

COVID 19: Wave 2: Trend Analysis & Projection

11 July 2021

Project: Jeevan Raksha is an initiative of Proxima which focuses on Advocacy, Analytics, and Awareness in the area of healthcare.

Mission: Actively contribute towards Right to Health as a constitutional right of Indian citizens.

Project: Jeevan Raksha has been in the forefront of providing sharper analytical insights on emerging patterns of COVID 19 in India to the Central / State Government administrations, media, and general public. The contribution is appreciated by many state Governments.

Project: Jeevan Raksha acknowledges the technical support and guidance of Public Health Foundation of India (**PHFI**)

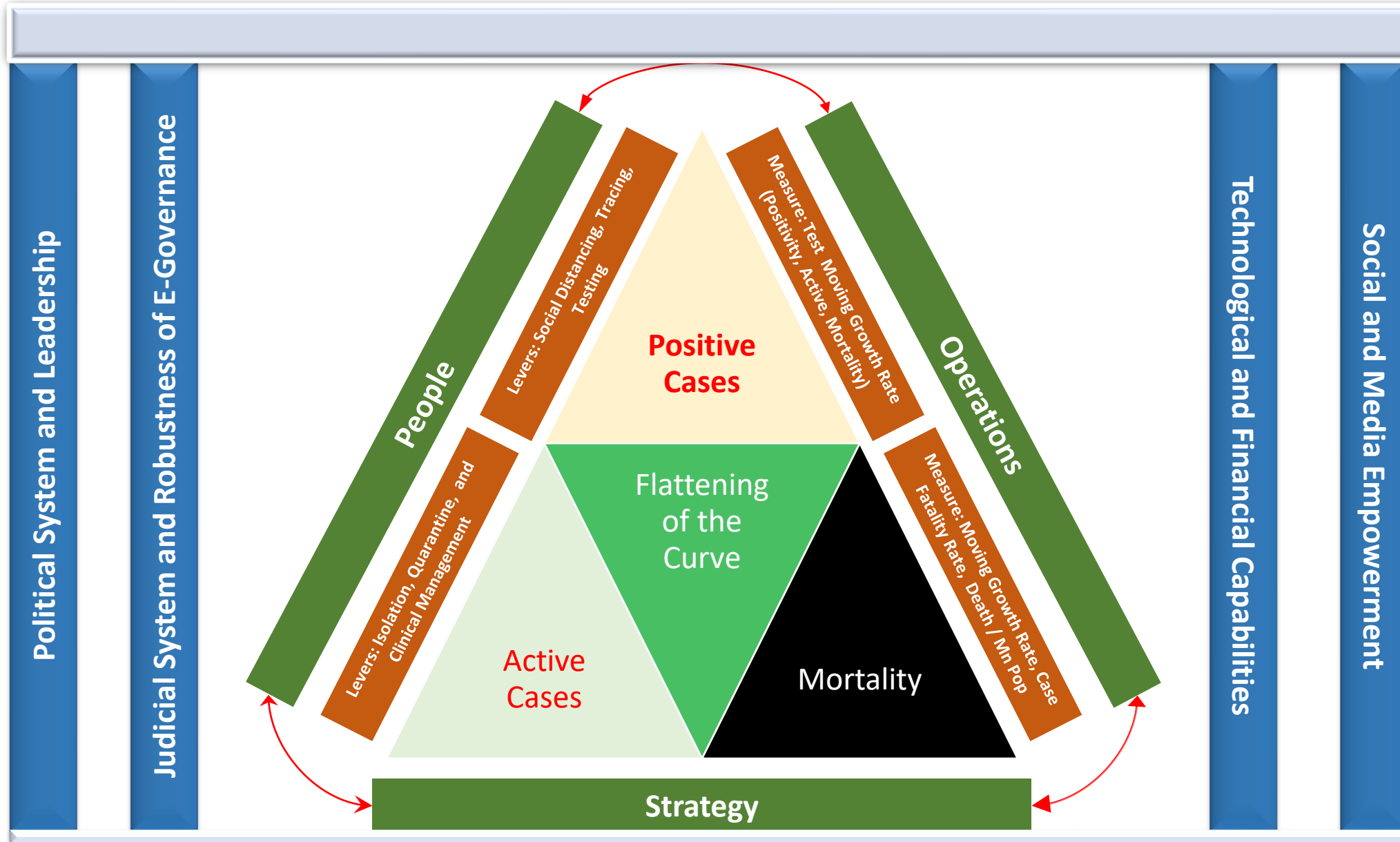


satyam-eva jayate, Truth alone triumphs, was adopted as the national motto of India on 26 January 1950

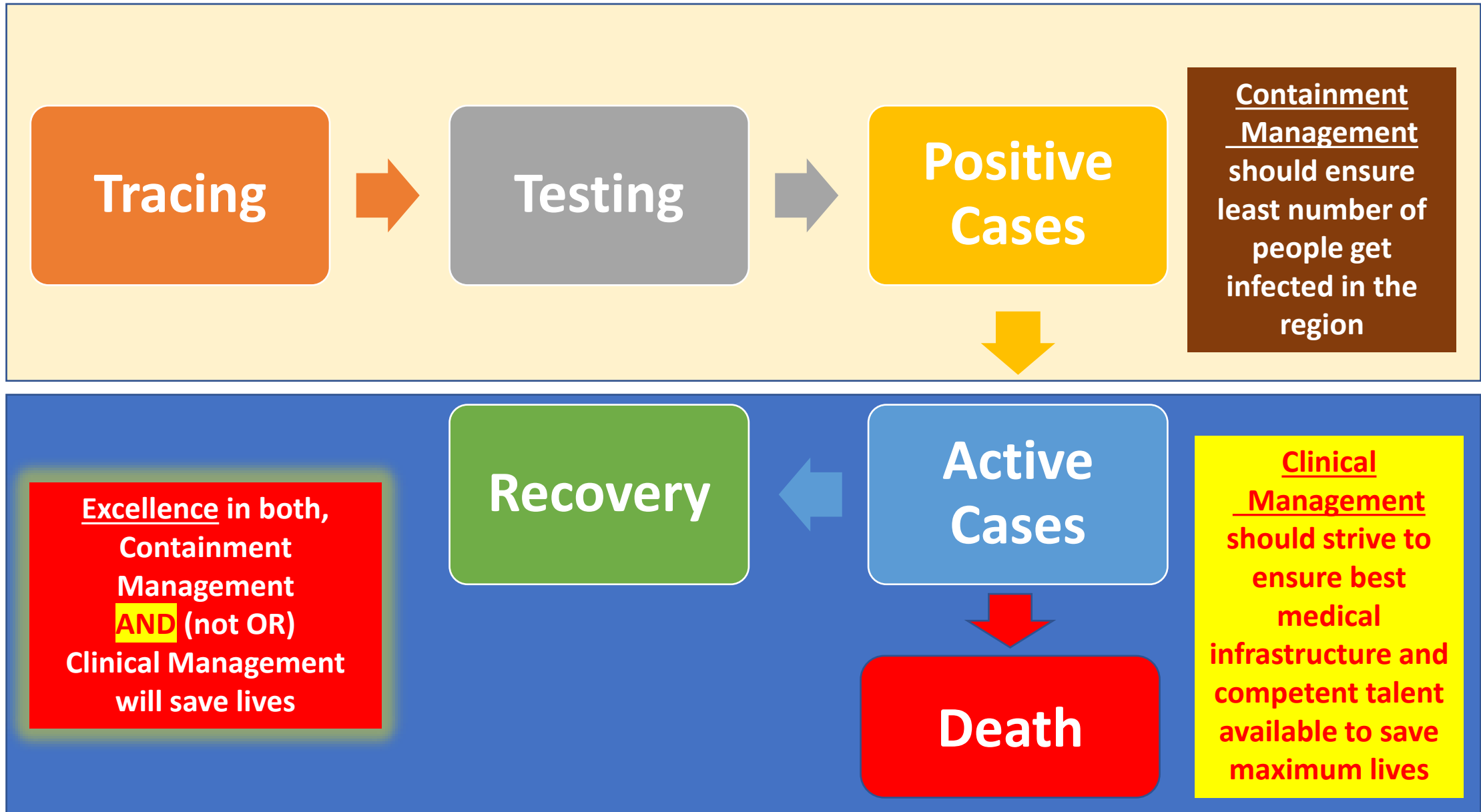
In COVID management, **Truthiness** in the disclosed data (data integrity) of Testing, Positivity, Recovery, and Fatality; or **truthfulness** of a individual about his/her (including family) health condition, is vital for India's efforts to save lives of the people.

Proxima Pandemic & Epidemic Management System (PPMS)

JEEVAN RAKSHA
PROTECTING LIVES



Qualitative and Quantitative Testing will determine the fate of the people



COVID 19: Wave 2: Projections: 11 July – 10 Aug

The projection is an effort to help the Central and State Government to examine and initiate necessary steps by effectively mobilising the required resources and achieve the core objective of reducing mortality.

I am delighted and pleased to learn that your organization Jeevan Raksha is active & doing human work in the worst situation of COVID - 19, I appreciate & Express my feelings towards your trends and projection regarding COVID - 19. I wish to congratulate you and team vision for Jeevan Raksha project.

I wish you every success in your motto.

Thank You.

Shri Vinod L Chavda

Hon'ble Member of Parliament
Kutch-Morbi Constituency, Gujarat
17 June 2021

Thank you for sending your forecast. I am impressed that you have accurately forecast the growth in the last month. We will prepare for the scenario you have outlined for the next month.

Regards,

Shri T M Vijay Bhaskar IAS
Chief Secretary
Government of Karnataka
19 August 2020

India's COVID cases is expected to reach 32.1 Mn, additional 1.26 Mn new cases by 10th August



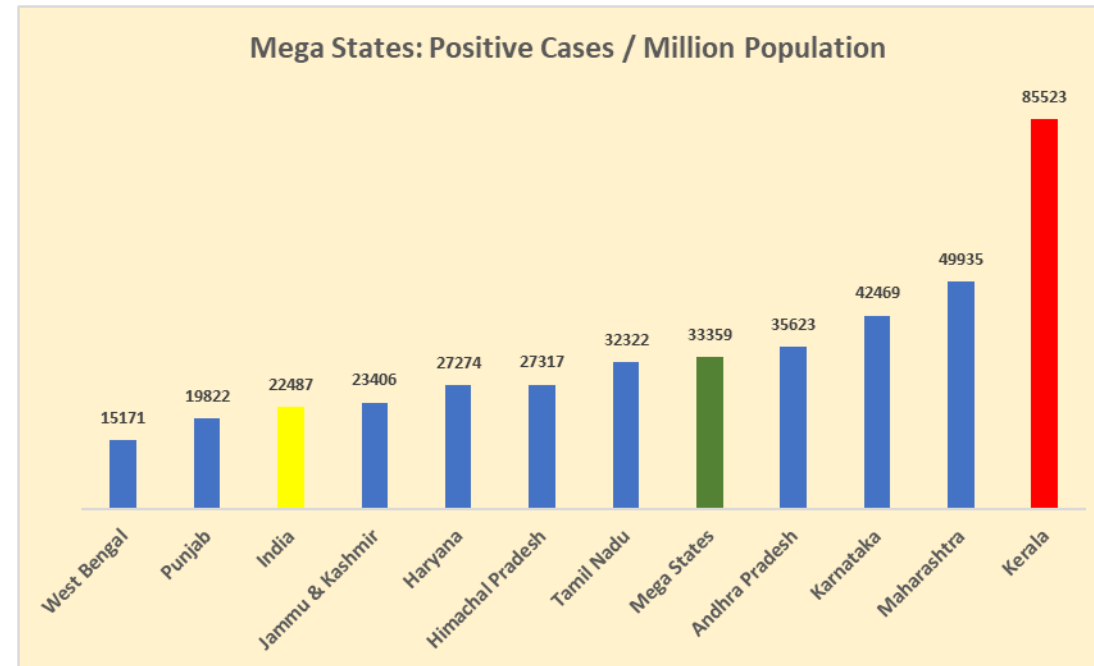
30-Day COVID Cases Growth Projection (+/- 5%)											
Zones	11-Apr	11 May (Projection)	Actuals (10 May)	%ge Actual of Projected	June 10 (Projection)	Actual (10 Jun)	%ge Actual of Projected	Projection (Jul 10)	Actual (10 July)	%ge Actual of Projected	Projection (Aug 10)
Mega States	9585959	12094000	15505145	128	20915000	20118020	96	21828000	21363256	98	22351500
EAG States	2938546	3963500	5829820	147	8295000	7108791	86	7465000	7328353	98	7489000
Micro States*	117804	121700	148467	122	198500	243946	123	501000	480693	96	590250
Union Territories	94770	115600	157010	136	231000	218805	95	239000	228930	96	234125
Delhi	725197	1000000	1336218	134	1636218	1430433	87	1438000	1435030	100	1437300
Total	13462276	17294800	22976660	133	31275718	29119995	93	31471000	30836262	98	32102175

31-Day COVID Mortality Growth Projection (+/- 5%)											
Zones	11-Apr	11-May	Actuals (10 May)	%ge Actual of Projected	June 10 (Projection)	Actual	%ge Actual of Projected	Jul 10 (Projection)	Actual (10 Jul)	%ge Actual of Projected	Aug 10 (Projection)
Mega States	126738	139250	172342	124	236700	248928	105	278250	287403	103	314095
EAG States	28841	34875	54048	155	85450	80647	94	86250	85612	99	89765
Micro States	1213	1213	1541	127	2580	3148	122	7000	7079	101	8000
Union Territories	1285	1375	1832	133	2785	2819	101	3000	2966	99	3065
Delhi	11283	12600	19663	156	27063	24748	91	25500	25012	98	25075
Total	169360	189313	249426	132	354578	360290	102	400000	408072	102	440000

* North-East + Goa

Unfortunately, India's Death toll is likely to cross 4.4 Lakh by 10 August 2021

So far, 2.2% of Indians infected with COVID are Traced and Isolated



- Kerala: 9% of population infected with COVID are traced and Isolated. 85523 People / Mn Population are infected with COVID, highest among all states in India

**Mega States: Expected to add around 1 Mn new cases, 80% of India's projected New COVID cases during
11 July – 10 August**

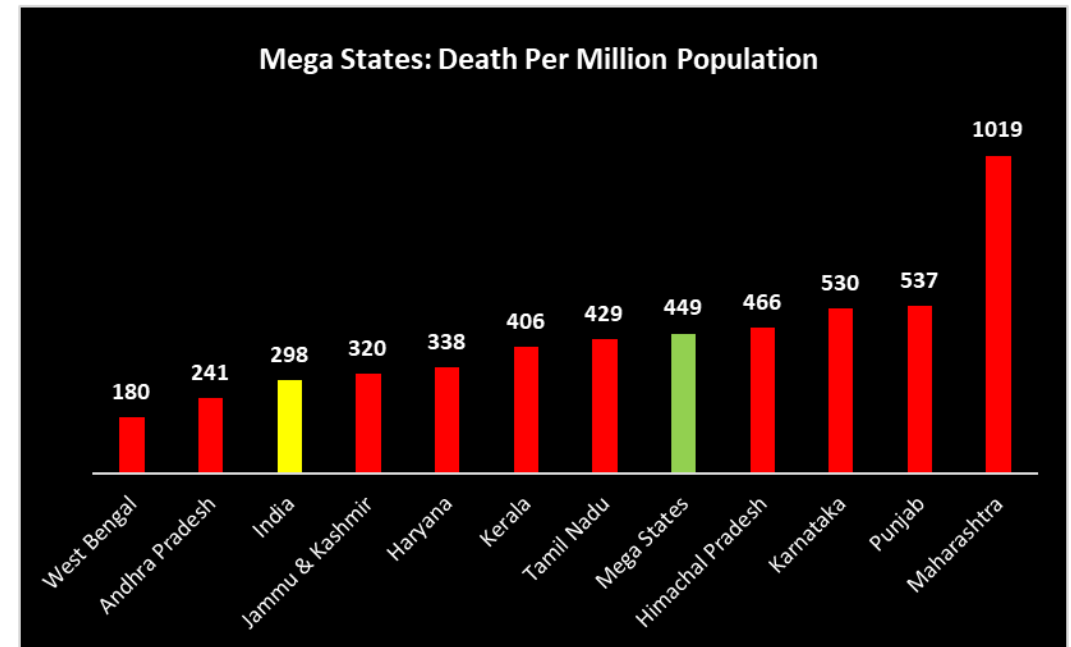
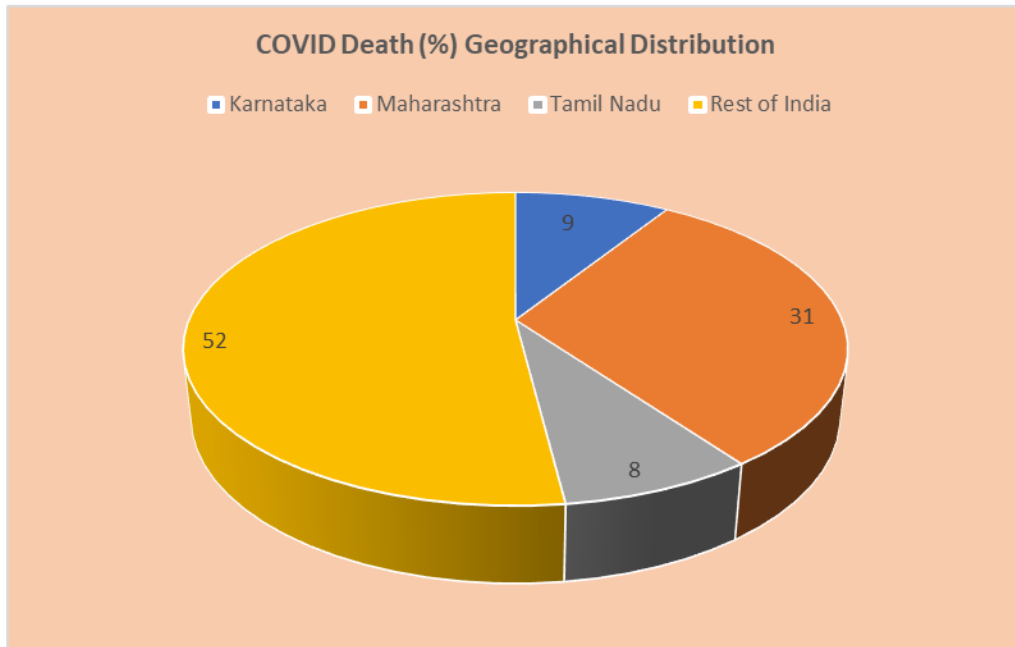
Mega States	Actual (11 April)	Projection (10 May)	Actual (10 May)	%ge Actual of Projected	Projection (10 June)	Actual (10 June)	%ge Actual of Projected	Projection (10 Jul)	Actual (10 July)	%ge Actual of Projected	Projection (10 Aug)
Andhra Pradesh	925401	1000000	1302589	130	1775000	1787883	101	2000000	1920178	96	2000000
Gujarat	347495	480000	692604	144	1000000	818895	82	830000	824200	99	826000
Haryana	316881	390000	628615	161	1000000	764633	76	780000	769243	99	770000
Himachal Pradesh	69686	84000	135782	162	250000	197438	79	210000	203563	97	208500
Jammu & Kashmir	138390	165000	224898	136	325000	304866	94	330000	318469	97	325000
Karnataka	1065290	1290000	1973683	153	3000000	2739290	91	3000000	2869320	96	2935000
Kerala	1167191	1300000	1967406	151	2600000	2688590	103	3000000	3053116	102	3530000
Maharashtra	3407245	4800000	5179929	108	6000000	5876087	98	6150000	6149264	100	6365000
Punjab	272772	360000	450674	125	700000	584785	84	618000	597469	97	602000
Tamil Nadu	933434	1100000	1409237	128	2100000	2308838	110	2675000	2516011	94	2600000
Telangana	327278	405000	506988	125	640000	598611	94	650000	631218	97	650000
West Bengal	614896	720000	1032740	143	1525000	1448104	95	1585000	1511205	95	1540000
Total	9585959	12094000	15505145	128	20915000	20118020	96	21828000	21363256	98	22351500

Kerala is expected to add additional 4.75 Lakh new COVID cases, 35-40% of India's incremental number of COVID cases

Maharashtra is expected to add additional 2.15 Lakh new COVID cases, 15-20% of India's incremental number of COVID cases

Haryana is expected to add only 750+ new COVID cases, **least** among the Mega States

~ 2/3rd of India's COVID Death has occurred in Mega States Zones



**Mega States: Expected to contribute ~75% of Incremental COVID Death in India during the period
11 July – 10 August**

Mega States	Actual (11 April)	Projection (10 May)	Actual (10 May)	%ge Actual of Projected	Projection (10 June)	Actual (10 Jun)	%ge Actual of Projected	Projection (10 Jul)	Actual (10 July)	%ge Actual of Projected	Projection (10 Aug)
Andhra Pradesh	7300	7600	8791	116	10800	11763	109	12675	12986	102	13400
Gujarat	4800	6100	8511	140	11000	9976	91	10200	10073	99	10100
Haryana	3268	3600	5766	160	10650	8861	83	9500	9542	100	9800
Himachal Pradesh	1102	1250	1925	154	3800	3344	88	3600	3474	97	3500
Jammu & Kashmir	2034	2150	2847	132	4700	4143	88	4575	4356	95	4400
Karnataka	12889	13600	19372	142	35000	32485	93	35600	35779	101	37275
Kerala	4784	5200	5959	115	8000	10631	133	15000	14489	97	18775
Maharashtra	57987	65000	77191	119	92000	103748	113	114000	125528	110	143425
Punjab	7507	8750	10704	122	17500	15367	88	16600	16177	97	16500
Tamil Nadu	12908	13450	15880	118	22300	28528	128	34500	33371	97	34700
Telangana	1759	1900	2803	148	3700	3440	93	3700	3725	101	3850
West Bengal	10400	10650	12593	118	17250	16642	96	18300	17903	98	18400
Total	126738	139250	172342	124	236700	248928	105	278250	287403	103	314125

Unfortunately, **Maharashtra** is expected to witness additional ~18K new COVID deaths, ~45% of India's incremental number of COVID deaths

Unfortunately, **Kerala and Tamil Nadu** is expected to witness additional ~4.3K and 1.3K new COVID deaths

Himachal Pradesh is expected to witness 26 deaths during the period, relatively least death toll among Mega States

**EAG States: Expected to add around 0.16 Mn new cases, 13% of India's projected New COVID cases during
11 July – 10 August**

EAG States	Actual (11 April)	Projection (10 May)	Actual (10 May)	%ge Actual of Projected	Projection (10 June)	Actual (10 Jun)	%ge Actual of Projected	Projection (10 Jul)	Actual (10 July)	%ge Actual of Projected	Projection (10 Aug)
Assam	220310	228500	298171	130	400000	450201	113	550000	532084	97	606000
Bihar	283229	375000	601650	160	850000	715730	84	730000	723147	99	726000
Chattisgarh	443297	685000	863343	126	1150000	984950	86	1010000	997785	99	1010000
Jharkhand	139384	195000	292530	150	440000	342774	78	350000	346279	99	348000
Madhya Pradesh	338145	485000	681478	141	930000	787175	85	800000	790152	99	791000
Odisha	349561	375000	544873	145	825000	842461	102	1000000	937470	94	1000000
Rajasthan	363793	480000	773194	161	1300000	948562	73	960000	953074	99	955000
Uttar Pradesh	692015	1000000	1524767	152	2000000	1701072	85	1715000	1707225	100	1710000
Uttarakhand	108812	140000	249814	178	400000	335866	84	350000	341137	97	343000
Total	2938546	3963500	5829820	147	8295000	7108791	86	7465000	7328353	98	7489000

Assam is expected to add additional 73K new COVID cases, ~ 50% of incremental number of COVID cases in EAG States

Odisha is expected to add additional 62K new COVID cases, ~40% of incremental number of COVID cases in EAG States

~1/3rd of Indian population (44.8 Crore) live in **Madhya Pradesh, Uttar Pradesh, and Bihar**. However these 3 states is expected to collectively add only ~6500 new COVID cases.

**EAG States: Unfortunately, ~ 4K additional people are expected to succumb to COVID during
11 July – 10 August**

EAG States	Actual (11 April)	Projection (10 May)	Actual (10 May)	%ge Actual of Projected	Projection (10 June)	Actual (10 Jun)	%ge Actual of Projected	Projection (11 Jul)	Actual (10 July)	%ge Actual of Projected	Projection (10 Aug)
Assam	1118	1150	1753	152	4000	3844	96	4700	4812	102	5620
Bihar	1610	1700	3357	197	5100	9452	185	10375	9618	93	9700
Chattisgarh	4899	8050	10742	133	15000	13285	89	13500	13475	100	13575
Jharkhand	1213	1675	3982	238	7300	5081	70	5150	5119	99	5150
Madhya Pradesh	4184	4750	6501	137	8850	8475	96	9050	9025	100	9100
Odisha	1979	2000	2250	113	2750	3263	119	4275	4587	107	6460
Rajasthan	2926	3150	5825	185	9800	8772	90	9100	8945	98	9875
Uttar Pradesh	9152	10550	15742	149	23000	21597	94	22700	22693	100	22925
Uttarakhand	1760	1850	3896	211	9650	6878	71	7400	7338	99	7360
Total	28841	34875	54048	155	85450	80647	94	86250	85612	99	89765

Odisha is expected to witness additional ~ 1800 COVID deaths, 45% of the total death toll projected for EAG States.

Assam and Rajasthan is expected to witness additional ~800 and 900 COVID deaths respectively

Uttarakhand is expected to add ~ 20 COVID death, relatively least among the EAG States

Share of North-East and Goa collectively is < 2% of India's COVID Cases and Death

North-East States	Actual (11 April)	Projection (10 May)	Actual (10 May)	%ge Actual of Projected	Projection (10 June)	Actual (10 Jun)	%ge Actual of Projected	Projection (10 Jun)	Actual (10 July)	%ge Actual of Projected	Projection (10 Aug)
Arunachal Pradesh	16882	17000	20575	121	25000	30492	122	37000	39563	107	56700
Manipur	29496	29700	35778	120	50000	58081	116	80000	76820	96	106300
Meghalaya	14274	15000	20129	134	35000	41100	117	58000	54155	93	68300
Mizoram	4612	5200	7623	147	10500	14743	140	26000	23551	91	41200
Nagaland	12405	12500	16283	130	21000	23350	111	28000	25898	92	29000
Sikkim	6405	7400	9924	134	13000	18090	139	25000	22163	89	27750
Tripura	33730	34900	38155	109	44000	58090	132	75000	69958	93	86000
Total	117804	121700	148467	122	198500	243946	123	329000	312108	95	415250

North-East States	Actual (11 April)	Projection (10 May)	Actual (10 May)	%ge Actual of Projected	Projection (10 June)	Actual (10 Jun)	%ge Actual of Projected	Projection (10 Jul)	Actual (10 July)	%ge Actual of Projected	Projection (10 Aug)
Arunachal Pradesh	56	56	68	121	90	133	148	200	188	94	230
Manipur	376	376	489	130	930	925	99	1050	1258	120	1480
Meghalaya	151	151	233	154	480	714	149	930	906	97	1160
Mizoram	11	11	22	200	40	61	153	100	103	103	135
Nagaland	93	93	150	161	350	441	126	520	507	98	535
Sikkim	136	136	169	124	250	281	112	300	313	104	345
Tripura	390	390	410	105	440	593	135	750	709	95	855
Total	1213	1213	1541	127	2580	3148	122	3850	3984	103	4740

Goa	Actual (11 April)	Projection (10 May)	Actual (10 May)	%ge Actual of Projected	Projection (10 June)	Actual (10 Jun)	%ge Actual of Projected	Projection (10 Jul)	Actual (10 July)	%ge Actual of Projected	Projection (10 Aug)
Goa	848	900	1729	192	3125	2891	93	3150	3095	98	3260

Micro States	Actual (11 April)	Projection (10 May)	Actual (10 May)	%ge Actual of Projected	Projection (10 June)	Actual (10 Jun)	%ge Actual of Projected	Projection (10 Jun)	Actual (10 July)	%ge Actual of Projected	Projection (10 Aug)
Goa	62304	77000	121650	158	190000	161153	85	172000	168585	98	175000

Union Territories: Expected to add ~ 5K New COVID Cases and witness additional 100 Death Toll



Union Territories	Actual (11 April)	Projection (10 May)	Actual (10 May)	%ge Actual of Projected	Projection (10 June)	Actual (10 Jun)	%ge Actual of Projected	Projection (10 Jul)	Actual (10 July)	%ge Actual of Projected	Projection (10 Aug)
Andaman & Nichobar	5190	5600	6398	114	7000	7197	103	7800	7492	96	7525
Chandigarh	30743	40000	51070	128	80000	60928	76	63000	61823	98	62250
Dadra & Nagar Haveli	4014	6000	9089	151	11000	10448	95	10700	10587	99	10700
Ladakh	10780	12000	15429	129	18000	19475	108	21000	20186	96	20750
Lakshadweep						9073	#DIV/0!	11500	10011	87	10400
Puducherry	44043	52000	75024	144	115000	111684	97	125000	118831	95	122500
Total	94770	115600	157010	136	231000	218805	95	239000	228930	96	234125

Union Territories	Actual (11 April)	Projection (10 May)	Actual (10 May)	%ge Actual of Projected	Projection (10 June)	Actual (10 Jun)	%ge Actual of Projected	Projection (10 Jul)	Actual (10 July)	%ge Actual of Projected	Projection (10 Aug)
Puducherry	691	720	1018	141	1700	1668	98	1760	1769	101	1800
Ladakh	131	131	157	120	180	197	109	220	206	94	230
Dadra & Nagar Haveli	2	2	4	200	5	4	80	6	4	67	5
Chandigarh	399	460	575	125	800	783	98	810	809	100	830
Lakshadweep						42	#DIV/0!	44	49	111	50
Andaman & Nichobar	62	62	78	126	100	125	125	160	129	81	150
Total	1285	1375	1832	133	2785	2819	101	3000	2966	99	3065

ANNEXURE: 1

COVID 19: WAVE 1: Projection and Actuals: Snapshot (August 2020 – January 2021)

COVID 19: Wave 1: Zonewise Projections and Actuals: Positivity and Mortality



30-Day COVID Cases Growth Projection																
Consolidated	16-Aug	12-Sep		%ge Actual of Projected	12-Oct		%ge Actual of Projected	12-Nov		%ge Actual of Projected	12-Dec		%ge Actual of Projected	12-Jan		%ge Actual of Projected
	Actuals	Projection	Actual		Projections	Actuals		Projections	Actuals		Projections	Actuals		Projections	Actuals	
Mega States	1852408	3245361	3279953	101	5229600	5002180	96	6503100	6025325	93	6800000	6712696	99	7235000	7155680	99
EAG States	538721	1146000	1065505	93	1765000	1681197	95	2115400	2027541	96	2315000	2306290	100	2523000	2465664	98
Micro States	32020	61400	66477	108	124700	113834	91	144100	142017	99	164100	159616	97	172600	166739	97
Union Territories	15424	34200	35722	104	59200	57342	97	72400	66713	92	76900	73308	95	78400	76841	98
Delhi	151928	185000	209748	113	330000	311188	94	400000	467028	117	675000	605470	90	660000	630892	96
Total	2590501	4671961	4657405	100	7508500	7165741	95	9235000	8728624	95	10031000	9857380	98	10669000	10495816	98

30-Day COVID Mortality Projection																
Consolidated	16-Aug	12-Sep		%ge Actual of Projected	12-Oct		%ge Actual of Projected	12-Nov		%ge og Actual of Projected	12-Dec		%ge og Actual of Projected	12-Jan		%ge og Actual of Projected
	Actuals	Projection	Actual		Projections	Actuals		Projections	Actual		Projections	Actual		Projections	Actual	
Mega States	39610	68268	61242	90	91525	85942	94	103605	98276	95	107500	106620	99	114500	112191	98
EAG States	5946	11325	10503	93	16950	16468	97	21480	20597	96	23500	23617	100	25785	25587	99
Micro States	185	345	555	161	1067	1076	101	1665	1501	90	1822	1772	97	2040	1920	94
Union Territories	170	389	539	139	1008	878	87	1110	1003	90	1128	1105	98	1275	1159	91
Delhi	4188	4700	4687	100	5500	5809	106	7000	7332	105	10300	9981	97	11500	10707	93
Total	50099	85027	77526	91	116050	110173	95	134860	128709	95	144250	143095	99	155100	151564	98

COVID 19: Wave 1: Mega States: Projections and Actuals: Positivity

Mega States	16-Aug	12-Sep		%ge Actual of Projected	12-Oct		%ge og Actual of Projected	12-Nov		%ge og Actual of Projected	12-Dec		%ge og Actual of Projected	12-Jan		%ge og Actual of Projected
	Actuals	Projectio n	Actual		Projectio n	Actual		Projectio ns	Actual		Projectio ns	Actual		Projectio ns	Actual	
Andhra Pradesh	281817	580000	547686	94	875000	758951	87	900000	849705	94	900000	875025	97	890000	885234	99
Gujarat	77663	100000	110971	111	150000	152764	102	190000	184964	97	220000	226508	103	255000	253161	99
Haryana	46410	60000	88332	147	160000	143221	90	170000	193111	114	280000	251402	90	280000	265391	95
Himachal Pradesh	3993	7000	8784	125	17000	17578	103	25000	28183	113	50000	48951	98	70000	56596	81
Jammu & Kashmir	28021	50000	50712	101	100000	84031	84	100000	100968	101	120000	115626	96	125000	122764	98
Karnataka	219926	450000	440411	98	700000	717915	103	1000000	855912	86	925000	900214	97	930000	928806	100
Kerala	42885	90000	102255	114	200000	295133	148	660000	508257	77	660000	664633	101	785000	819766	104
Maharashtra	584754	1000000	1015681	102	1750000	1535315	88	1875000	1736329	93	1850000	1876699	101	1975000	1974488	100
Punjab	30041	62000	74616	120	150000	124535	83	150000	139869	93	160000	159579	100	175000	169479	97
Tamil Nadu	332105	520000	491571	95	675000	661264	98	820000	752521	92	810000	797693	98	825000	827614	100
Telangana	91361	91361	152602	NA	152600	213084	NA	213100	254666	120	290000	277151	96	295000	290309	98
West Bengal	113432	235000	196332	84	300000	298389	99	400000	420840	105	535000	519215	97	630000	562072	89
Total	1852408	3245361	3279953	101	5229600	5002180	96	6503100	6025325	93	6800000	6712696	99	7235000	7155680	99

COVID 19: Wave 1: Mega States: Projections and Actuals: Mortality



Mega States	16-Aug	12-Sep		%ge Actual of Projected	12-Oct		%ge og Actual of Projected	12-Nov		%ge og Actual of Projected	12-Dec		%ge og Actual of Projected	12-Jan		%ge og Actual of Projected
	Actuals	Projectio n	Actual		Projectio n	Actuals		Projectio ns	Actual		Projectio ns	Actual		Projectio ns	Actual	
Andhra Pradesh	2562	6250	4779	76	7000	6256	89	7000	6837	98	7150	7052	99	7125	7133	100
Gujarat	2765	3000	3181	106	3600	3577	99	3900	3785	97	3950	4160	105	5500	4350	79
Haryana	528	700	932	133	1800	1592	88	2000	1979	99	2450	2710	111	3200	2964	93
Himachal Pradesh	18	25	70	280	175	246	141	375	405	108	650	793	122	1190	949	80
Jammu & Kashmir	527	1500	854	57	1300	1333	103	1700	1566	92	1800	1793	100	2060	1912	93
Karnataka	3832	6700	7067	105	11200	10314	92	12800	11474	90	12000	11939	99	12200	12149	100
Kerala	147	400	411	103	800	1026	128	2000	1797	90	2600	2595	100	3350	3348	100
Maharashtra	19749	31000	28724	93	44000	40514	92	48000	45682	95	49000	48139	98	50000	50151	100
Punjab	771	4000	2212	55	4800	3860	80	4800	4412	92	5200	5057	97	5800	5456	94
Tamil Nadu	5641	9000	8234	91	10500	10314	98	12200	11440	94	12150	11883	98	12200	12236	100
Telangana	693	693	950	137	950	1228	129	1230	1393	113	1550	1489	96	1525	1568	103
West Bengal	2377	5000	3828	77	5400	5682	105	7600	7506	99	9000	9010	100	10350	9975	96
Total	39610	68268	61242	90	91525	85942	94	103605	98276	95	107500	106620	99	114500	112191	98

COVID 19: Wave 1: EAG States: Projections and Actuals: Positivity & Mortality



EAG States	16-Aug	12-Sep		%ge Actual of Projected	12-Oct		%ge og Actual of Projected	12-Nov		%ge og Actual of Projected	12-Dec		%ge og Actual of Projected	12-Jan		%ge og Actual of Projected
	Actuals	Projectio n	Actual		Projectio n	Actuals		Projectio ns	Actual		Projectio ns	Actual		Projectio ns	Actual	
Assam	75559	165000	138339	84	215000	195304	NA	195400	209835	107	215000	214584	100	220000	216690	98
Bihar	101906	225000	155445	69	200000	197000	99	230000	225500	98	245000	242748	99	260000	257335	99
Chattisgarh	15045	25000	58643	235	145000	145247	100	225000	207740	92	265000	255761	97	300000	290813	97
Jharkhand	22672	50000	59040	118	110000	93035	85	115000	105493	92	112000	111366	99	115000	117088	102
Madhya Pradesh	44433	75000	83619	111	145000	148298	102	200000	180997	90	210000	222397	106	250000	249553	100
Odisha	57126	120000	143117	119	250000	254662	102	335000	305986	91	335000	323364	97	333000	332331	100
Rajasthan	59979	100000	99036	99	150000	161184	107	225000	219327	97	285000	289999	102	325000	313718	97
Uttar Pradesh	150061	365000	299045	82	500000	439161	88	520000	505424	97	565000	564132	100	610000	594175	97
Uttarakhand	11940	21000	29221	139	50000	47306	95	70000	67239	96	83000	81939	99	110000	93961	85
Total	538721	1146000	1065505	93	1765000	1681197	95	2115400	2027541	96	2315000	2306290	100	2523000	2465664	98

EAG States	16-Aug	12-Sep		%ge Actual of Projected	12-Oct		%ge og Actual of Projected	12-Nov		%ge og Actual of Projected	12-Dec		%ge og Actual of Projected	12-Jan		%ge og Actual of Projected
	Actuals	Projecti on	Actual		Projecti on	Actuals		Projecti ons	Actual		Projecti ons	Actual		Projecti ons	Actual	
Assam	182	400	430	108	900	826	NA	830	958	115	1050	1000	95	1030	1064	103
Bihar	515	1100	797	72	1100	955	87	1100	1167	106	1350	1317	98	1440	1443	100
Chattisgarh	134	525	518	99	1600	1286	80	2350	2527	108	3100	3084	99	3500	3517	100
Jharkhand	229	500	532	106	900	798	89	1000	917	92	1000	995	100	1030	1048	102
Madhya Pradesh	1094	1500	1691	113	2500	2645	106	3600	3065	85	3350	3391	101	3630	3726	103
Odisha	386	800	658	82	1000	1093	109	1500	1536	102	2000	1855	93	1975	1947	99
Rajasthan	862	1200	1207	101	1650	1665	101	2150	2032	95	2400	2568	107	2930	2739	93
Uttar Pradesh	2393	5000	4282	86	6600	6438	98	7700	7302	95	8000	8056	101	8650	8514	98
Uttarakhand	151	300	388	129	700	762	109	1250	1093	87	1250	1351	108	1600	1589	99
Total	5946	11325	10503	93	16950	16468	97	21480	20597	96	23500	23617	100	25785	25587	99

COVID 19: Wave 1: Micro States: Projections and Actuals: Positivity & Mortality

Micro States	16-Aug Actuals	12-Sep		%ge Actual of Projected	12-Oct		%ge og Actual of Projected	12-Nov		%ge og Actual of Projected	12-Dec		%ge og Actual of Projected	12-Dec		%ge og Actual of Projected
		Projectio n	Actual		Projectio n	Actual		Projectio ns	Actual		Projectio ns	Actual		Projectio ns	Actual	
Arunachal Pradesh	2658	4500	5825	129	11000	12367	112	19000	15701	83	17700	16504	93	16900	16782	99
Goa	11339	23500	23445	100	45000	38674	86	51000	45605	89	50000	49305	99	51500	51983	101
Manipur	4390	7500	7579	101	11000	13556	123	20000	21211	106	29000	27036	93	31500	28725	91
Meghalaya	1292	2250	3447	153	6000	7771	130	12400	10512	85	13300	12743	96	15000	13651	91
Mizoram	777	1600	1379	86	3700	2184	59	2600	3242	125	4300	4024	94	4200	4299	102
Nagaland	3340	7000	4946	71	10000	7240	72	9500	9615	101	10300	11676	113	14000	11997	86
Sikkim	1148	2000	2026	101	3000	3367	112	4600	4369	95	5500	5316	97	6000	5996	100
Tripura	7076	12200	17830	146	35000	28675	82	25000	31762	127	34000	33012	97	33500	33306	99
Total	32020	60550	66477	110	124700	113834	91	144100	142017	99	164100	159616	97	172600	166739	97

Micro States	16-Aug Actuals	12-Sep		%ge Actual of Projected	12-Oct		%ge og Actual of Projected	12-Nov		%ge og Actual of Projected	12-Dec		%ge og Actual of Projected	12-Jan		%ge og Actual of Projected
		Projectio n	Actual		Projectio n	Actual		Projectio ns	Actual		Projectio ns	Actual		Projectio ns	Actual	
Goa	98	240	276	115	525	511	97	750	656	87	800	705	88	730	749	103
Tripura	55	60	182	303	375	314	84	400	356	89	400	372	93	400	385	96
Manipur	13	20	44	220	100	93	93	150	207	138	300	322	107	415	365	88
Nagaland	7	9	8	89	10	13	130	40	50	125	60	68	113	100	84	84
Arunachal Pradesh	5	7	10	143	12	24	200	85	47	55	60	55	92	80	56	70
Meghalaya	6	7	24	343	30	64	213	90	98	109	100	125	125	155	143	92
Sikkim	1	1	11	1100	15	57	380	150	85	57	100	118	118	150	129	86
Mizoram	0	1	0	0	0	0	0	0	2	#DIV/0!	2	7	350	10	9	90
Total	185	345	555	161	1067	1076	101	1665	1501	90	1822	1772	97	2040	1920	94

COVID 19: Wave 1: Union Territories: Projections and Actuals: Positivity & Mortality



Union Territories	16-Aug	12-Sep		%ge Actual of Projected	12-Oct		%ge og Actual of Projected	12-Nov		%ge og Actual of Projected	12-Dec		%ge og Actual of Projected	12-Jan		%ge og Actual of Projected
	Actuals	Projectio n	Actual		Projectio n	Actual		Projectio ns	Actual		Projectio ns	Actual		Projectio ns	Actual	
Andaman & Nichobar	2306	6500	3494	54	4500	4023	89	4400	4507	102	5000	4805	96	5000	4966	99
Chandigarh	2009	3500	7292	208	17000	13264	78	15500	15543	100	18500	18572	100	20000	20378	102
Dadra & Nagar Haveli	1846	3200	2682	84	3500	3167	90	3500	3273	94	4400	3349	76	5400	3368	62
Ladakh	1909	3000	3228	108	4200	5151	123	7000	7211	103	10000	9138	91	10000	9634	96
Puducherry	7354	18000	19026	106	30000	31737	106	42000	36179	86	39000	37444	96	38000	38495	101
Total	15424	34200	35722	104	59200	57342	97	72400	66713	92	76900	73308	95	78400	76841	98

Union Territories	16-Aug	12-Sep		%ge Actual of Projected	12-Oct		%ge Actual of Projected	12-Nov		%ge Actual of Projected	12-Dec		%ge Actual of Projected	12-Jan		%ge Actual of Projected
	Actuals	Projectio n	Actual		Projectio n	Actual		Projectio ns	Actual		Projectio ns	Actual		Projectio ns	Actual	
Puducherry	106	270	365	135	750	565	75	650	607	93	650	619	95	650	639	98
Ladakh	10	15	38	253	45	64	142	90	89	99	100	123	123	150	128	85
Dadra & Nagar Haveli	2	4	2	50	3	2	67	30	2	7	3	2	67	25	2	8
Chandigarh	28	50	83	166	150	192	128	250	244	98	300	300	100	360	328	91
Andaman & Nichobar	24	50	51	102	60	55	92	90	61	68	75	61	81	90	62	69
Total	170	389	539	139	1008	878	87	1110	1003	90	1128	1105	98	1275	1159	91

Data source and disclaimer

1. The data collated and analysed based on secondary data. The primary sources are:
<https://www.mohfw.gov.in/> <https://www.covid19india.org/> www.google.com; www.wikipedia.org;
<https://www.worldometers.info/coronavirus/#countries> / <https://coronavirus.jhu.edu/>
2. The user of this presentation is advised to revalidate the shared data from authorised public Institutions and make appropriate interpretation and inferences and accordingly draw conclusion

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Thank you