

BMC Covid-19 Response War Room Dashboard

Sep 10, 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 09, 2020

COVID19 Case Analysis					COVID19 Bed Management (As on 01:00 PM, Sep 10, 2020)							CCC1 Facilities								Contact Tracing		Past 24hrs	Cumulative		
Total Positive		1,60,744*			Bed Capacity		15,798					Facilities (#)		Bed Capacity		Occupancy		Total Traced		29,724		24,70,612			
					Occupied		9,641											High Risk		14,889		9,05,257			
					Available		6,157											Low Risk		14,835		15,65,355			
Discharged		1,26,745			DCH & DCHC Bed Capacity		6,845					Total		333		46,445		2,234		Total Quarantine Completed		22,14,201			
					Occupied		5,453					Active		40		17,938		2,234		Currently in Home Quarantine		2,54,177			
Deaths		7,982			Available		1,392					Buffer		17		2,198		-		Others					
					Jumbo Facility Bed Capacity		5,765					Reserve#		276		26,309		-							
Deaths with Age > 50yrs – 6,689)					Occupied		2,773																		
					Available		2,992																		
Total Active		25,659			ICU Bed Capacity		1,414													Senior Citizens Screened till date		9,76,941			
					Occupied		1,330					Facilities (#)		Bed Capacity		Occupancy				Senior Citizens with SPO2 > 95		9,73,793			
					Available		84					Total		179		23,792		1,503		Active Containment Zones – Slums & Chawls		544			
Stable – Asymptomatic		17,389			O2 Bed Capacity		7,840					Active		26		3,401		1,503		Active Sealed Buildings		7,528			
Stable - Symptomatic		7,030			Occupied		4,942					Buffer		13		2,474		-		Calls Centre Calls Flow		2,60,490			
					Available		2,898					Reserve#		140		17,917		-							
Critical		1,240			Ventilator Bed Capacity		936					# Facilities that have been deactivated and can be used as per need													
					Occupied		898																		
Tests Done (till date)		8,72,155			Available		38																		
% of Positive (till date)		18.43																							
Ward wise positive cases																									
Wards	RC	PS	RN	T	D	KW	RS	HW	N	A	FN	PN	KE	C	B	HE	S	MW	E	GS	FS	GN	L	ME	Overall
Positive Cases	9517	5620	4407	7114	6978	9206	8183	4725	8141	3991	6121	9572	9565	2261	1347	5206	8384	4590	6090	6588	7109	8953	6482	5285	Mumbai
Days to double	42	44	47	47	49	50	50	52	58	59	64	64	67	69	70	71	73	79	82	84	85	85	88	92	61



Key Trends

Contact tracing and home quarantine

Status of COVID19 Positive Cases

Bed Capacity

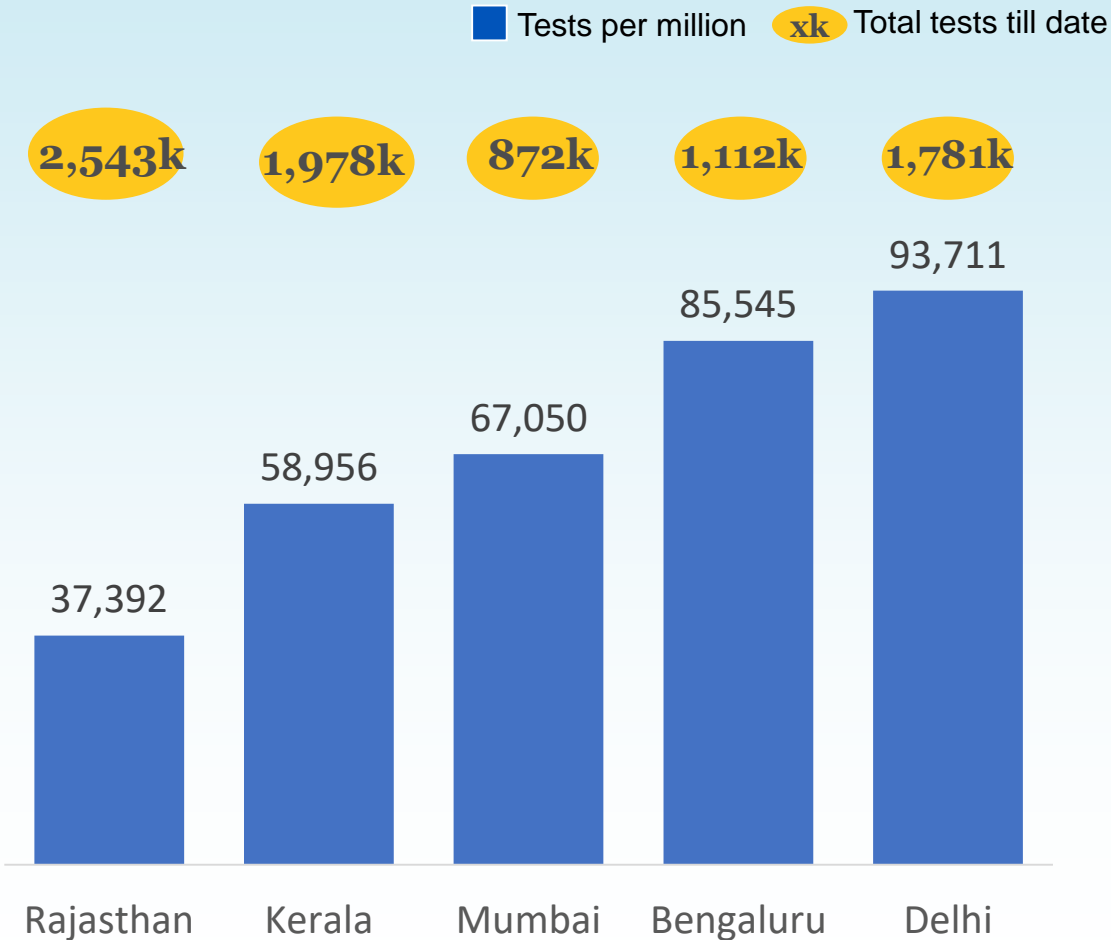
Other initiatives



Tests/ million data for COVID-19

For all tests conducted from Feb 3, 2020 to Sep 9, 2020

Tests per million



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

State	Cases	Tests	Tests per million
Bengaluru	1,57,044	11,12,090	85,545
Mumbai [#]	1,60,744	8,72,155	67,050
Delhi [*]	1,91,449	17,80,509	93,711
West Bengal	1,90,063	22,85,936	25,336
Gujarat	1,08,133	29,99,446	48,378
Kerala	95,917	19,78,316	58,956
Maharashtra	9,67,349	48,91,639	39,590
Rajasthan	96,452	25,42,632	37,392
Tamil Nadu	4,80,524	55,44,850	1,66,074

Source: Government COVID bulletins as of Sep 9 2020
* Data as of Sep 7 2020

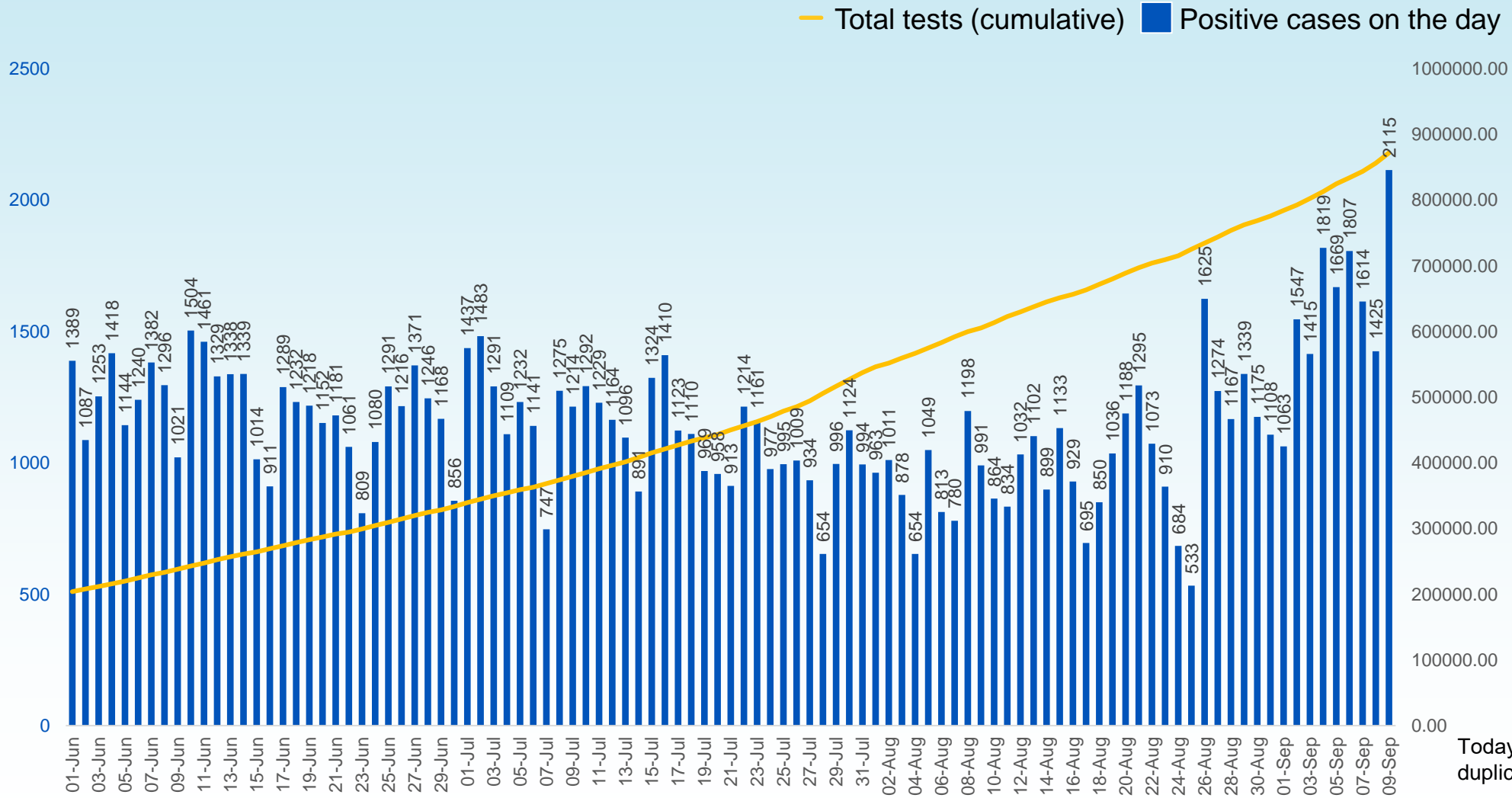
[#]Today's cases will reduce after reconciliation of duplicates & out of Mumbai.
Due to reconciliation, 239 duplicates Cases are removed from progressive positive cases.

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 09, 2020



Summary till date

1,60,744^{1*}

Total positive cases

8,72,155

Total tests conducted

18.43%²

Positive cases as a % of total tests

Today's cases will reduce after reconciliation of duplicates & out of Mumbai.

^{1*}Due to reconciliation, 239 duplicates Cases are removed from progressive positive cases.⁵

1 Total Positive cases as on Sep 09, Total cases as of Sep 09 as per line list is 1,55,435

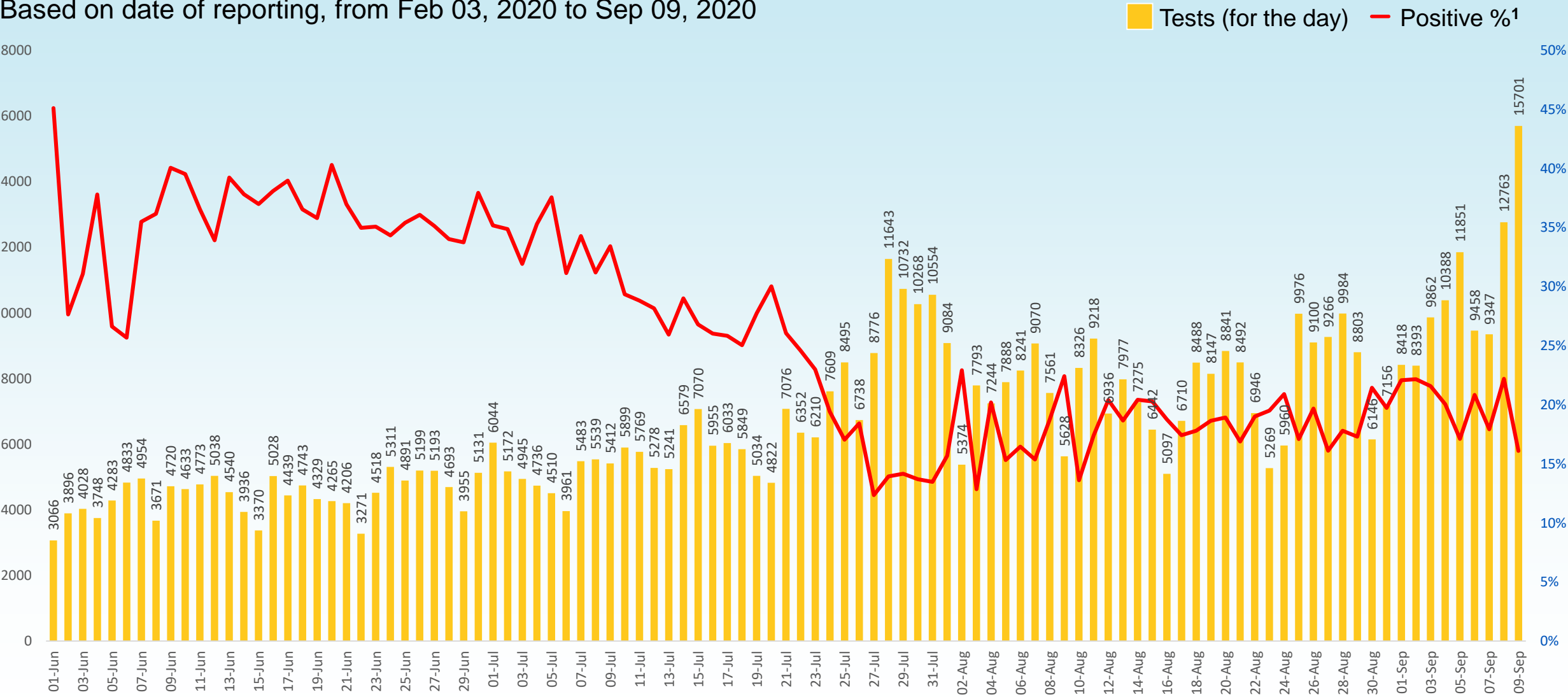
2 Total Positive cases (as per press release) as a % of total tests conducted

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

Data subject to change after scrutiny and ongoing verification process

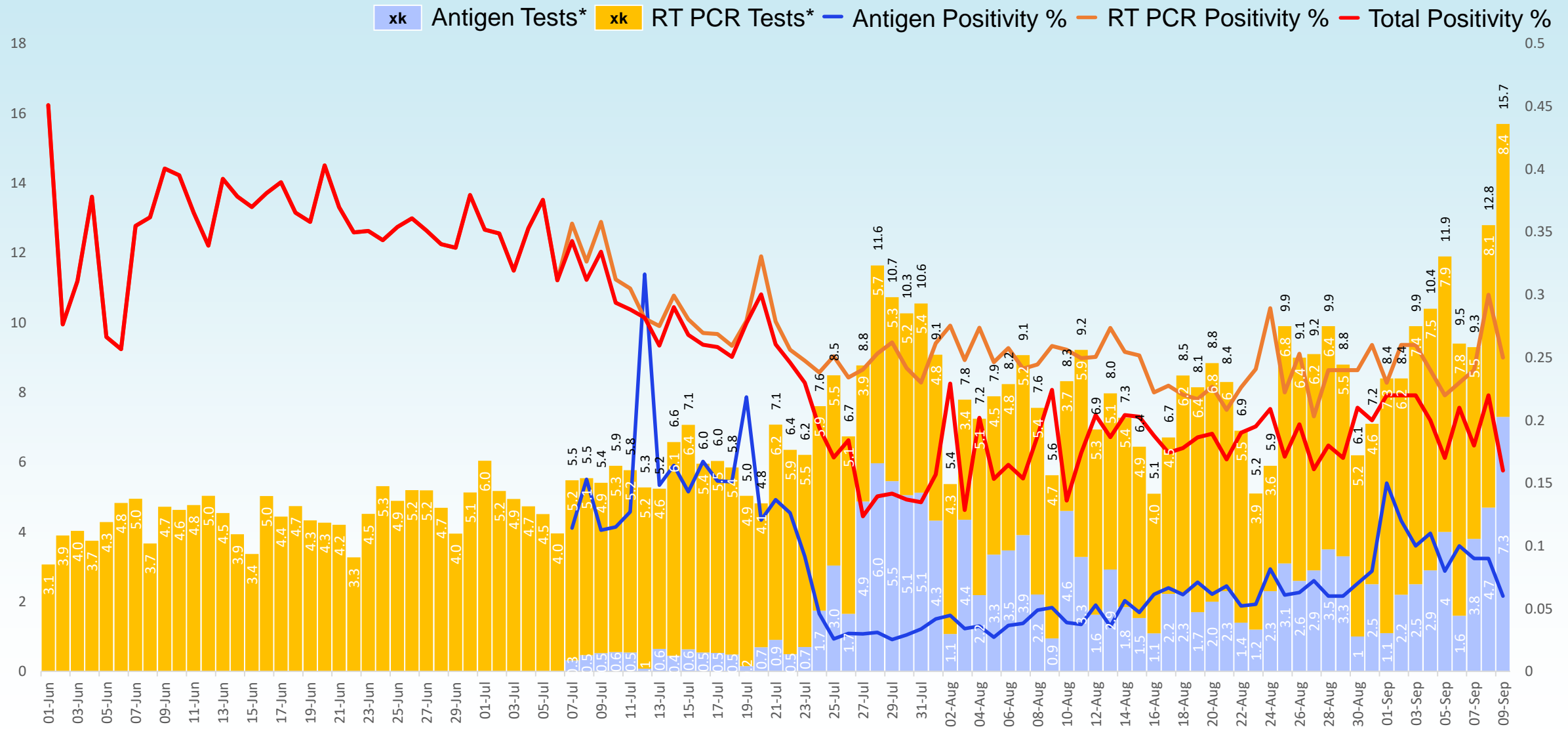
Trend of positive cases vis-à-vis total tests

Based on date of reporting, from Feb 03, 2020 to Sep 09, 2020



¹Positive samples for the day as a % of total tests for the day;
Positive Samples include duplicates with ICMR (~10%) and Out of Mumbai Cases (5%)
Source: Covid-19 daily update by the Public Health Department, BMC

Trend of positive cases vis-à-vis Tests

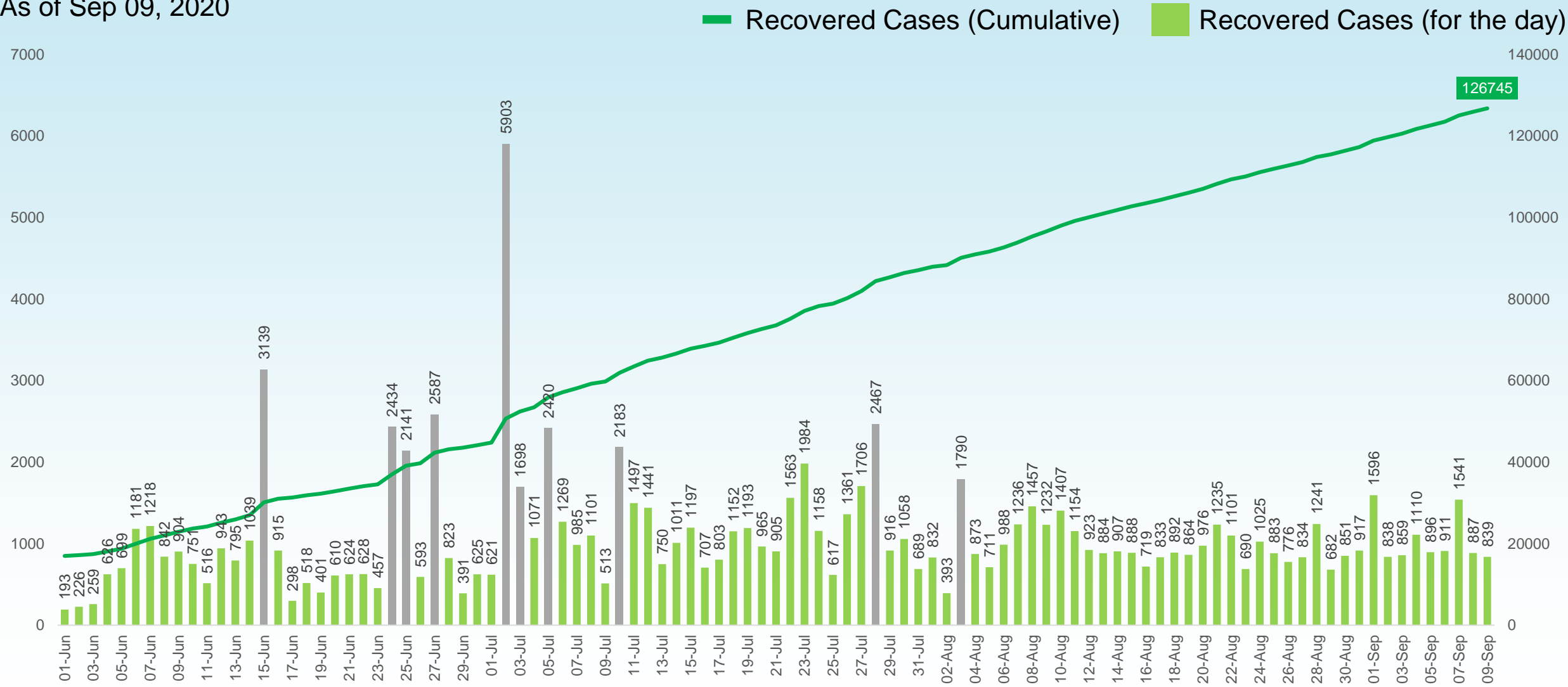


* Data for Antigen tests is available from Jul 07 onwards

*The tests data is in thousands

Trend of Recovered Cases

As of Sep 09, 2020

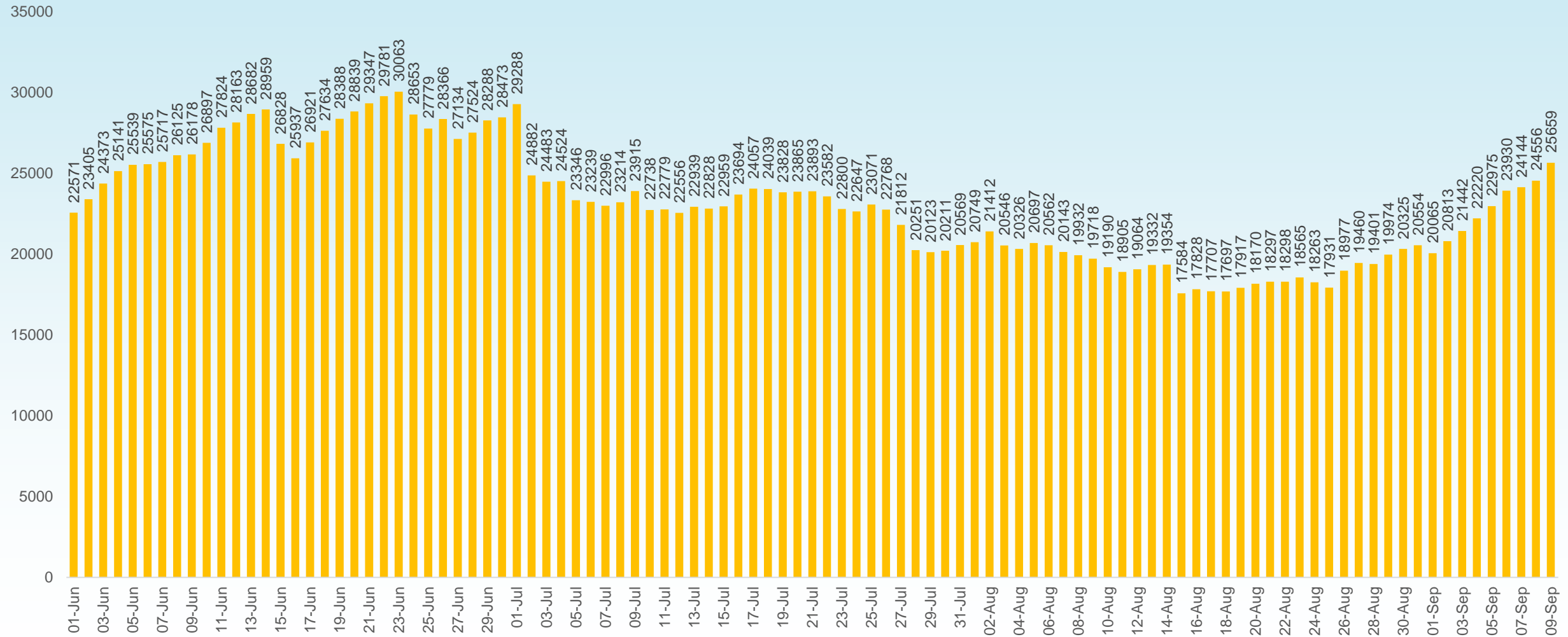


¹Spikes refer to reconciliation and updation for previous days

Trend of Active Cases

As of Sep 09, 2020

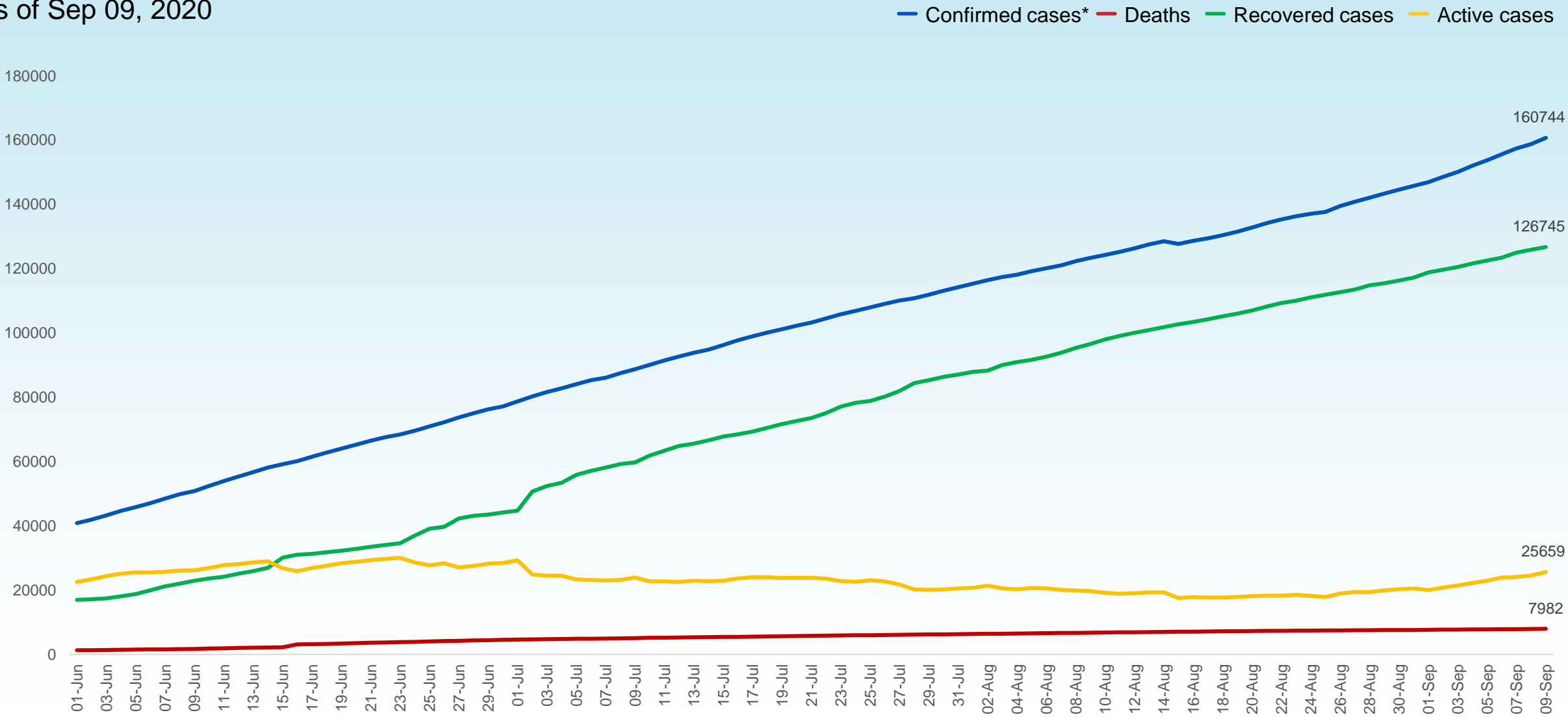
Active Cases (Cumulative)





Case summary for Mumbai

As of Sep 09, 2020





Key Trends

Contact tracing and home quarantine

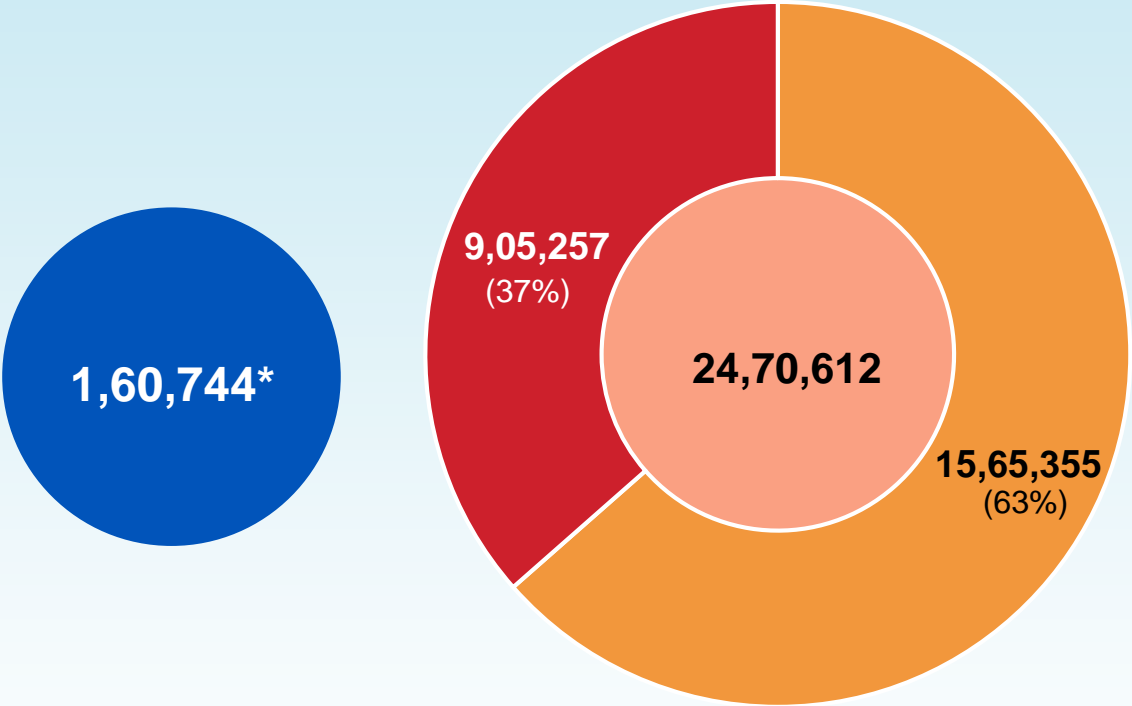
Status of COVID19 Positive Cases

Bed Capacity

Other initiatives

Update on contact tracing

Summary as of Sep 9, 2020



Positive patients

Contacts traced

- Positive patients
- Total contacts traced
- High risk
- Low risk

22,14,201

Completed quarantine

2,54,177

In home quarantine,

2,234

Currently at institutional quarantine facilities

1,50,572

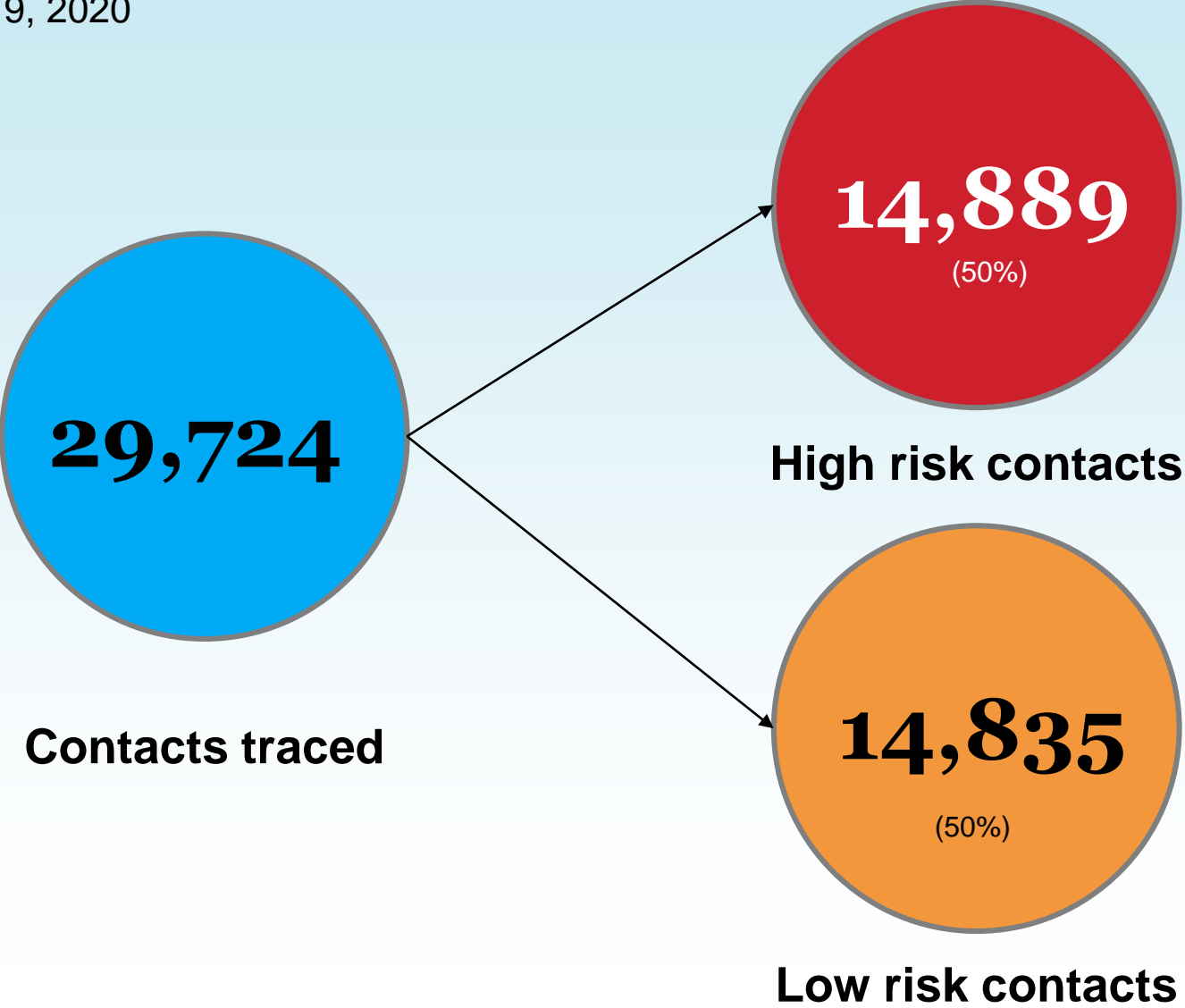
Shifted to institutional quarantine facilities till date

Source: Quarantine numbers from BMC Contact Tracing Report as on Sep 9, 2020; shift to Institutional facilities from "CCC1 and CCC2 Facilities"

Today's cases will reduce after reconciliation of duplicates & out of Mumbai.
 *Due to reconciliation, 239 duplicates Cases are removed from progressive positive cases.

Contact tracing report for last 24 hours

Summary as of Sep 9, 2020



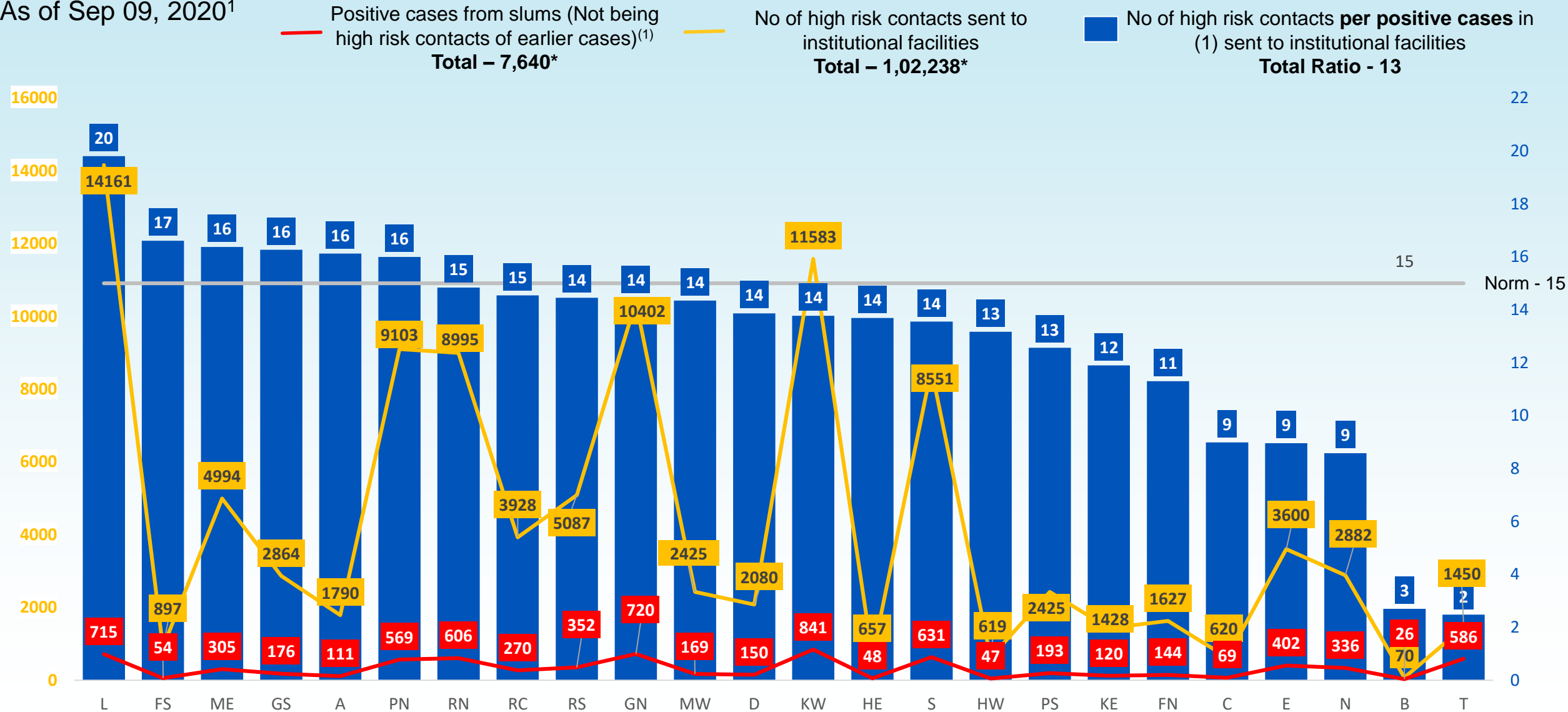
Source: Quarantine numbers from BMC Contact Tracing Report as on Sep 9, 2020; shift to Institutional facilities from "CCC1 and CCC2 Facilities"

Data subject to change after scrutiny and ongoing verification process



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

As of Sep 09, 2020¹



* Data for Ward B, Ward GS is updated as of Aug 08 and Ward T is updated as of Aug 29

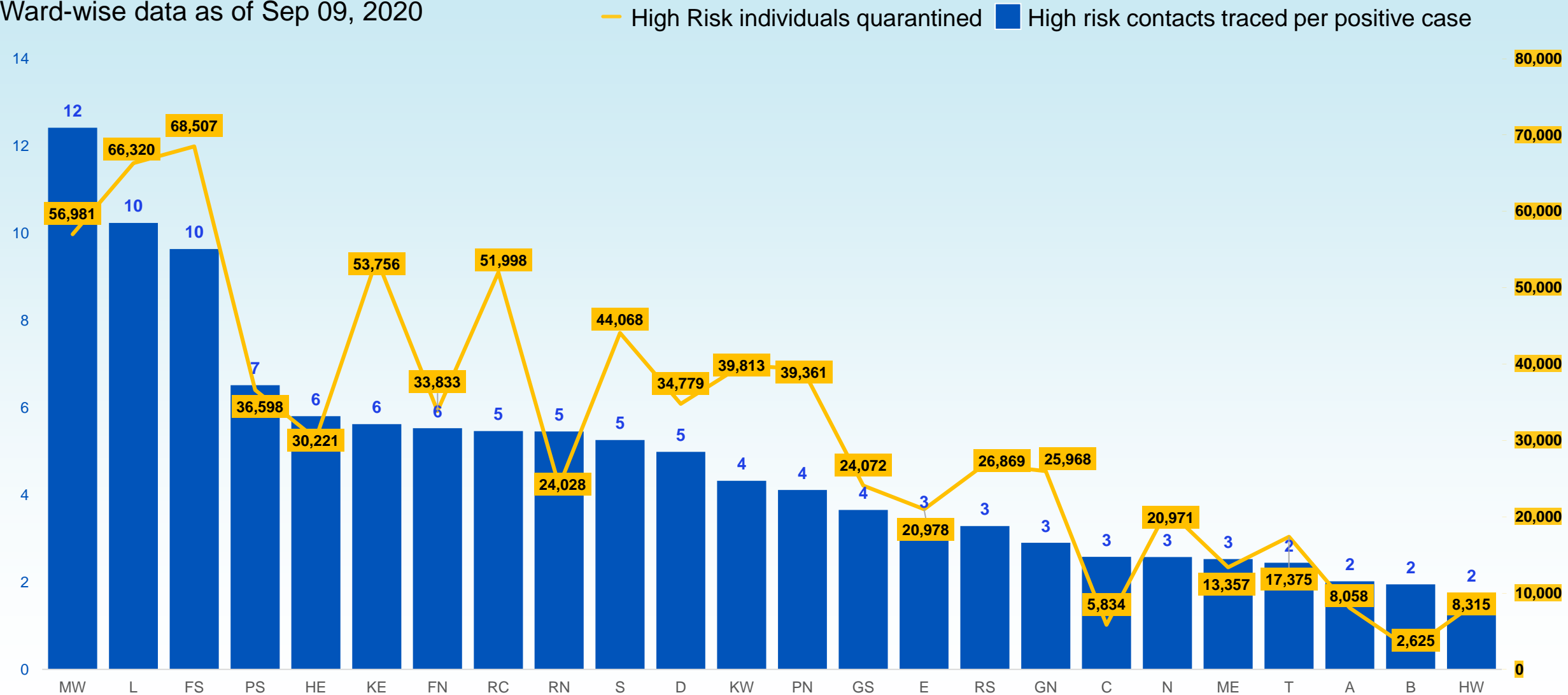
¹ Data since June 03, 2020; Source – Operation – Chase the virus

Data subject to change after scrutiny and ongoing verification process

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

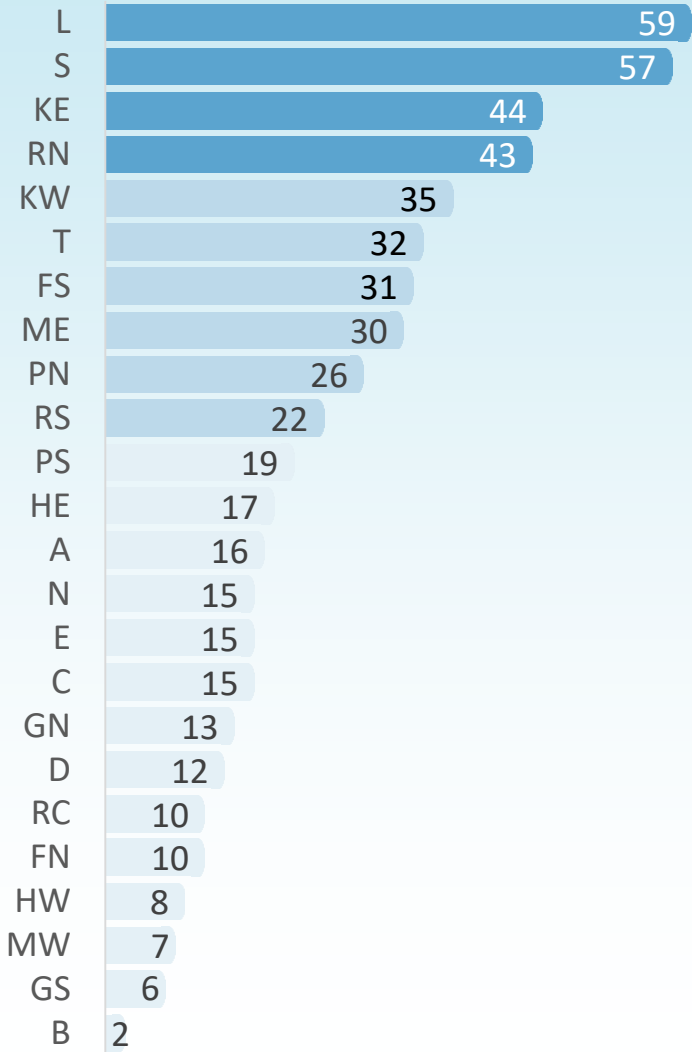
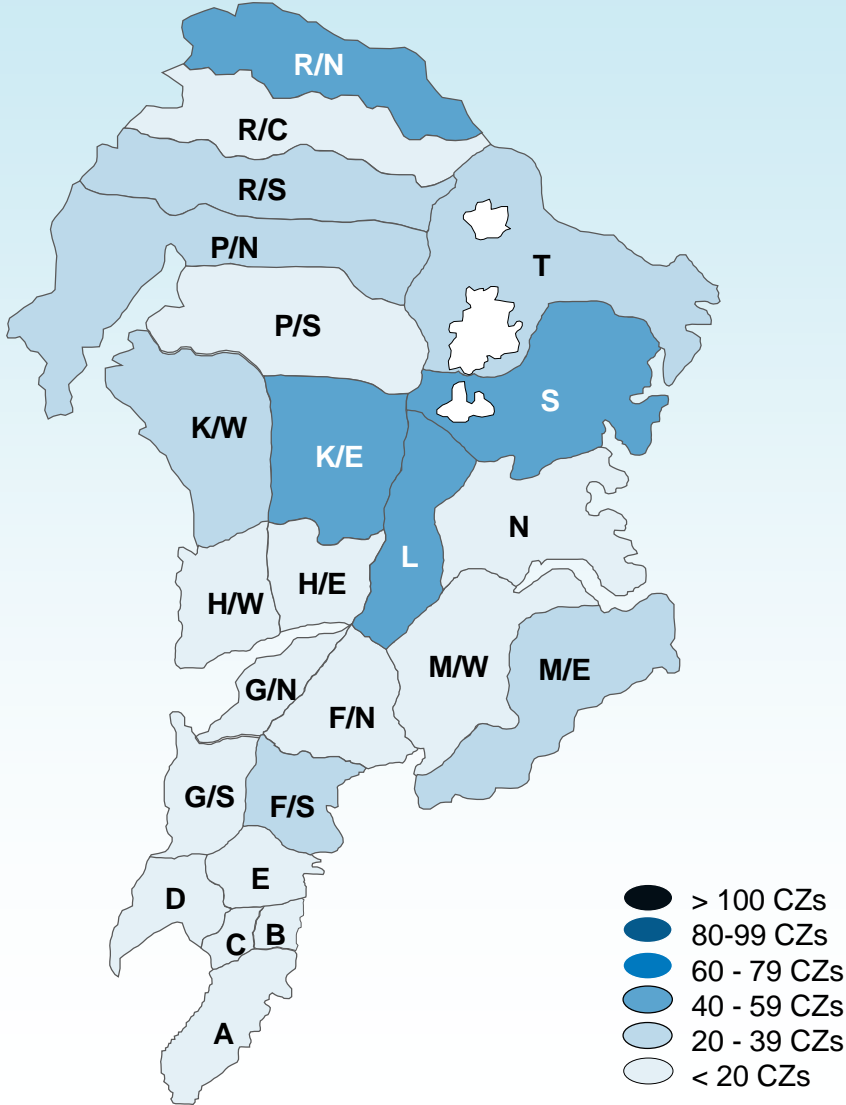


Ward-wise data as of Sep 09, 2020



Ward-wise containment zones – slums and chawls

As of Sep 09, 2020



544 *Active*
 Containment Zones

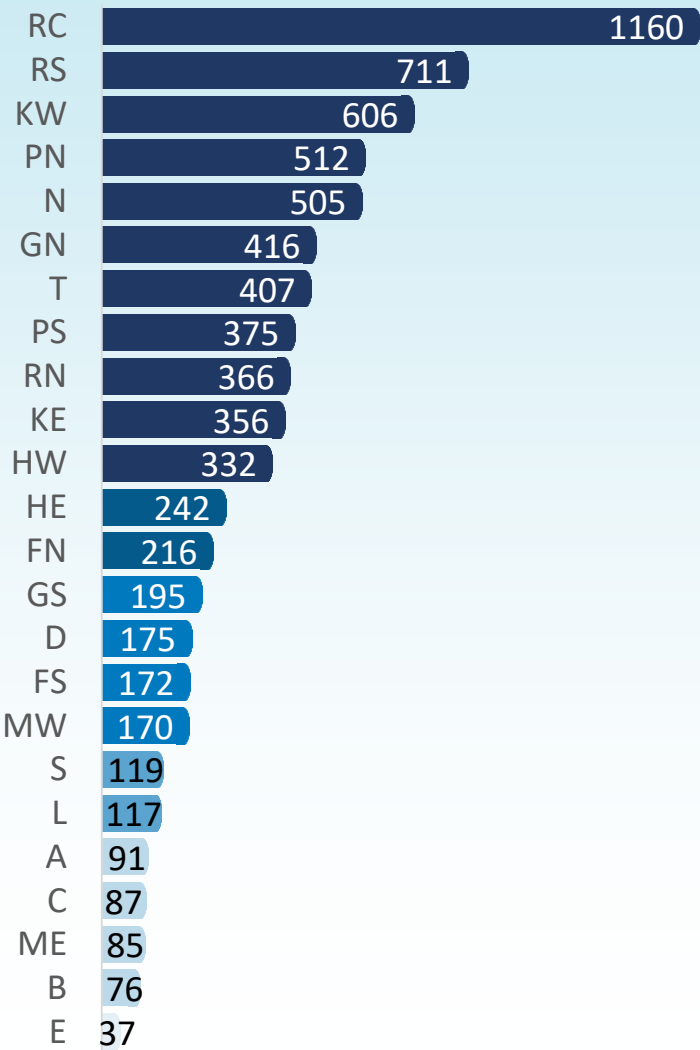
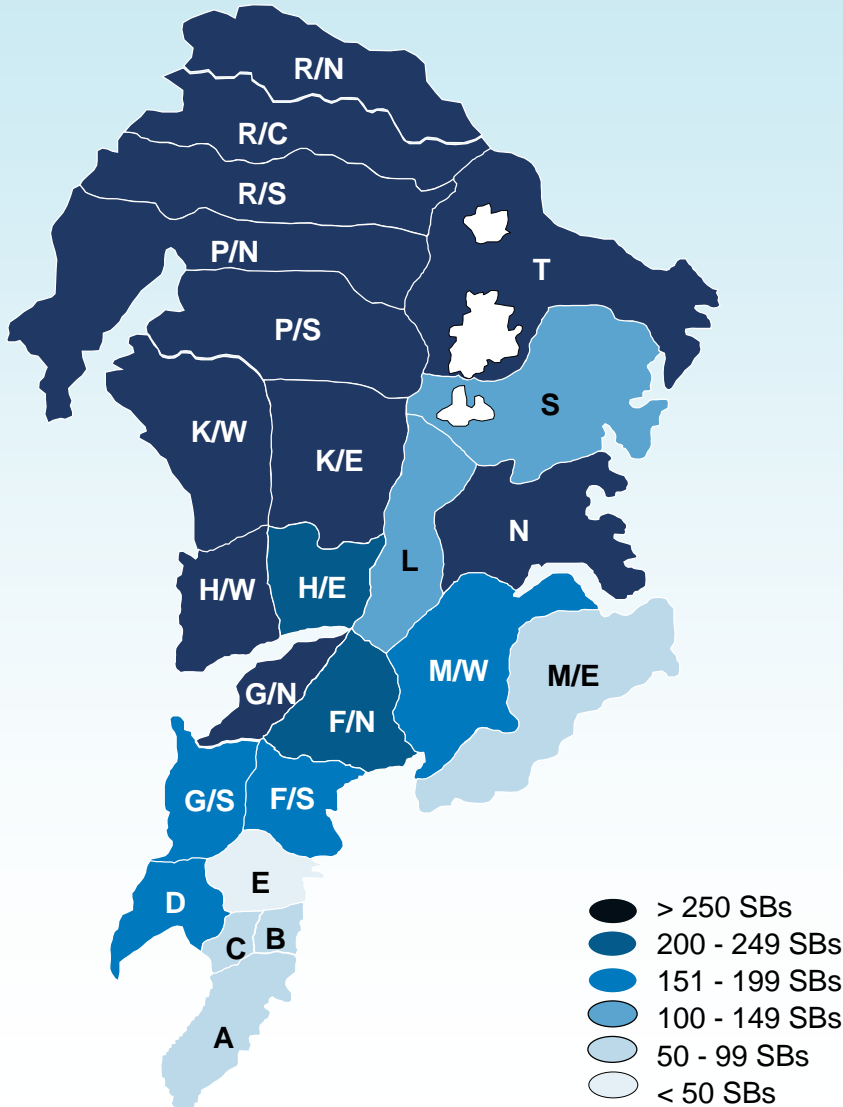
7.8 *lacs*
 No. of Households

34.5 *lacs*
 Population

1,014 *Released*
 Containment Zones

Ward-wise sealed buildings

As of Sep 09, 2020



7,528 Active
 Sealed Buildings

2.3 lacs
 No. of Households

8.3 lacs
 Population

23,125 Released
 Sealed Buildings



Key Trends

Contact tracing and home quarantine

Status of COVID19 Positive Cases

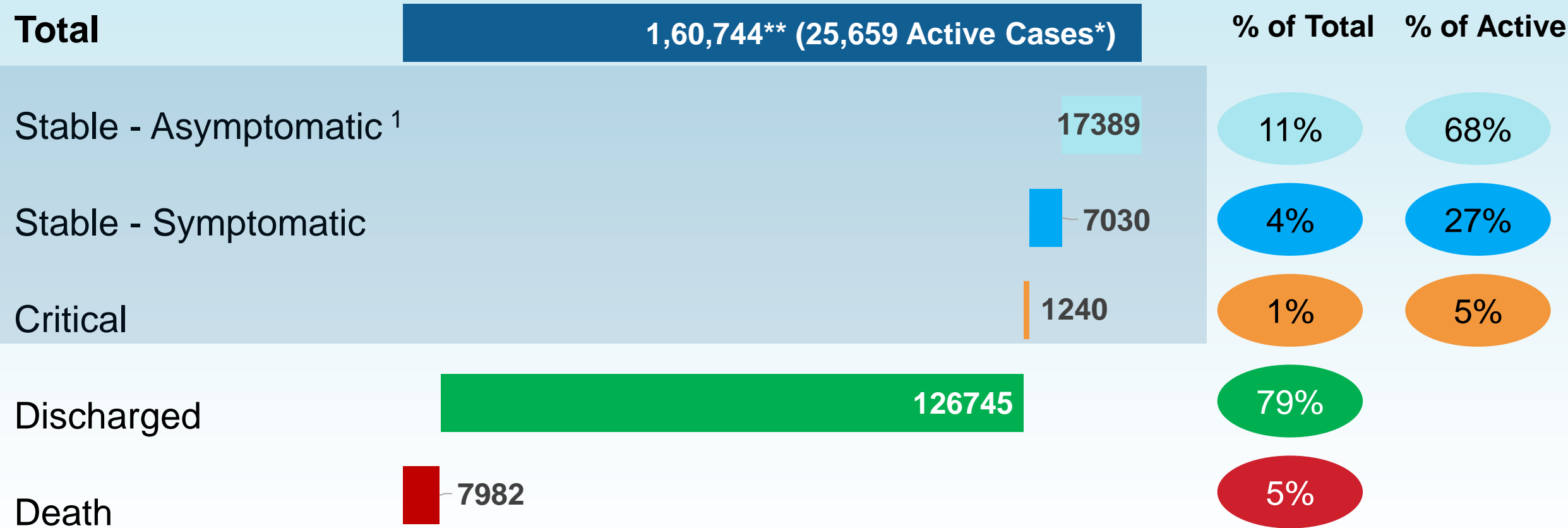
Bed Capacity

Other initiatives



Case summary for Mumbai

As of Sep 09, 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 (7,833 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

Today's cases will reduce after reconciliation of duplicates & out of Mumbai.

**Due to reconciliation, 239 duplicates Cases are removed from progressive positive cases

Data subject to change after scrutiny and ongoing verification process



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

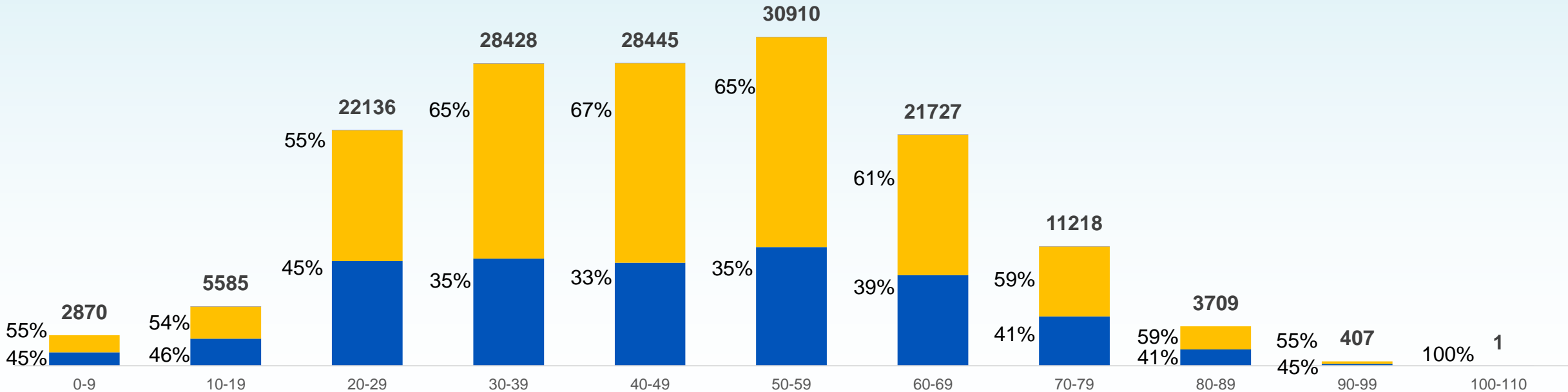
As of Sep 09, 2020¹

Total Positives
1,60,744^{*2}

Total Deaths
7,982²

Fatality Rate
4.97%

Female Male Others
Deaths Fatality Rate



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

1 Total Age and sex-wise break up is available 1,55,436 cases; age-wise breakup of deaths available for 7,982 cases

2 As on Sep 09

Today's cases will reduce after reconciliation of duplicates & out of Mumbai.

^{*}Due to reconciliation, 239 duplicates Cases are removed from progressive positive cases.

Data subject to change after scrutiny²⁰ and ongoing verification process

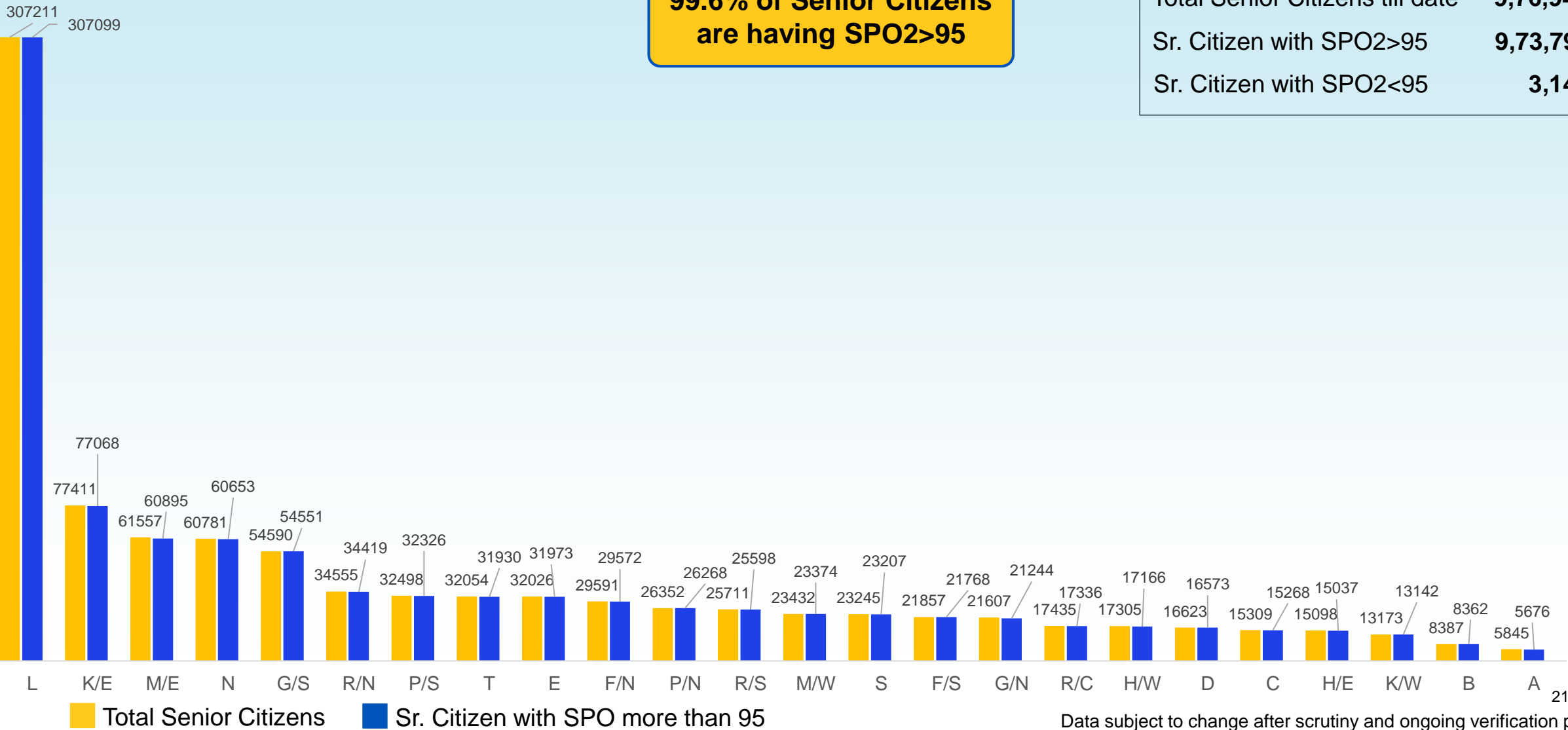


Proactive screening of elderly to protect them and contain mortality

Ward-wise data(progressive) till Sep 9, 2020

99.6% of Senior Citizens are having SPO2>95

Population Screened till date	1,78,35,354
Total Senior Citizens till date	9,76,941
Sr. Citizen with SPO2>95	9,73,793
Sr. Citizen with SPO2<95	3,148



Proactive screening of elderly to protect them and contain mortality

Ward-wise data for Sep 9, 2020

Wards	Total No. of Houses Surveyed	Population Covered	Total No. of Senior Citizens	Sr Citizen SPO2>95	* Sr Citizen SPO2<95
Total (Daily)	39,179	146,030	6,287	6,286	1
G/N	2,471	8,789	165	164	1
A	350	1,308	15	15	0
B	335	1,140	40	40	0
C	733	2,537	105	105	0
D	404	1,679	134	134	0
E	1,259	4,777	243	243	0
F/S	1,088	3,649	224	224	0
F/N	392	1,553	200	200	0
G/S	3,938	15,331	296	296	0
H/E	611	1,961	62	62	0
H/W	703	2,109	96	96	0
K/E	2,758	8,976	603	603	0
K/W	671	2,545	76	76	0
P/S	1,162	4,541	151	151	0
P/N	3,120	12,584	236	236	0
R/S	4,130	16,122	165	165	0
R/C	347	1,209	47	47	0
R/N	6,090	19,424	269	269	0
L	4,278	18,393	1,771	1,771	0
M/E	780	3,009	266	266	0
M/W	0	0	0	0	0
N	1,753	7,728	817	817	0
S	1,389	5,373	157	157	0
T	417	1,293	149	149	0

Summary till date

1,78,35,354*

Total Population covered till date

9,76,941

Senior Citizens covered till date

9,73,793

Senior Citizens with SPO2>95
till date

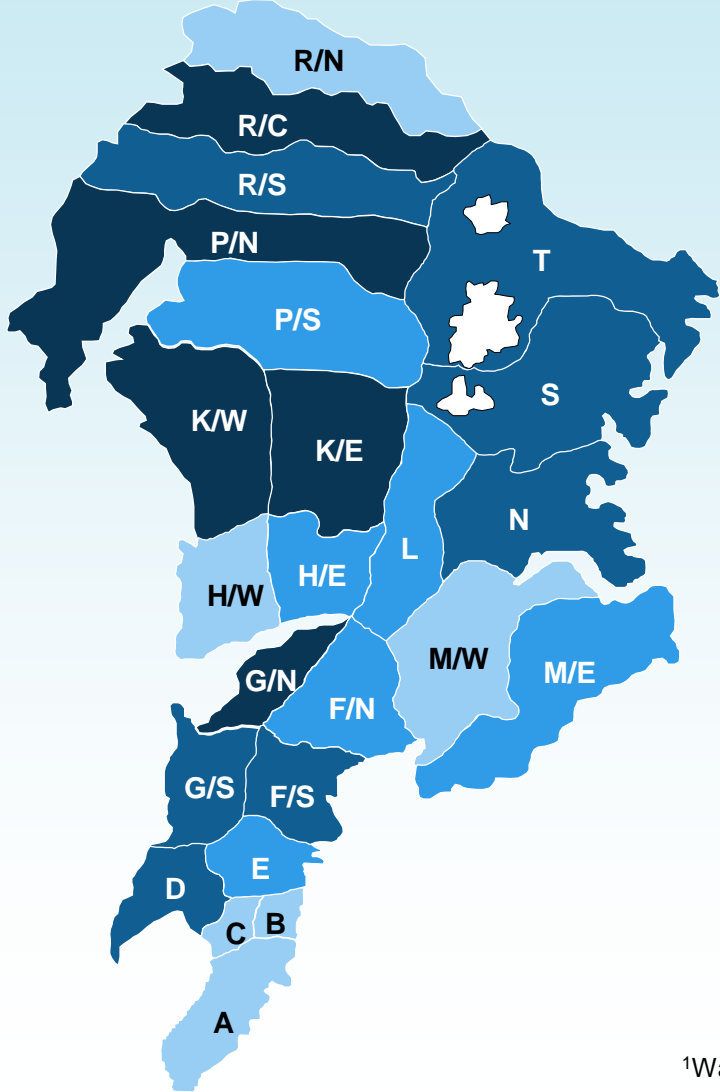
3,148

Senior Citizens with SPO2<95
till date



Ward-wise breakdown of positive cases

As of Sep 09, 2020



PN	9572	7980	371	1221
KE	9565	7791	552	1222
RC	9517	7333	302	1882
KW	9206	7359	343	1504
GN	8953	7281	514	1158
S	8384	6776	485	1123
RS	8183	6333	250	1600
N	8141	6491	424	1226
T	7114	5622	181	1311
FS	7109	5968	386	755
D	6978	5607	258	1113
GS	6588	5521	421	646
L	6482	5375	470	637
FN	6121	4946	324	851
E	6090	5019	308	763
PS	5620	4410	251	959
ME	5285	4391	323	571
HE	5206	4171	359	676
HW	4725	3901	206	618
MW	4590	3776	308	506
RN	4407	3395	163	849
A	3991	3423	75	493
C	2261	1907	108	246
B	1347	1086	95	166
		125862	7477	22096

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

- Discharged²
- Deaths³
- Active

Total Positives
1,60,744^{*1}

Total Active
22,096¹

Active = Positive – Discharges – Death

Today's cases will reduce after reconciliation of duplicates & out of Mumbai.

^{*}Due to reconciliation, 239 duplicates Cases are removed from progressive positive cases.

¹Ward-wise breakup is available for 1,55,435 cases (22,096 Active), Total

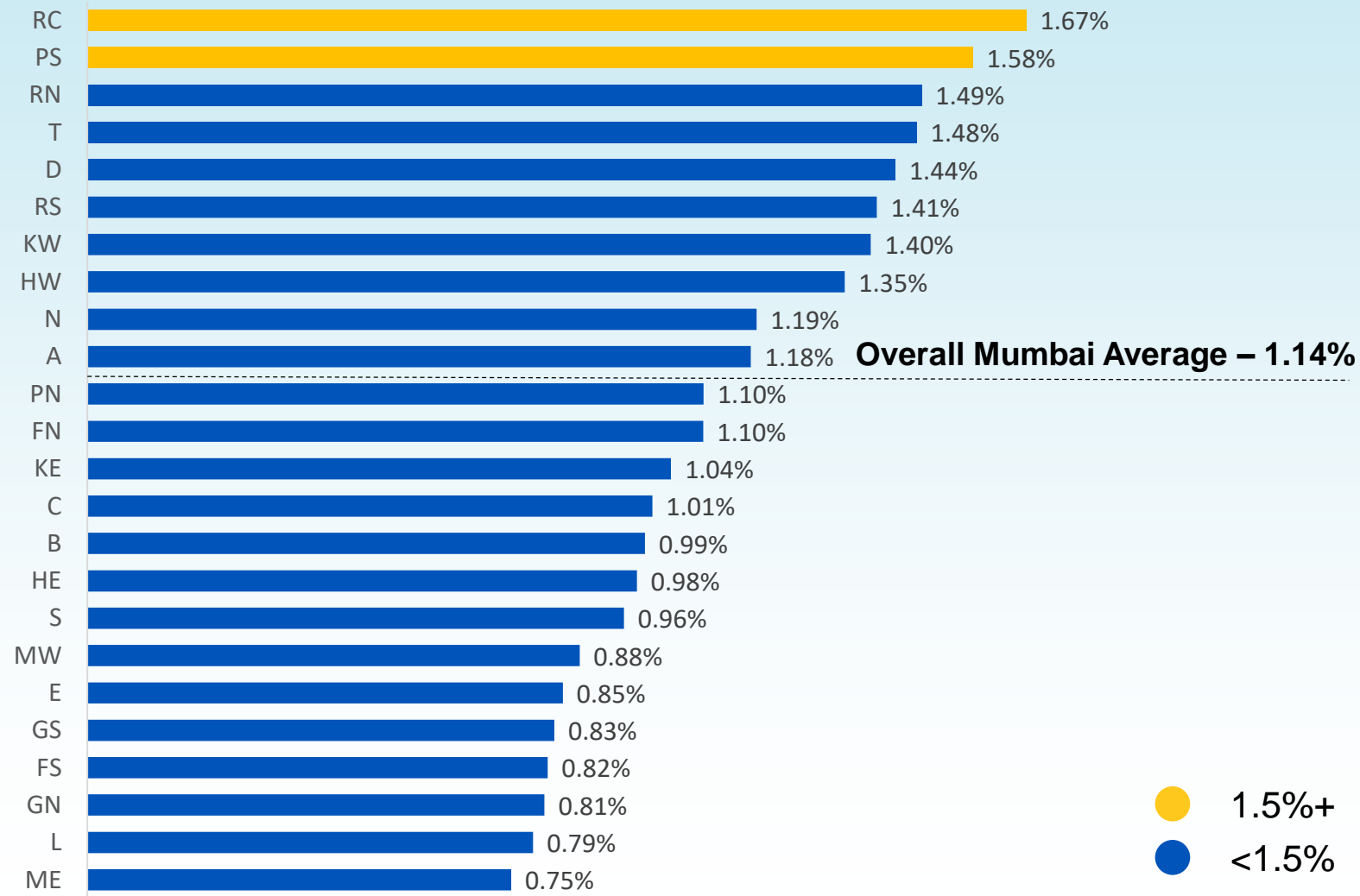
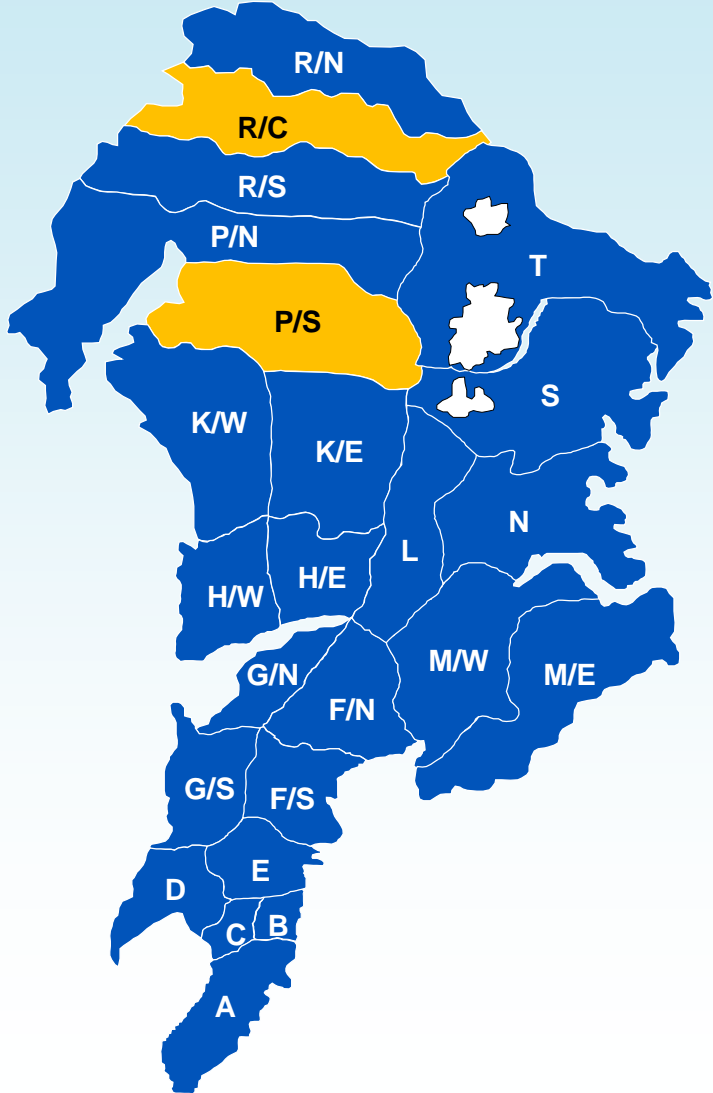
²Discharges as on Sep 09, Available for 1,25,862 cases,

³Deaths as on Sep 09, Available for 7,477 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 09, 2020



Ward-wise new cases

Positive cases for the last 7 days till Sep 09, 2020¹

Date of report	RC	PS	RN	T	D	KW	RS	HW	N	A	FN	PN	KE	C	B	HE	S	MW	E	GS	FS	GN	L	ME	Grand Total
Area>>>	Borivali	Goregaon	Dahisar	Mulund	Grant Road	Andheri W	Kandivali	Bandra	Ghatkopar	Colaba	Matunga	Malad	Andheri E	Marine Lines	Sandhurst Road	Khar	Bhandup	Chembur W	Byculla	Elphinstone	Parel	Dadar	Kurla	Chembur E	
As on 02nd Sep	8474	5037	3975	6420	6314	8355	7421	4302	7493	3676	5671	8868	8897	2108	1257	4863	7844	4318	5741	6217	6714	8459	6133	5014	143571
03-Sep	159	58	58	67	73	120	92	65	84	27	60	70	90	17	14	33	53	22	38	36	42	62	45	30	1415
04-Sep	183	92	92	106	100	101	114	66	85	70	53	123	101	18	14	36	77	31	50	65	70	74	54	44	1819
05-Sep	129	86	54	111	83	118	114	48	119	39	69	85	99	32	5	48	98	43	45	29	54	82	47	32	1669
06-Sep	160	95	68	89	105	134	113	71	91	50	80	103	123	27	15	48	66	37	51	59	47	71	64	40	1807
07-Sep	125	91	40	101	63	115	121	67	103	40	58	91	76	17	13	77	69	37	38	64	41	69	58	40	1614
08-Sep	118	70	35	92	131	94	75	38	79	47	47	74	92	21	10	42	68	30	49	51	60	41	32	29	1425
09-Sep	169	91	85	128	109	169	133	68	87	42	83	158	87	21	19	59	109	72	78	67	81	95	49	56	2115
As on 09th Sep	9517	5620	4407	7114	6978	9206	8183	4725	8141	3991	6121	9572	9565	2261	1347	5206	8384	4590	6090	6588	7109	8953	6482	5285	155435
Days to double	42	44	47	47	49	50	50	52	58	59	64	64	67	69	70	71	73	79	82	84	85	85	88	92	61

Wards <= 50 days to double

- Ward RC
- Ward PS
- Ward RN
- Ward T

- Ward D
- Ward KW
- Ward RS

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 09, 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

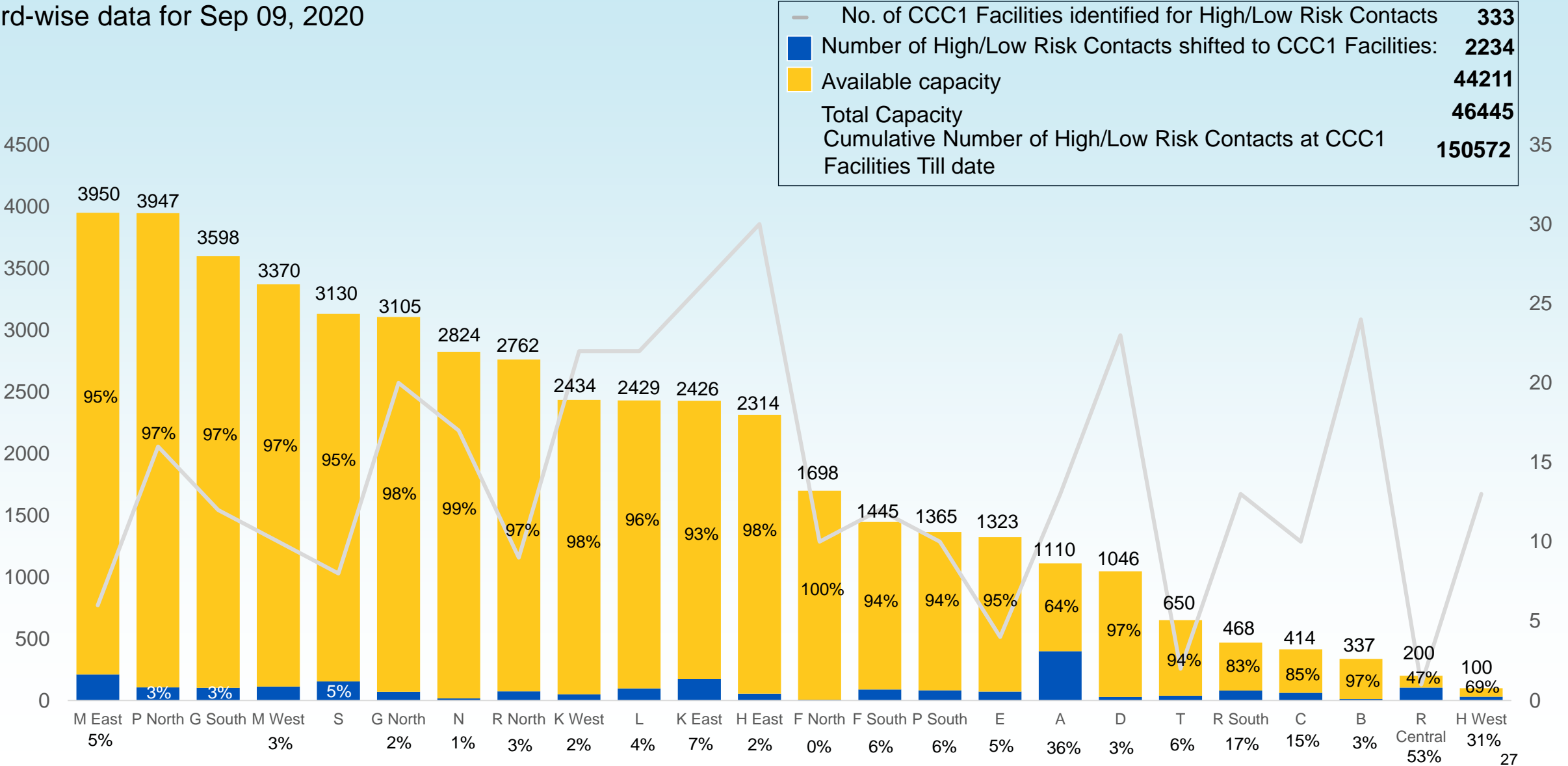
Bed Capacity

Other initiatives



Ward-wise bifurcation of CCC1 facilities

Ward-wise data for Sep 09, 2020



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

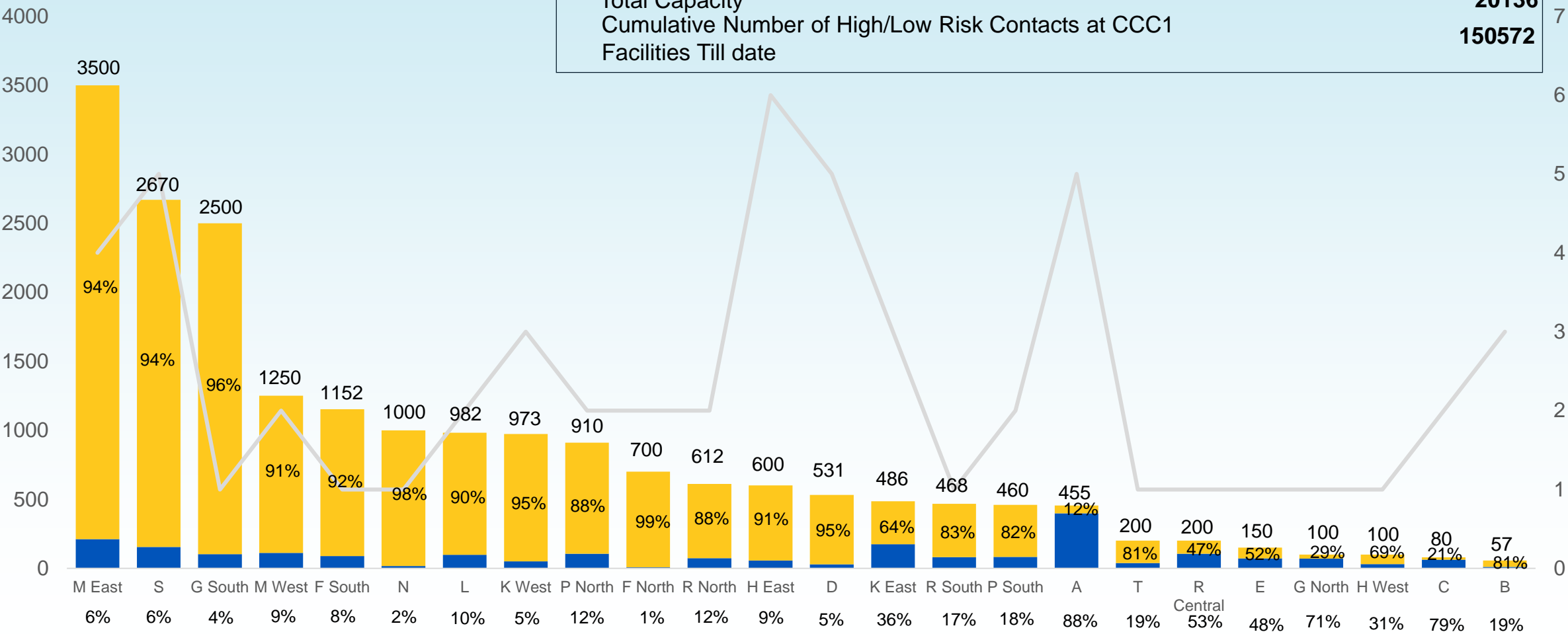
Data subject to change after scrutiny and ongoing verification process



Ward-wise bifurcation of ACTIVE and BUFFER CCC1 facilities

Ward-wise data for Sep 09, 2020

No. of ACTIVE and BUFFER CCC1 Facilities identified for High/Low Risk Contacts	57
Number of High/Low Risk Contacts shifted to CCC1 Facilities:	2234
Available capacity	17902
Total Capacity	20136
Cumulative Number of High/Low Risk Contacts at CCC1 Facilities Till date	150572

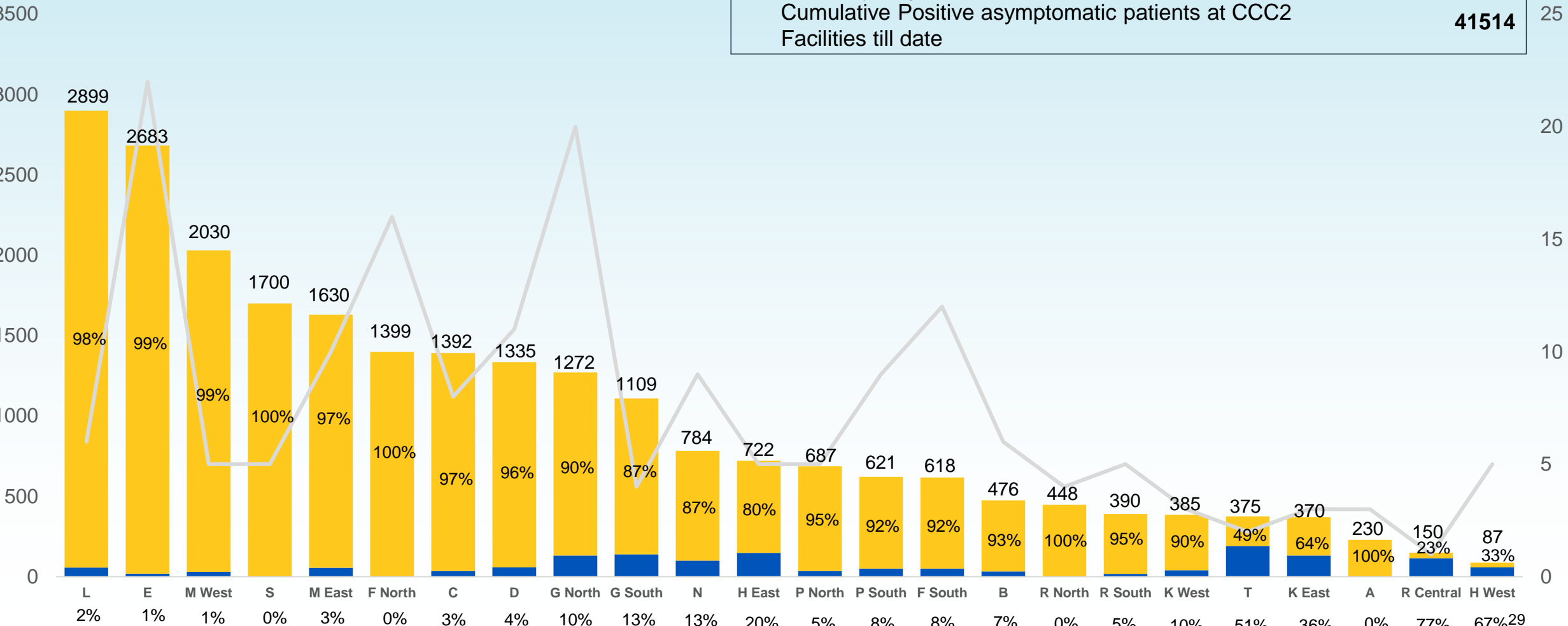




Ward-wise bifurcation of CCC2 facilities

Ward-wise data for Sep 09, 2020

No. of CCC2 Facilities Identified for Positive Asymptomatic Patients	179
Number of positive asymptomatic patients shifted to CCC2 Facilities	1503
Available capacity	22289
Total Capacity	23792
Cumulative Positive asymptomatic patients at CCC2 Facilities till date	41514



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

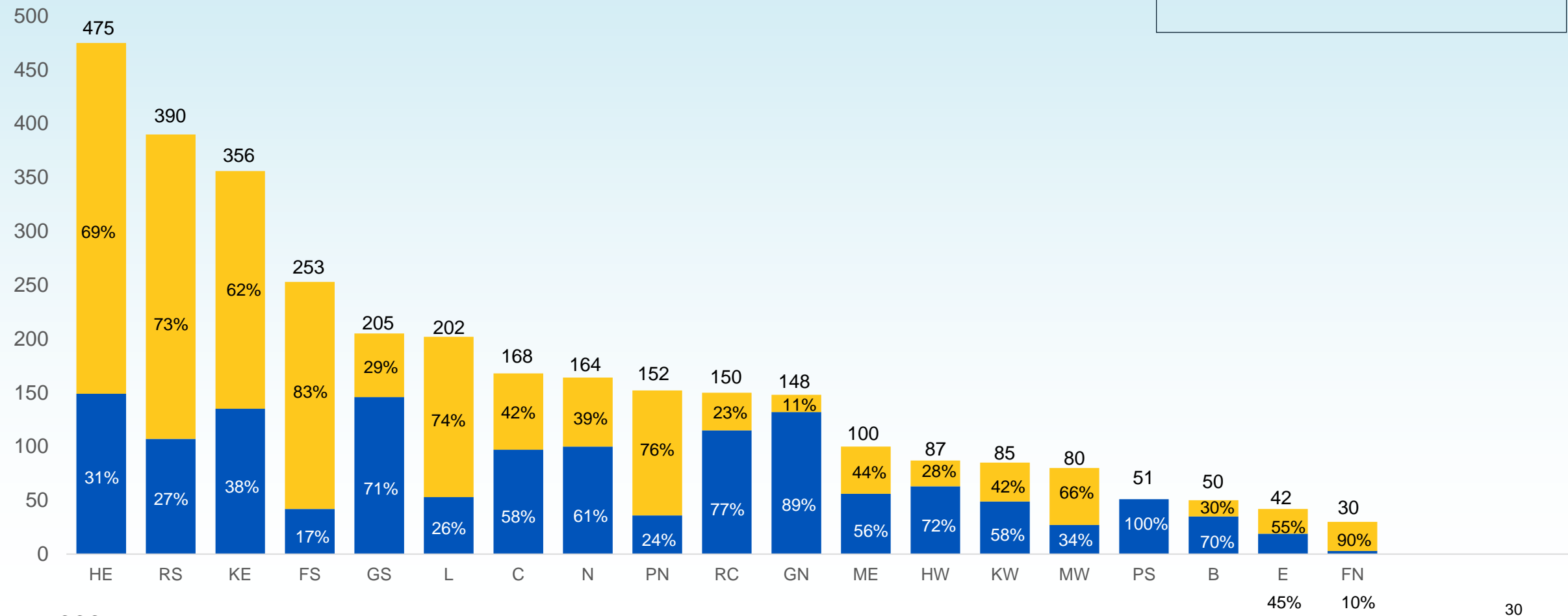
Data subject to change after scrutiny and ongoing verification process



Ward-wise bifurcation of ACTIVE CCC2 facilities

Ward-wise data for Sep 09, 2020

Beds occupied	1415
Available capacity	1773
Total capacity	3188
Cumulative patients till date	36353



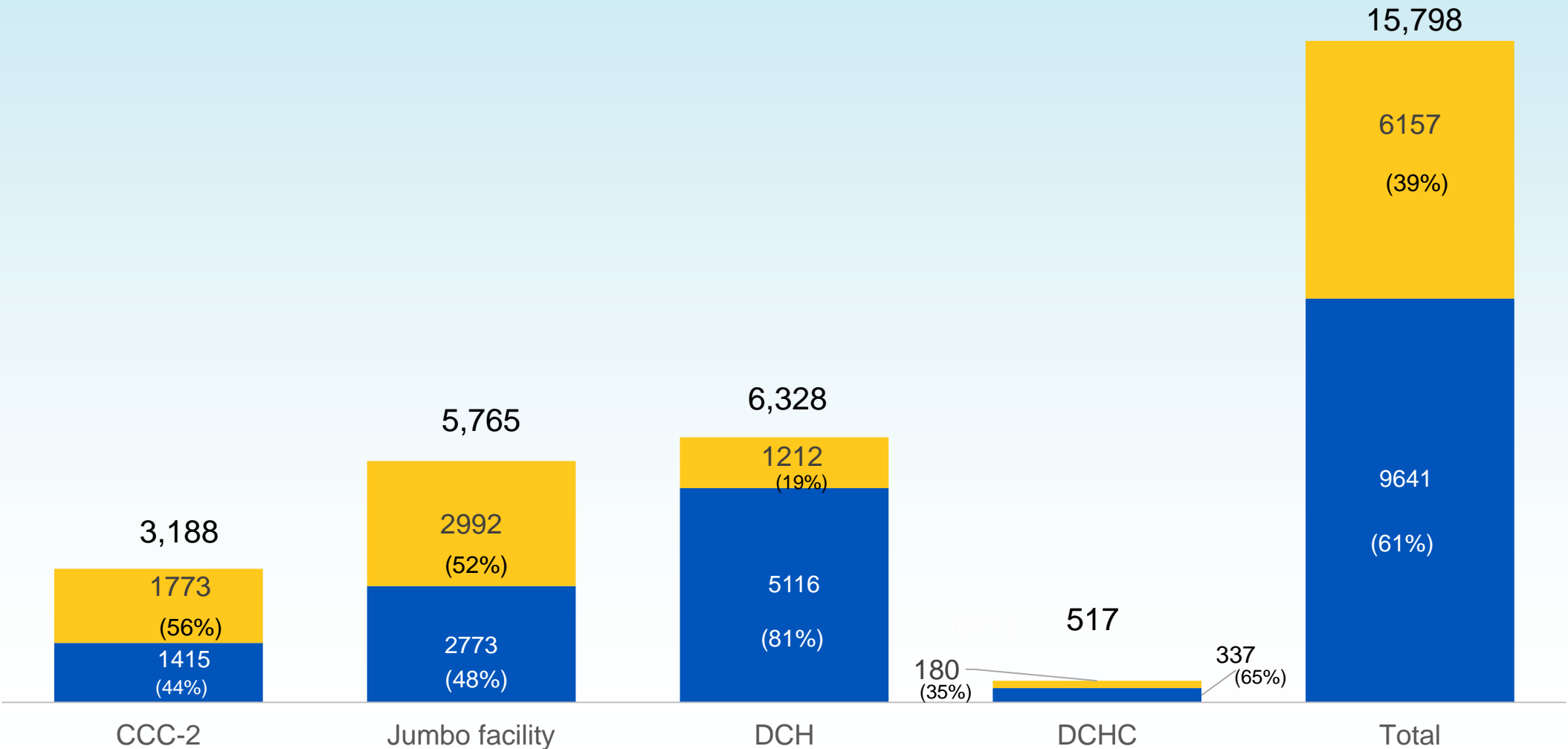
Source: "CCC2 line list"

Data subject to change after scrutiny and ongoing verification process

Summary of total bed capacity

As of Sep 9, 2020

On bed patients Available capacity



Source: At a glance facilities & DMU dashboard

Data subject to change after scrutiny and ongoing verification process

Covid19 Bed Management

Data as on 01:00 PM, Sep 10, 2020 , Subject to change

Covid Beds	Capacity	Occupancy	Vacancy
Total	12,610	8,226	4,384
ICU Beds	1,414	1,330	84
Regular	1,370	1,300	70
Modular	10	9	1
Pediatric ICU	12	6	6
Neonatal ICU	22	15	7
Normal Beds	11,196	6,896	4,300
Quarantine for Suspect	859	583	276
Isolation for Positives	9,921	6,125	3,796
Pregnancy	237	69	168
Others (Cancer + Dialysis)	179	119	60
<i>O2 Beds*</i>	7,840	4,942	2,898
<i>Ventilators*</i>	936	898	38

Source: DMU dashboard;

*O2 Beds and Ventilators are a subset of ICU & Normal Beds

Data subject to change after scrutiny and ongoing verification process

Summary of total bed capacity

Data as on 01:00 PM, Sep 10, 2020 , Subject to change

			COVID Beds				
			Total	ICU Beds	Normal Beds	O2 Beds*	Ventilators*
Capacity	Total		12,610	1,414	11,196	7,840	936
	Public	Hospitals	4,522	643	3,879	2,604	517
		Jumbo	5,765	244	5,521	3,777	146
	Pvt	Hospitals	2,323	528	1,795	1,459	273
Occupancy	Total		8,226	1,330	6,896	4,942	898
	Public	Hospitals	3,405	608	2,797	2,102	495
		Jumbo	2,773	207	2,566	1,571	138
	Pvt	Hospitals	2,048	506	1,542	1,269	265
Vacancy	Total		4,384	84	4,300	2,898	38
	Public	Hospitals	1,117	34	1,083	502	22
		Jumbo	2,992	28	2,964	2,206	8
	Pvt	Hospitals	275	22	253	190	8

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



Key Trends

Contact tracing and home quarantine

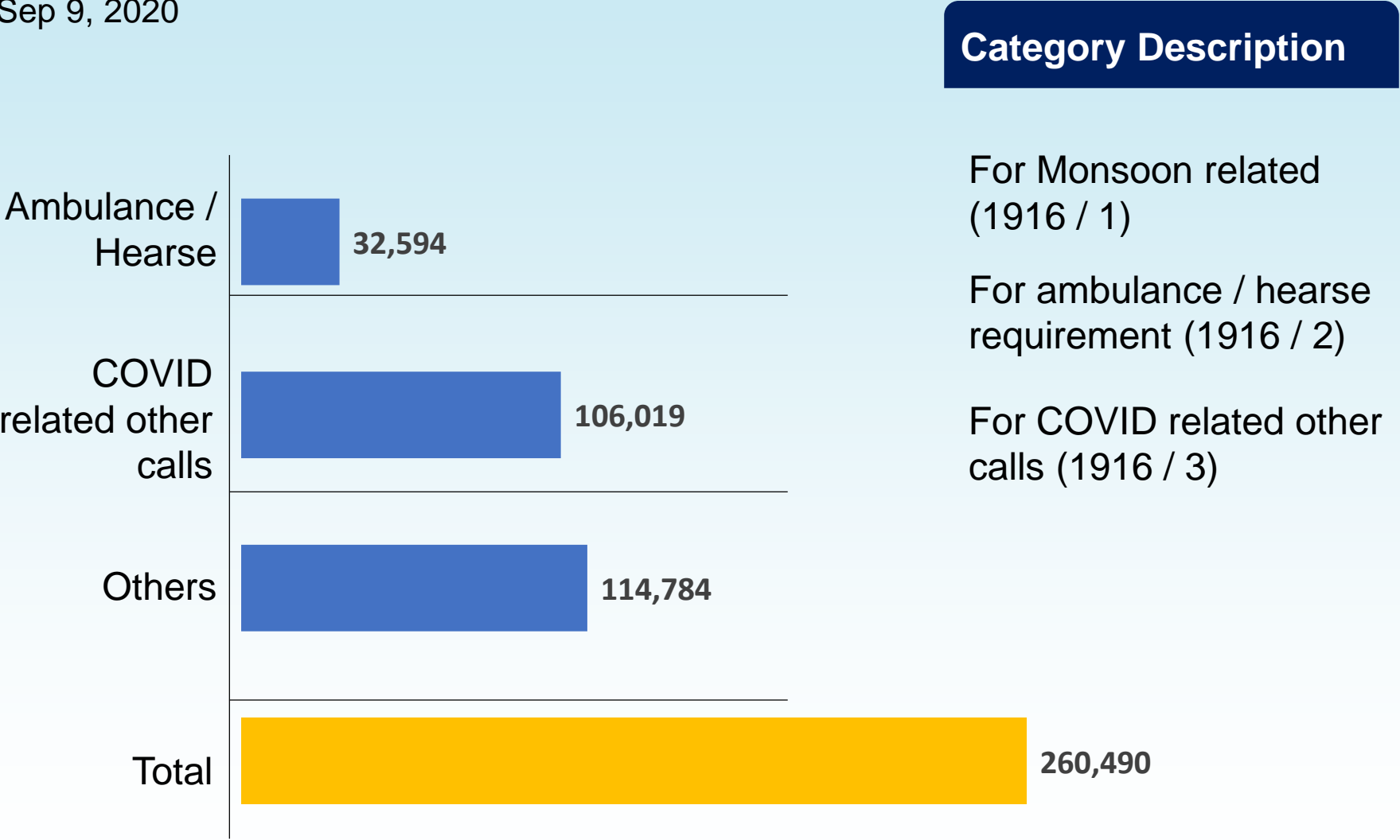
Status of COVID19 Positive Cases

Bed Capacity

Other initiatives

Call Center update

For all calls received from April 24 to Sep 9, 2020



Management of Waste from Quarantined Areas

September 8, 2020



Waste Collected (in Kgs)

COVID BMW (in Kgs)
13,189

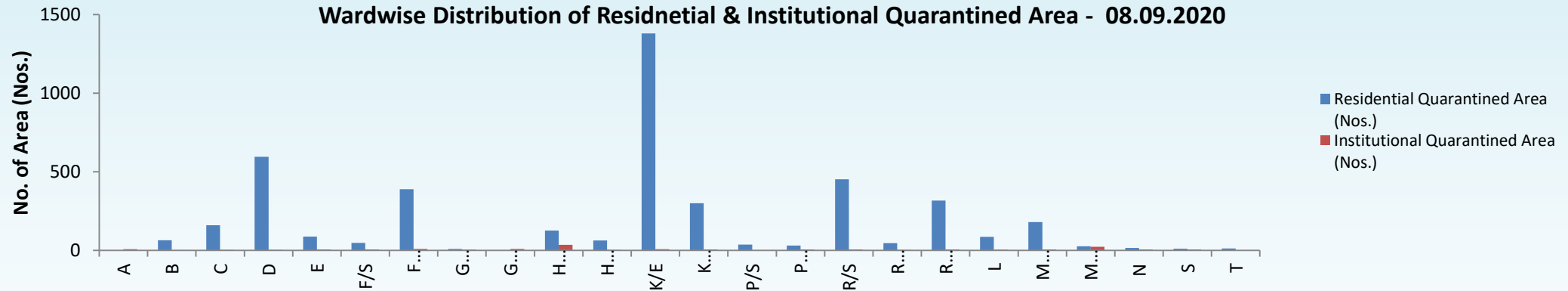
MCGM Quarantine BMW (in Kgs)
2,811

Total BMW (in Kgs):
16,000.0

Total MSW Collected by MCGM from Quarantined Area (in Kgs):
65,100.0

Total MSW & BMW Collected by MCGM from Quarantined Area (in Kgs):
81,100

Wardwise Distribution of Residential & Institutional Quarantined Area - 08.09.2020



Wardwise Distribution of Total BMW & MSW Collected- 08.09.2020



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

Thank you

