

BMC Covid-19 Response War Room Dashboard

Sep 16, 2020



CONFIDENTIAL AND PROPRIETARY. Any use of this material without specific permission of the owner is strictly prohibited. The information included in this report is intended to inform management judgement only and will not contain, nor are they for the purpose of constituting or informing, policy judgments or advice. We emphasize that statements of expectation, forecasts and projections relate to future events and are based on assumptions that may not remain valid for the whole of the relevant period. Consequently, they cannot be relied upon, and we express no opinion as to how closely the actual results achieved will correspond to any statements of expectation, forecasts or projections. We make no representation or warranty of any kind, express or implied, regarding the accuracy, adequacy, validity, reliability, availability or completeness of any information in these materials. Under no circumstance shall we have any liability to you for any loss or damage of any kind incurred as a result of the use of these materials or reliance on any information provided in these materials.



Mumbai COVID19 status at a glance

As of Sep 15, 2020

COVID19 Case Analysis			COVID19 Bed Management (As on 02:00 PM, Sep 16, 2020)		CCC1 Facilities				Contact Tracing	Past 24hrs	Cumulative	
Total Positive	1,73,534		Bed Capacity (DCHC+DCH+CCC2)	17,509		Facilities (#)	Bed Capacity	Occupancy	Total Traced	26,200	26,27,494	
			Occupied	11,737					High Risk	13,583	9,85,513	
Discharged	1,34,066		Available	5,772	Total	334	46,589	2,422	Low Risk	12,617	16,41,981	
					Active	43	17,698	2,422	Total Quarantine Completed			22,92,075
Deaths	8,227		DCH & DCHC Bed Capacity	14,344	Buffer	15	2,158	-	Currently in Home Quarantine			3,32,997
Deaths with Age > 50yrs – 6,913)			Occupied	9,944	Reserve [#]	276	26,733	-	Others			
			Available	4,400	CCC2 Facilities				Senior Citizens Screened till date		10,06,039	
Total Active	30,879		ICU Bed Capacity	1,772		Facilities (#)	Bed Capacity	Occupancy	Senior Citizens with SPO2 > 95		10,03,145	
Stable – Asymptomatic	21,475		Occupied	1,619	Total	181	23,693	1,780	Active Containment Zones – Slums & Chawls		601	
			Available	153	Active	24	2,941	1,780	Active Sealed Buildings		8,992	
Stable - Symptomatic	8,143		O2 Bed Capacity	8,820	Buffer	13	2,330	-	Calls Centre Calls Flow		2,68,039	
			Occupied	5,872	Reserve [#]	144	18,422	-				
Critical	1,261		Available	2,948	# Facilities that have been deactivated and can be used as per need							
Tests Done (till date)	9,50,112		Ventilator Bed Capacity	1,103								
% of Positive (till date)	18.26		Occupied	1,040								
			Available	63								

Ward wise positive cases

Wards	RC	RN	KW	RS	HW	D	T	PS	B	MW	PN	FN	HE	C	ME	KE	A	N	E	GN	GS	FS	S	L	Overall Mumbai
Positive Cases	10537	4866	10139	8999	5185	7627	7763	6112	1467	4955	10302	6590	5609	2429	5666	10232	4252	8665	6462	9520	6992	7526	8819	6829	
Days to double	41	41	42	44	45	46	46	48	49	53	54	55	56	60	60	63	66	66	67	67	70	71	76	81	55

1 Ward-wise break up is as on Sep 15, 2020, available for 1,67,543 cases

Data subject to change after scrutiny and ongoing verification process



Key Trends

Contact tracing and home quarantine

Status of COVID19 Positive Cases

Bed Capacity

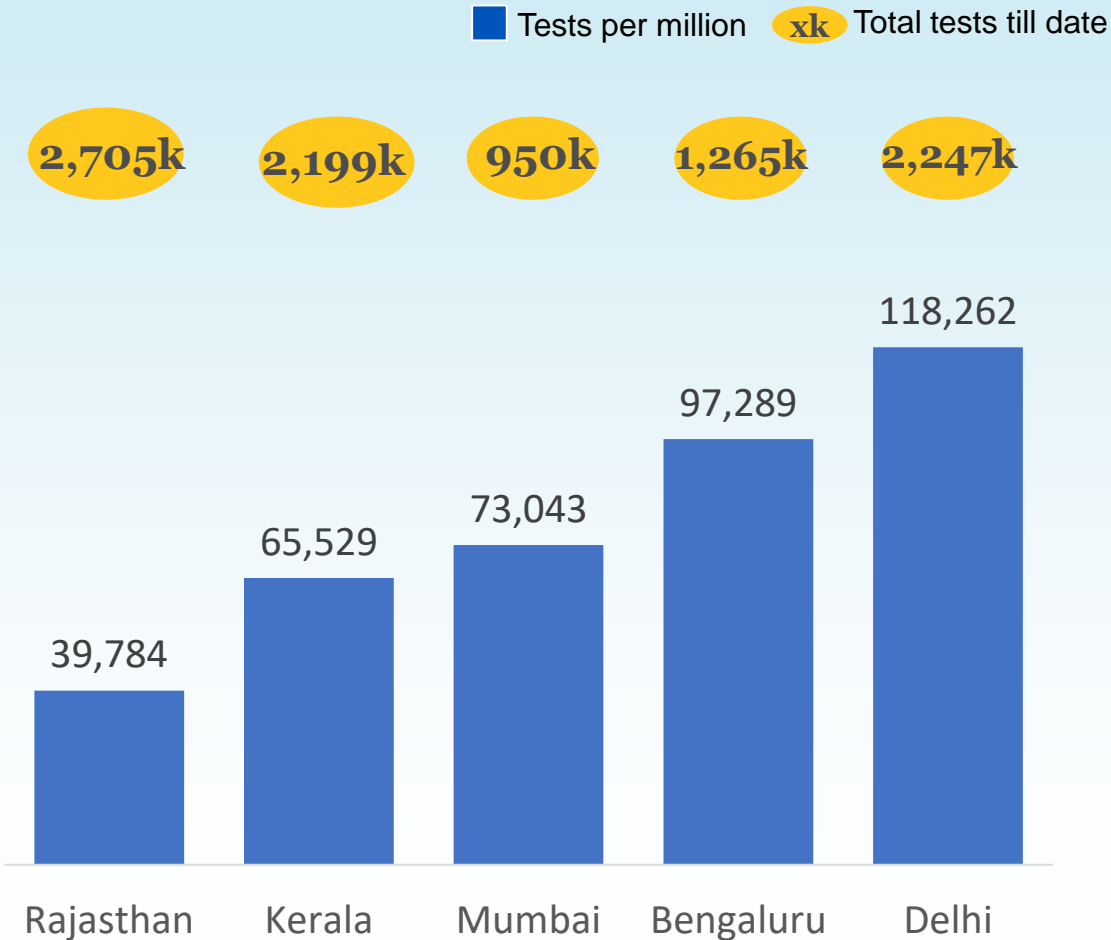
Other initiatives



Tests/ million data for COVID-19

For all tests conducted from Feb 3, 2020 to Sep 15, 2020

Tests per million



Source: Government COVID bulletins as of Sep 15 2020

Mumbai is one of the leading cities in tests per million compared to other cities

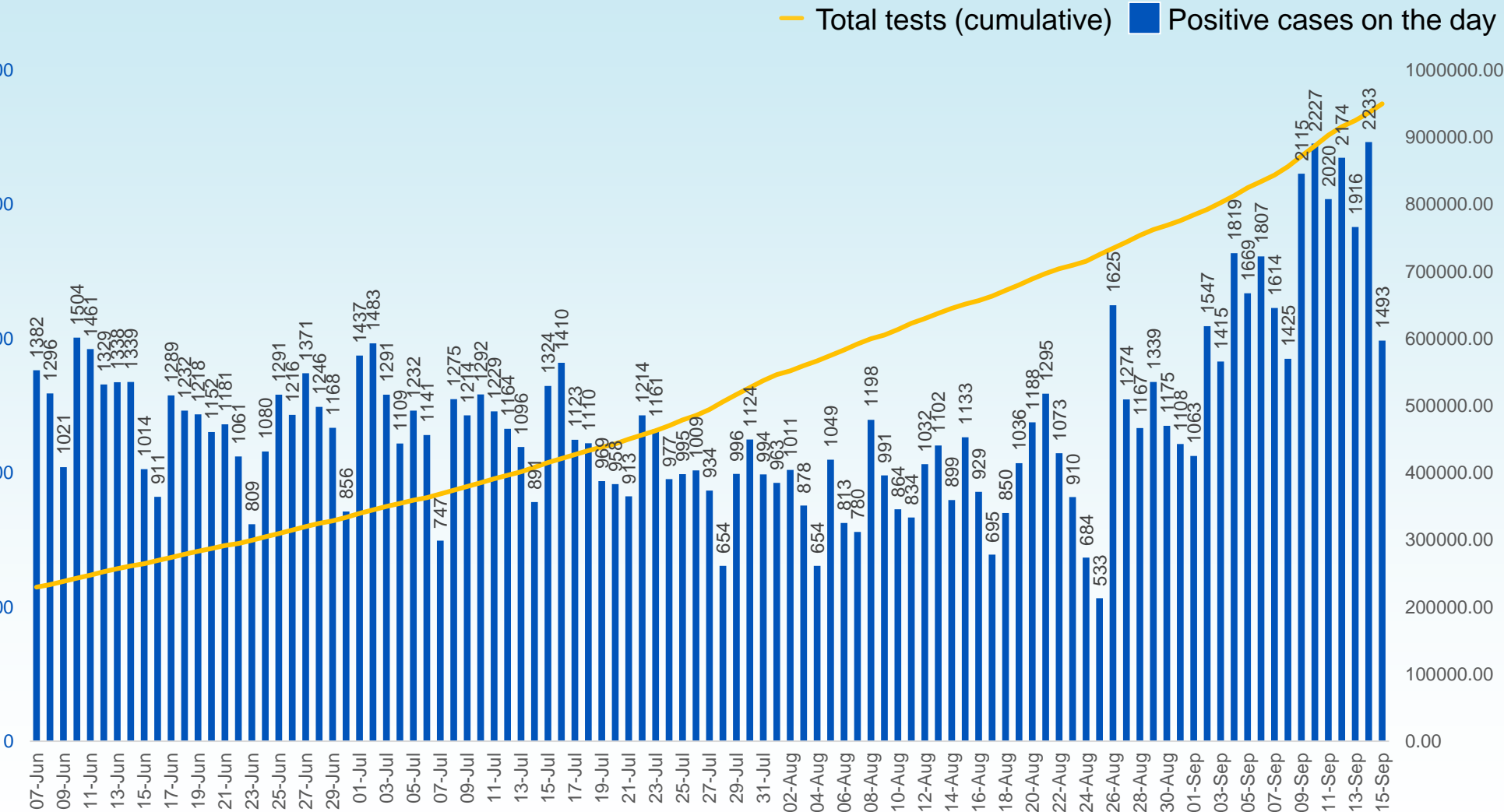
State	Cases	Tests	Tests per million
Bengaluru	1,76,712	12,64,759	97,289
Mumbai	1,73,534	9,50,112	73,043
Delhi	2,25,796	22,46,978	1,18,262
West Bengal	2,05,919	25,62,821	28,404
Gujarat	1,16,183	34,36,069	55,420
Kerala	1,14,033	21,98,858	65,529
Maharashtra	10,97,856	55,12,807	44,618
Rajasthan	1,06,700	27,05,303	39,784
Tamil Nadu	5,14,208	60,48,832	1,81,169

Data subject to change after scrutiny and ongoing verification process



Trend of positive cases vis-à-vis total tests

Based on date of reporting, from Feb 03, 2020 to Sep 15, 2020



Summary till date

1,73,534¹

Total positive cases

9,50,112

Total tests conducted

18.26%²

Positive cases as a % of total tests

1 Total Positive cases as on Sep 15, Total cases as of Sep 15 as per line list is 1,67,543

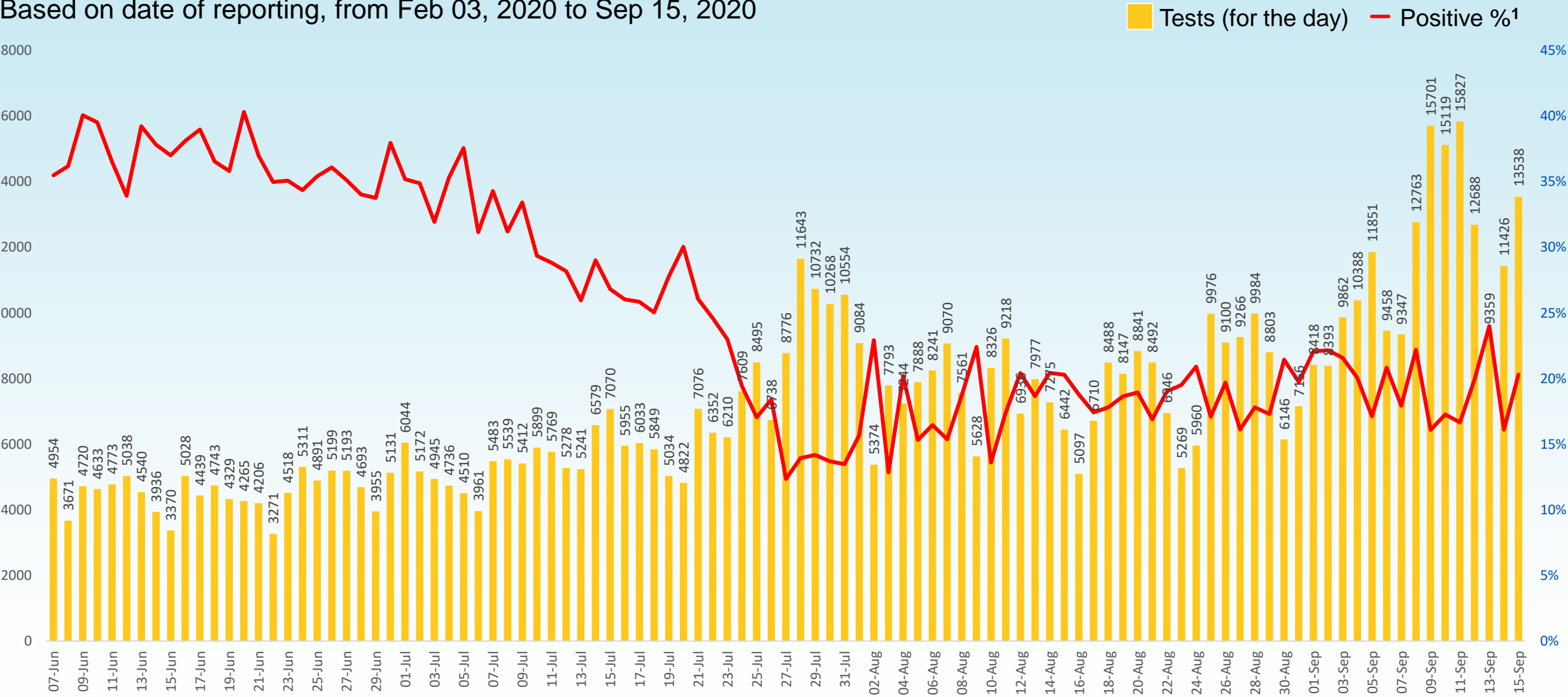
2 Total Positive cases (as per press release) as a % of total tests conducted

Source: Covid-19 daily update by the Public Health Department, BMC

Data subject to change after scrutiny and ongoing verification process

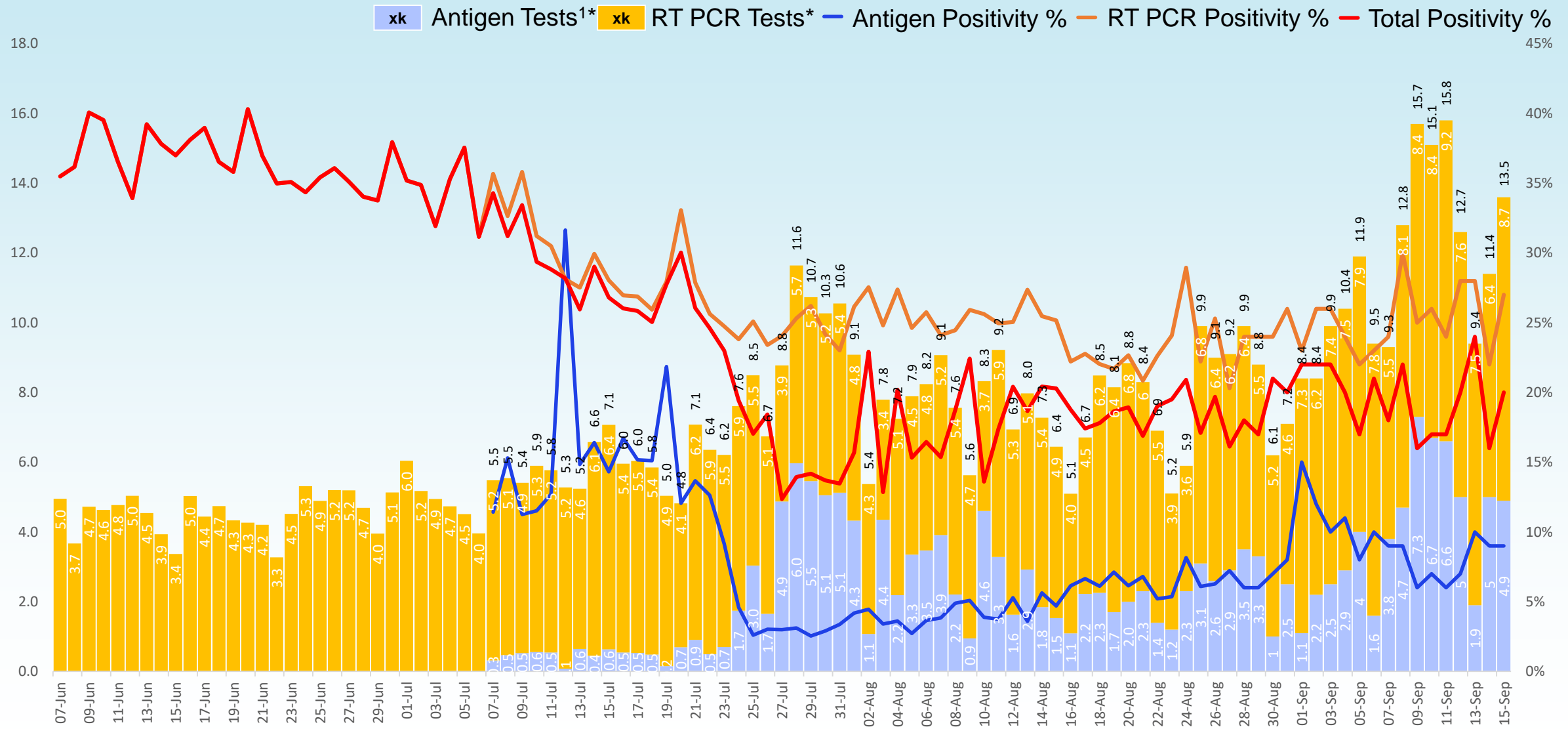
Trend of positive cases vis-à-vis total tests

Based on date of reporting, from Feb 03, 2020 to Sep 15, 2020



¹Positive samples for the day as a % of total tests for the day;
 Positive Samples include duplicates with ICMR (~11%) and Out of Mumbai Cases (3%)
 Source: Covid-19 daily update by the Public Health Department, BMC

Trend of positive cases vis-à-vis Tests



¹Data for Antigen tests is available from Jul 07 onwards

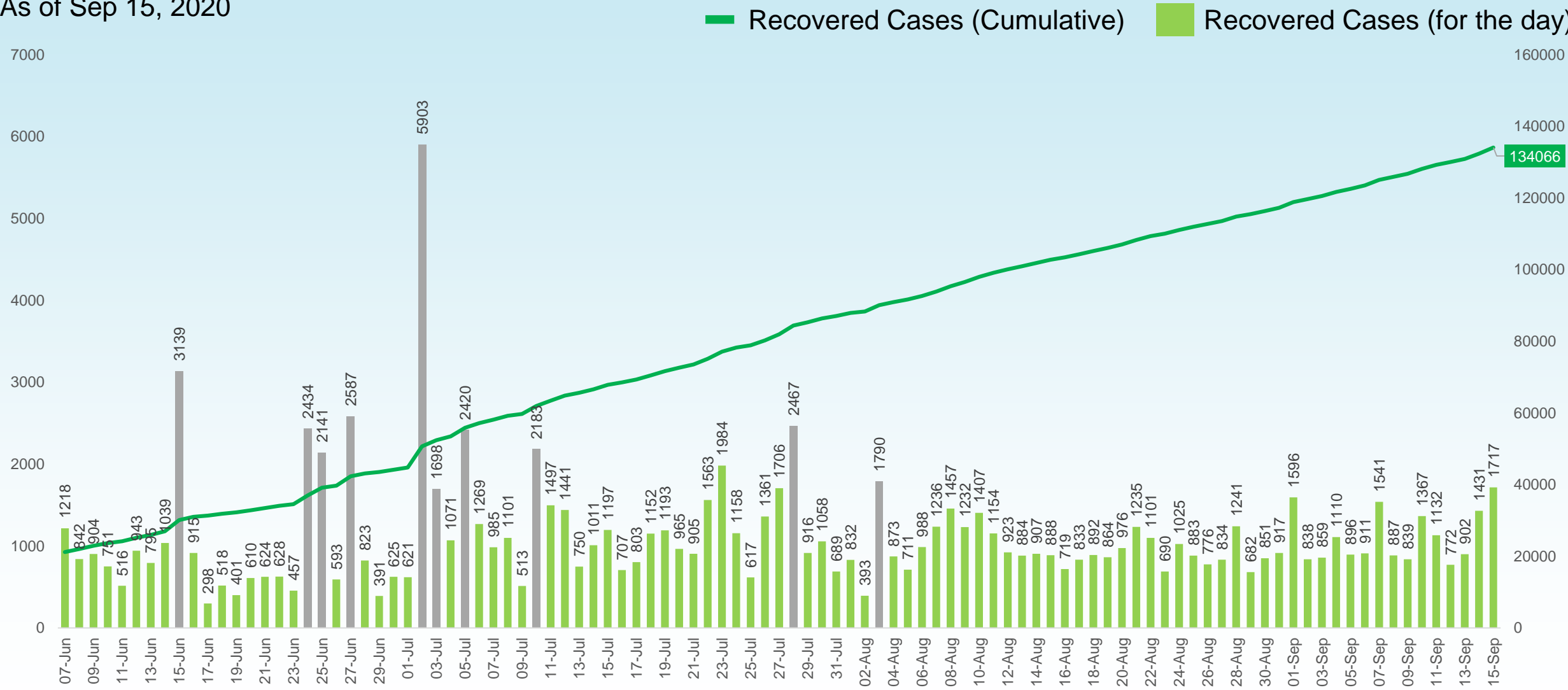
Source: Covid-19 daily update by the Public Health Department, BMC

*The tests data is in thousands

Data subject to change after scrutiny and ongoing verification process

Trend of Recovered Cases

As of Sep 15, 2020

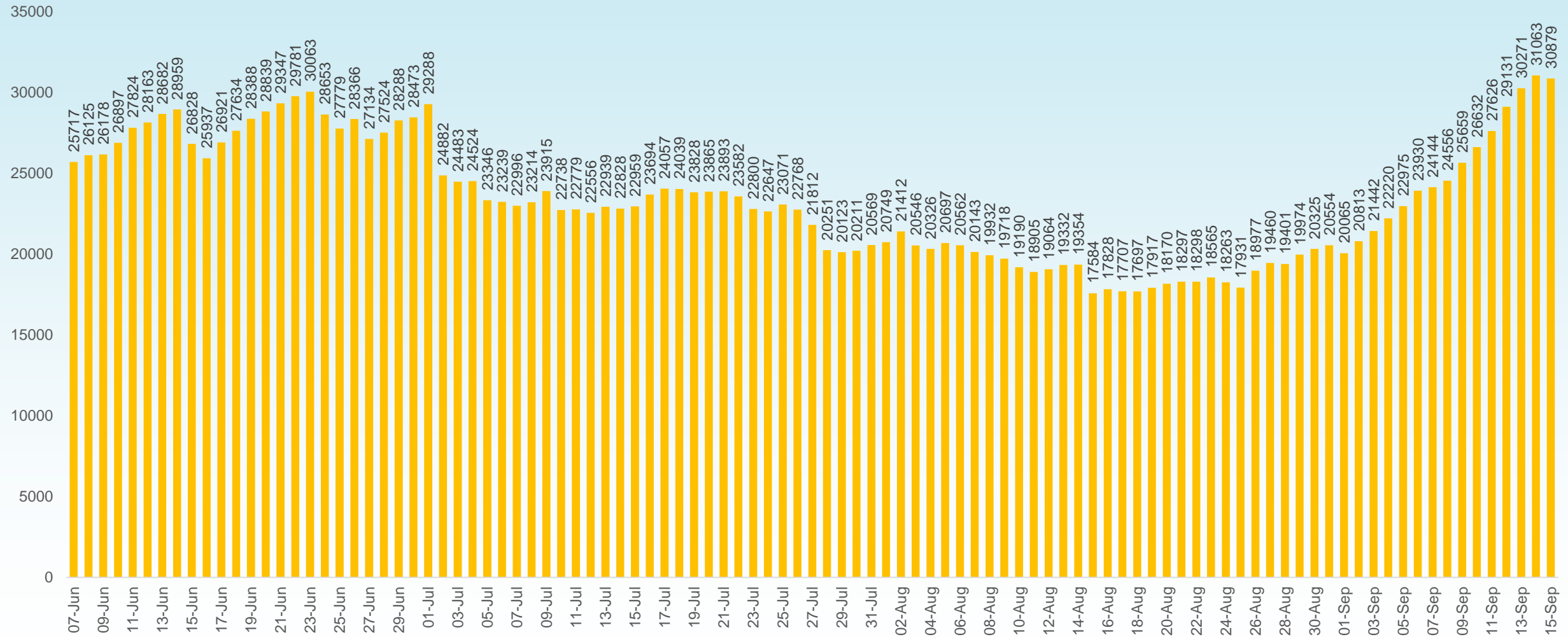


¹Spikes refer to reconciliation and updation for previous days

Trend of Active Cases

As of Sep 15, 2020

Active Cases (Cumulative)

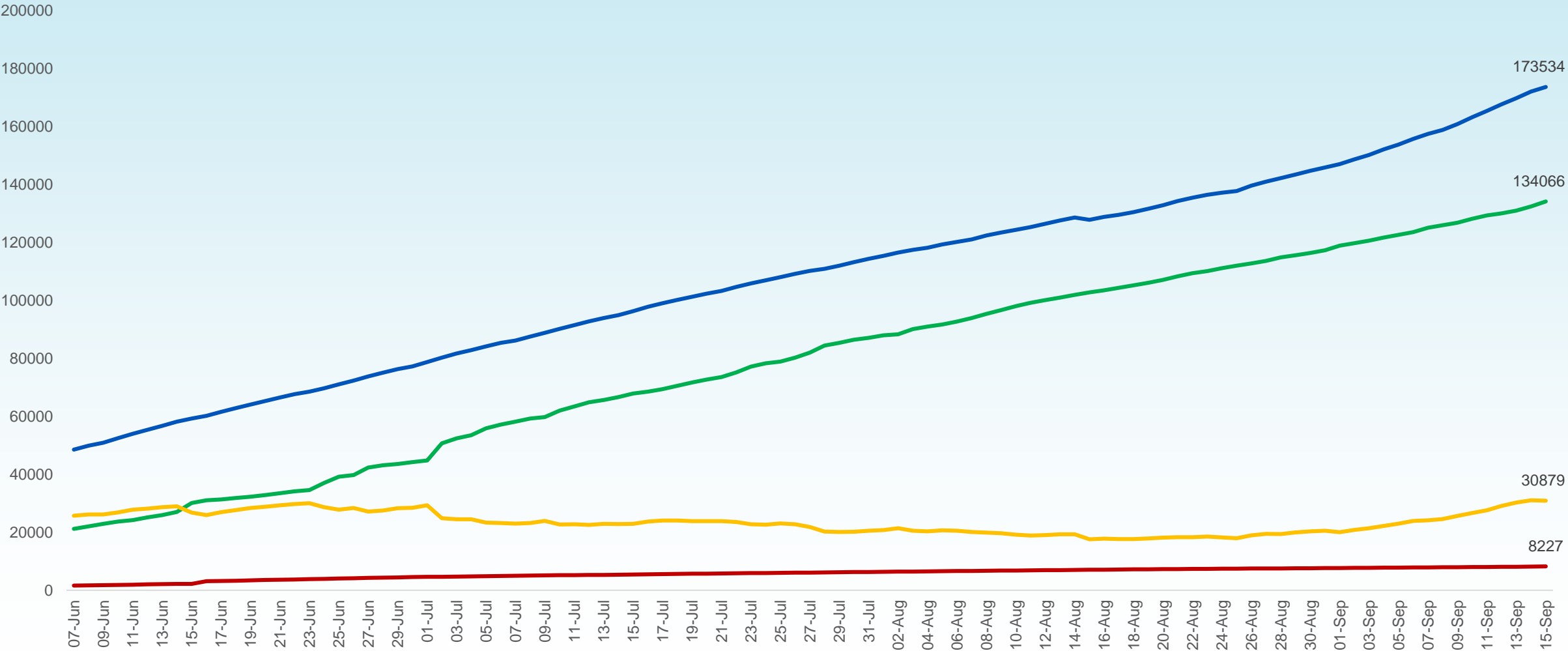




Case summary for Mumbai

As of Sep 15, 2020

Confirmed cases Deaths Recovered cases Active cases





Key Trends

Contact tracing and home quarantine

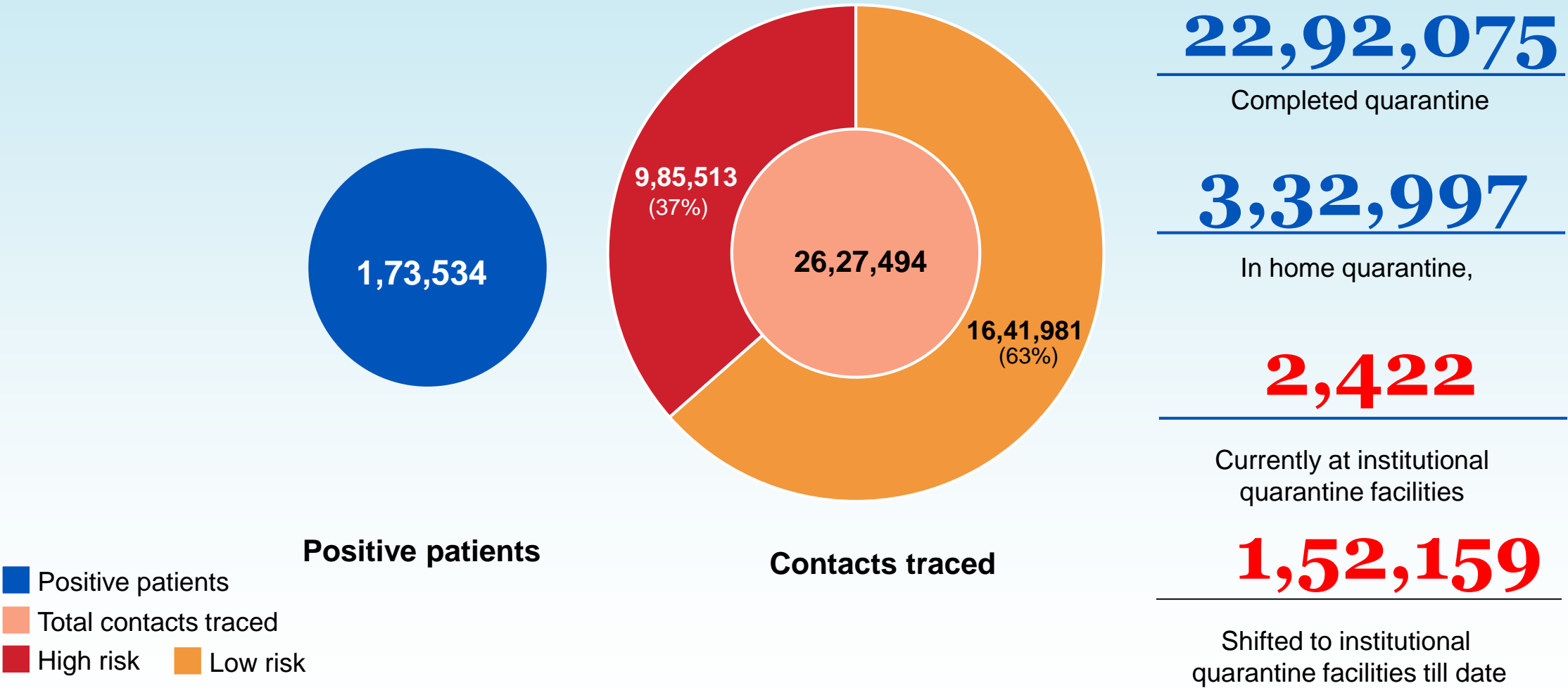
Status of COVID19 Positive Cases

Bed Capacity

Other initiatives

Update on contact tracing

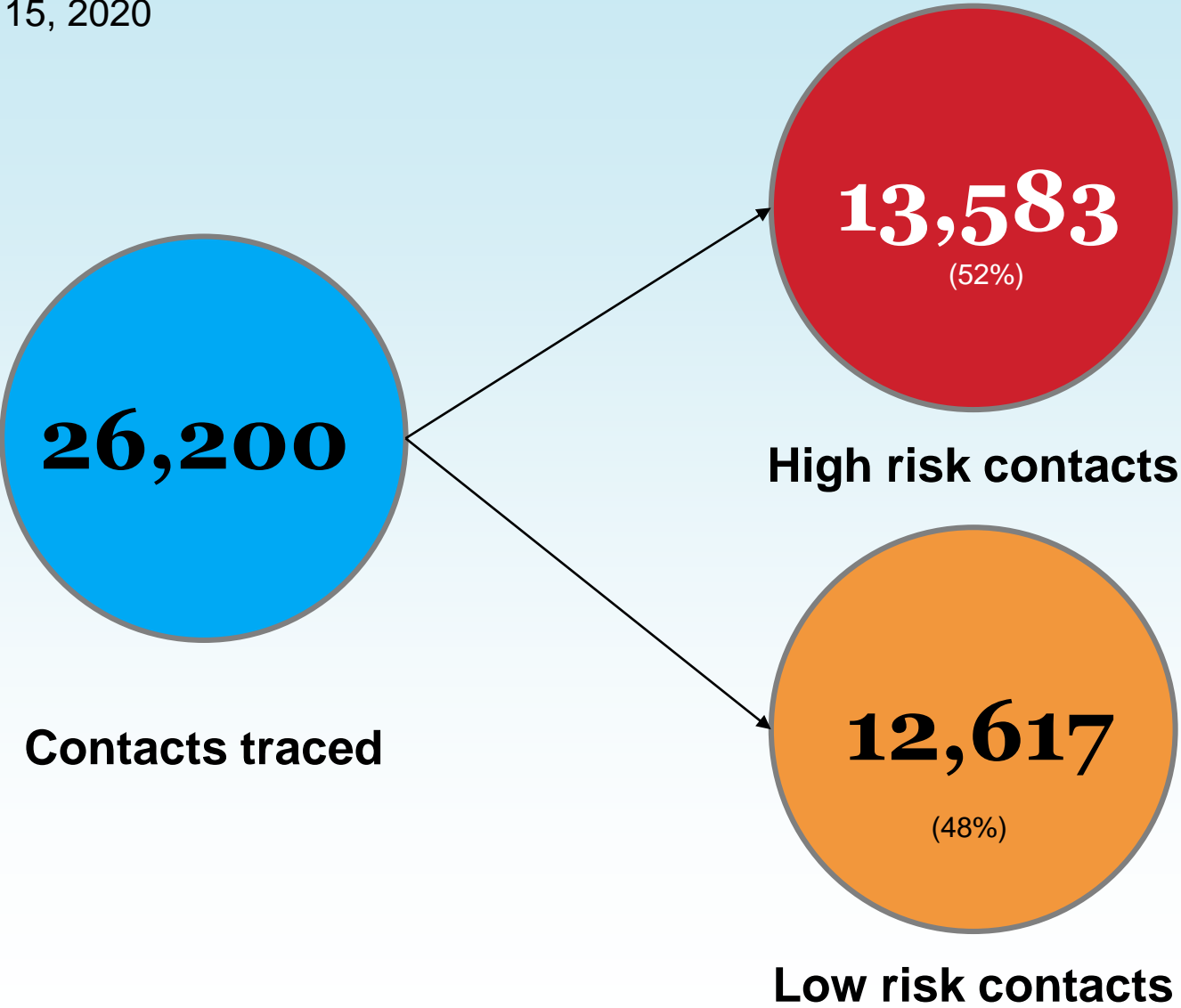
Summary as of Sep 15, 2020



Source: Quarantine numbers from BMC Contact Tracing Report as on Sep 15, 2020; shift to Institutional facilities from "CCC1 and CCC2 Facilities"

Contact tracing report for last 24 hours

Summary as of Sep 15, 2020



Source: Quarantine numbers from BMC Contact Tracing Report as on Sep 15, 2020; shift to Institutional facilities from "CCC1 and CCC2 Facilities"

Data subject to change after scrutiny and ongoing verification process



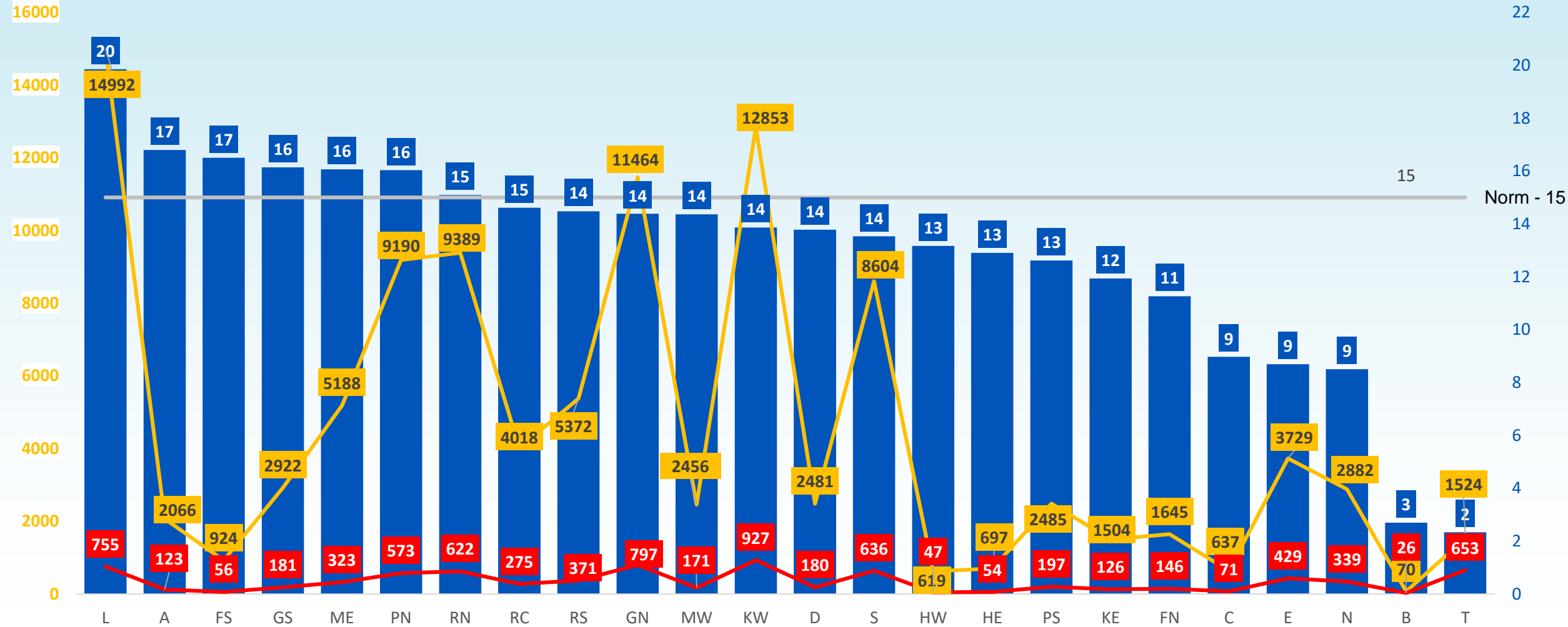
Chase the virus: High Risk Contacts for Index Cases in Slums

As of Sep 15, 2020¹

Positive cases from slums (Not being high risk contacts of earlier cases)⁽¹⁾
Total – 8,078*

No of high risk contacts sent to institutional facilities
Total – 1,07,711*

No of high risk contacts **per positive cases** in (1) sent to institutional facilities
Total Ratio - 13



* Data for Ward RN is updated as of Sep 14

¹ Data since June 03, 2020; Source – Operation – Chase the virus

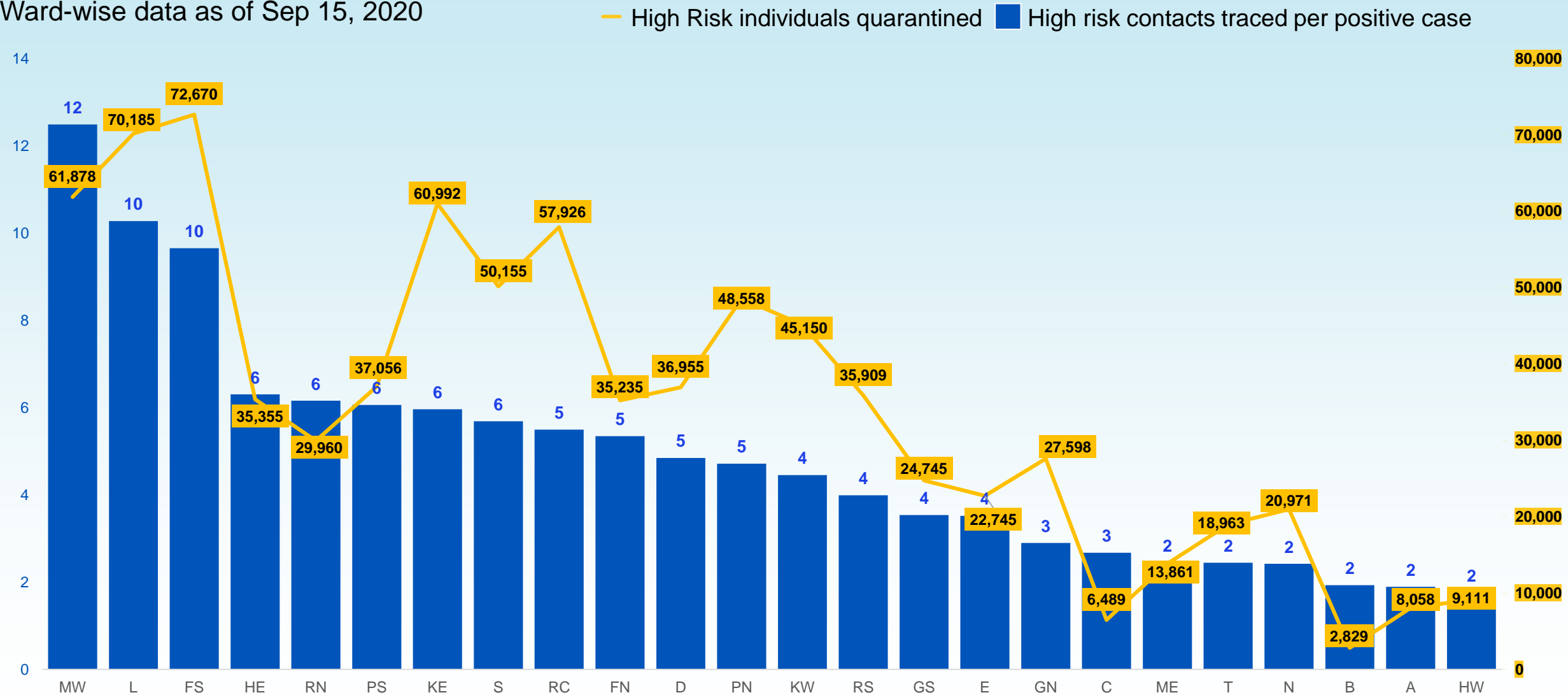
Data subject to change after scrutiny and ongoing verification process

14

Ward-wise bifurcation of high-risk individuals quarantined (Home and Institutional)

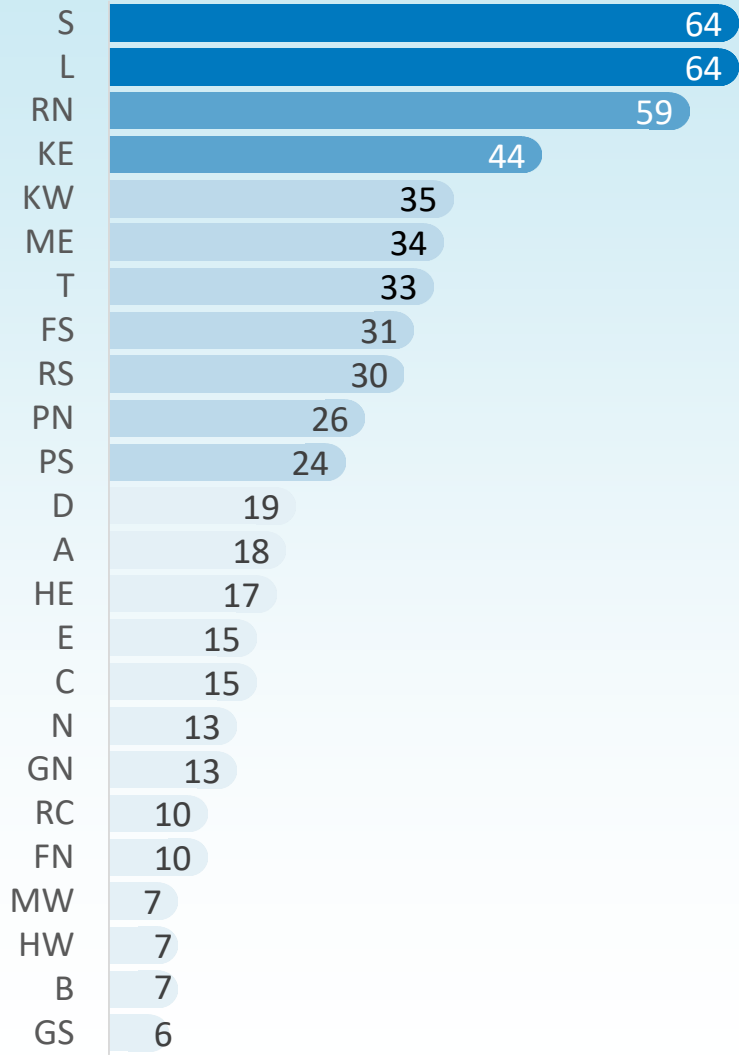
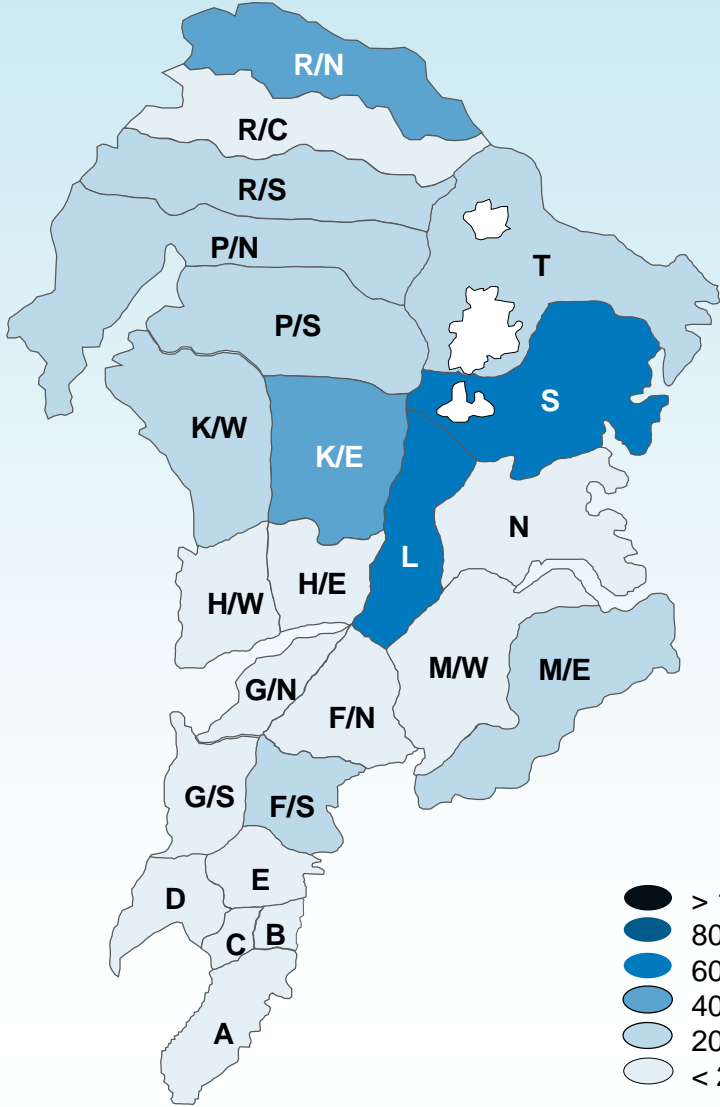


Ward-wise data as of Sep 15, 2020



Ward-wise containment zones – slums and chawls

As of Sep 15, 2020



601

Active

Containment Zones

8.3

lacs

No. of Households

36.4

lacs

Population

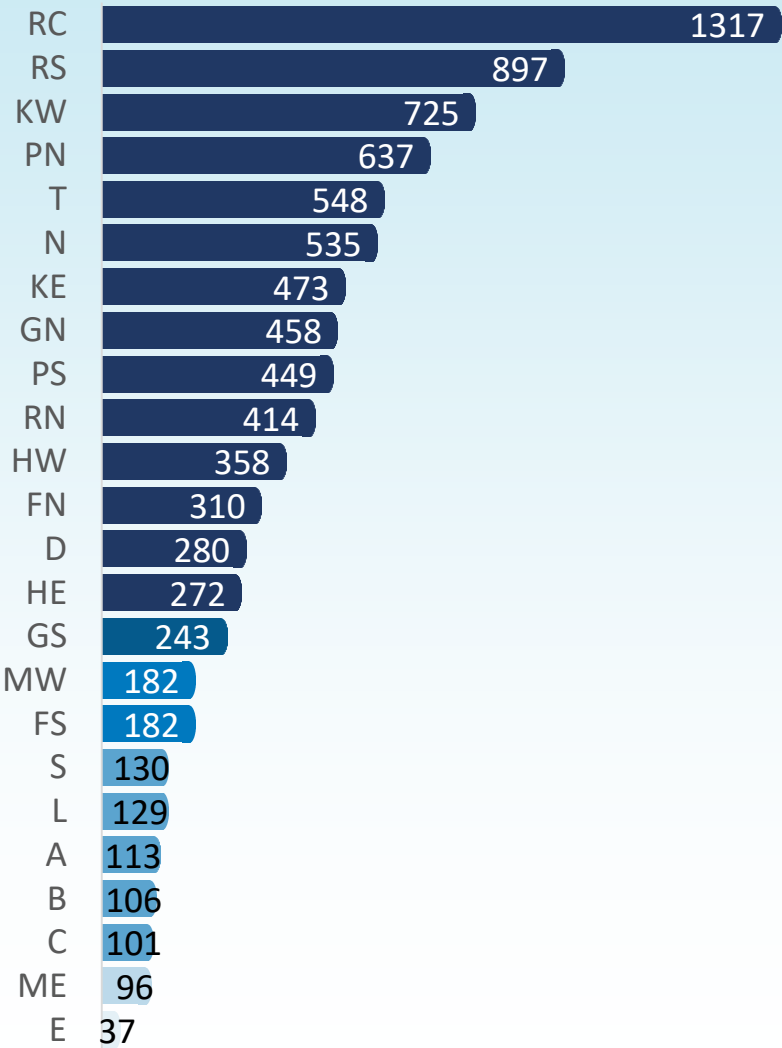
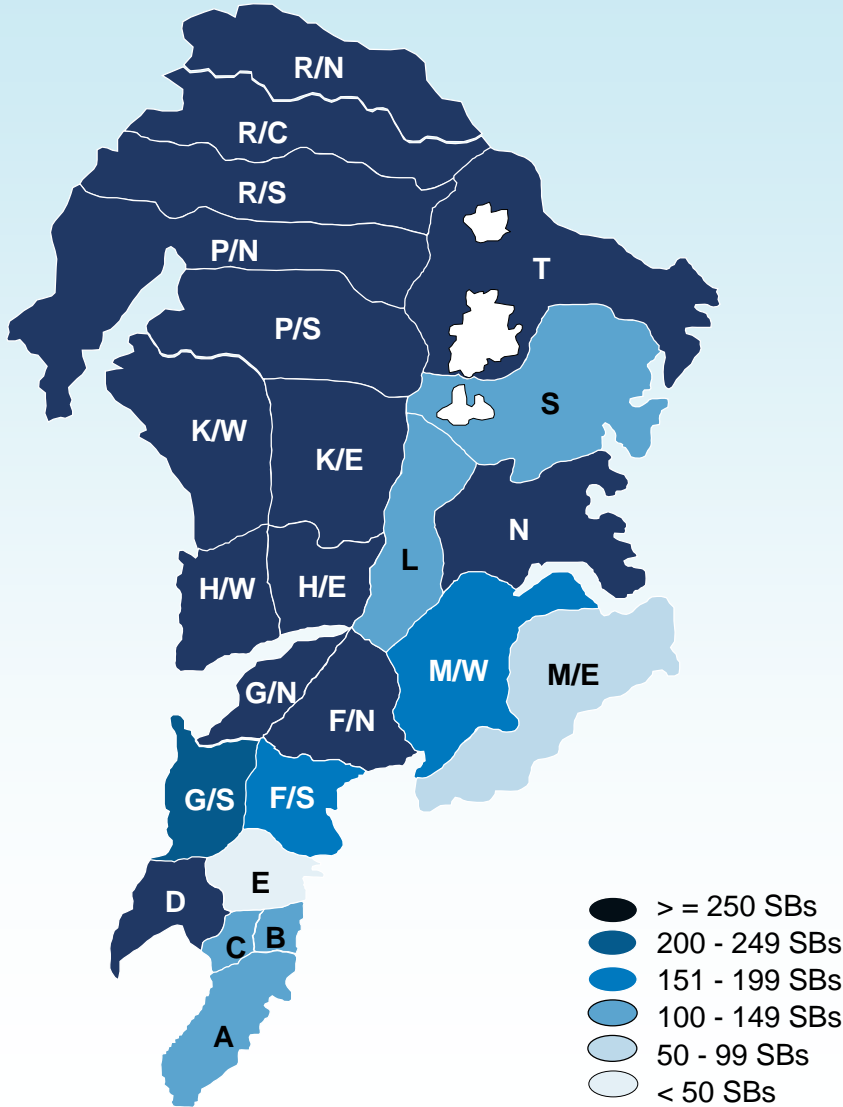
1,027

Released

Containment Zones

Ward-wise sealed buildings

As of Sep 15, 2020



8,992
Active

Sealed Buildings

2.8
lacs

No. of Households

11
lacs

Population

24,801
Released

Sealed Buildings



Key Trends

Contact tracing and home quarantine

Status of COVID19 Positive Cases

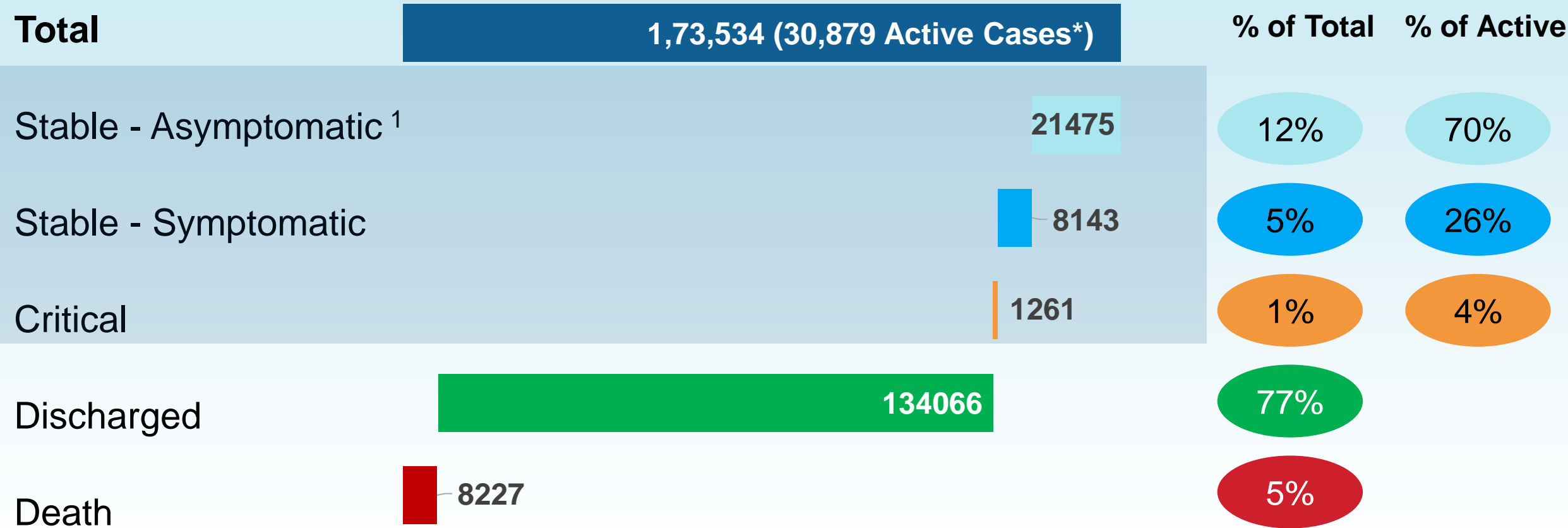
Bed Capacity

Other initiatives



Case summary for Mumbai

As of Sep 15, 2020



**Deaths due to other reasons have also been deducted from the Total Active Cases*

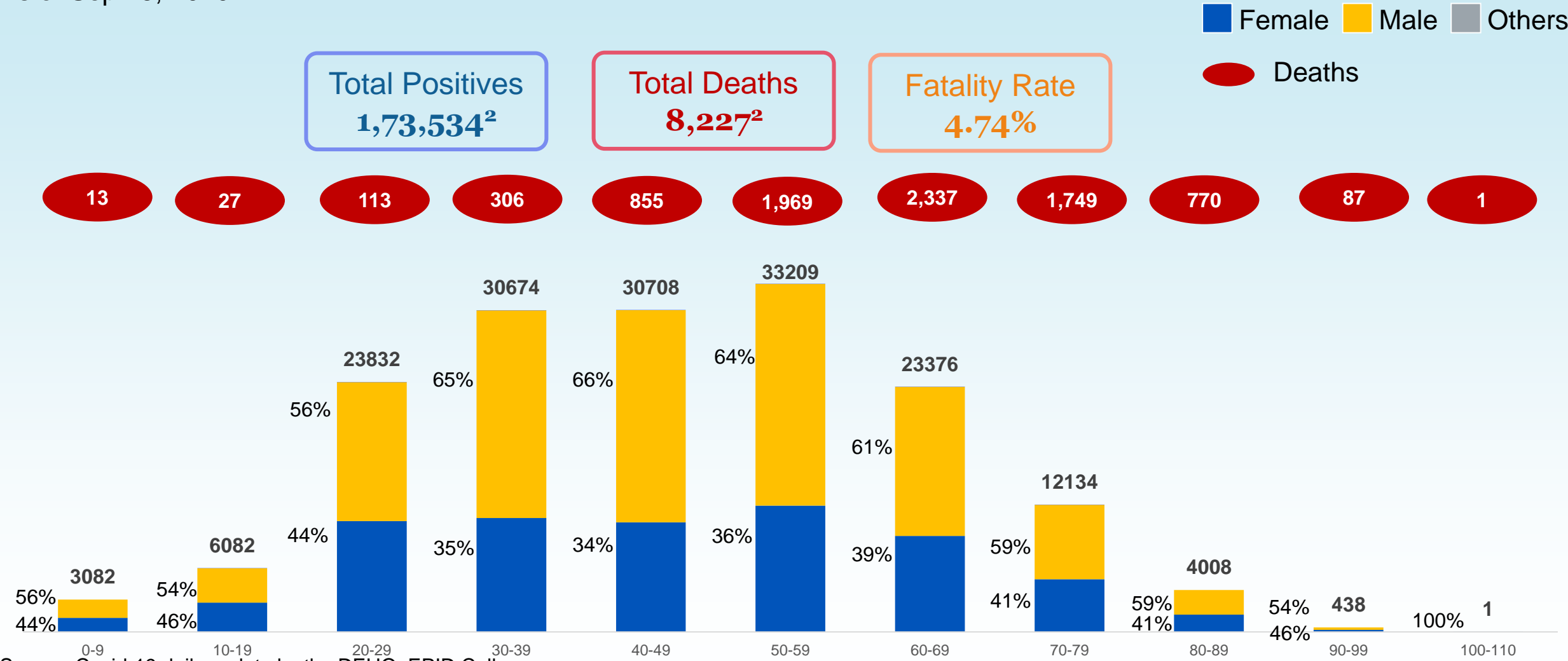
1 As per NCDC ICMR Report, Hospitalized status report (after deducting critical patients) has been considered as Symptomatic; Home Isolation and CCC2 has been considered as Asymptomatic; Difference between the total cases and the above classifications (8,887 cases) has been added to "Stable – Asymptomatic" cases

Source: Covid-19 daily update by the DEHO, EPID Cell for total cases, discharges, deaths; "At a glance isolation facility report" for critical

Data subject to change after scrutiny and ongoing verification process

Age and sex-wise profile of COVID-19 positive patients

As of Sep 15, 2020¹



Source: Covid-19 daily update by the DEHO, EPID Cell

1 Total Age and sex-wise break up is available 1,67,544 cases; age-wise breakup of deaths available for 8,227 cases

2 As on Sep 15

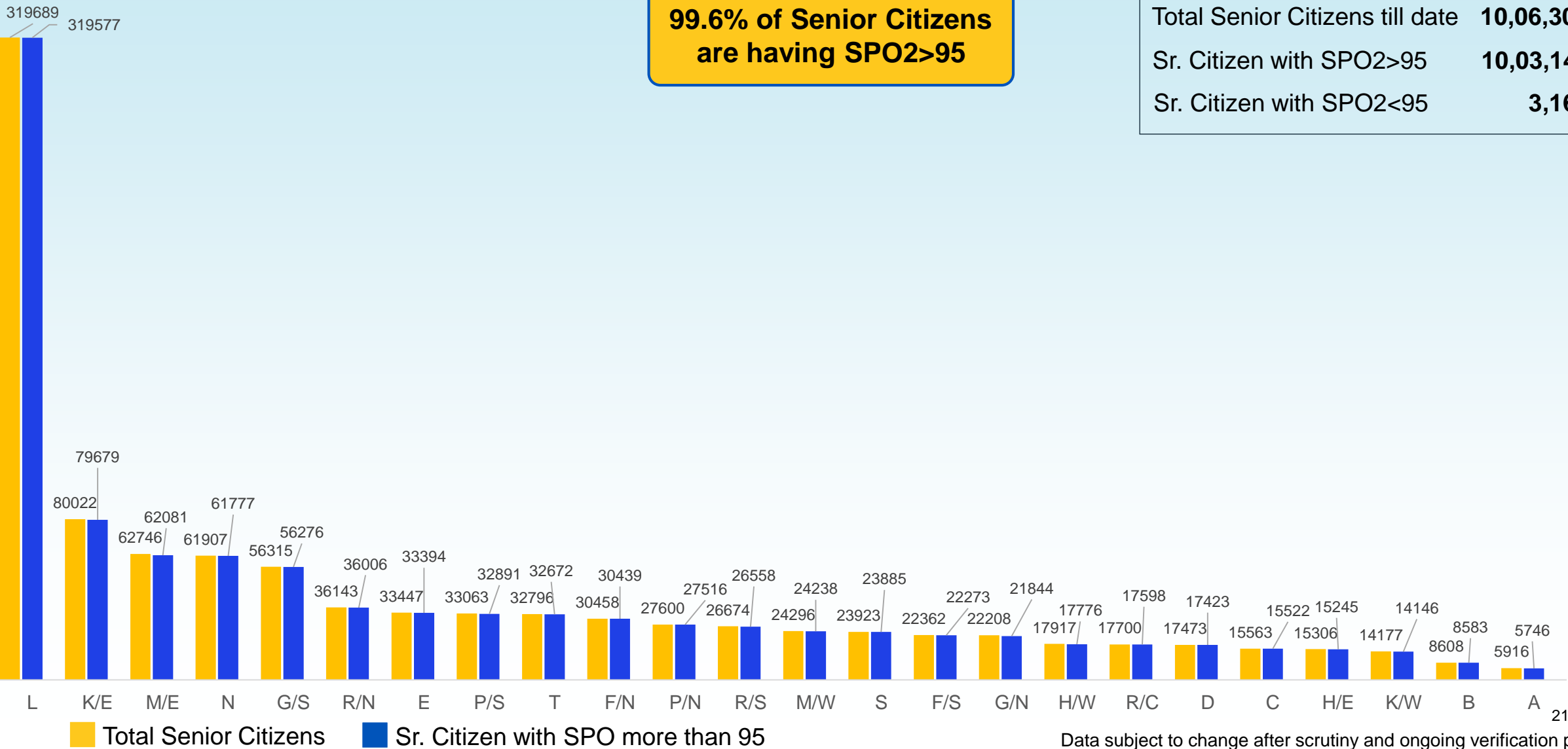


Proactive screening of elderly to protect them and contain mortality

Ward-wise data(progressive) till Sep 15, 2020

99.6% of Senior Citizens are having SPO2>95

Population Screened till date	1,81,03,779
Total Senior Citizens till date	10,06,309
Sr. Citizen with SPO2>95	10,03,145
Sr. Citizen with SPO2<95	3,164



Data subject to change after scrutiny and ongoing verification process



Proactive screening of elderly to protect them and contain mortality

Ward-wise data for Sep 15, 2020

Wards	Total No. of Houses Surveyed	Population Covered	Total No. of Senior Citizens	Sr Citizen SPO2>95	* Sr Citizen SPO2<95
Total (Daily)	37,065	112,204	5,765	5,763	2
R/S	4,037	15,912	155	153	2
A	350	1,341	12	12	0
B	310	1,161	42	42	0
C	0	0	0	0	0
D	386	1,622	123	123	0
E	2,045	7,934	272	272	0
F/S	1,102	3,375	140	140	0
F/N	349	1,022	257	257	0
G/S	3,346	12,820	263	263	0
G/N	1,333	4,234	131	131	0
H/E	536	2,358	40	40	0
H/W	0	0	0	0	0
K/E	3,033	7,072	521	521	0
K/W	430	1,733	770	770	0
P/S	732	2,195	47	47	0
P/N	2,970	11,605	213	213	0
R/C	518	1,936	76	76	0
R/N	7,129	2,208	257	257	0
L	4,238	17,267	1,539	1,539	0
M/E	510	1,886	205	205	0
M/W	1,027	3,574	186	186	0
N	1,256	5,374	245	245	0
S	1,107	4,449	114	114	0
T	321	1,126	157	157	0

Summary till date

1,81,03,779^{*}

Total Population covered till date

10,06,309

Senior Citizens covered till date

10,03,145

Senior Citizens with SPO2>95
till date

3,164

Senior Citizens with SPO2<95
till date

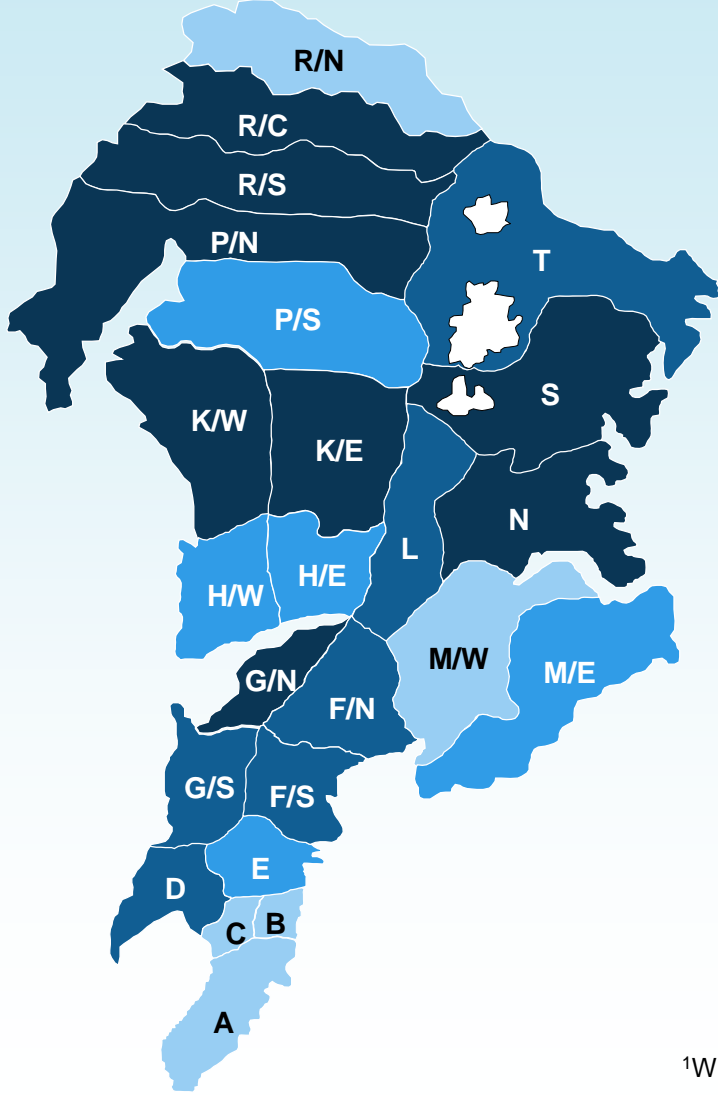
* Due to Data reconciliation, total population number is reduced.; Total population covers individuals screened multiple times

Data subject to change after scrutiny and ongoing verification process



Ward-wise breakdown of positive cases

As of Sep 15, 2020



RC	10537	8092	319	2126
PN	10302	8430	380	1492
KE	10232	8071	568	1593
KW	10139	7967	347	1825
GN	9520	7609	531	1380
RS	8999	6971	265	1763
S	8819	7009	493	1317
N	8665	6857	433	1375
T	7763	6052	194	1517
D	7627	6258	269	1100
FS	7526	6290	398	838
GS	6992	5794	433	765
L	6829	5576	475	778
FN	6590	5178	327	1085
E	6462	5220	318	924
PS	6112	4788	260	1064
ME	5666	4487	328	851
HE	5609	4401	362	846
HW	5185	4039	215	931
MW	4955	3963	314	678
RN	4866	3637	170	1059
A	4252	3596	78	578
C	2429	2010	110	309
B	1467	1125	97	245
		133420	7684	26439

- >=8501 cases
- 6501 – 8500 cases
- 5001 – 6500 cases
- 0 – 5000 cases
- Discharged²
- Deaths³
- Active

Total Positives
1,73,534¹

Total Active
26,439¹

Active = Positive – Discharges – Death

Source: Covid-19 daily update by the DEHO, EPID Cell

¹Ward-wise breakup is available for 1,67,543 cases (26,439 Active), Total

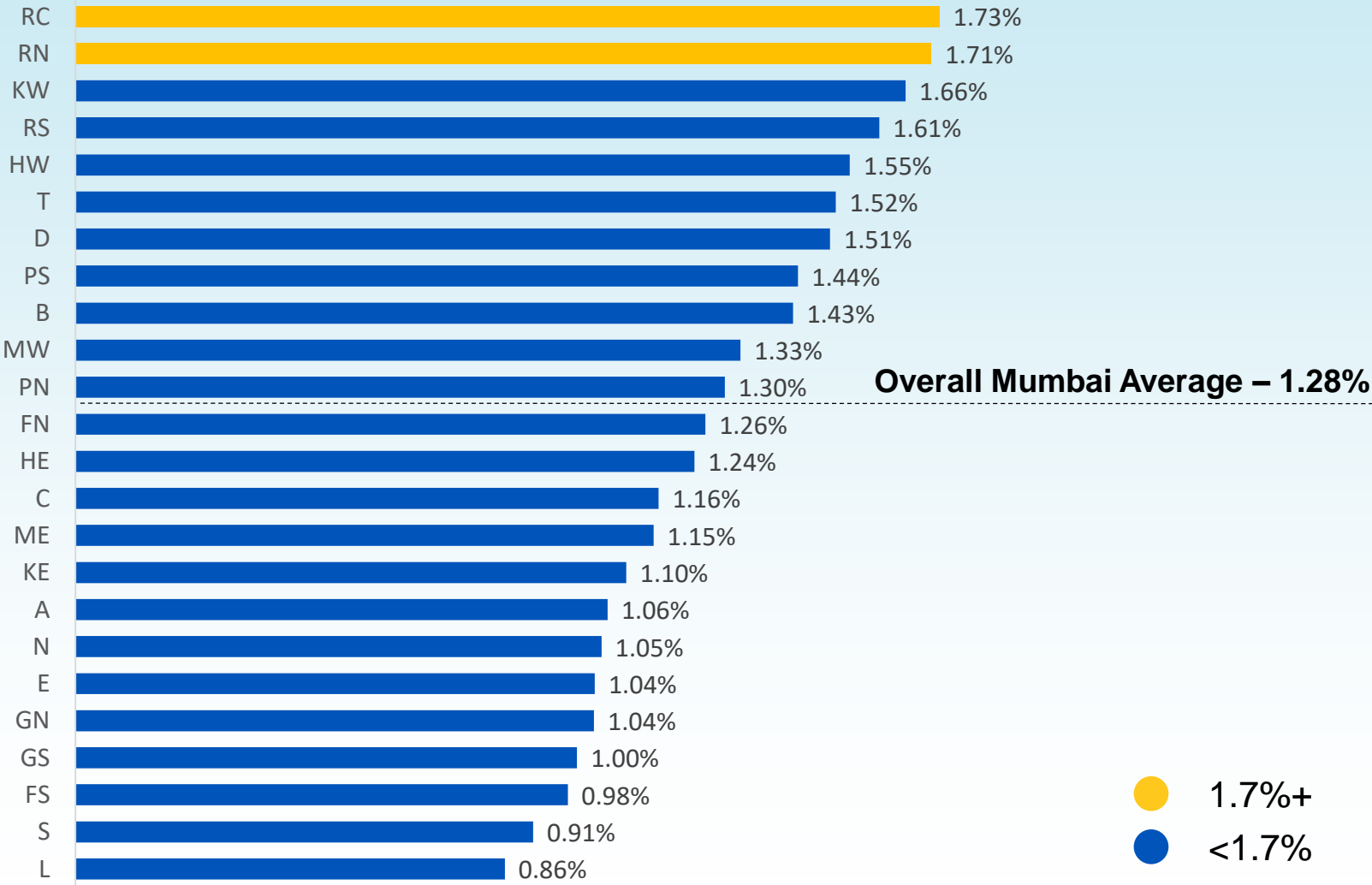
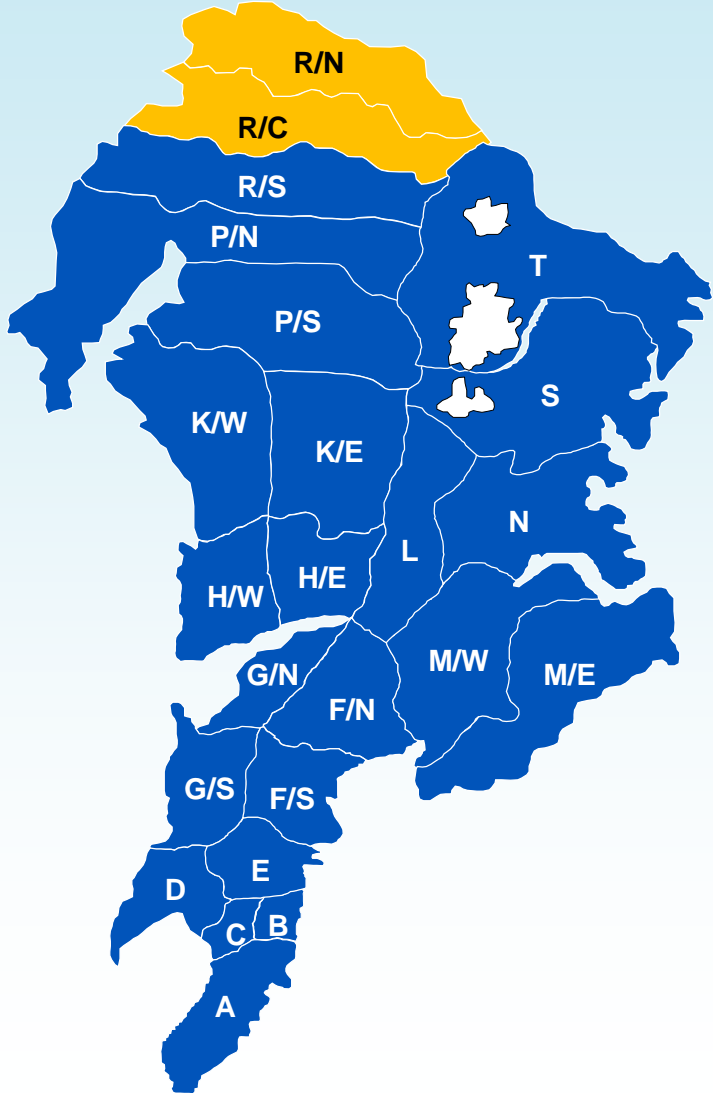
²Discharges as on Sep 15, Available for 1,33,420 cases,

³Deaths as on Sep 15, Available for 7,684 cases

Ward wise reconciliation for Discharged, Deaths and Active is on going ²³
Data subject to change after scrutiny and ongoing verification process

Ward-wise growth rate of new cases

Average of growth rate for the last 7 days till Sep 15, 2020



Ward-wise new cases

Positive cases for the last 7 days till Sep 15, 2020¹

Date of report	RC	RN	KW	RS	HW	D	T	PS	B	MW	PN	FN	HE	C	ME	KE	A	N	E	GN	GS	FS	S	L	Grand Total
Area>>>	Borivali	Dahisar	Andheri W	Kandivali	Bandra	Grant Road	Mulund	Goregaon	Sandhurst Road	Chembur W	Malad	Matunga	Khar	Marine Lines	Chembur E	Andheri E	Colaba	Ghatkopar	Byculla	Dadar	Elphinstone	Parel	Bhandup	Kurla	
As on 08th Sep	9348	4322	9037	8050	4657	6869	6986	5529	1328	4518	9414	6038	5147	2240	5229	9478	3949	8054	6012	8858	6521	7028	8275	6433	153320
09-Sep	169	85	169	133	68	109	128	91	19	72	158	83	59	21	56	87	42	87	78	95	67	81	109	49	2115
10-Sep	196	102	127	147	69	118	96	93	22	66	152	91	74	29	69	111	28	108	75	89	94	104	83	84	2227
11-Sep	151	71	152	147	85	85	125	98	16	52	100	67	81	36	49	117	41	101	66	95	75	77	81	52	2020
12-Sep	192	98	181	164	61	132	111	76	20	64	143	71	68	27	50	115	58	99	72	120	60	66	63	63	2174
13-Sep	167	68	146	116	80	126	107	83	25	64	112	82	67	37	45	119	74	66	49	86	71	62	68	41	1961
14-Sep	172	85	171	137	84	107	137	85	25	80	134	100	70	22	126	112	23	90	74	128	65	64	91	51	2233
15-Sep	142	35	156	105	81	81	73	57	12	39	89	58	43	17	42	93	37	60	36	49	39	44	49	56	1493
As on 15th Sep	10537	4866	10139	8999	5185	7627	7763	6112	1467	4955	10302	6590	5609	2429	5666	10232	4252	8665	6462	9520	6992	7526	8819	6829	167543
Days to double	41	41	42	44	45	46	46	48	49	53	54	55	56	60	60	63	66	66	67	67	70	71	76	81	55

Wards <= 45 days to double

- Ward RC
- Ward RN
- Ward KW
- Ward RS
- Ward HW

Exponential Method is used to calculate the Days to Double.
 1 The data presented in the table is as per the latest positive line list received for Sep 15, 2020. This line list reflects updates to the cases for prior dates as well. Source: Covid-19 daily update by the DEHO, EPID Cell



Key Trends

Contact tracing and home quarantine

Status of COVID19 Positive Cases

Bed Capacity

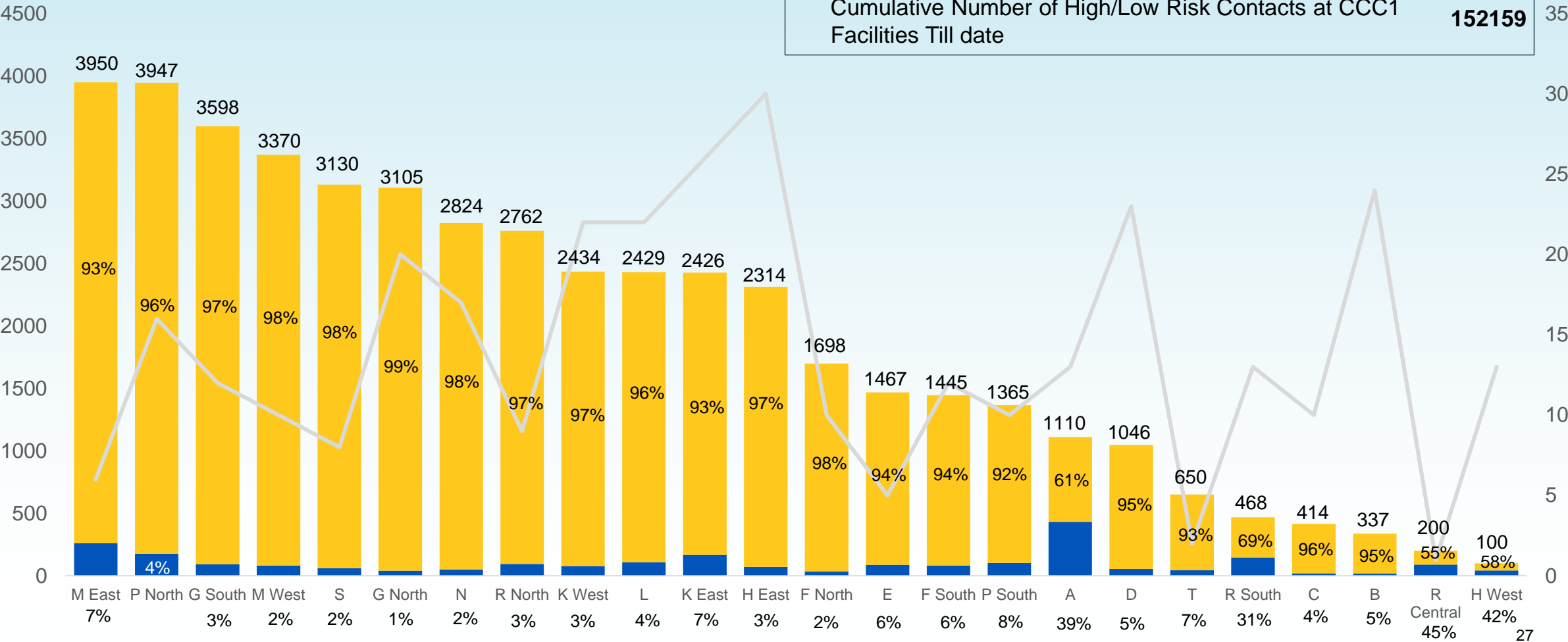
Other initiatives



Ward-wise bifurcation of CCC1 facilities

Ward-wise data for Sep 15, 2020

No. of CCC1 Facilities identified for High/Low Risk Contacts	334
Number of High/Low Risk Contacts shifted to CCC1 Facilities:	2422
Available capacity	44167
Total Capacity	46589
Cumulative Number of High/Low Risk Contacts at CCC1 Facilities Till date	152159



Source: CCC1 and CCC2 facilities excel maintained by war-room coordinators

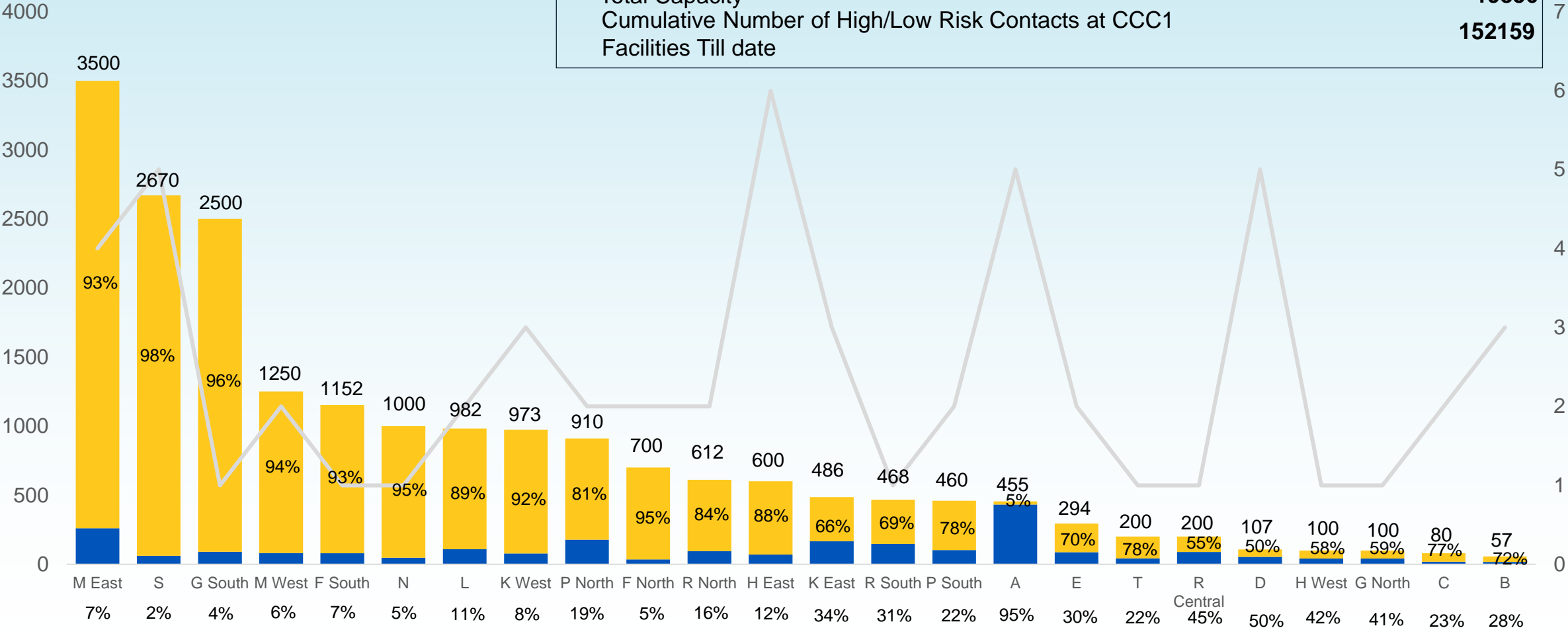
Data subject to change after scrutiny and ongoing verification process



Ward-wise bifurcation of ACTIVE and BUFFER CCC1 facilities

Ward-wise data for Sep 15, 2020

No. of ACTIVE and BUFFER CCC1 Facilities identified for High/Low Risk Contacts	58
Number of High/Low Risk Contacts shifted to CCC1 Facilities:	2422
Available capacity	17434
Total Capacity	19856
Cumulative Number of High/Low Risk Contacts at CCC1 Facilities Till date	152159

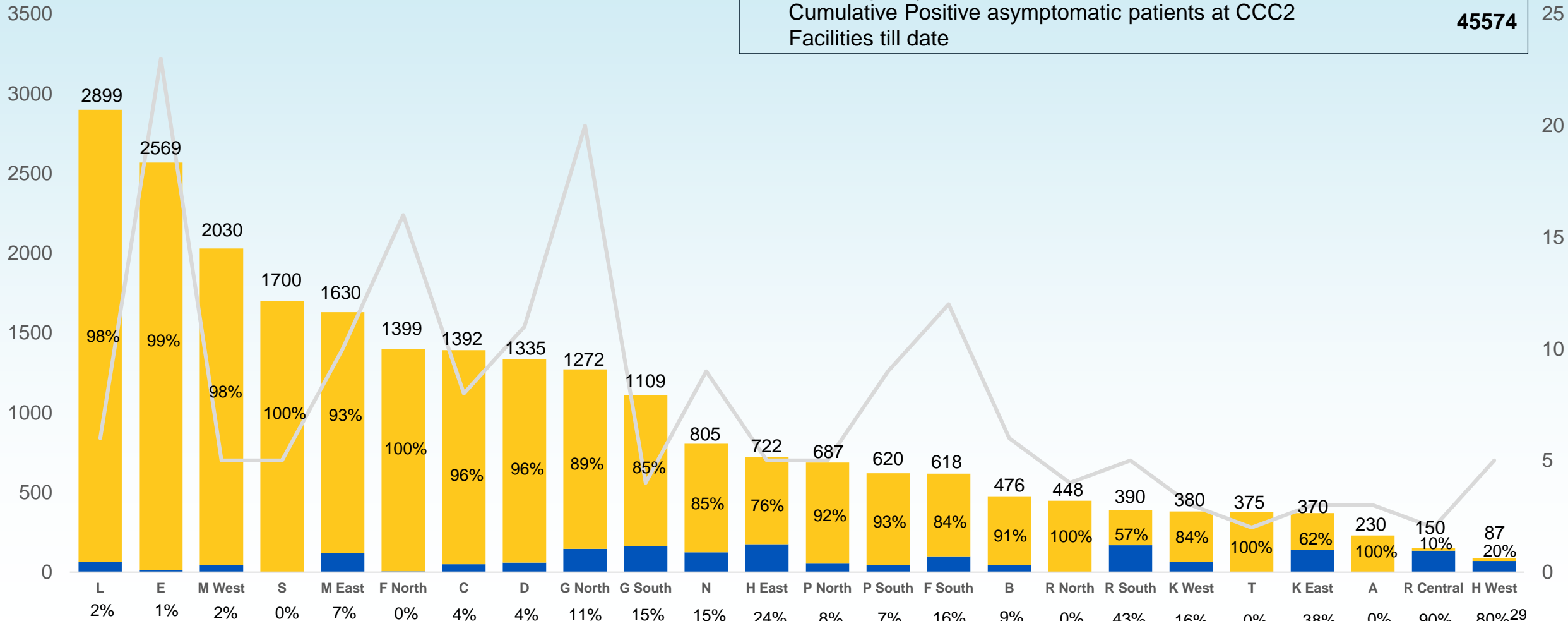




Ward-wise bifurcation of CCC2 facilities

Ward-wise data for Sep 15, 2020

No. of CCC2 Facilities Identified for Positive Asymptomatic Patients	181
Number of positive asymptomatic patients shifted to CCC2 Facilities	1780
Available capacity	21913
Total Capacity	23693
Cumulative Positive asymptomatic patients at CCC2 Facilities till date	45574



Source: CCC1 and CCC2 facilities excel maintained by war-room coordinators

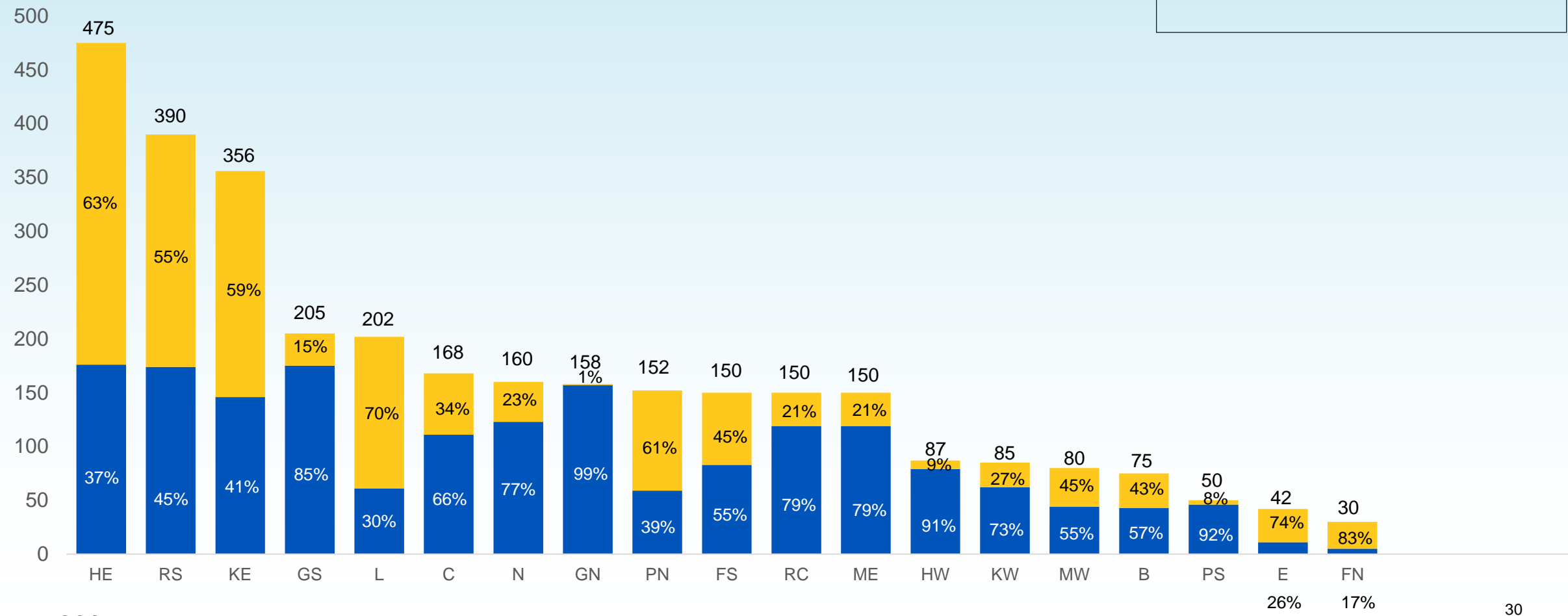
Data subject to change after scrutiny and ongoing verification process



Ward-wise bifurcation of ACTIVE CCC2 facilities

Ward-wise data for Sep 15, 2020

Beds occupied	1793
Available capacity	1372
Total capacity	3165
Cumulative patients till date	37775

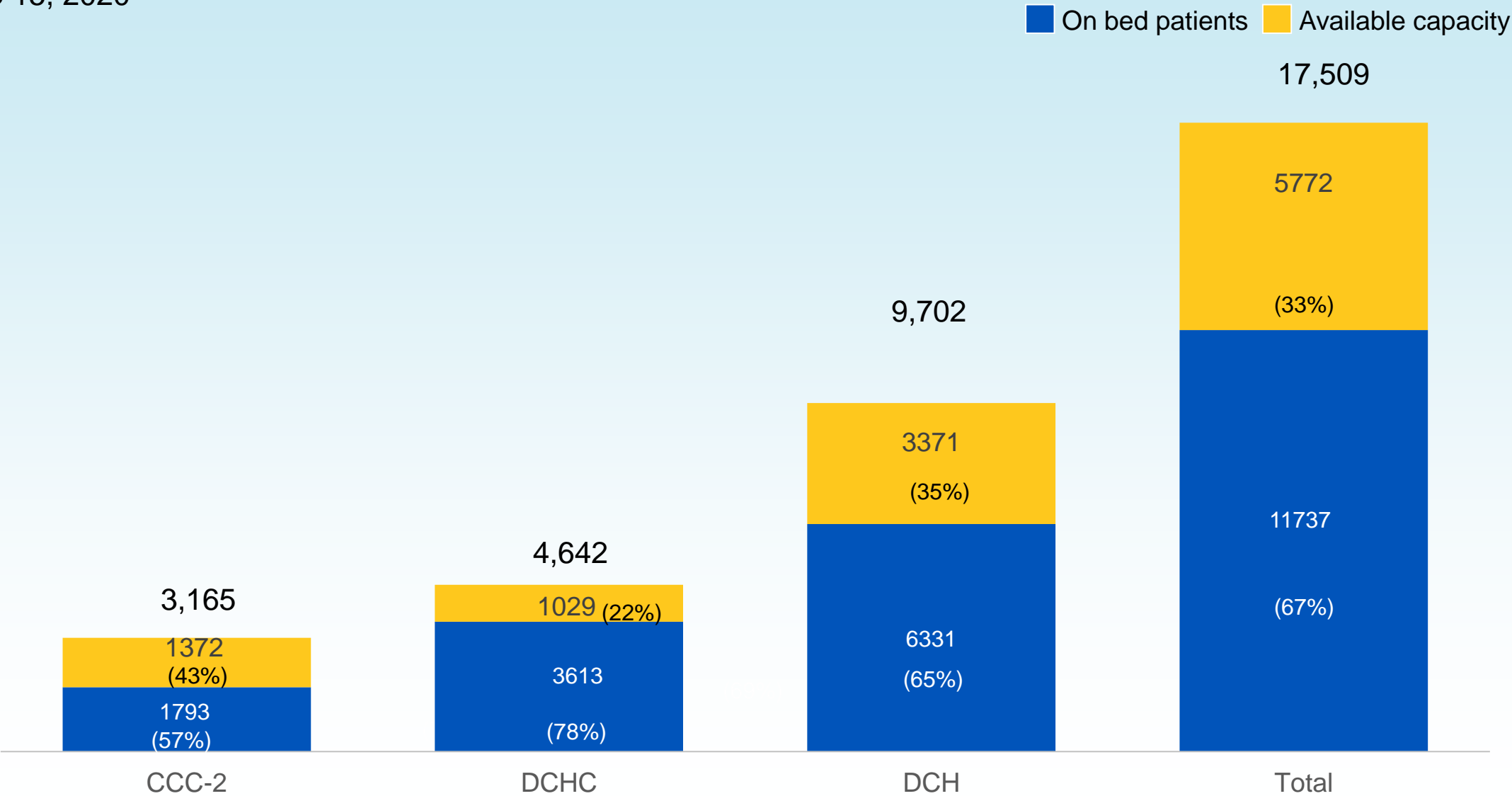


Source: "CCC2 line list"

Data subject to change after scrutiny and ongoing verification process

Summary of total bed capacity

As of Sep 15, 2020



Source: At a glance facilities & DMU dashboard

Data subject to change after scrutiny and ongoing verification process

Covid19 Bed Management

Data as on 02:00 PM, Sep 16, 2020 , Subject to change

Covid Beds	Capacity	Occupancy	Vacancy
Total	14,344	9,944	4,400
ICU Beds	1,772	1,619	153
Regular	1,738	1,598	140
Pediatric ICU	12	6	6
Neonatal ICU	22	15	7
Normal Beds	12,572	8,325	4,247
Quarantine for Suspect	988	634	354
Isolation for Positives	11,181	7,511	3,670
Pregnancy	218	63	155
Others (Cancer + Dialysis)	185	117	68
<i>O2 Beds*</i>	8,820	5,872	2,948
<i>Ventilators*</i>	1,103	1,040	63

Summary of total bed capacity

Data as on 02:00 PM, Sep 16, 2020 , Subject to change

		COVID Beds				
		Total	ICU Beds	Normal Beds		O2 Beds* Ventilators*
Capacity	Total	14,344	1,772	12,572		8,820 1,103
	Public Hospitals	10,574	888	9,686		6,441 689
	Pvt Hospitals	3,770	884	2,886		2,379 414
Occupancy	Total	9,944	1,619	8,325		5,872 1,040
	Public Hospitals	6,720	815	5,905		3,839 649
	Pvt Hospitals	3,224	804	2,420		2,033 391
Vacancy	Total	4,400	153	4,247		2,948 63
	Public Hospitals	3,854	73	3,781		2,602 40
	Pvt Hospitals	546	80	466		346 23

Source: DMU dashboard;
 *O2 Beds and Ventilators are a subset of ICU & Normal Beds



Key Trends

Contact tracing and home quarantine

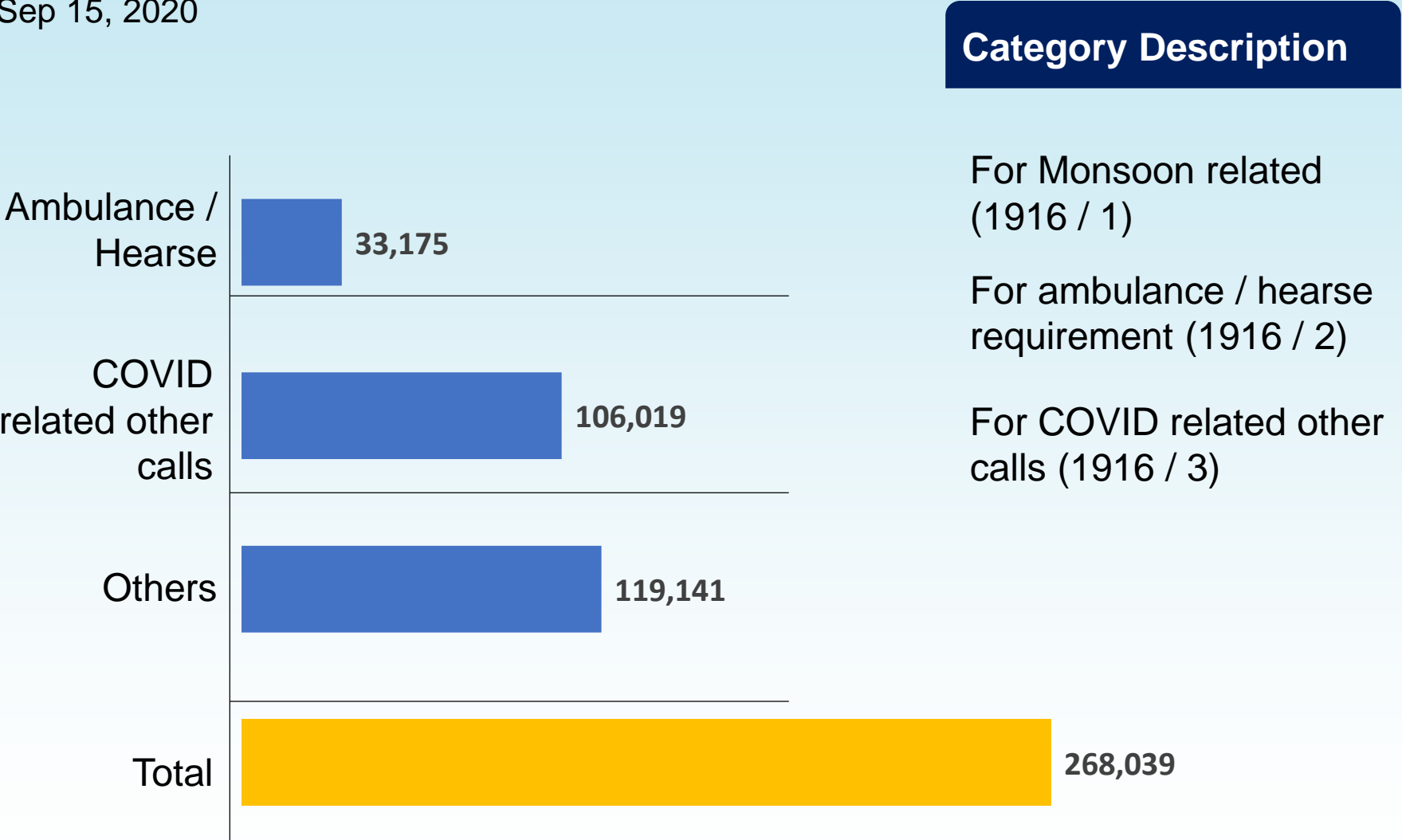
Status of COVID19 Positive Cases

Bed Capacity

Other initiatives

Call Center update

For all calls received from April 24 to Sep 15, 2020



Management of Waste from Quarantined Areas

September 13, 2020



Waste Collected (in Kgs)

COVID BMW (in Kgs)
8,544

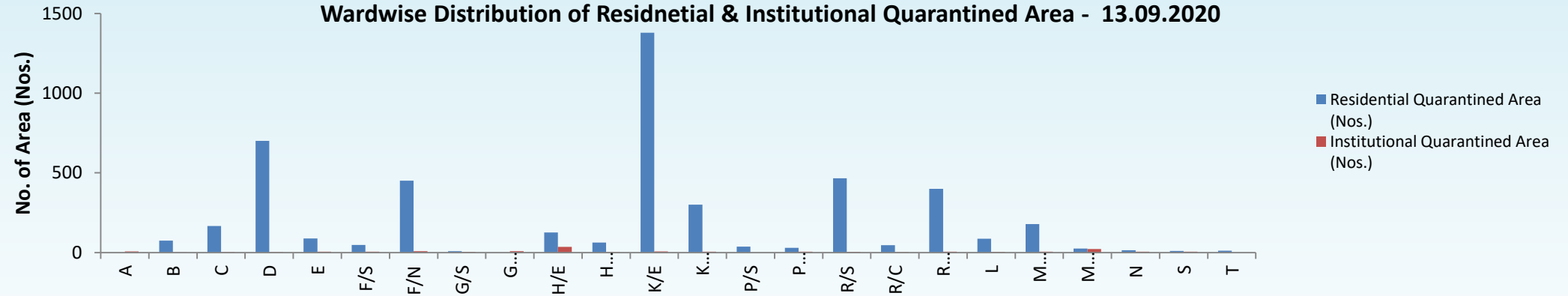
MCGM Quarantine BMW (in Kgs)
3,175

Total BMW (in Kgs):
11,719.0

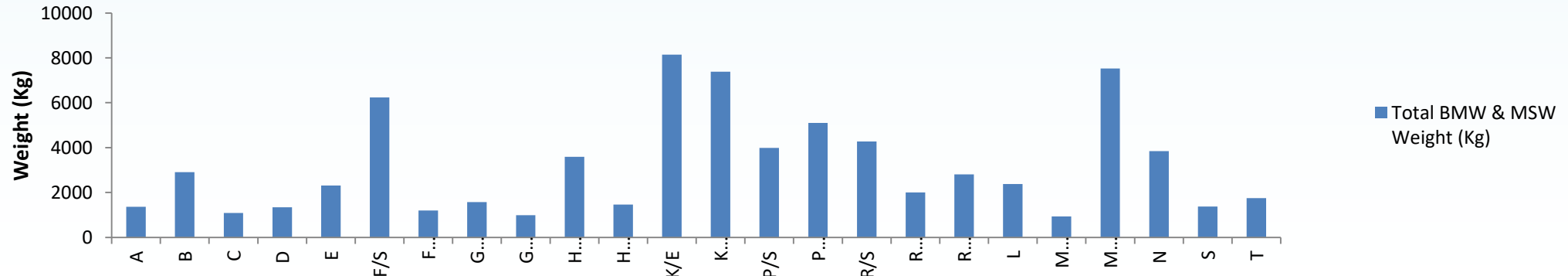
Total MSW Collected by MCGM from Quarantined Area (in Kgs):
72,310.0

Total MSW & BMW Collected by MCGM from Quarantined Area(in Kgs): **84,029**

Wardwise Distribution of Residential & Institutional Quarantined Area - 13.09.2020



Wardwise Distribution of Total BMW & MSW Collected- 13.09.2020



Note: BMW – Bio-Medical Waste, MSW – Municipal Solid Waste

Thank you

