alappuzha South Police station</b>	Institution	228	17	34	0	0	Active	Static
<b>Punnapra North</b>	Limited	414	23	179	6	0	Active	Increasing
<b>Pallipad</b>	Limited	216	21	125	7	0	Active	Increasing

**Name of Cluster - Pallithode**

	<b>A. Total Tests Performed</b>	<b>B. Total Locally acquired cases</b>	<b>C. Test Positivity Rate (B/A*100%)</b>
Week 1 (Date from 01/07/20to 08/07/20)	64	9	14%
Week 2 (Date from 09/07/20to 16/07/20)	198	39	20%
Week 3 (Date from17/07/20 to 24/07/20)	114	12	19%
Week 4(Date from25/07/20 to 30/07/20)	142	9	4%
<b>Total</b>	<b>518</b>	<b>69</b>	<b>13%</b>

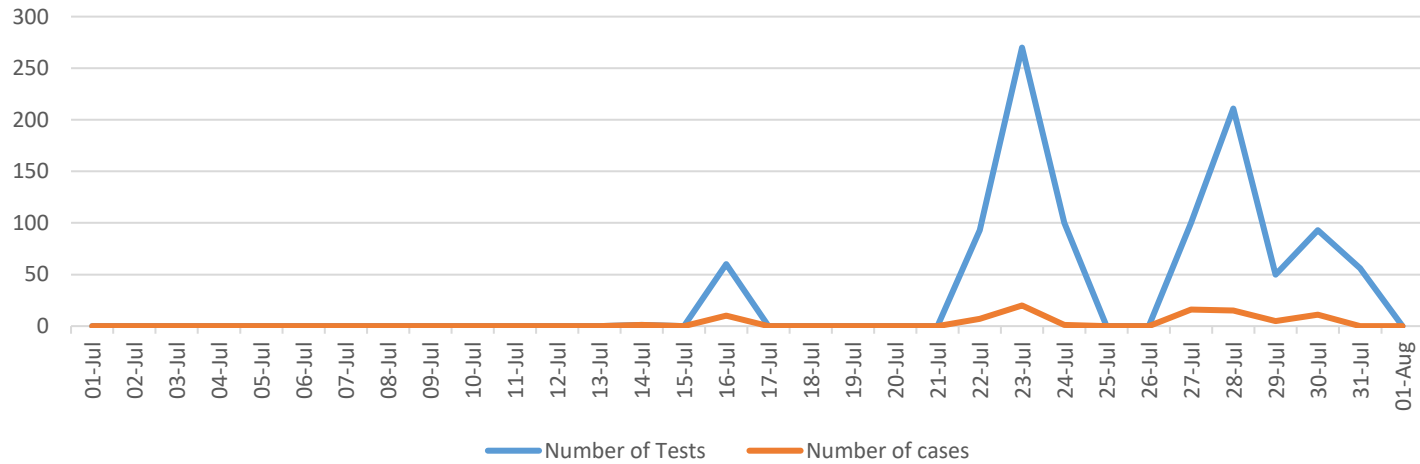
Pallithode test trend



### Chettikkad

Week	Total Tests Performed	Total Locally acquired cases	Test Positivity Rate (B/A*100%)
Week 1 (Date from 09/07/20 to 16/07/20)	61	11	18%
Week 2 (Date from 17/07/20 to 24/07/20)	463	28	6%
Week 3 (Date from 25/07/20 to 31/07/20)	510	41	7%
Total	1034	75	8%

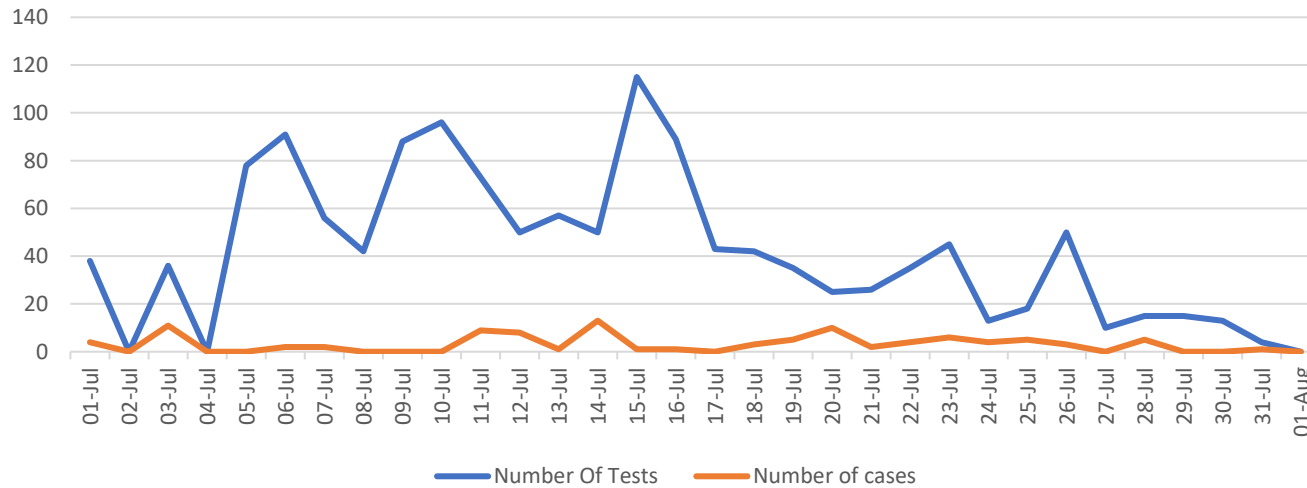
Chettikkad Test Trend



### Kayamkulam

	A. Total Tests Performed	B. Total Locally acquired cases	C. Test Positivity Rate (B/A*100%)
Week 1 (Date from 01/07/20 to 08/07/20)	341	19	6%
Week 2 (Date from 09/07/20 to 16/07/20)	618	33	5%
Week 3 (Date from 17/07/20 to 24/07/20)	264	34	13%
Week 4 (Date from 25/07/20 to 30/07/20)	125	14	11%
Total	1348	100	7%

Kayamkulam Test Trend



	<b>Large Community Clusters</b>	<b>Limited Community Clusters</b>	<b>Institutional Clusters</b>	<b>Closed Community Clusters</b>	<b>Total</b>
Total Number	4	3	3	1	11
Active	4	2	2	1	9
Contained	0	1	1	0	2
Total Locally acquired Cases	311	56	141	169	677
Total Deaths	2	0	0	0	2
% of Total Cases reported in active clusters in July out of total new cases reported in the district in July	18%	3.2%	8.2%	9.8%	39.2%

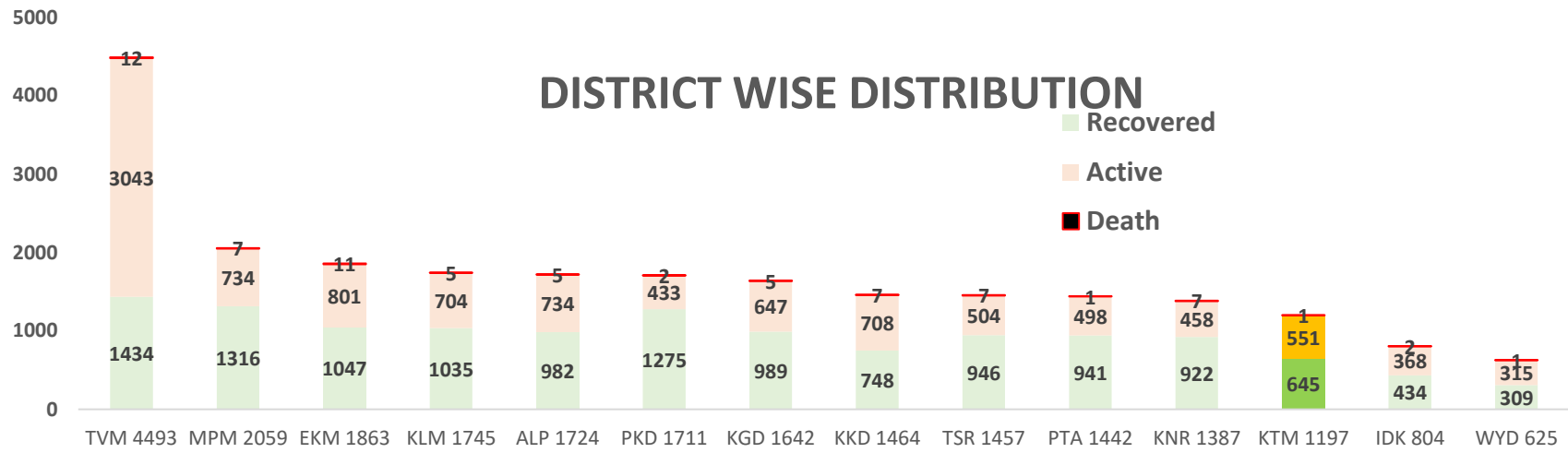


## KOTTAYAM

### Kottayam - COVID scenario

	<b>KERALA</b>	<b>KTM</b>	<b>Percentage</b>
<b>Population 2011 census</b>	33406061	19,74,551	5.91
<b>Total Number of CONFIRMED Cases</b>	23613	1197	5.07
<b>Total cases recovered</b>	13023	645	4.95
<b>Deaths</b>	73	1	1.37
<b>Total Active Cases</b>	10498	551	5.25
<b>Cases per 1 lakh population</b>	71	61	
<b>Case fatality % (death/cases)</b>	0.31	0.08	
<b>TYPE OF CASE</b>			
<b>IMPORT (Travelled to Kerala)</b>	9606	456	4.75
<b>THROUGH CONTACT</b>	14007	741	5.29
<b>TOTAL</b>	23613	1197	5.07
<b>Proportion of Locally Acquired Cases %</b>	59.32	61.90	
<b>Imported: Locally Acquired Ratio</b>	0.69	0.62	
<b>SURVEILLANCE</b>			
<b>Total people currently under observation</b>	58702	5038	8.58
<b>Primary contacts</b>	45581	4897	10.74
<b>Secondary contacts</b>	13121	141	1.07

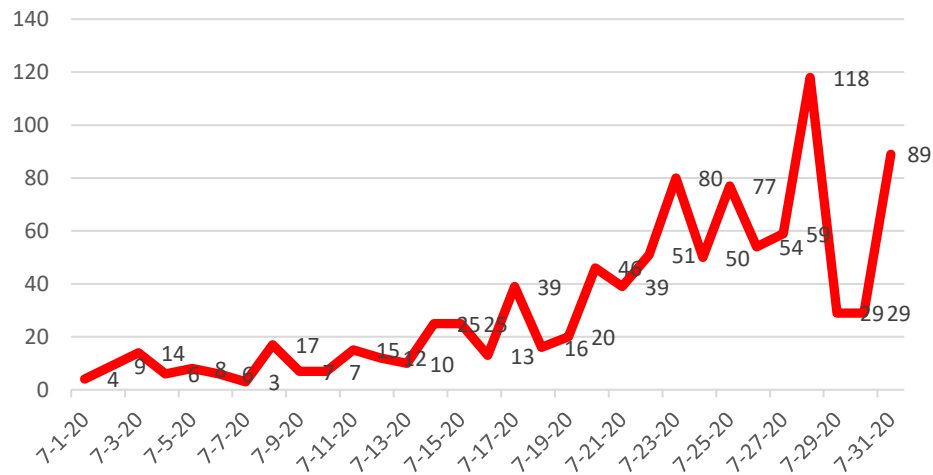
Kottayam constituted 977 (5 %) of COVID cases reported in July 2020 and 5.07 % of total cases in the state.



Recovery rate is 53.9 % as on 31-07-2020

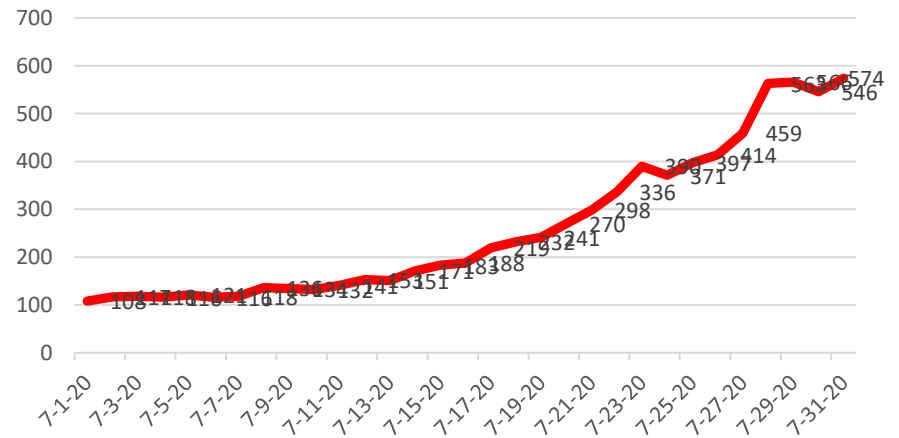
**Daily new cases – JULY 2020**

KTM



**Active cases – JULY 2020**

KTM





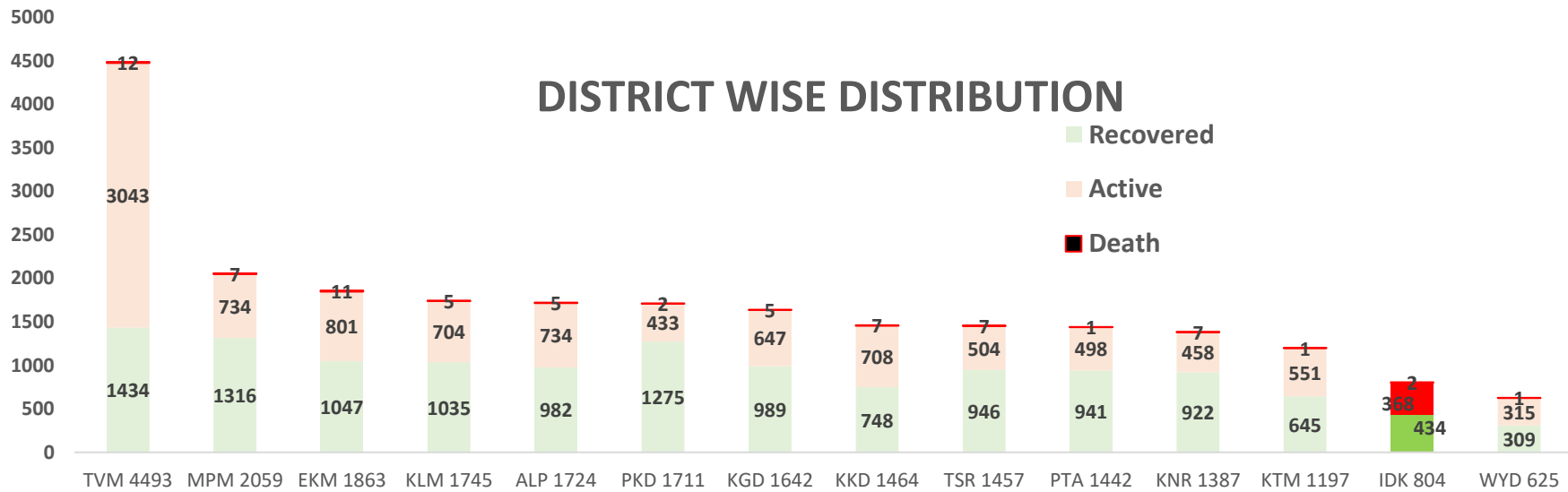
Name of Cluster	Type of Cluster (Large/Limited/Institutional/ Closed)	Total Tests performed in the cluster	Total Number of Cases from the Cluster	Number of tests done on from 29-31 <sup>st</sup> July	Number of locally acquired cases reported in 29-31 <sup>st</sup> July	Total deaths due to COVID in the cluster	Current Status of Cluster (Active/Contained- Contained if no locally acquired cases in last 7 days)	Trend in Cluster based on Number of locally acquired cases
Chirakkadavu-Pallickathodu	Limited	612	7	129	0	0	Contained	static
Parathodu	Limited	716	47	50	4	0	Active	Decreasing
Changanacherry Market	Limited	2319	89	713	8	0	Active	Decreasing
Paippad	Limited	436	57	97	8	0	Active	Static
Ettumanoor market	Limited	723	61	189	8	0	Active	Decreasing

## IDUKKI

### Idukki - COVID scenario

	KERALA	IDK	Percentage
Population 2011 census	33406061	11,08,974	3.32
Total Number of CONFIRMED Cases	23613	804	3.40
Total cases recovered	13023	434	3.33
Deaths	73	2	2.74
Total Active Cases	10498	368	3.51
Cases per 1 lakh population	71	72	
Case fatality % (death/cases)	0.31	0.25	
<b>TYPE OF CASE</b>			
IMPORT (Travelled to Kerala)	9606	378	3.94
THROUGH CONTACT	14007	427	3.05
TOTAL	23613	805	3.41
Proportion of Locally Acquired Cases %	59.32	53.04	
Imported: Locally Acquired Ratio	0.69	0.89	
<b>SURVEILLANCE</b>			
Total people currently under observation	58702	828	1.41
Primary contacts	45581	657	1.44
Secondary contacts	13121	171	1.30

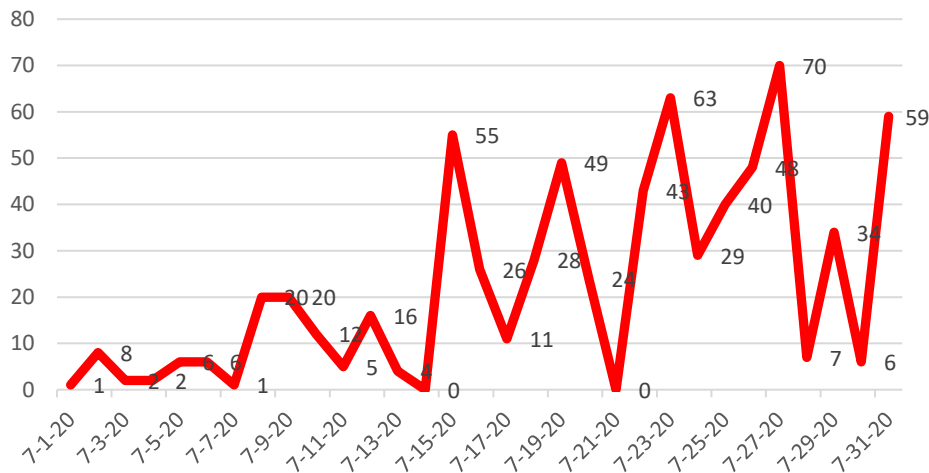
Idukki constituted 695 (4 %) of COVID cases reported in July 2020 and 3.4 % of total cases in the state.



Recovery rate is 54 % as on 31-07-2020

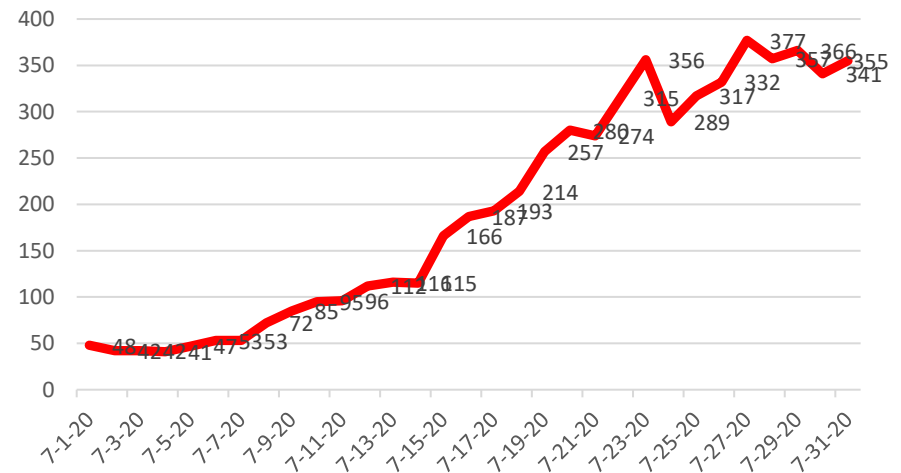
**Daily new cases – JULY 2020**

IDK



**Active cases – JULY 2020**

IDK





<b>Name of Cluster</b>	<b>Type of Cluster (Large/Limited/Institutional/Closed)</b>	<b>Total Tests performed in the cluster</b>	<b>Total Number of Cases from the Cluster</b>	<b>Number of tests done in last 3 days [29-31<sup>th</sup> July]</b>	<b>Number of locally acquired cases reported in last 3 days [29-31<sup>th</sup> July]</b>	<b>Total deaths due to COVID in the cluster</b>	<b>Trend in Cluster based on Number of locally acquired cases (Increasing/Decreasing/Static)</b>
<b>Rajakkad Ward VI</b>	Limited	340	24	163	0	0	Inactive
<b>Rajakkad Ward II</b>	Limited	112	7	163	0	0	Inactive
<b>Bake and Shake Baker and Cardamom dryer, Rajakkad</b>	Limited	125	11	93	3	0	Decreasing
<b>Chennakkunnel Footwayers Rajakkad</b>	Limited	106	10	97	0	0	Decreasing
<b>Vazhathope Ward X</b>	Limited	467	47	139	13	0	Static
<b>CHC Upputhara</b>	Institutional	308	3	0	0	0	Decreasing
<b>Vannapuram Ward I</b>	Limited	398	49	112	4	0	Decreasing
<b>Vannappuram Ward XVII</b>	Limited	75	9	17	0	0	Decreasing
<b>TATA GH Munnar</b>	Institutional	156	22	32	4	0	Increasing

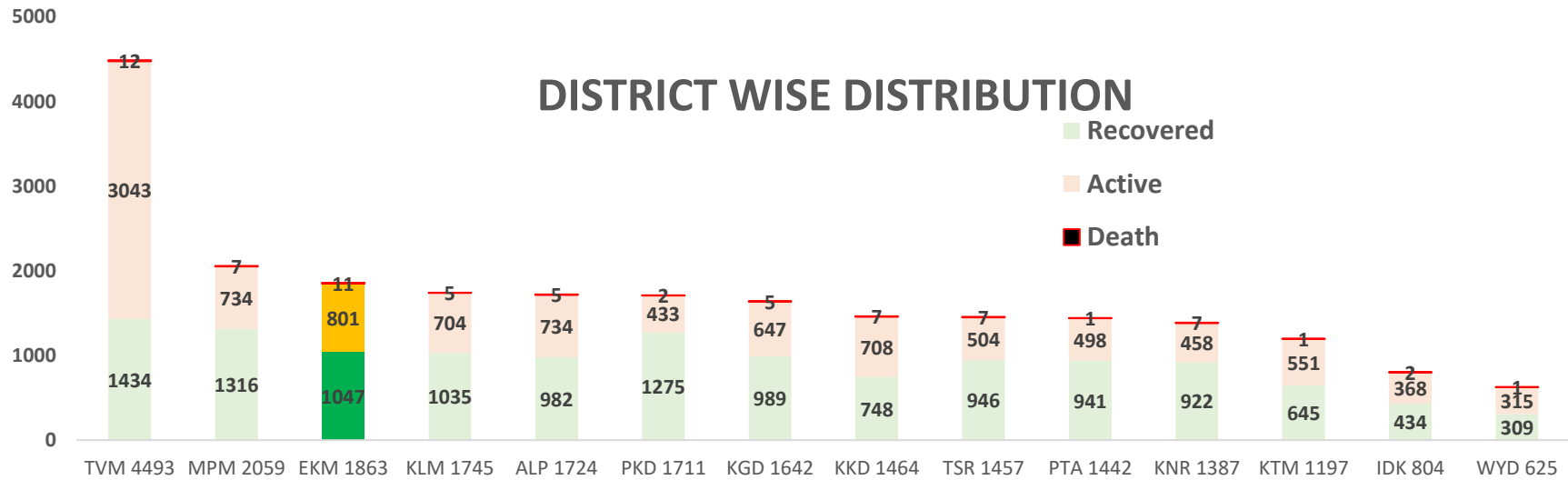


## ERNAKULAM

### Ernakulam - COVID scenario

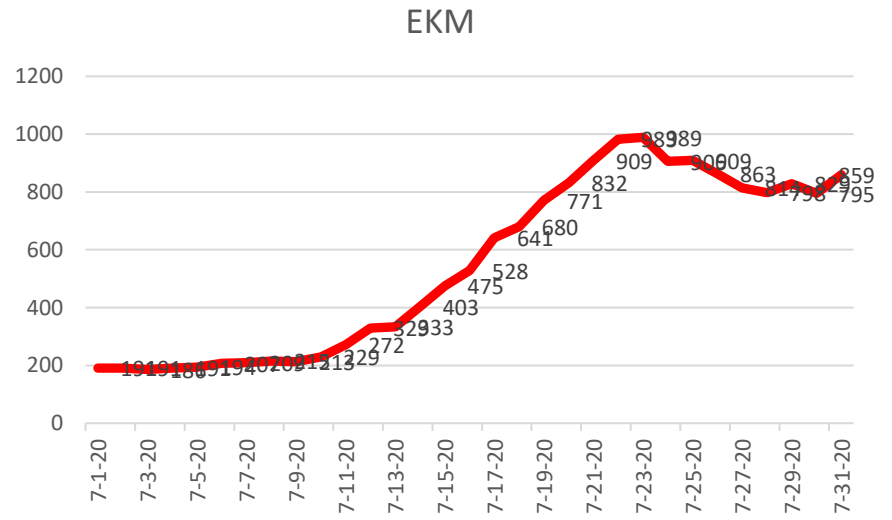
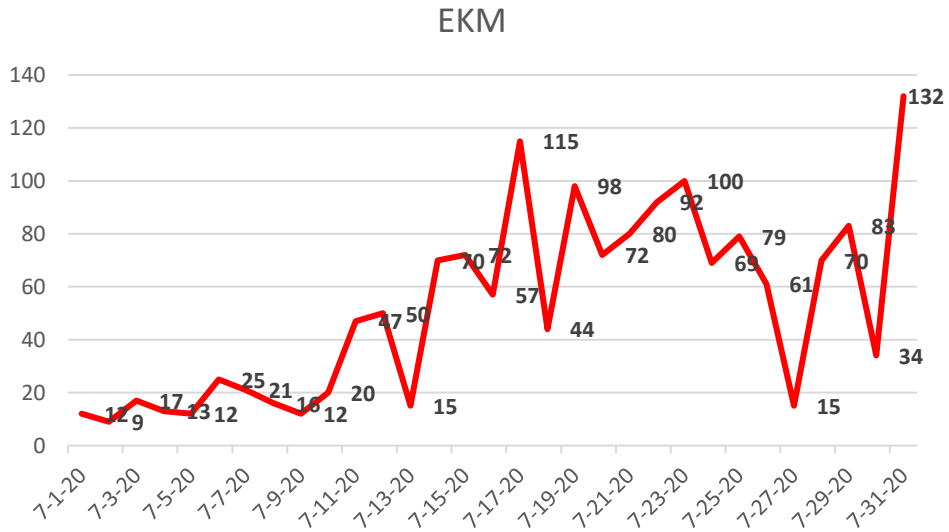
	KERALA	EKM	Percentage
Population 2011 census	33406061	32,82,388	9.83
Total Number of CONFIRMED Cases	23613	1863	7.89
Total cases recovered	13023	1047	8.04
Deaths	73	11	15.07
Total Active Cases	10498	801	7.63
Cases per 1 lakh population	71	57	
Case fatality % (death/cases)	0.31	0.59	
<b>TYPE OF CASE</b>			
IMPORT (Travelled to Kerala)	9606	475	4.94
THROUGH CONTACT	14007	1385	9.89
TOTAL	23613	1860	7.88
Proportion of Locally Acquired Cases %	59.32	74.46	
Imported: Locally Acquired Ratio	0.69	0.34	
<b>SURVEILLANCE</b>			
Total people currently under observation	58702	7484	12.75
Primary contacts	45581	4020	8.82
Secondary contacts	13121	3464	26.40

Ernakulam constituted 1612 (8 %) of COVID cases reported in July 2020 and 7.9 % of total cases in the state.



Recovery rate is 56.1 % as on 31-07-2020

#### Daily new cases – JULY 2020 Active cases – JULY 2020



# Ernakulam District

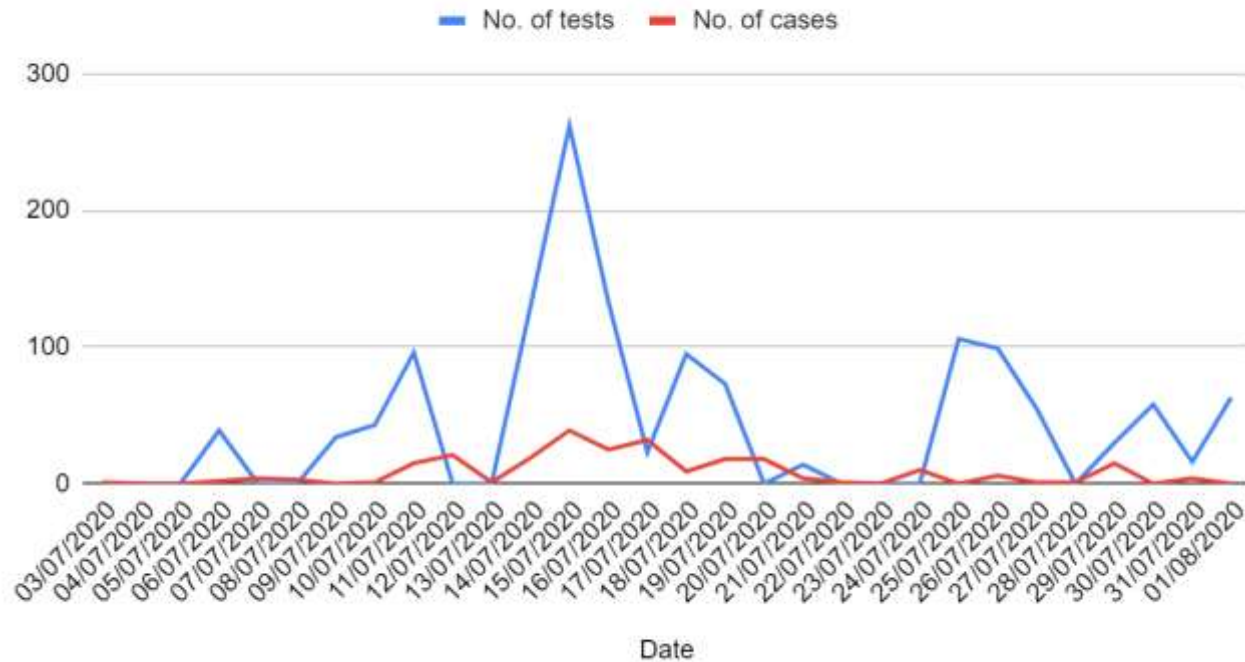


Name of Cluster	Type of Cluster (Large/Limited/Institutional/ Closed)	Total Tests performed in the cluster	Total Number of Cases from the Cluster	Number of tests done on from 30 July to 1 Aug	Number of locally acquired cases reported in 30 July to 1 Aug	Total deaths due to COVID in the cluster	Current Status of Cluster (Active/)	Trend in Cluster (Increasing/Decreasing/ Static)
<b>Chellanam</b>	Large	1369	250	137	4	0	Active	Decreasing
<b>Ernakulam Market</b>	Limited	334	23	0	0	1	Active	Decreasing
<b>Aluva Market</b>	Large	1168	96	81	2	2	Active	Decreasing
<b>Keezhmad</b>	Large	698	136	85	6	1	Active	Decreasing
<b>Alangad</b>	Limited	198	29	18	3	0	Active	Decreasing
<b>Kadungalloor</b>	Limited	301	47	137	1	0	Active	Decreasing
<b>Karumalloor</b>	Limited	278	16	54	0	1	Active	Decreasing
<b>Choornikara</b>	Limited	300	36	148	2	0	Active	Decreasing
<b>Chengamnad</b>	Limited	201	14	7	1	0	Active	Decreasing
<b>Fort Kochi Harbour</b>	Large	494	86	191	32	1	Active	Increasing
<b>Grand Mall</b>	Limited	78	20	4	1	0	Active	Decreasing
<b>Thrikkakara SD Convent</b>	Closed	142	48	2	2	1	Active	Decreasing
<b>Chunangamvely SD Convent</b>	Closed	67	29	0	0	0	Active	Decreasing
<b>Ayyampilly SD Convent</b>	Closed	38	9	0	0	1	Contained	Static
<b>Munambam</b>	Limited	41	1	0	0	0	Contained	Static
<b>Edathala</b>	Limited	289	42	61	3	0	Active	Decreasing

## Trend in Large Clusters

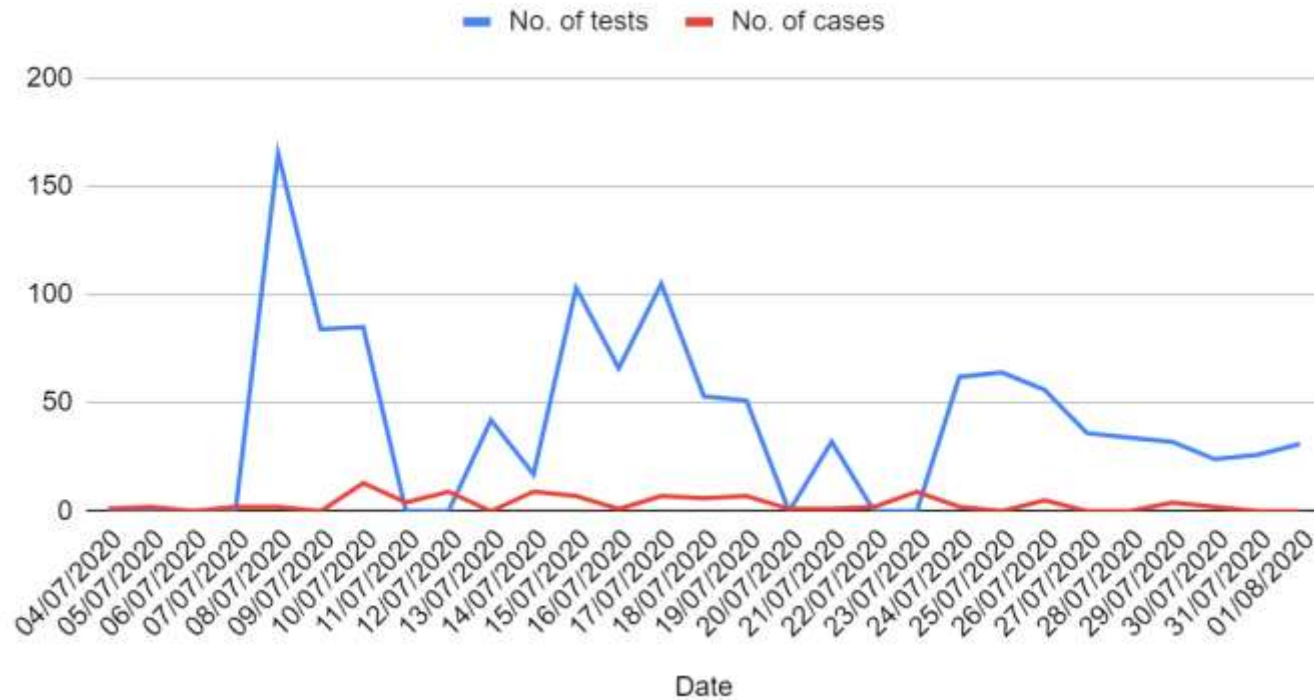
Chellanam	A. Total Tests Performed	B. Total Locally acquired cases	C. Test Positivity Rate (B/A*100%)
3-Jul-2020 to 9-Jul-2020	73	10	13.6
10-Jul-2020 to 16-Jul-2020	664	121	18.22
17-Jul-2020 to 23-Jul-2020	205	82	40
24-Jul-2020 to 30-Jul-2020	348	33	9.5

Chellanam- No. of tests and No. of cases vs Date



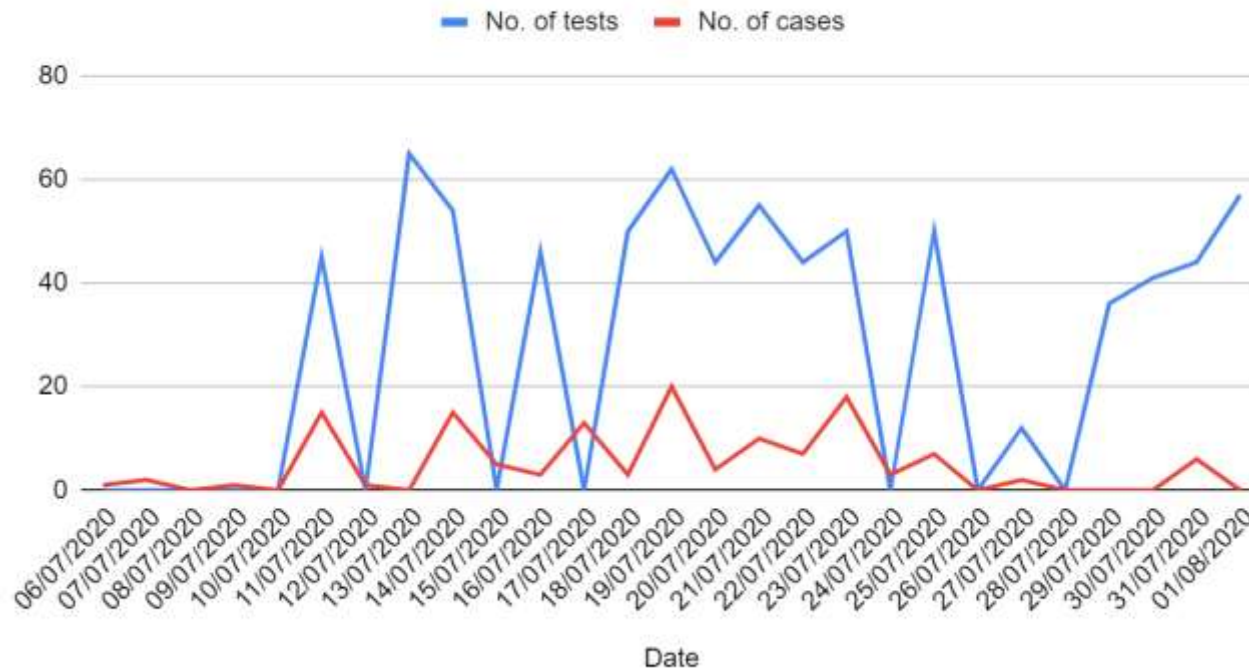
Aluva Market	A. Total Tests Performed	B. Total Locally acquired cases	C. Test Positivity Rate (B/A*100%)
4-Jul-2020 to 10-Jul-2020	334	20	5.99
11-Jul-2020 to 17-Jul-2020	333	37	11.1
18-Jul-2020 to 24-Jul-2020	198	28	14.1
25-Jul-2020 to 31-Jul-2020	272	11	4.0

Aluva Market : No. of tests and No. of cases Vs Date



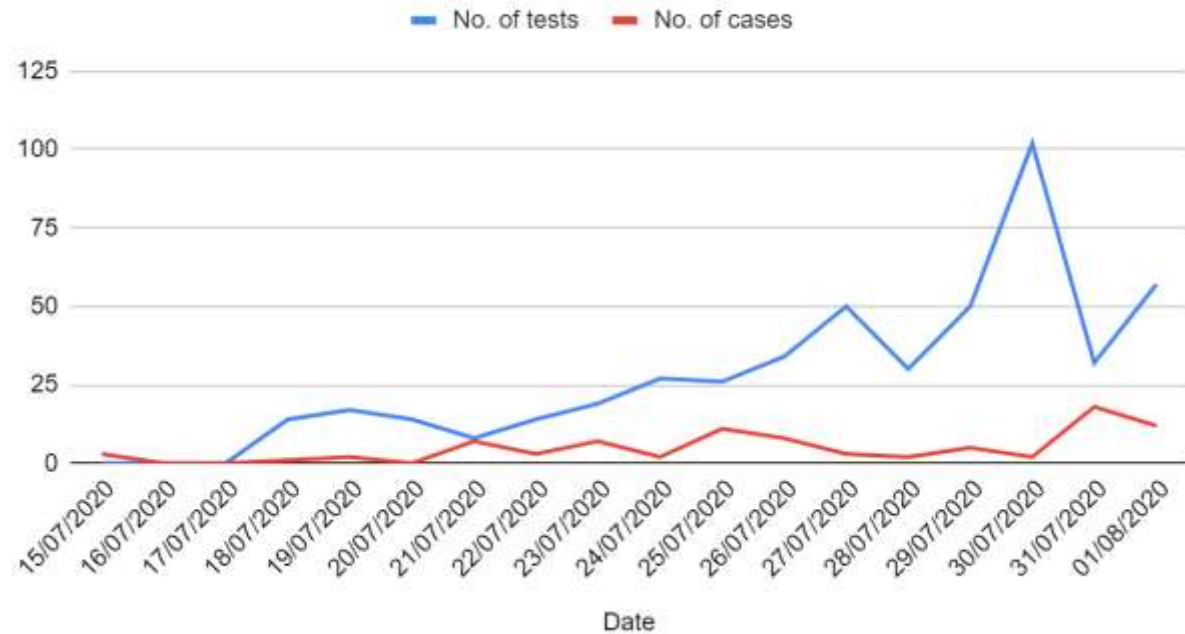
<b>Keezhamad</b>	<b>A. Total Tests Performed</b>	<b>B. Total Locally acquired cases</b>	<b>C. Test Positivity Rate (B/A*100%)</b>
6-Jul-2020 to 12-Jul-2020	45	20	44.4
13-Jul-2020 to 19-Jul-2020	277	59	21.2
20-Jul-2020 to 26-Jul-2020	243	49	20.2
27-Jul-2020 to 2-Aug-2020	133	8	6.0

Keezhamad : No. of tests and No. of cases Vs Date



Fort Kochi Harbour	A. Total Tests Performed	B. Total Locally acquired cases	C. Test Positivity Rate (B/A*100%)
15-Jul-2020 to 21-Jul-2020	53	13	24.5
22-Jul-2020 to 28-Jul-2020	200	36	18
29-Jul-2020 to 4-Aug-2020	241	37	15.3

Fort Kochi Harbour : No. of tests and No. of cases Vs Date





Summary- Ernakulam

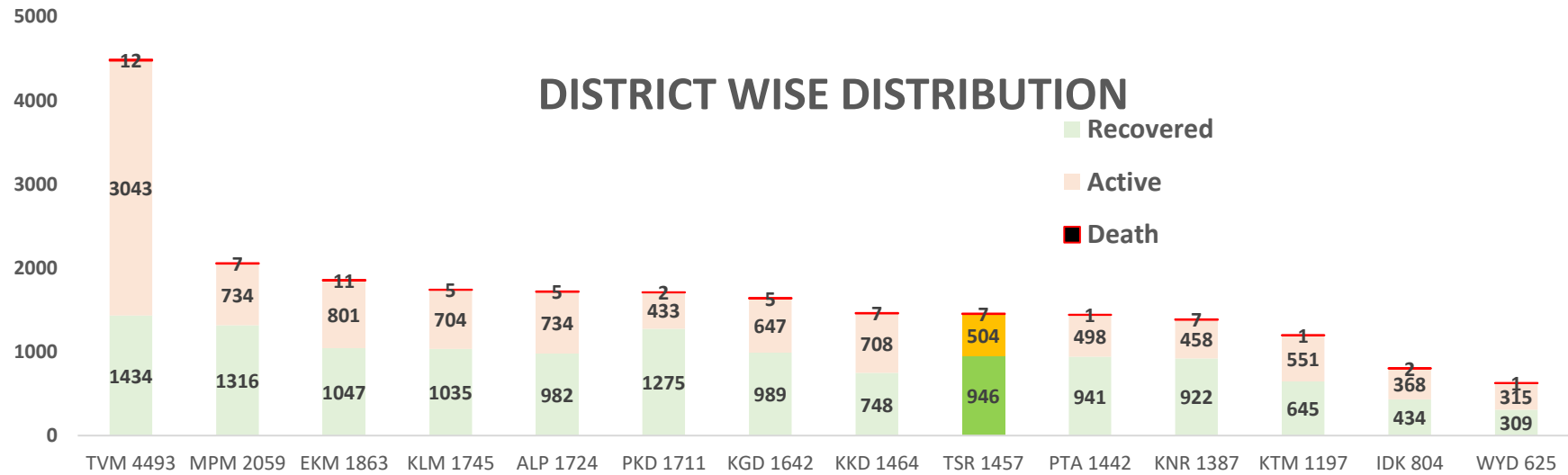
	<b>Large Community Clusters</b>	<b>Limited Community Clusters</b>	<b>Institutional Clusters</b>	<b>Closed Community Clusters</b>	<b>Total</b>
Total Number	4	8	0	3	15
Active	4	7	0	2	13
Contained	0	1	0	1	2
Total Locally acquired Cases	568	227	0	86	881
Total Deaths	2	2	0	2	6
% of Total Cases reported in active clusters from 1st July to 1 <sup>st</sup> August out of total new cases reported in the district in July	32.87%	13.14%	0	4.98%	50.98%

## THRISSUR

### Thrissur - COVID scenario

	KERALA	TSR	Percentage
<b>Population 2011 census</b>	33406061	31,21,200	9.34
<b>Total Number of CONFIRMED Cases</b>	23613	1457	6.17
<b>Total cases recovered</b>	13023	946	7.26
<b>Deaths</b>	73	7	9.59
<b>Total Active Cases</b>	10498	504	4.80
<b>Cases per 1 lakh population</b>	71	47	
<b>Case fatality % (death/cases)</b>	0.31	0.48	
<b>TYPE OF CASE</b>			
<b>IMPORT (Travelled to Kerala)</b>	9606	801	8.34
<b>THROUGH CONTACT</b>	14007	655	4.68
<b>TOTAL</b>	23613	1456	6.17
<b>Proportion of Locally Acquired Cases %</b>	59.32	44.99	
<b>Imported: Locally Acquired Ratio</b>	0.69	1.22	
<b>SURVEILLANCE</b>			
<b>Total people currently under observation</b>	58702	8343	14.21
<b>Primary contacts</b>	45581	5808	12.74
<b>Secondary contacts</b>	13121	2535	19.32

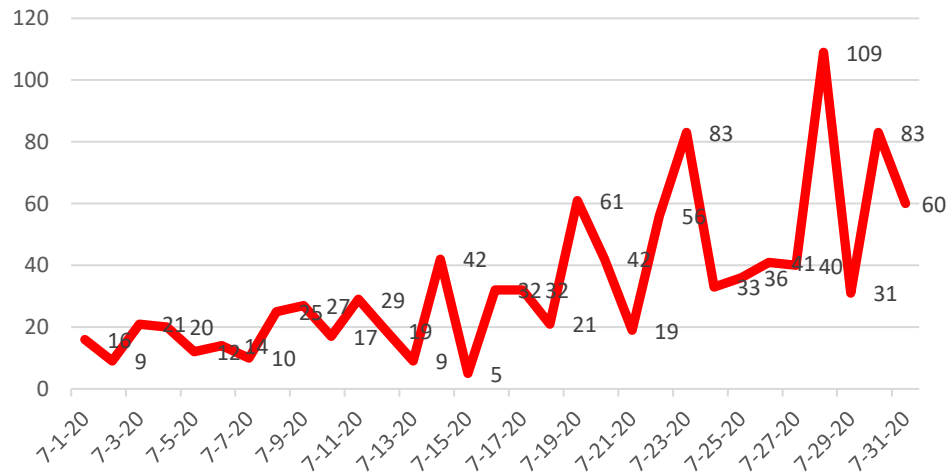
Thrissur constituted 1054 (6 %) of COVID cases reported in July 2020 and 6.17 % of total cases in the state.



Recovery rate is 65 % as on 31-07-2020

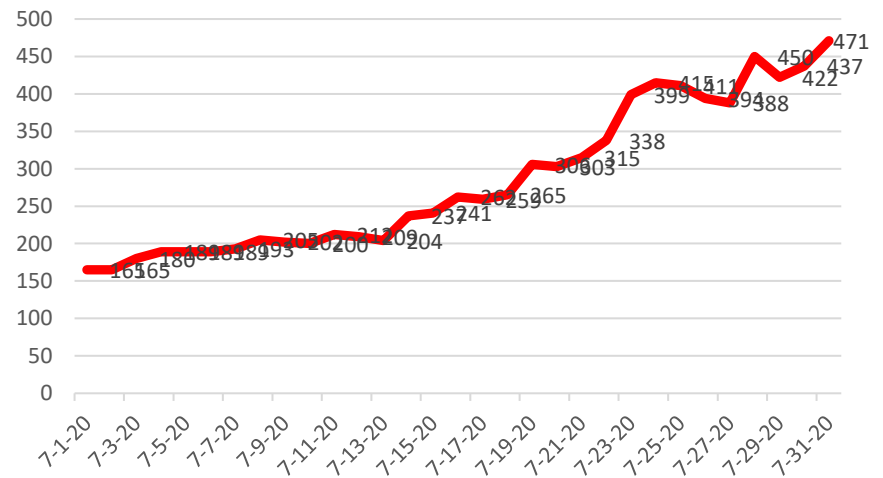
**Daily new cases – JULY 2020**

TSR

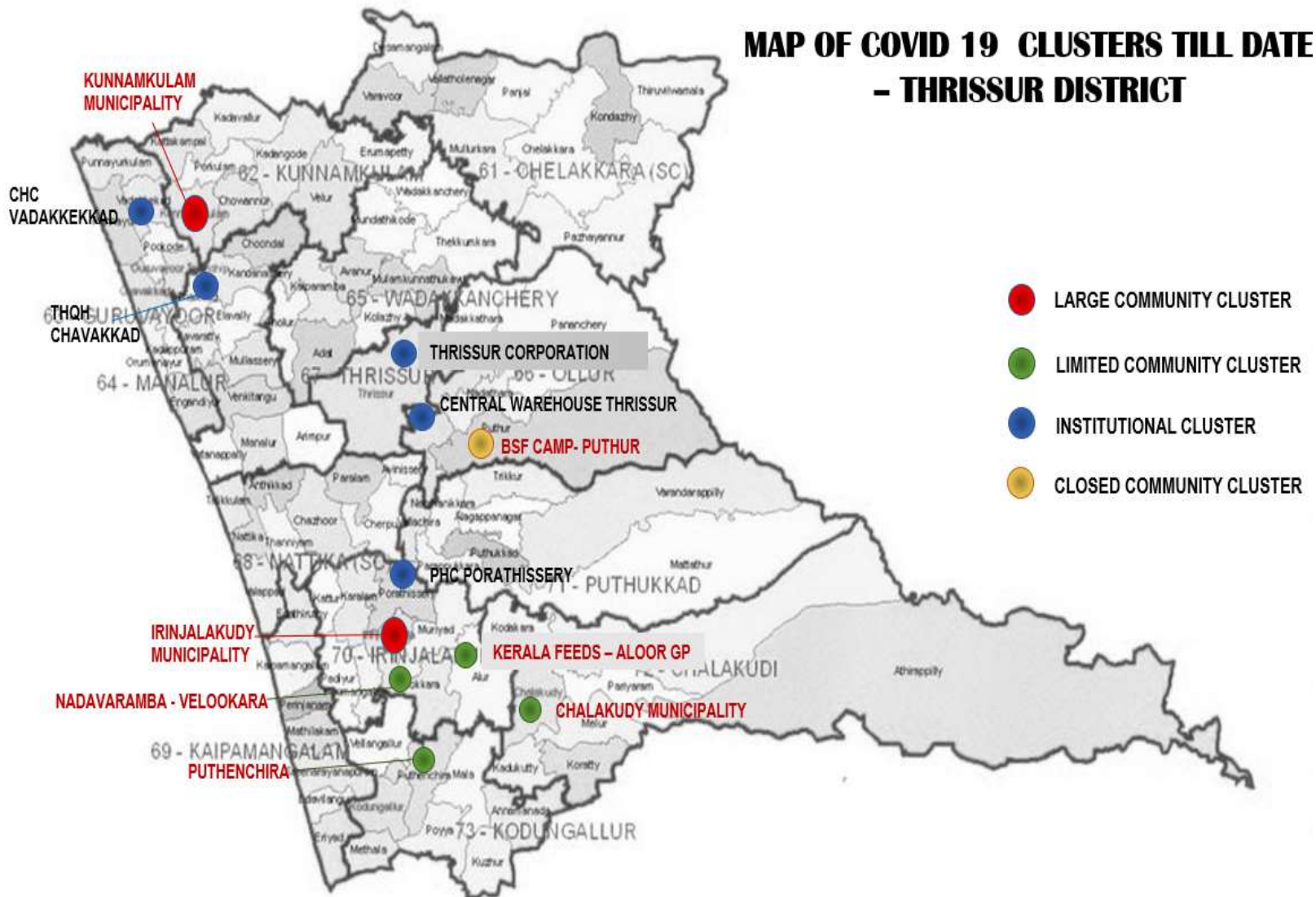


**Active cases – JULY 2020**

TSR



## MAP OF COVID 19 CLUSTERS TILL DATE - THRISSUR DISTRICT



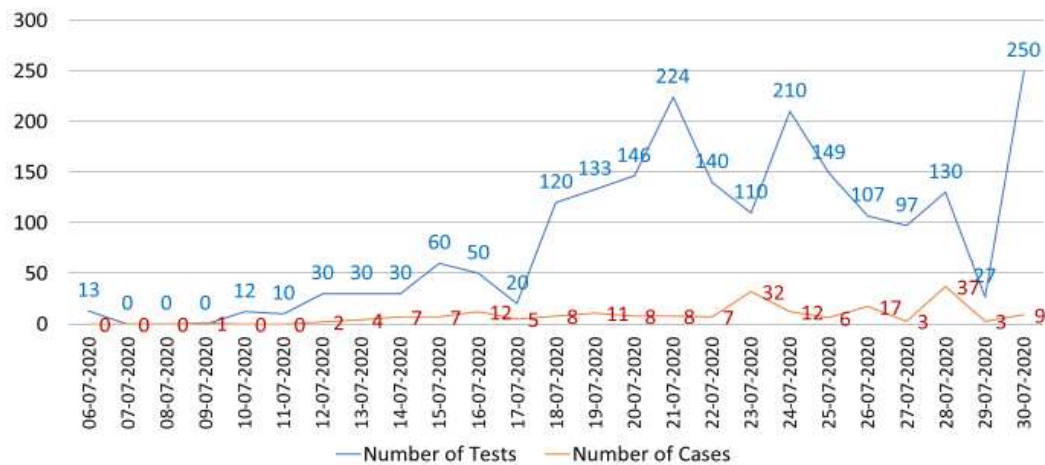
Name of Cluster	Type of Cluster (Large/Limited/Institutional/ Closed)	Total Tests performed in the cluster	Total Number of Cases from the Cluster	Number of tests done on from 29-31 <sup>st</sup> July	Number of locally acquired cases reported in 29-31 <sup>st</sup> July	Total deaths due to COVID in the cluster	Current Status of Cluster (Active/Contained- Contained if no locally acquired cases in last 7 days)	Trend in Cluster based on Number of locally acquired cases (Increasing/Decreasing/ Static)
<b>PHC PORATHISERY</b>	INSTITUTIONAL	370	5	0	0	0	Contained	
<b>THQH CHAVAKKAD</b>	INSTITUTIONAL	250	9	0	0	0	Contained	
<b>CHC VADAKKEKAD</b>	INSTITUTIONAL	110	3	0	0	0	Contained	
<b>THRISSUR CORPORATION OFFICE</b>	INSTITUTIONAL	130	12	0	0	0	Contained	
<b>CENTRAL WAREHOUSE THRISSUR</b>	INSTITUTIONAL	120	4	0	0	0	Contained	
<b>BSF</b>	CLOSED	593	48	20	0	0	Active	Decreasing
<b>KUNNAMKULAM</b>	LARGE	1174	74	210	26	0	Active	Static
<b>NADAVARAMBA</b>	LIMITED	299	15	18	1	0	Active	Static
<b>IRINJALAKUDA MUNICIPALITY</b>	LARGE	1857	179	430	65	1	Active	Increasing
<b>CHALAKUDY</b>	LIMITED	228	17	110	12	0	Active	Increasing
<b>PUTHENCHIRA</b>	LIMITED	91	5	30	2	0	Active	Increasing
<b>KERALA FEEDS</b>	LIMITED	122	5	50	2	0	Active	Increasing

<b>KALLETUMKA RA</b>								
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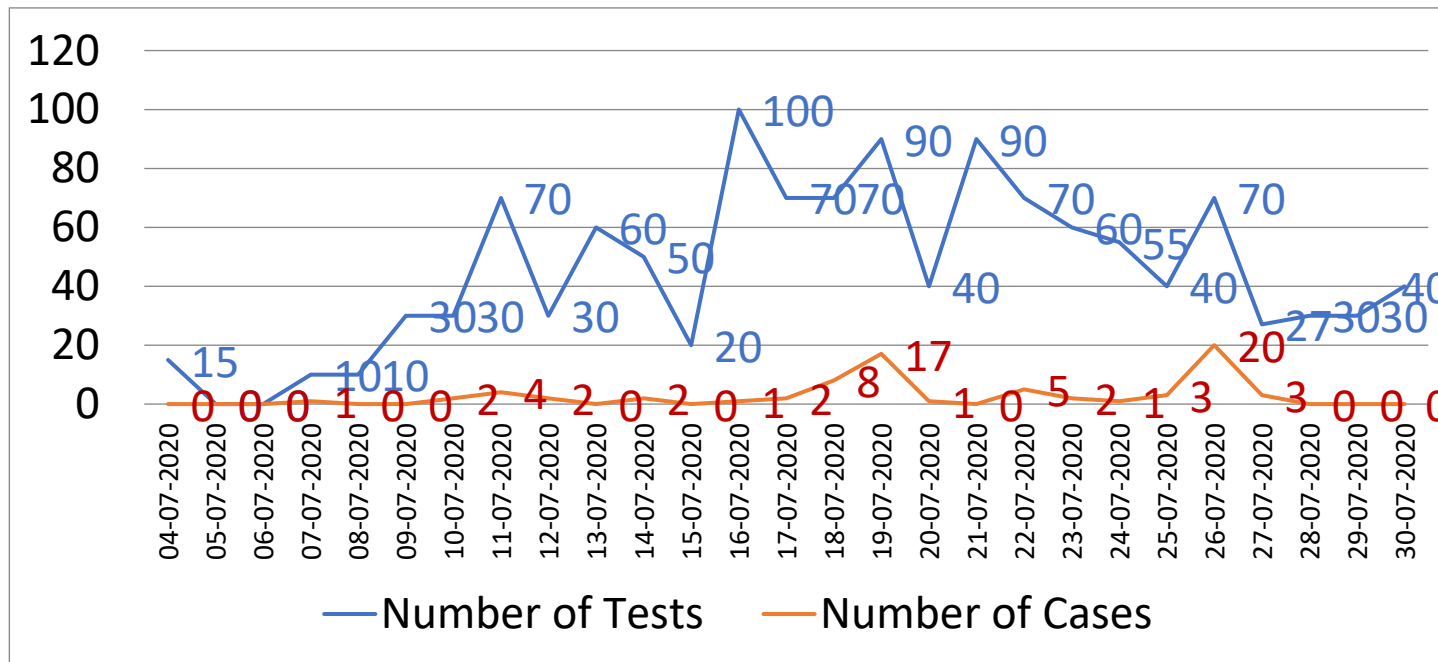
**Name of Large Community Cluster**      **IRINJALAKUDA**

	<b>A. Total Tests Performed</b>	<b>B. Total Locally acquired cases</b>	<b>C. Test Positivity Rate (B/A*100%)</b>
Week 1 (Date from 09/07/20 to 16/07/20)	235	33	14
Week 2 (Date from 17/07/20 to 24/07/20)	1103	91	8.2
Week 3 (Date from 25/07/20 to 31/07/20)	760	50	6.57
<b>Total</b>	<b>2098</b>	<b>174</b>	<b>8.2</b>

**TREND OF TESTING & CASES - IRINJALAKUDA**



Name of Large Community Cluster	KUNNAMKULAM		
	A. Total Tests Performed	B. Total Locally acquired cases	C. Test Positivity Rate (B/A*100%)
Week 1 (Date from 04/07/20 to 10/07/20)	95	3	3.1
Week 2 (Date from 11/07/20 to 17/07/20)	400	34	8.5
Week 3 (Date from 18/07/20 to 24/07/20)	475	21	8.9
Week 4 (Date from 25/07/20 to 31/07/20)	237	12	5
Total	1207	74	6.13



	<b>Large Community Clusters</b>	<b>Limited Community Clusters</b>	<b>Institutional Clusters</b>	<b>Closed Community Clusters</b>	<b>Total</b>
Total Number	2	4	5	1	12
Active	2	4	0	1	7
Contained	0	0	5	0	5
Total Locally acquired Cases	266	78	33	18	395
Total Deaths	1	0	0	0	1
% of Total Cases reported in active clusters in July out of total new cases reported in the district in July	25.23%	7.4%	3.1%	1.7%	37.47%

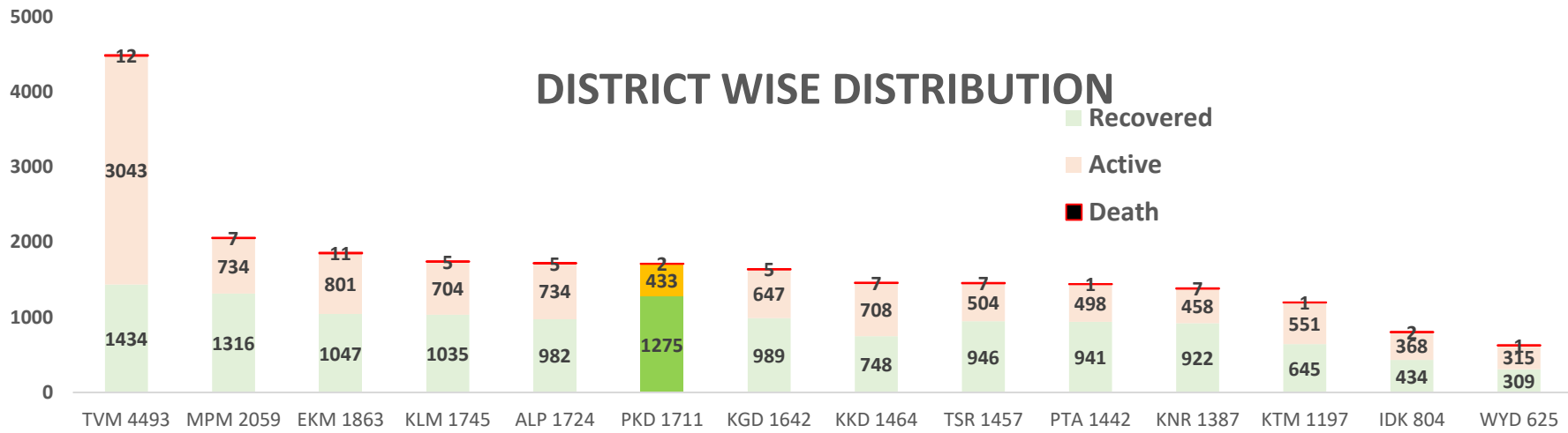


## PALAKKAD

### Palakkad- COVID scenario

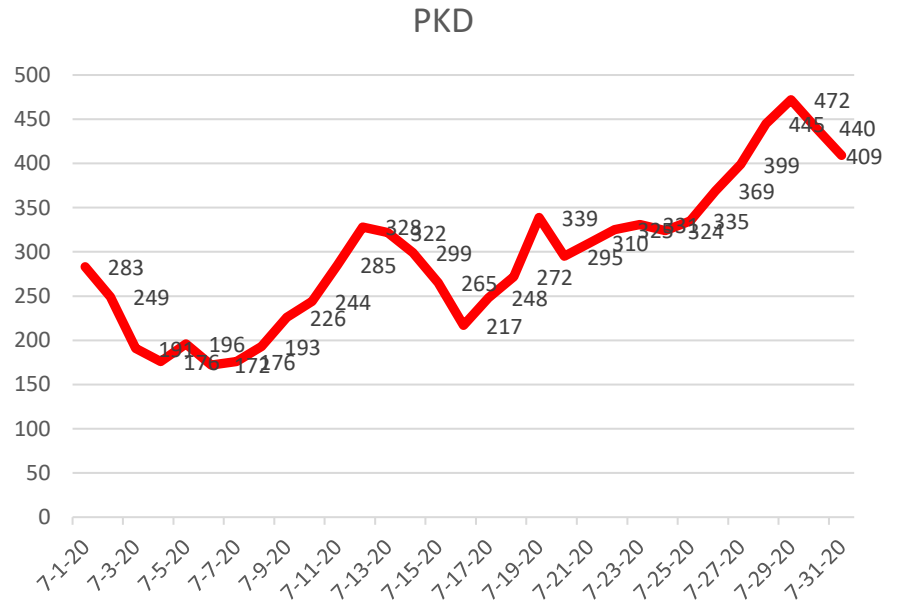
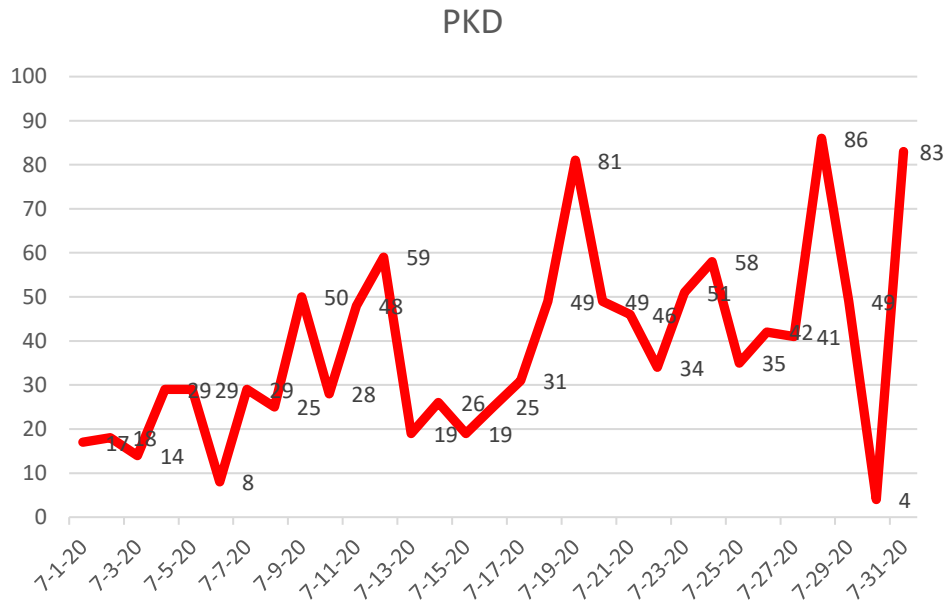
	KERALA	PKD	Percentage
Population 2011 census	33406061	28,09,934	8.41
Total Number of CONFIRMED Cases	23613	1711	7.25
Total cases recovered	13023	1275	9.79
Deaths	73	2	2.74
Total Active Cases	10498	433	4.12
Cases per 1 lakh population	71	61	
Case fatality % (death/cases)	0.31	0.12	
<b>TYPE OF CASE</b>			
IMPORT (Travelled to Kerala)	9606	1198	12.47
THROUGH CONTACT	14007	511	3.65
TOTAL	23613	1709	7.24
Proportion of Locally Acquired Cases %	59.32	29.90	
Imported: Locally Acquired Ratio	0.69	2.34	
<b>SURVEILLANCE</b>			
Total people currently under observation	58702	3806	6.48
Primary contacts	45581	3415	7.49
Secondary contacts	13121	391	2.98

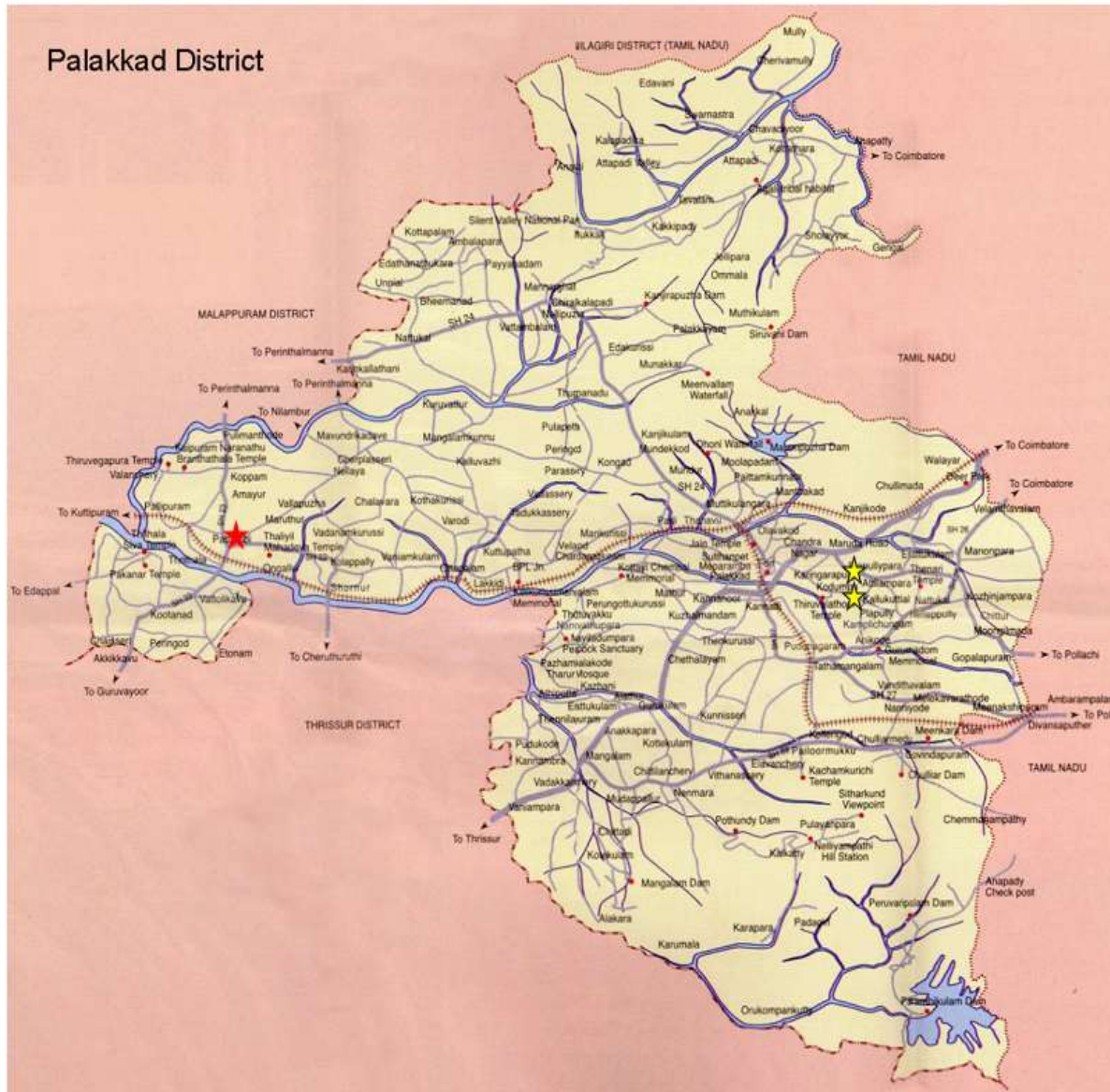
Palakkad constituted 1182 (6 %) of COVID cases reported in July 2020 and 7.25 % of total cases in the state.



Recovery rate is 74.5 % as on 31-07-2020

**Daily new cases – JULY 2020 Active cases – JULY 2020**





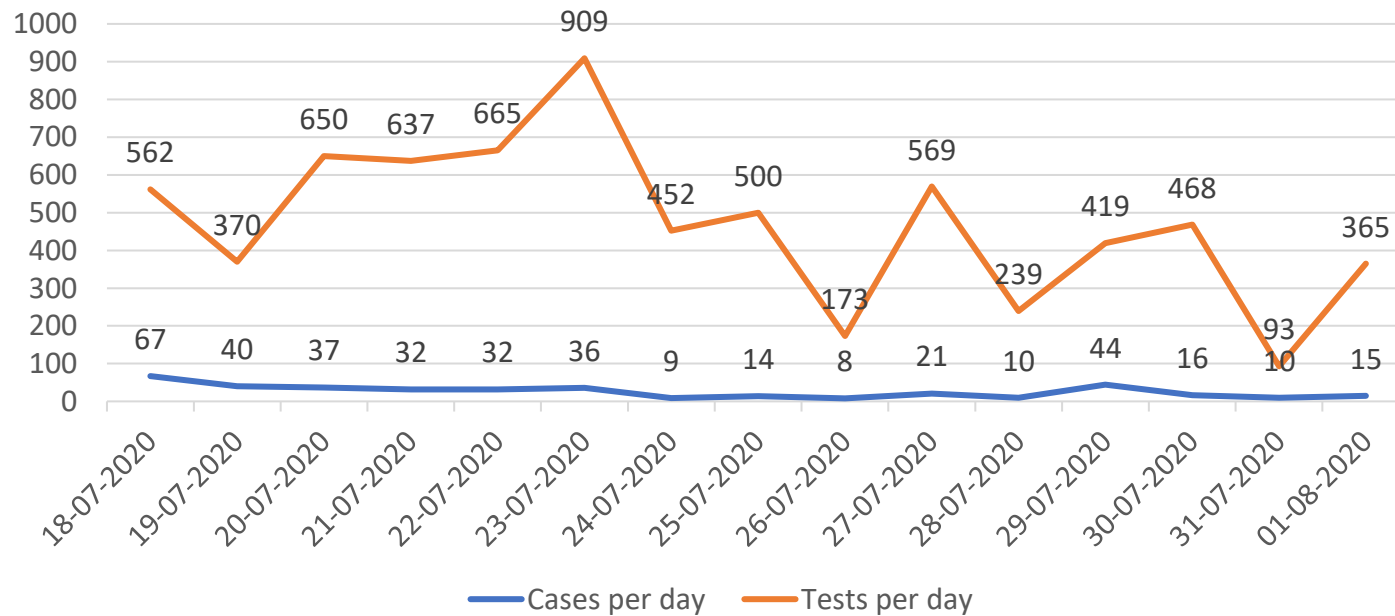
★ Pattambi  
Fish market  
cluster

★ Elappully  
Powergrid  
cluster  
  
★ Brocade  
workers  
camp

Name of Cluster	Type of Cluster (Large/Limited/Institutional/ Closed)	Total Tests performed in the cluster	Total Number of Cases from the Cluster	Number of tests done on from 29-31 <sup>st</sup> July	Number of locally acquired cases reported in 29-31 <sup>st</sup> July	Total deaths due to COVID in the cluster	Current Status of Cluster (Active/Contained- Contained if no locally acquired cases in last 7 days)	Trend in Cluster based on Number of locally acquired cases (Increasing/Decreasing/ Static)
Elappully Powergrid workers camp	Closed	23	11	0	0	0	Contained	Static
Brocade workers camp	Closed	13	3	0	0	0	Contained	Static
Pattambi fish market	Large	7071	391	926	41	0	Active	Static

## Pattambi Fish Market

	A. Total Tests Performed	B. Total Locally acquired cases	C. Test Positivity Rate (B/A*100%)
Week 1 (Date from 18/07/20 to 24/07/20)	4245	253	6.0
Week 2 (Date from 25/07/20 to 31/07/2020)	2461	123	5.0
Week 3(Date from 01/08/2020 to 07/08/2020)	365	15	4.1

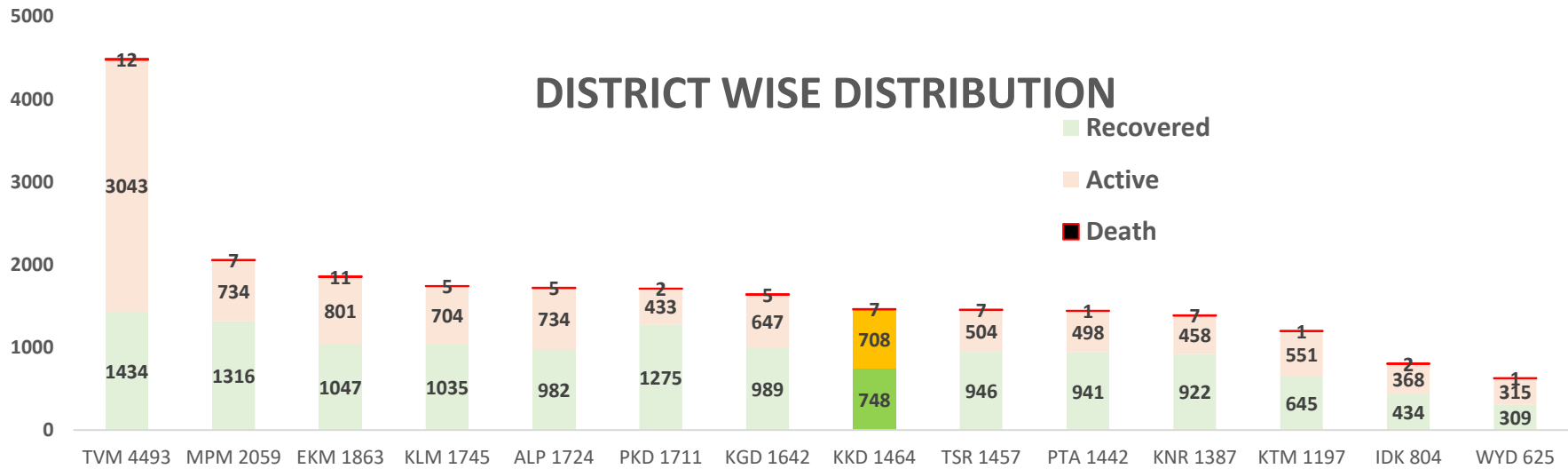


## KOZHIKODE

### Kozhikode - COVID scenario

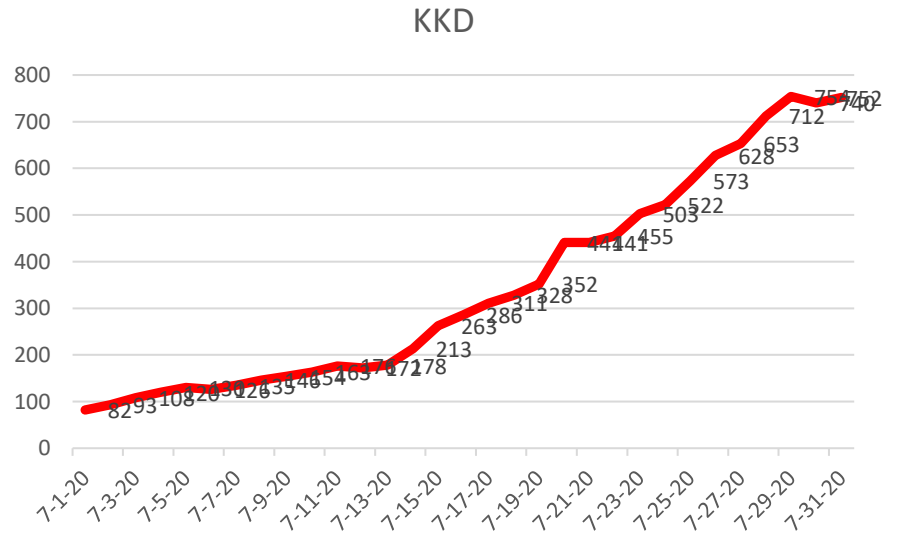
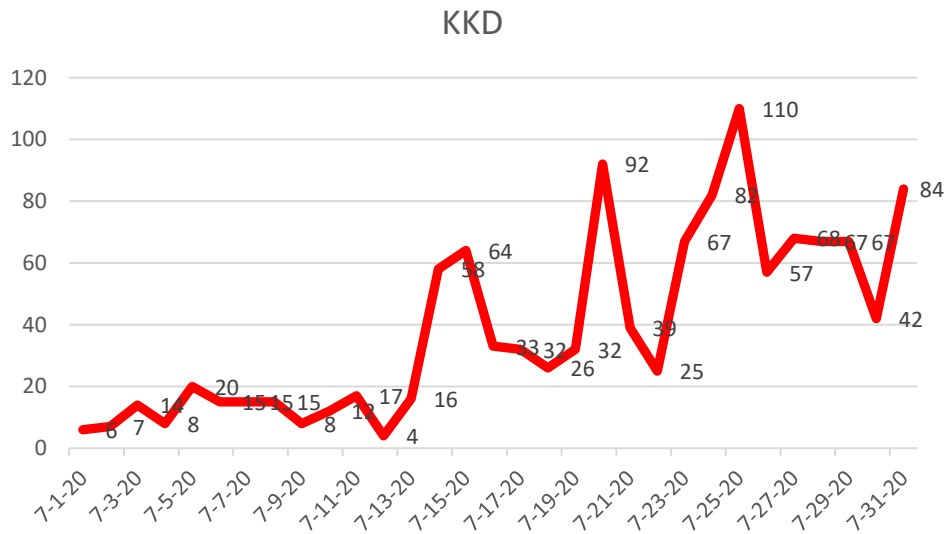
	<b>KERALA</b>	<b>KKD</b>	<b>Percentage</b>
<b>Population 2011 census</b>	33406061	30,86,293	9.24
<b>Total Number of CONFIRMED Cases</b>	23613	1464	6.20
<b>Total cases recovered</b>	13023	748	5.74
<b>Deaths</b>	73	7	9.59
<b>Total Active Cases</b>	10498	708	6.74
<b>Cases per 1 lakh population</b>	71	47	
<b>Case fatality % (death/cases)</b>	0.31	0.48	
<b>TYPE OF CASE</b>			
<b>IMPORT (Travelled to Kerala)</b>	9606	555	5.78
<b>THROUGH CONTACT</b>	14007	908	6.48
<b>TOTAL</b>	23613	1463	6.20
<b>Proportion of Locally Acquired Cases %</b>	59.32	62.06	
<b>Imported: Locally Acquired Ratio</b>	0.69	0.61	
<b>SURVEILLANCE</b>			
<b>Total people currently under observation</b>	58702	7430	12.66
<b>Primary contacts</b>	45581	7332	16.09
<b>Secondary contacts</b>	13121	98	0.75

Kozhikode constituted 1202 (6 %) of COVID cases reported in July 2020 and 6.2 % of total cases in the state.

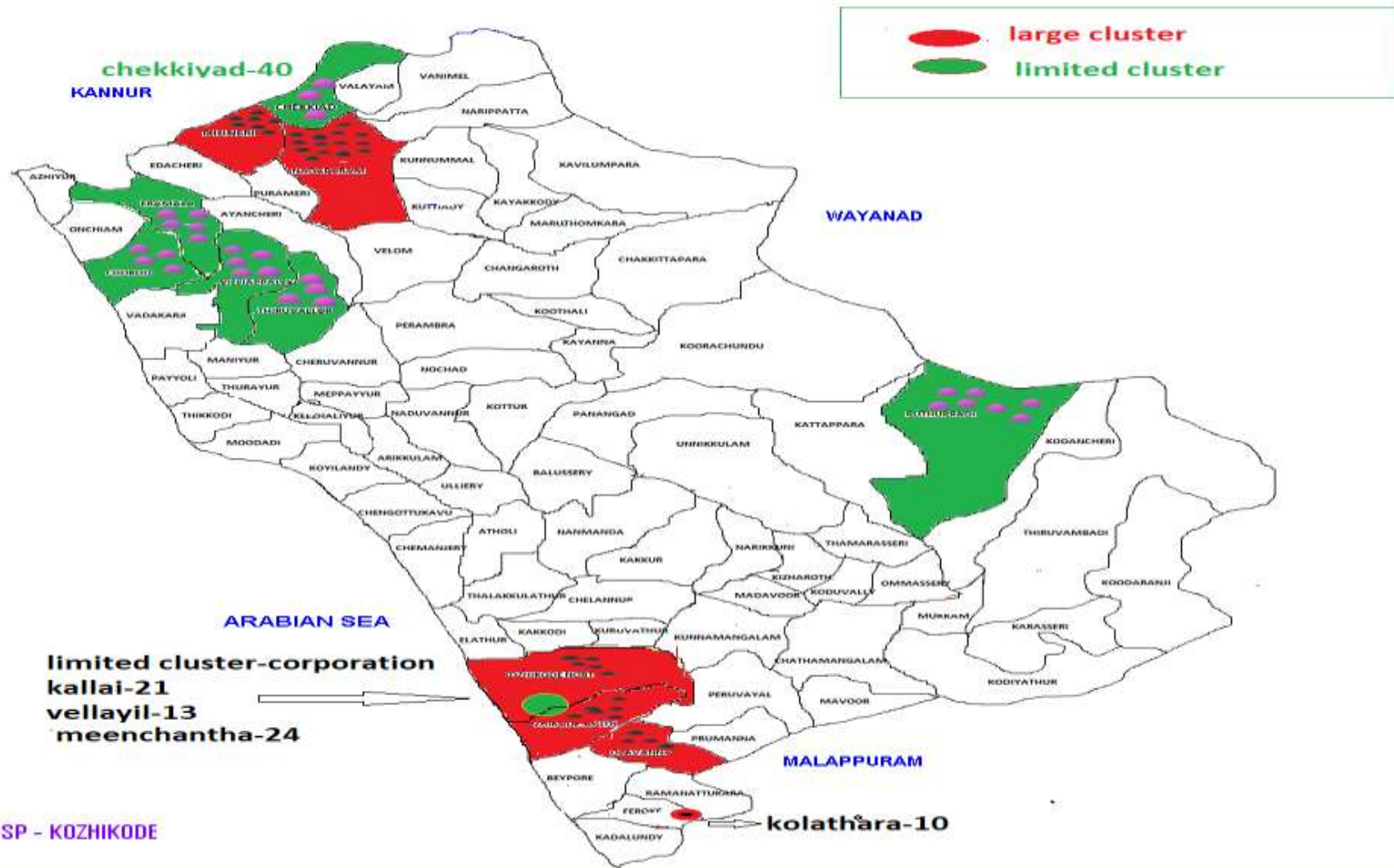


Recovery rate is 51.1 % as on 31-07-2020

#### Daily new cases – JULY 2020 Active cases – JULY 2020



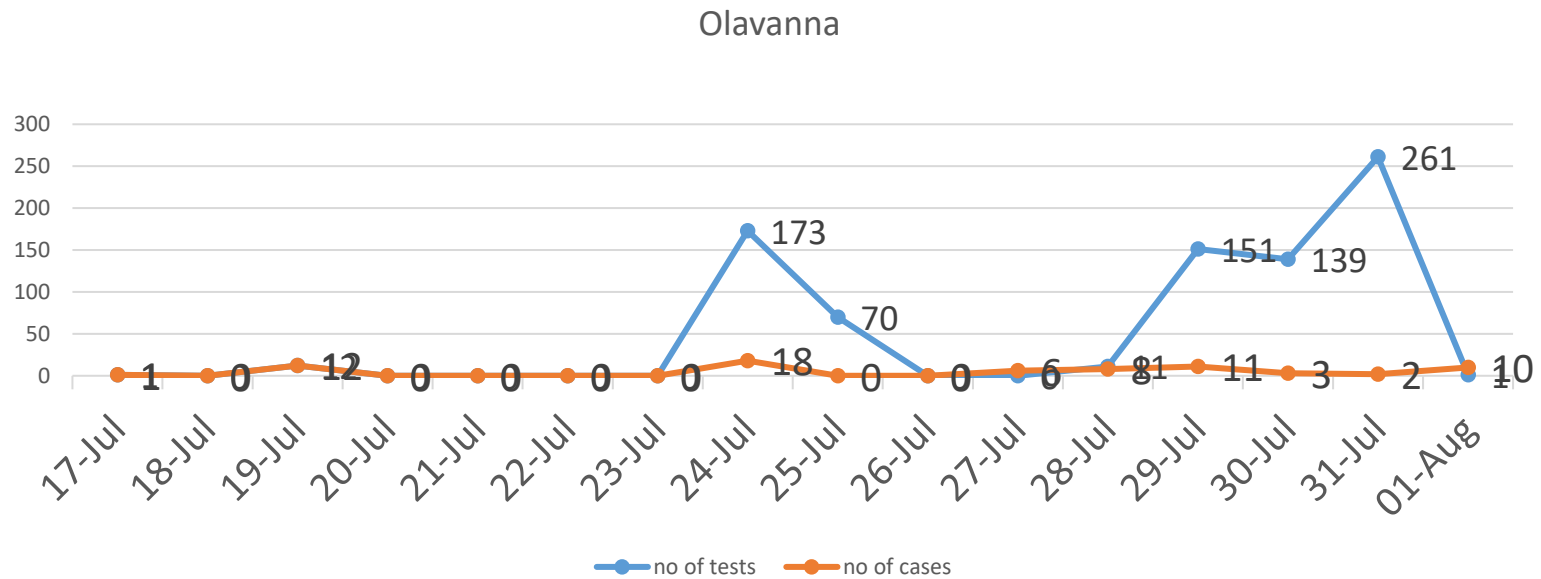
# PANCHAYATH WISE MAP OF KOZHIKODE DISTRICT





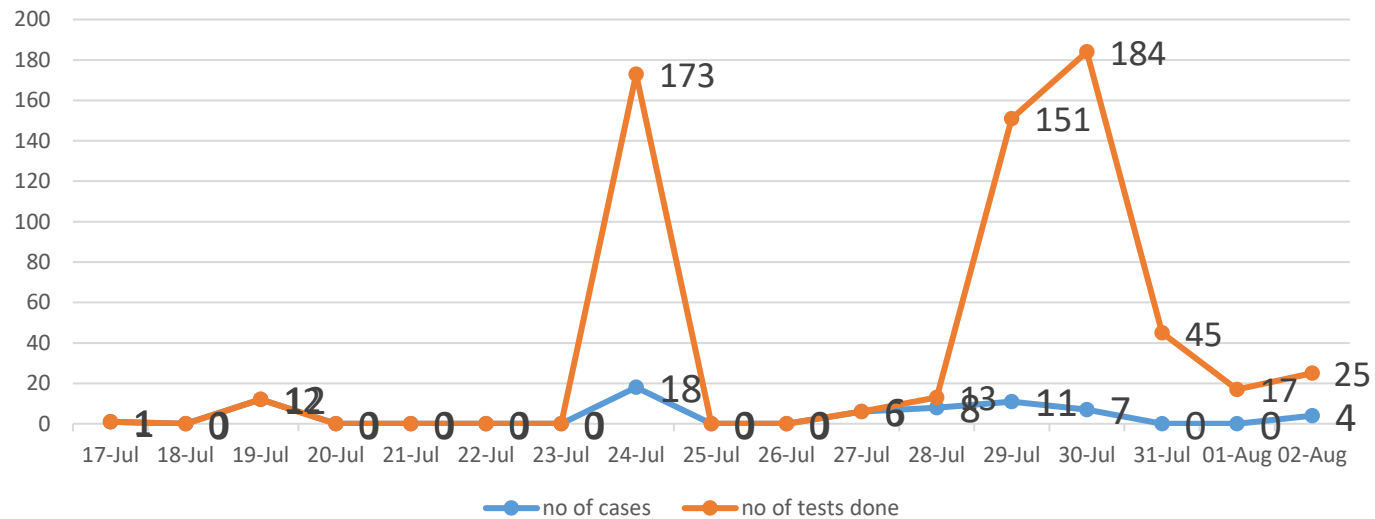
Name of Cluster	Type of Cluster (Large/Limited/Institutional/Closed)	Total Tests performed in the cluster	Total Number of Cases from the Cluster	Number of tests done on from last three	Number of locally acquired cases reported in last three days	Total deaths due to COVID in the cluster	Current Status of Cluster (Active/Contained-Contained if no locally acquired cases in last 7 days)	Trend in Cluster based on Number of locally acquired cases (Increasing/Decreasing/Static)
ERAMALA	Limited	590	45	270	1	0	Active	static
VILLIAPPALLI	Limited	607	32	0	0	0	Active	static
CHEKIAD	Limited	343	40	0	0	0	Active	static
OLAVANNA	LARGE	806	71	400	5	0	Active	inc
CHORODE	Limited	341	24	26	1	0	Active	Increasing
CRESCENT-VELLAYIL	Limited	800	13	0	0	0	Inactive	contained
KOLATHARA	Limited	478	10	0	0	0	Inactive	Contained/static
PUTHUPADI	Limited	282	26	54	4	0	Active	inc
THIRUVALLUR	Limited	314	31	164	5	0	Active	Static
KALLAYI(Pallikandy+Panniyankara)	LIMITED	631	21+11	7	1	3	Active	Increasing
MEENCHANDHA	LIMITED	299	24	7	4	0	Active	Increasing
THOONERI	LARGE	1173	75	145	pendg	0	Active	static
NADAPURAM	LARGE	759	53	48	1	0	Active	static
VADAKARA	LARGE	1390	61	87	4	0	Active	static
VANIMEL	LIMITED	509	27	0	0	0	Active	decreasing

	A. Total Tests Performed	B. Total Locally acquired cases	C. Test Positivity Rate (B/A*100%)
Week 1 (Date from 17/7-23/7)	13	13	100
Week 2 (Date from 24/7-30/7)	396	43	10.85%
Week 3(Date from 31/7- )	397+	15+	3.77%
Total	806	71	8.80%



Week	A. Total Tests Performed	B. Total Locally acquired cases	C. Test Positivity Rate (B/A*100%)
Week 1 (Date from 13/7 -19/7)	579	16	2.76%
Week 2 (Date from 20/7-26/7)	317	28	8.83%
Week 3(Date from 27/7- )	616	20	3.24%
Total	1390	61	4.38%

vadakara



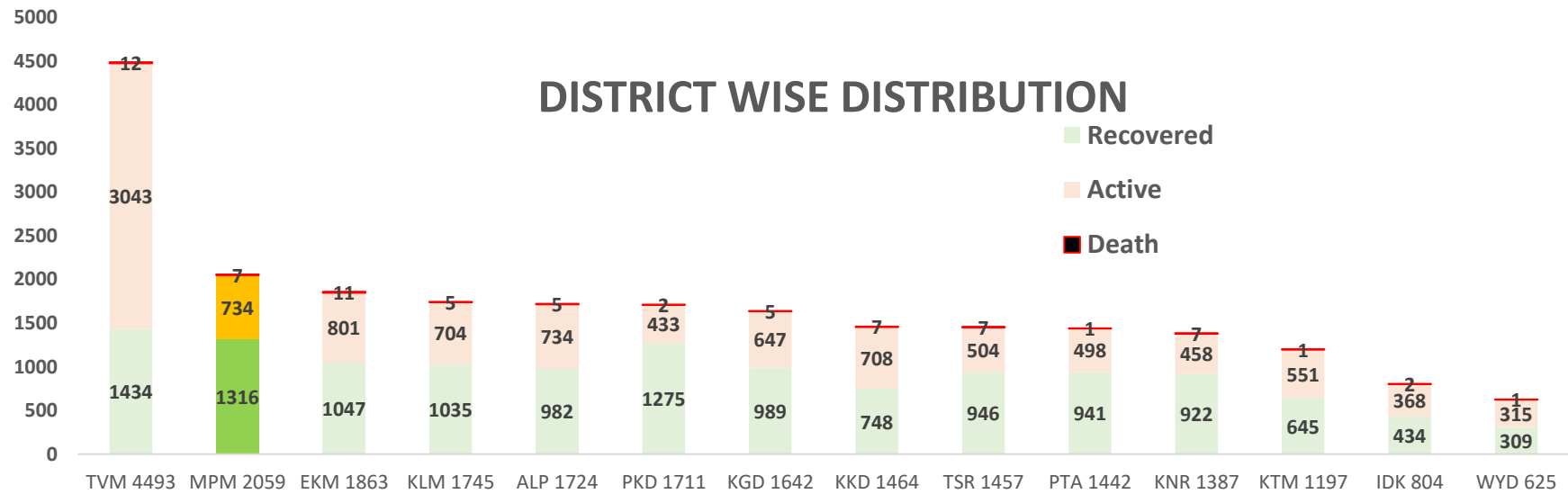
	<b>Large Community Clusters</b>	<b>Limited Community Clusters</b>	<b>Institutional Clusters</b>	<b>Closed Community Clusters</b>	<b>Total</b>
Total Number	4	11	2	0	15
Active	4	9	2	0	13
Contained	0	2	0	0	2
Total Locally acquired Cases	243	281	30	0	547
Total Deaths	0	4	0	0	4
% of Total Cases reported in active clusters in July out of total reported in the district in July-(711)	34%	39.52%	4.21%	0	76.93%

## MALAPPURAM

### Malappuram- COVID scenario

	<b>KERALA</b>	<b>MPM</b>	<b>Percentage</b>
<b>Population 2011 census</b>	33406061	41,12,920	12.31
<b>Total Number of CONFIRMED Cases</b>	23613	2059	8.72
<b>Total cases recovered</b>	13023	1316	10.11
<b>Deaths</b>	73	7	9.59
<b>Total Active Cases</b>	10498	734	6.99
<b>Cases per 1 lakh population</b>	71	50	
<b>Case fatality % (death/cases)</b>	0.31	0.34	
<b>TYPE OF CASE</b>			
<b>IMPORT (Travelled to Kerala)</b>	9606	1283	13.36
<b>THROUGH CONTACT</b>	14007	778	5.55
<b>TOTAL</b>	23613	2061	8.73
<b>Proportion of Locally Acquired Cases %</b>	59.32	37.75	
<b>Imported: Locally Acquired Ratio</b>	0.69	1.65	
<b>SURVEILLANCE</b>			
<b>Total people currently under observation</b>	58702	4364	7.43
<b>Primary contacts</b>	45581	4265	9.36
<b>Secondary contacts</b>	13121	99	0.75

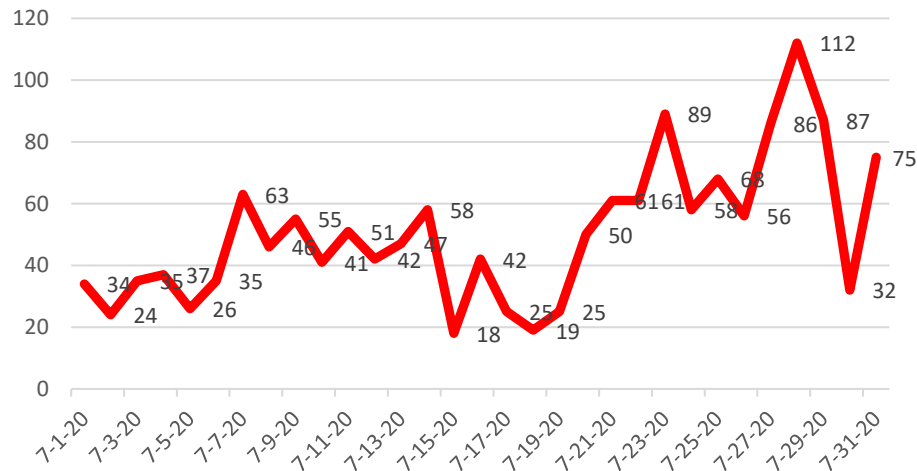
Malappuram constituted 1558 (8 %) of COVID cases reported in July 2020 and 8.72 % of total cases in the state.



Recovery rate is 64 % as on 31-07-2020

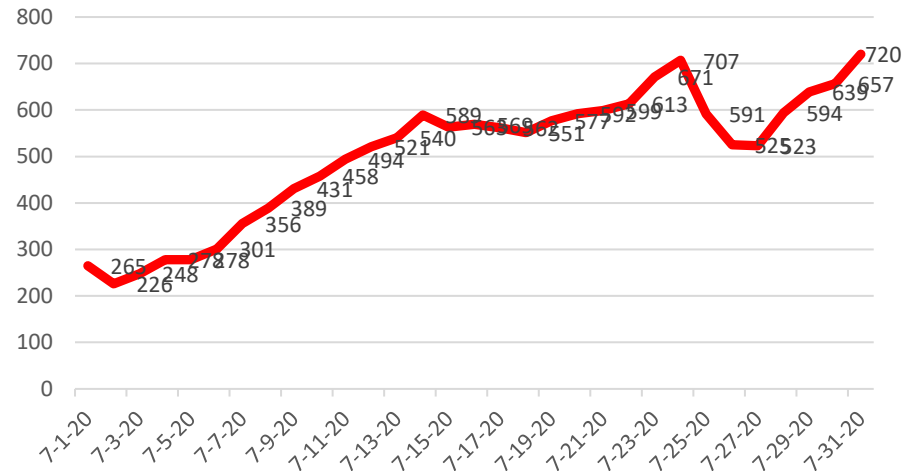
**Daily new cases – JULY 2020**

**MPM**



**Active cases – JULY 2020**

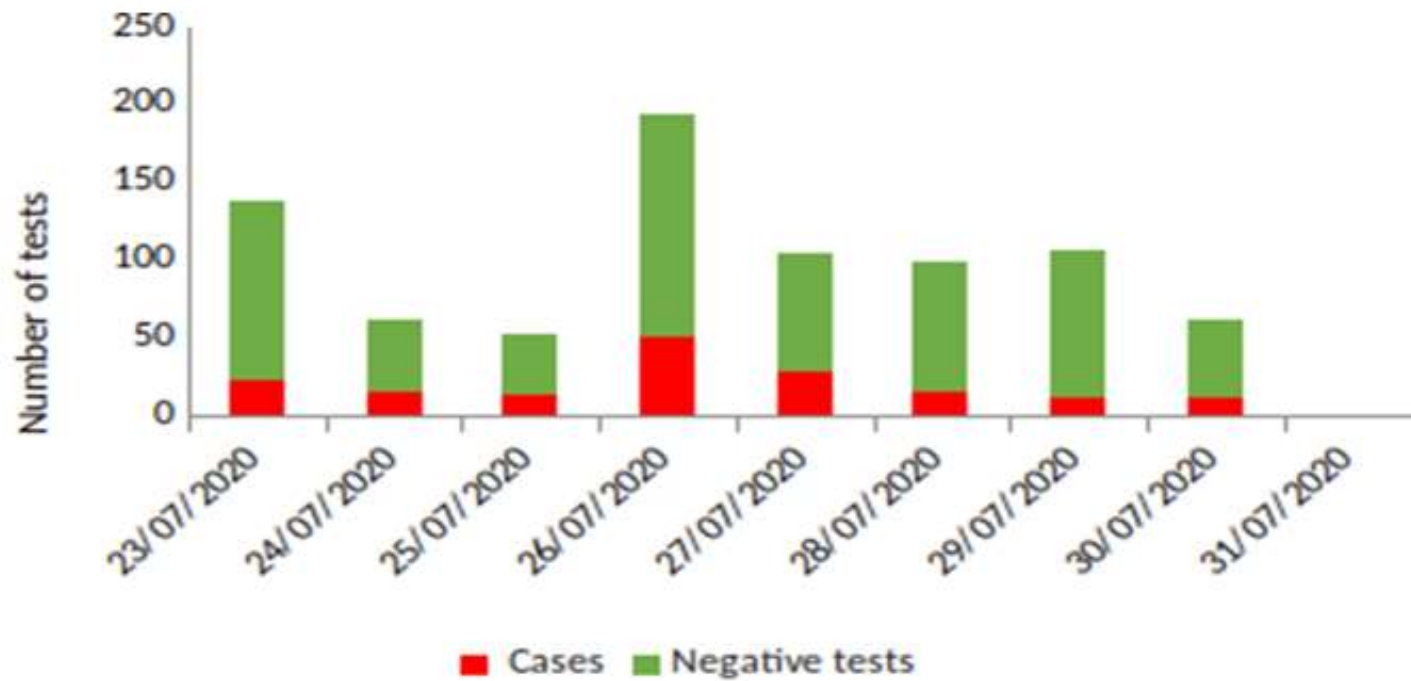
**MPM**



Kondotty Fish Market Cluster- Malappuram



## No of tests done and positive cases in Kondotty cluster, Malappuram



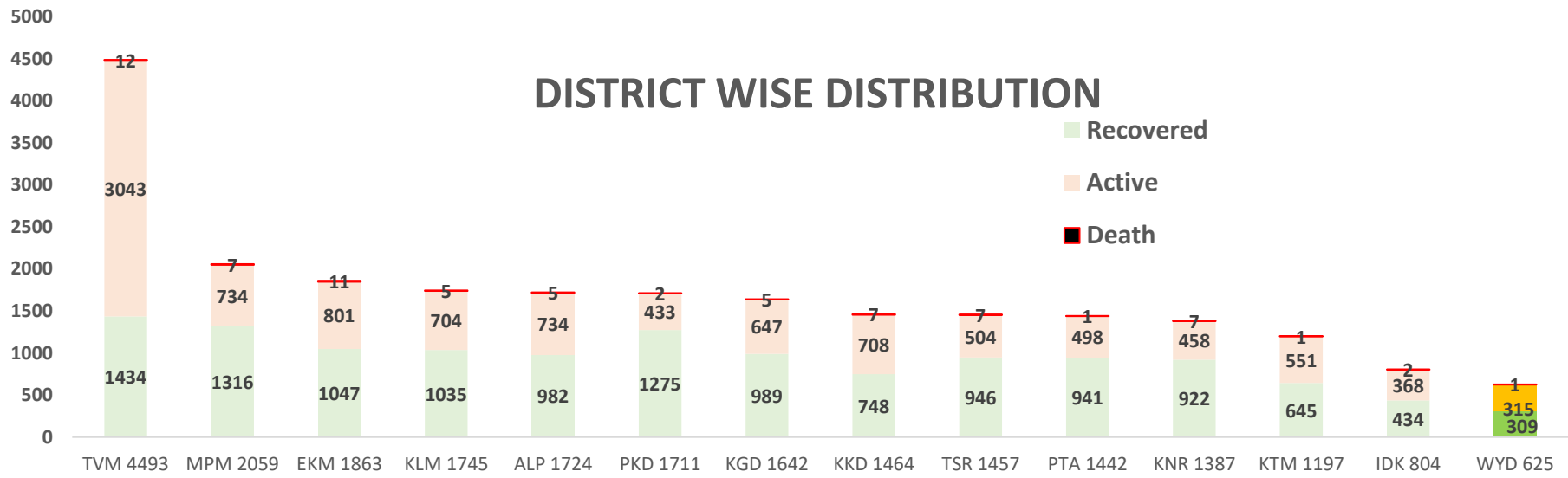


## WAYANAD

### Wayanad - COVID scenario

	KERALA	WYD	Percentage
Population 2011 census	33406061	8,17,420	2.45
Total Number of CONFIRMED Cases	23613	625	2.65
Total cases recovered	13023	309	2.37
Deaths	73	1	1.37
Total Active Cases	10498	315	3.00
Cases per 1 lakh population	71	76	
Case fatality % (death/cases)	0.31	0.16	
<b>TYPE OF CASE</b>			
IMPORT (Travelled to Kerala)	9606	303	3.15
THROUGH CONTACT	14007	322	2.30
TOTAL	23613	625	2.65
Proportion of Locally Acquired Cases %	59.32	51.52	
Imported: Locally Acquired Ratio	0.69	0.94	
<b>SURVEILLANCE</b>			
Total people currently under observation	58702	847	1.44
Primary contacts	45581	365	0.80
Secondary contacts	13121	482	3.67

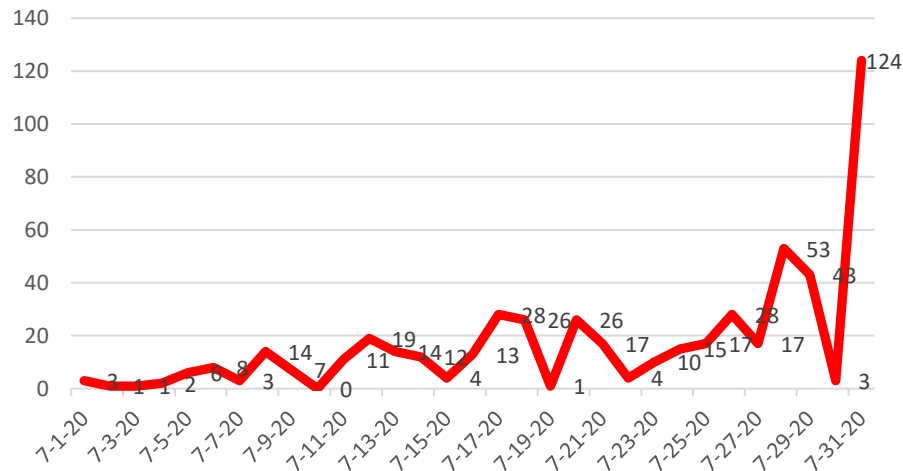
Wayanad constituted 530 (3 %) of COVID cases reported in July 2020 and 2.65 % of total cases in the state.



Recovery rate is 49.4 % as on 31-07-2020

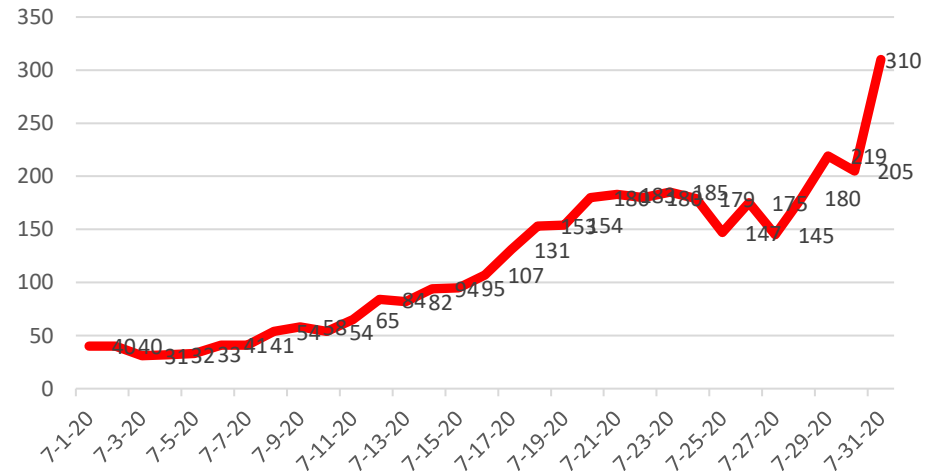
**Daily new cases – JULY 2020**

WYD



**Active cases – JULY 2020**

WYD





Name of Cluster	Type of Cluster (Large/Limited/Institutional/ Closed)	Total Tests performed in the cluster	Total Number of Cases from the Cluster	Number of tests done on from 29-31 <sup>st</sup> July	Number of locally acquired cases reported in 29-31 <sup>s</sup> July	Total deaths due to COVID in the cluster	Current Status of Cluster (Active/Contained- Contained if no locally acquired cases in last 7 days)	Trend in Cluster based on Number of locally acquired cases (Increasing/Decreasing/ Static)
<b>Mattilayam Thondernad</b>	Limited	173	26	2	0	0	contained	Decreasing
<b>MKT-Chethalayam</b>	Limited	561	26	277	0	0	Active	Decreasing
<b>Sheebodi - Valad</b>	Large	1762	195	920	76	0	Active	increasing

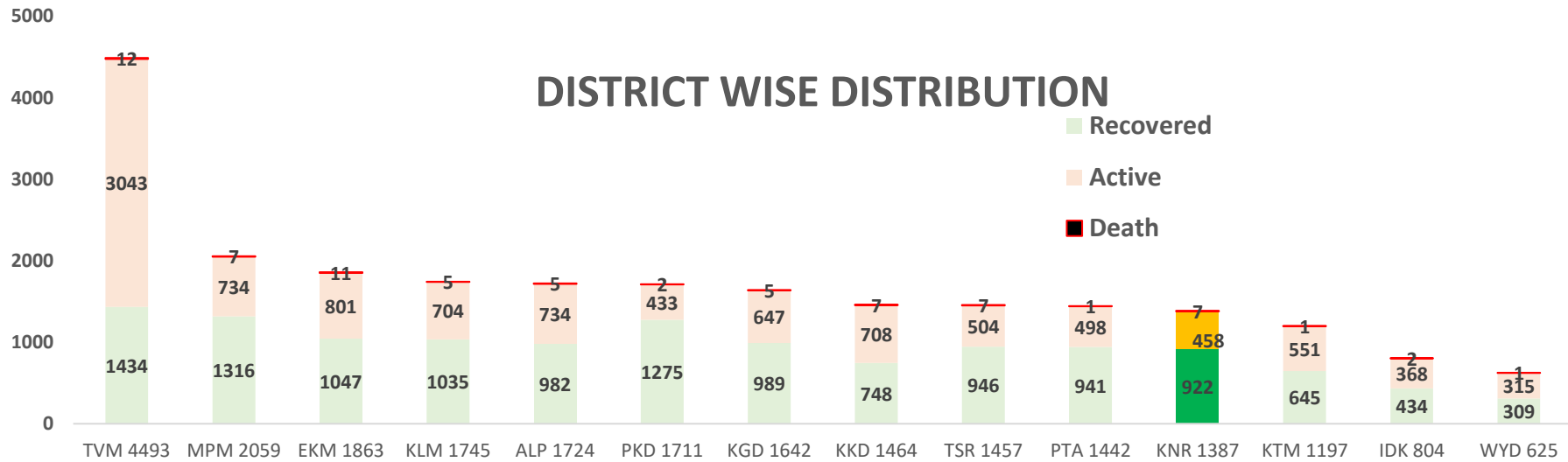
	Large Community Clusters	Limited Community Clusters	Institutional Clusters	Closed Community Clusters	Total
Total Number	1	2	0	0	3
Active	1	1	0	0	2
Contained	0	1	0	0	1
Total Locally acquired Cases	195	52	0	0	247
Total Deaths	0	0	0	0	0
% of Total Cases reported in active clusters in July out of total new cases reported in the district in July	36 %	9.7 %			

## KANNUR

### Kannur - COVID scenario

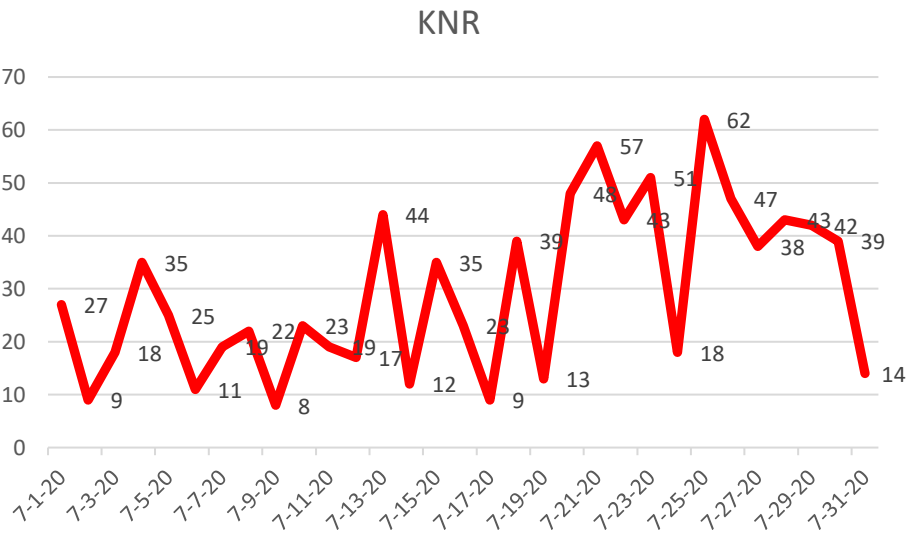
	<b>KERALA</b>	<b>KNR</b>	<b>Percentage</b>
<b>Population 2011 census</b>	33406061	25,23,003	7.55
<b>Total Number of CONFIRMED Cases</b>	23613	1387	5.87
<b>Total cases recovered</b>	13023	922	7.08
<b>Deaths</b>	73	7	9.59
<b>Total Active Cases</b>	10498	458	4.36
<b>Cases per 1 lakh population</b>	71	55	
<b>Case fatality % (death/cases)</b>	0.31	0.50	
<b>TYPE OF CASE</b>			
<b>IMPORT (Travelled to Kerala)</b>	9606	924	9.62
<b>THROUGH CONTACT</b>	14007	466	3.33
<b>TOTAL</b>	23613	1390	5.89
<b>Proportion of Locally Acquired Cases %</b>	59.32	33.53	
<b>Imported: Locally Acquired Ratio</b>	0.69	1.98	
<b>SURVEILLANCE</b>			
<b>Total people currently under observation</b>	58702	9180	15.64
<b>Primary contacts</b>	45581	7083	15.54
<b>Secondary contacts</b>	13121	2097	15.98

Kannur constituted 910 (5 %) of COVID cases reported in July 2020 and 5.87 % of total cases in the state.

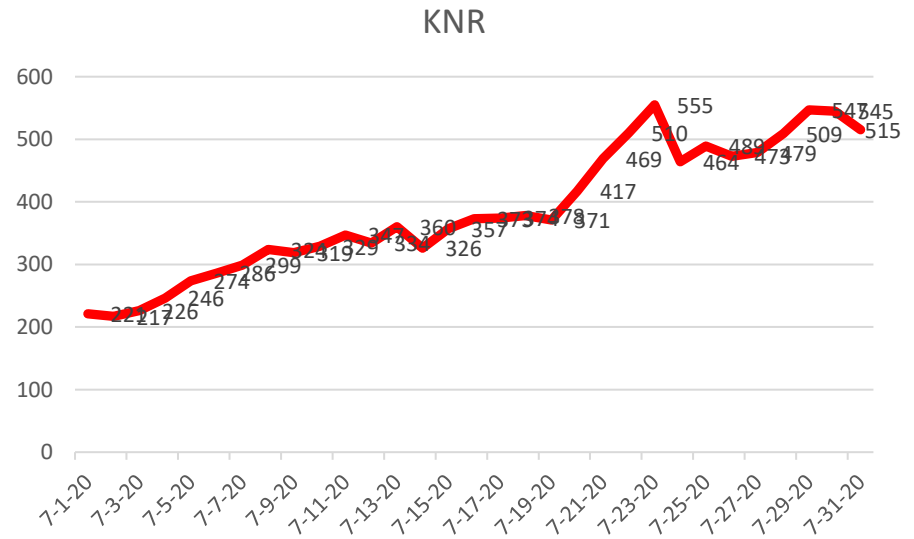


Recovery rate is 66.5 % as on 31-07-2020

**Daily new cases – JULY 2020**



**Active cases – JULY 2020**





Name of Cluster	Type of Cluster	Total Tests performed in the cluster	Total Number of Cases from the Cluster	Number of tests done on from 30 July-1 <sup>st</sup> Aug	Number of locally acquired cases reported in 30 July -1 <sup>st</sup> Aug	Total deaths due to COVID in the cluster	Current Status of Cluster (Active/Contained- Contained if no locally acquired cases in last 7 days)	Trend in Cluster based on Number of locally acquired cases
<b>CISF</b>	Closed	173	76	0	0	0	Active	Decreasing
<b>DSC</b>	Closed	144	93	1	2	0	Active	Increasing
<b>Kunothparamba,wd 10</b>	Limited	277	26	0	0	1	Contained	Contained
<b>Fire station</b>	Institutional	342	25	49	3	0	Active	Increasing
<b>Kadavatoor UP School</b>	Institutional	147	6	92	0	0	Contained	Contained
<b>GMC Kannur</b>	Institutional	1044	114	276	29	2	Active	Increasing

	Large Community Clusters	Limited Community Clusters	Institutional Clusters	Closed Community Clusters	Total
Total Number	0	1	3	2	6
Active	0	0	2	2	4
Contained	0	1	1	0	2
Total Locally acquired Cases	0	26	145	169	340
Total Deaths	0	1	1	0	2
% of Total Cases reported in active clusters in July out of total new cases reported in the district in July	0	3%	15%	18%	36%

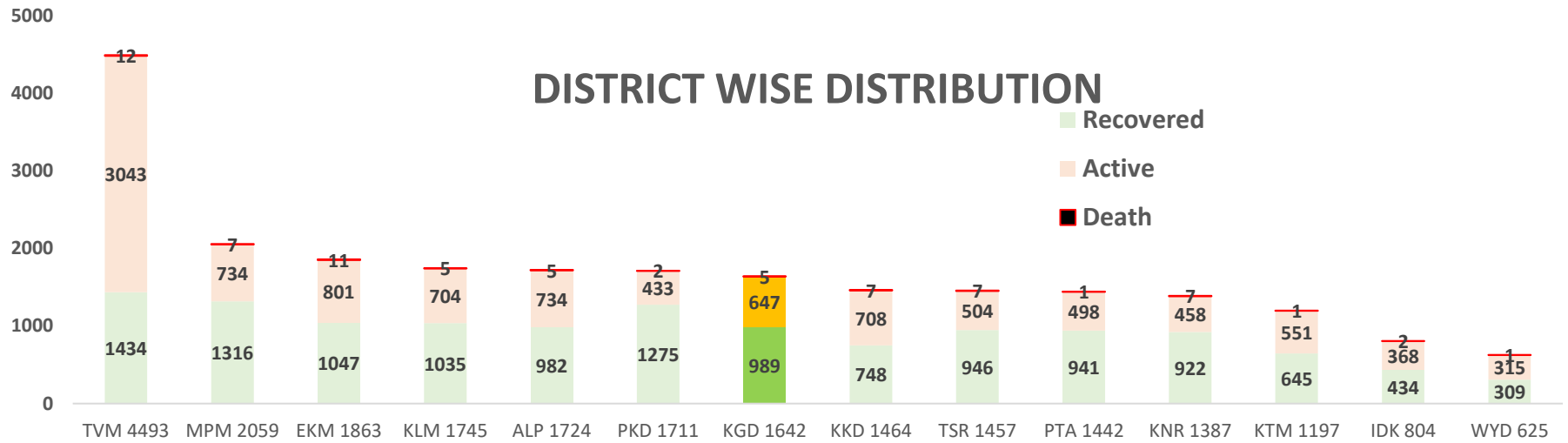


## KASARAGOD

### Kasaragod - COVID scenario

	<b>KERALA</b>	<b>KGD</b>	<b>Percentage</b>
<b>Population 2011 census</b>	33406061	13,07,375	3.91
<b>Total Number of CONFIRMED Cases</b>	23613	1642	6.95
<b>Total cases recovered</b>	13023	989	7.59
<b>Deaths</b>	73	5	6.85
<b>Total Active Cases</b>	10498	647	6.16
<b>Cases per 1 lakh population</b>	71	126	
<b>Case fatality % (death/cases)</b>	0.31	0.30	
<b>TYPE OF CASE</b>			
<b>IMPORT (Travelled to Kerala)</b>	9606	667	6.94
<b>THROUGH CONTACT</b>	14007	975	6.96
<b>TOTAL</b>	23613	1642	6.95
<b>Proportion of Locally Acquired Cases %</b>	59.32	59.38	
<b>Imported: Locally Acquired Ratio</b>	0.69	0.68	
<b>SURVEILLANCE</b>			
<b>Total people currently under observation</b>	58702	586	1.00
<b>Primary contacts</b>	45581	471	1.03
<b>Secondary contacts</b>	13121	115	0.88

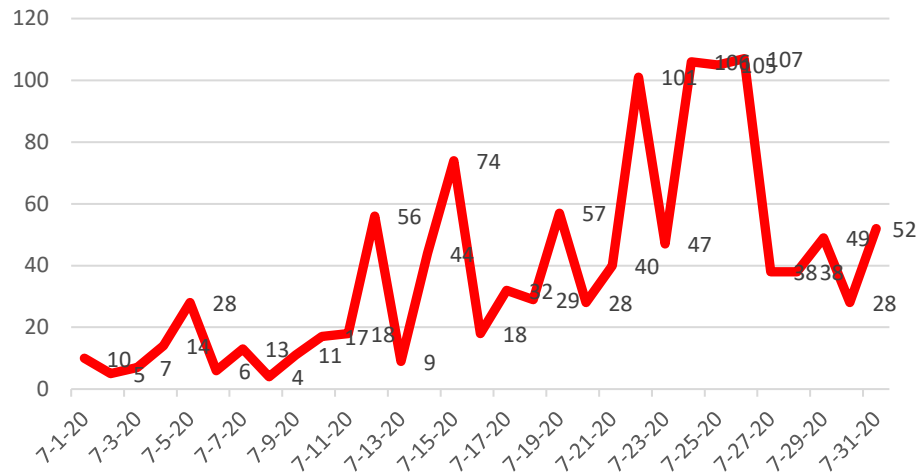
Kasaragod constituted 1191 (6 %) of COVID cases reported in July 2020 and 6.95 % of total cases in the state.



Recovery rate is 60.2 % as on 31-07-2020

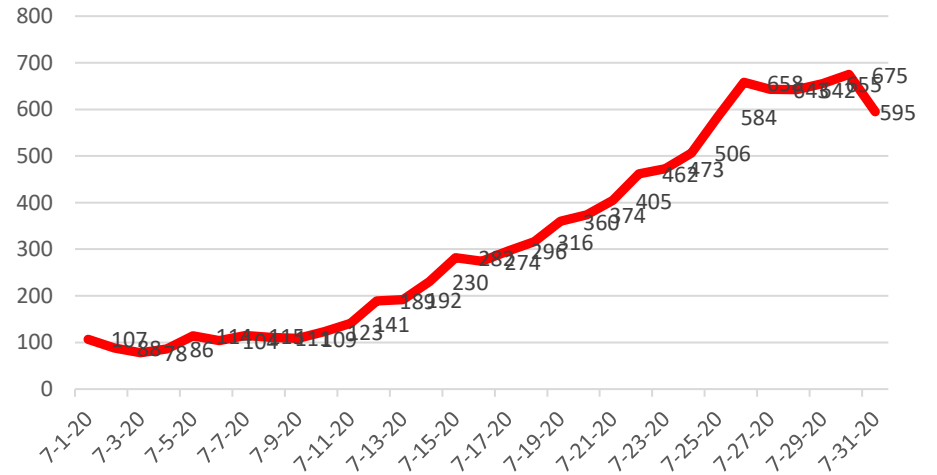
#### Daily new cases – JULY 2020

KSD

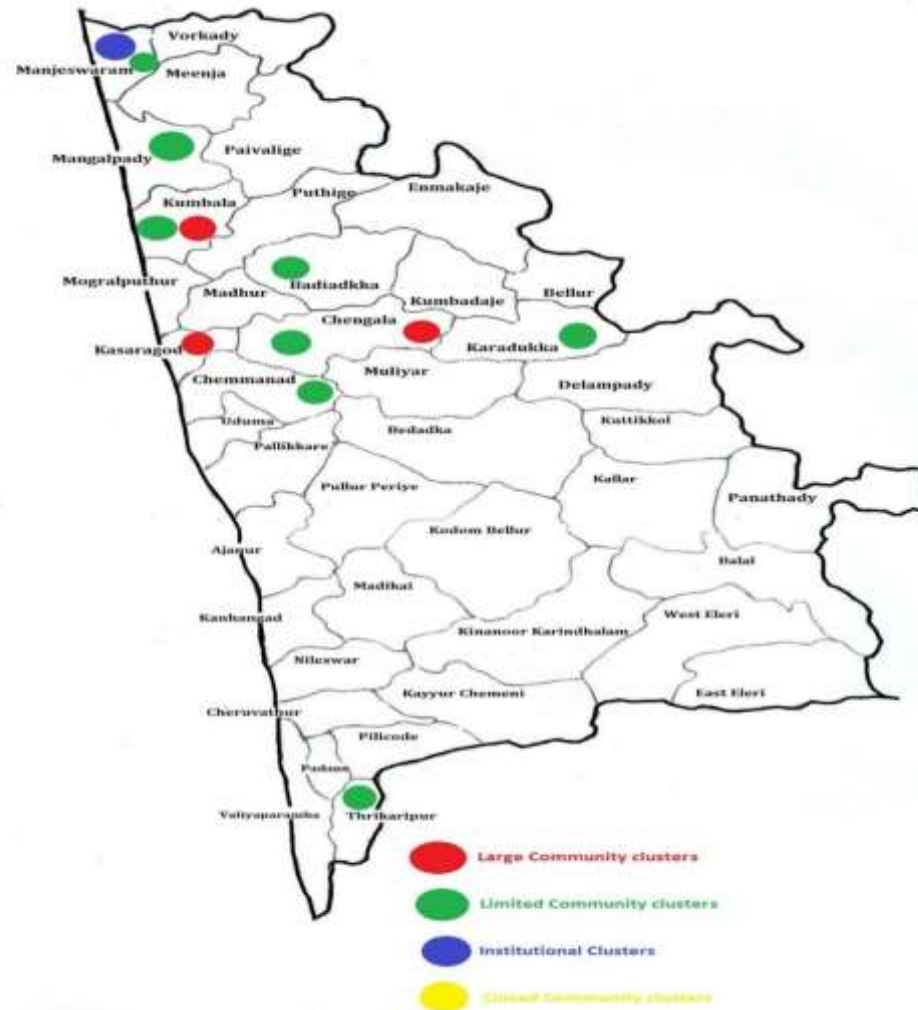


#### Active cases – JULY 2020

KSD



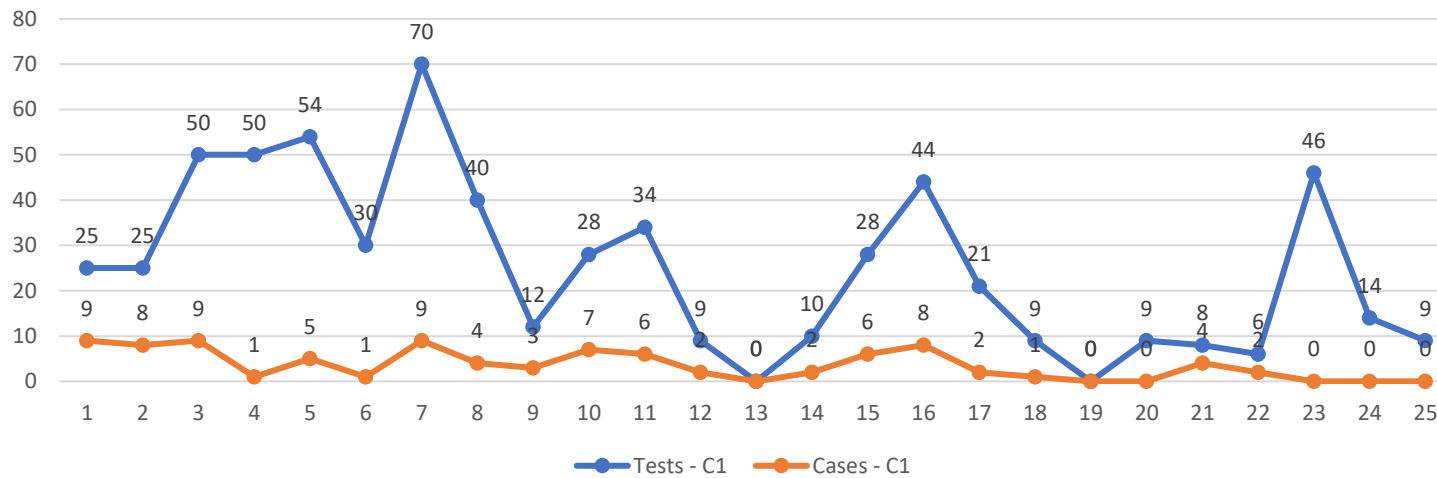
### District Map Showing Clusters- Kasaragod



Name of Cluster	Type of Cluster(Large/Limited/Institutional/ Closed)	Total Tests performed in the cluster	Total Number of Cases from the Cluster	Number of tests done on from 29-31 <sup>st</sup> July	Number of locally acquired cases reported in 29-31 <sup>st</sup> July	Total deaths due to COVID in the cluster	Current Status of Cluster(Active/Contained-Contained if no locally acquired cases in last 7 days)	Trend in Cluster based on Number of locally acquired cases
<b>Kasaragod Market – C1</b>	Large	631	89	69	0	0	Active	Static
<b>Chengala Funeral Cluster – C2</b>	Limited	532	49	10	0	0	Active	Decreasing
<b>Priyadarsini Lab Manjeswar – C3</b>	Institutions	202	9	0	0	0	Contained	-
<b>Mangalapady Ward 3 – C4</b>	Limited	285	10	18	0	1	Active	Static
<b>Manjeswar ward11,12,13 – C5</b>	Limited	258	23	9	0	0	Active	Static
<b>Kumbla market Cluster –C6</b>	Limited	233	25	11	0	0	Active	Decreasing
<b>Nattakkallu – C7</b>	Limited	123	32	21	0	0	Active	Decreasing
<b>Neerchal – C8</b>	Limited	88	15	24	1	0	Active	Decreasing
<b>Kumbla Ward 1 –C9</b>	Large	242	56	46	3	0	Active	Decreasing
<b>Chengala Marriage Cluster – C10</b>	Large	149	54	16	4	0	Active	Decreasing
<b>Chemmanand Marriage &amp; Funeral Cluster – C11</b>	Limited	86	22	31	2	0	Active	Decreasing
<b>Thrikkaripur Marriage Cluster – C12</b>	Limited	81	13	81	13	1	Active	Decreasing

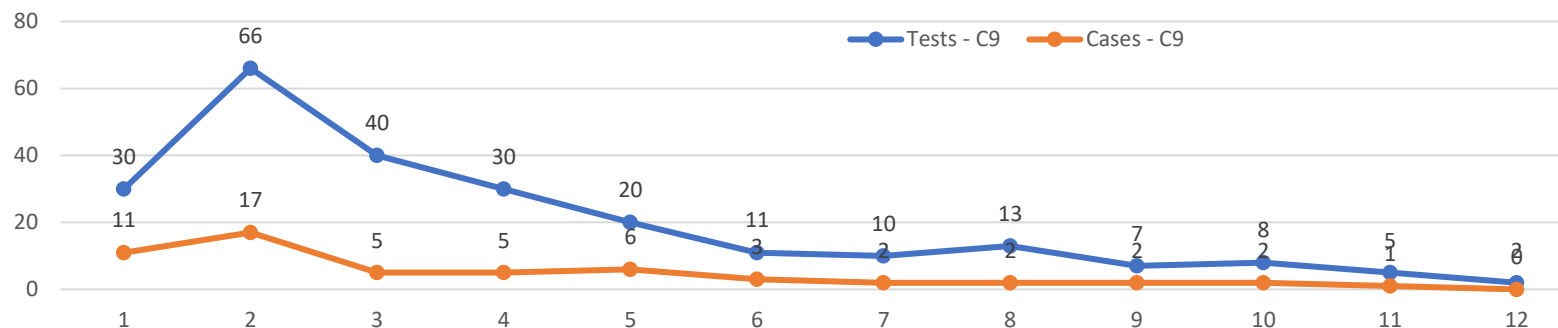
	A. Total Tests Performed	B. Total Locally acquired cases	C. Test Positivity Rate (B/A*100%)
Week 1 (Date 7/7 to 13/7)	304	42	13.81%
Week 2 (Date 14/7 to 20/7)	133	24	18.04%
Week 3 (Date 21/7 to 27/7)	114	17	15.31%
Week 4 (Date 28/7 to 31/7)	80	6	7.5%
Total	631	89	14.1%

**Kasaragod Market Cluster – C1 - from 7/7/2020 to 31/7/2020**



	A. Total Tests Performed	B. Locally acquired cases	C. Positivity Rate (B/A*100%)
Week 1 (Date 20/7 to 26/7)	190	49	25.78%
Week 2 (Date 27/7 to 31/7)	52	7	13.4%
Total	242	56	23.14

### Kumbla Ward 1 Cluster – C9 - from 20/7/2020 to 31/7/2020



	Large Community Clusters	Limited Community Clusters	Institutional Clusters	Closed Community Clusters	Total
<b>Total Number</b>	3	8	1	0	12
<b>Active</b>	3	8	0	-	11
<b>Contained</b>	0	0	1	-	1
<b>Total Locally acquired Cases</b>	199	189	9	-	397
<b>Total Deaths</b>	0	2	0	-	2
<b>% of Total Cases reported in active clusters in July out of total new cases reported in the district in July</b>	17.50%	16.50%	-	-	34%



**COVID-19 Outbreak Control and Prevention State Cell**  
**Health & Family Welfare Department**  
**Government of Kerala**

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**COVID-19 CLUSTER CONTAINMENT- MONITORING**

**NO: 31/F2/2020/Health- 14<sup>th</sup> July 2020**

The department has put in Sentinel Surveillance mechanism and through the District Surveillance field units identified the clusters of cases. A detailed report and action plan was submitted. Accordingly the districts administration and health administration have been instructed to take up the interventions.

In order to ensure the activities in the district in the respective clusters, it is necessary to have the specific unit to monitor the Cluster containment activities.

Dr Sarita R L, Director Health Services shall have a designated officers unit and monitor the cluster containment activities on daily basis. The DHS shall report to Prl Secretary and Minister Health & Family Welfare any emergency activity immediately so as to take up policy decisions and implementation.

District Administration to map cases on a daily basis and identify newly evolving clusters and initiate timely containment action. Advisory for preparing spot map has been issued on 2<sup>nd</sup> July 2020/

## Definition of a Cluster

Term		Definition
<b>Large Cluster</b>	<b>Community</b>	-More than 50 locally transmitted cases in an identified geographical area [LSG area] AND -If more than 10% of wards/ divisions are eligible to be fit into the definition of limited community clusters.
<b>Limited Cluster</b>	<b>Community</b>	More than or equal to 2 locally transmitted cases in a division/ward within the last 14 days but not in same households.
<b>Closed Cluster</b>	<b>Community</b>	More than or equal to two cases of locally transmitted cases in 'closed community' like CISF camps/ Defence camps/ Labour camps etc. within the last 14 days
<b>Institutional Cluster</b>		More than or equal to two cases of locally transmitted cases in an institution like Hospital/ Office within the last 14 days

### When to call a cluster is Contained?

A cluster can be called contained when there are no locally acquired cases from the cluster within past 7 days. Rest all clusters are called Active.

### CLUSTER SPECIFIC ACTION PLAN

Cluster specific action plan to include the following activities

1. Contact Tracing



2. Active Case Finding
3. Intense Testing
4. Reverse Quarantine
5. Information Education Communication
6. Intersectoral coordination
7. Involvement of community leaders, NGOs, Community
8. Mobilisation of vehicles for transportation
9. Setting up of CFLTC
10. Ensure Psychosocial support to people in containment zone
11. Ensuring good quality quarantine
12. Addressing other medical needs of people in cluster zone

#### **Daily Review of activities at District level**

1. Daily COVID trend within the cluster
2. COVID Testing status within clusters (samples sent category wise, pending results, positivity, logistics etc)
3. Review of trend of fever, ARI/ILI, Pneumonia and unknown death
4. Review of number of persons in quarantine (travellers, contacts; primary/secondary, HCW) within the cluster
5. Review action taken reports from clusters regarding all 12 parameters and provide recommendations
6. Occupancy status of CFLTCs, COVID hospitals and critically ill patients' status
7. Review of Cluster specific IEC activities

## Report to State level

District shall report details of activities daily to state along with the following format

District:

Name of Cluster (Specific-eg Ward 8, X Panchayat)	Status (Active/ Contained)	Type of cluster (As per the four terms- Large/Small/ Closed/ Institutional)	Total Tests Performed within the cluster	Total confirmed cases within the cluster	Total Deaths due to COVID within the cluster	Total Test performed within last 24 hours	Total confirmed cases within last 24 hours	Deaths within the cluster within last 24 hours

**KEY SNAPSHOT INDICATORS FOR CLUSTER CONTAINMENT ZONES:**

NAME OF CLSUTER :.....

DATE:...../...../.....

Sl.no	Description	Number	Remarks: (trend as compared to last 3 days; increasing, decreasing, steady)
1	No. of <b>Confirmed COVID</b> Deaths in last 24 hrs from cluster containment zone		
2	No. of <b>samples collected</b> (RT-PCR & Antigen) in last 24 hrs from cluster containment zone		
3	No. of <b>new positive cases</b> of COVID-19 in last 24 hrs from cluster containment zone		
4	<b>Bed Occupancy</b> (%) of CFLTCs at present in the cluster containment zone		
5	No of patients <b>referred to COVID Hospitals</b> in the last 24 hrs from cluster containment zone.		
6	Any <b>Early Warning Signals</b> Fever, Influenza Like Illness, Diarrhoeas, Pneumonia, Unknown Deaths		

Districts are directed to update any early warning signals to DHS real time.

### **Review of activities at State level**

All activities and data of clusters will be directly monitored by Director of Health Services.

A daily report of status and activities at all active clusters need to be prepared at state level daily.

**Principal Secretary**

## **Acknowledgement**

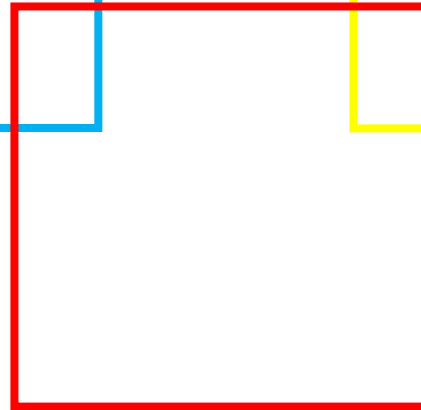
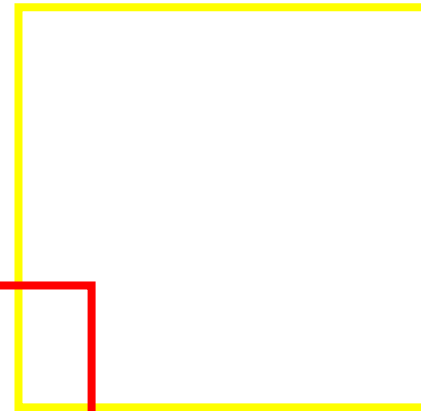
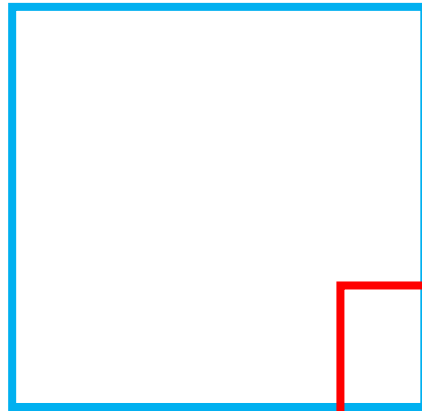
The Department of H&FW is taking efforts to do the capacity building of the field functionaries so as to get a multiplier results. It is very evident that the teams have gained rich experience as well as the capabilities to do analysis and interpretation of data. The comprehensive State report on clusters shows the capacities of District Surveillance Units and the field functionaries.

This report could be published only because of the dedicated teamwork done by the District Surveillance Units and the other health officers in the districts. The guidance given to them by the State surveillance unit and the Cluster management unit headed by Dr Saritha R L Director Health Services enabled to collate the information. The cluster management unit does daily monitoring of all the clusters in the State.

The District Collectors are spearheading the fight against COVID in the respective districts. Their guidance in Cluster containment is noteworthy.

We earnestly appreciate the work of one and all.

Dr Rajan Khobragade  
Principal Secretary  
Health & Family Welfare  
Government of Kerala



Department of Health & Family Welfare  
Government of Kerala  
Annexe II, Secretariat  
Thiruvananthapuram  
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