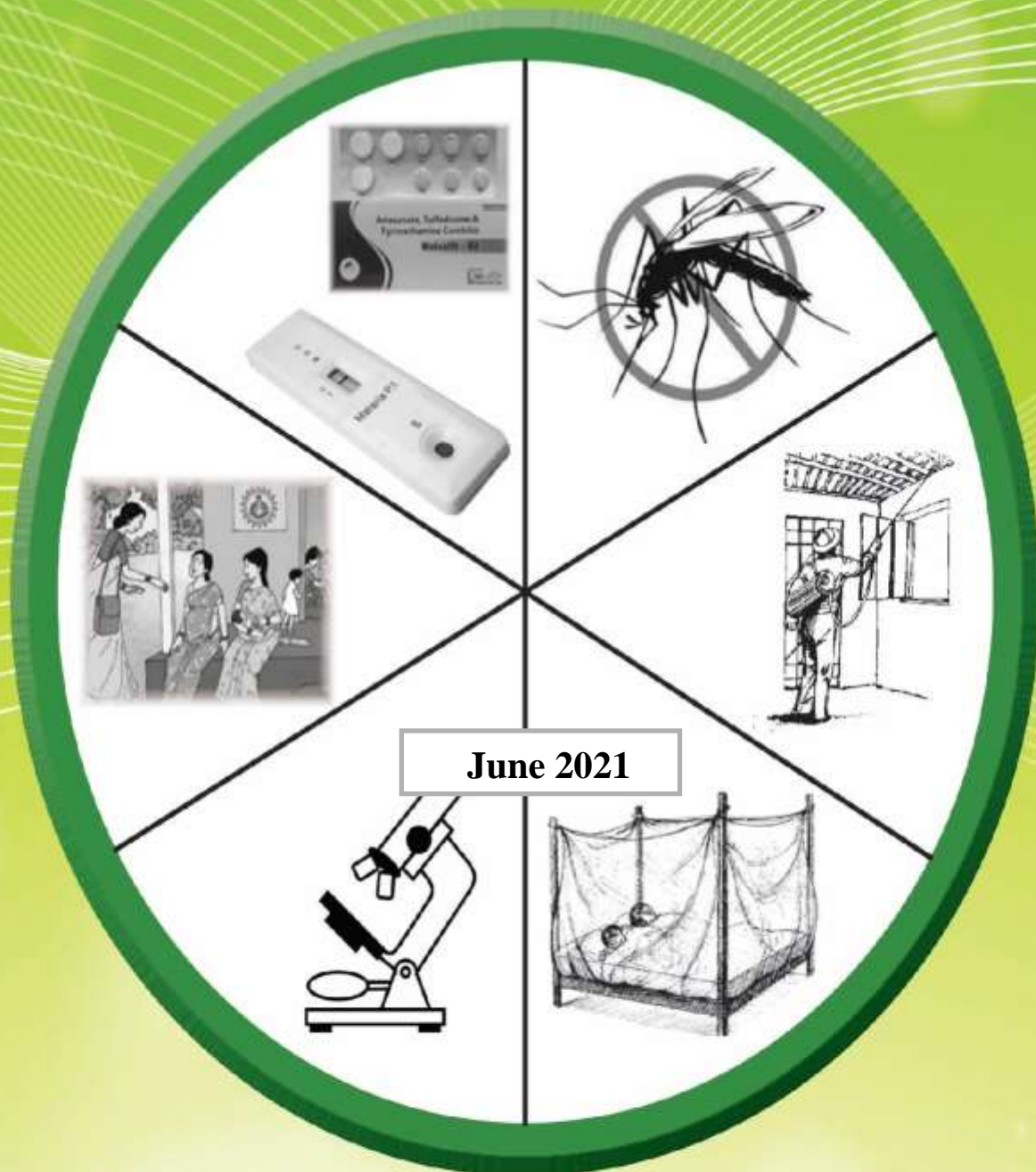




Monthly Malaria Situation of Category - 1 States/UTs



June 2021

**Monitoring and Evaluation Division
National Vector Borne Disease Control Programme
Dte. GHS, MOHFW, Govt. of India, New Delhi**

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Situational Analysis, Trends and Action Points

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INTRODUCTION & SUMMARY SHEET

The surveillance information of Malaria of June 2021 in Category-1 states is enclosed in this Monthly Malaria Situation Information Report. The various indicators analyzed in this report are BSE, TPC, TPR and PF.

GRAPH 1: MONTH WISE TREND OF BSE IN CATEGORY- 1 STATES



There is an increase of BSE by 4.2% upto June 2021 as compared to last three years average cumulative. There is also an increase of BSE by 46.9% upto June 2021 vis-à-vis upto June 2020.

GRAPH 2: MONTH WISE TREND OF TPC IN CATEGORY- 1 STATES



There is a 76.4% decline in TPC upto June 2021 as compared to last three years average cumulative. There is a 33.1% decrease in TPC upto June 2021 vis-à-vis upto June 2020.

GRAPH 3: MONTH WISE TREND OF TPR IN CATEGORY- 1 STATES



The TPR was 0 Upto June 2021 as compared to 0.02 for last three years average and 0.01 upto June 2020.

GRAPH 4: MONTH WISE TREND OF PF IN CATEGORY- 1 STATES



There is a decline of PF by 36.8% upto June 2021 as compared to last three years average. There is a similar decline of PF by 22.9% upto June 2021 vis-à-vis Upto June 2020.

List of Districts showing a decrease in Surveillance in the Category 1 States:

Category 1 States:

	States/UTs	Districts showing a decrease in Surveillance
1	Chandigarh	Chandigarh
2	Daman & Diu	Diu
3	Delhi	Delhi
4	Goa	North Goa, South Goa
5	Haryana	Ambala, Bhiwani, Charkhi Dadri, Faridabad, Hisar, Jhajjar, Jind, Narnaul(Mahendergarh), Panchkula
6	Himachal Pradesh	Bilaaspur, Chamba, Hameerpur, Kangra, Kullu, Mandi, Shimla, Sirmour, Solan, Una
7	Jammu & Kashmir	Doda,Jammu, Kishtwar, UMCP Jammu
8	Kerala	Alappuzha, Ernakulam, Kasargode, Kollam, Kottayam, Kozhikode, Malappuram, Palakkad, Pathanamthitta, Thrissur, Triruvananthapuram(Trivandrum), Wayanad
9	Lakhshadweep	Lakhshadweep
10	Manipur	Bishnupur, Chandel, Churachandpur, Imphal East, Imphal Urban, Imphal West, Jiribam S/D, Kakcing (Thoubal), Kamgong (Ukhrul), Kangpokpi S/D, Moreh (Tengnopal),Noney, Pherzawl (Churachandpur), Senapati,Tamenglong,Thoubal, Ukhrul
11	Puducherry	Karaikal, Mahe, Malaria Clinic+FTDs, Puducherry, Yanam
12	Punjab	Amritsar, Bathinda, Faridkot, Ferozepur, Gurdaspur, Hoshiarpur, Jalandhar, Ludhiana, Mansa, Mohali (Sahibzada Ajit Singh Nagar), Pathankot, Roper (Rup Nagar), Sangrur
13	Rajasthan	Ajmer, Alwar, Baran, Pratapgad, Udaipur
14	Sikkim	East Sikkim, South Sikkim, West Sikkim, North Sikkim
15	Uttarakhand	Almora, Bageshwar, Chamoli, Pauri, Tehri Gardwar, Udham Singh Nagar,Uttar Kashi

Action points for all Category 1 States/UTs:

- States/UTs need to perform data analysis at sub district level to identify hotspots and implement focal strategies.
- States/UTs need to focus on surveillance of migratory workers.
- States /UTs need to conduct private sector mapping and ensure 100% reporting.
- States /UTs need to conduct regular meetings of district and state task force for Malaria Elimination.
- State /UTs need to share the detailed case reports regarding any COVID19-Malaria co-infections reported in the state.
- State /UT needs preparedness and response of outbreak.
- States /UTs need to ensure that all malaria cases are investigated by the competent authority.
- Vector control measures by identifying potential vector breeding sites, environmental management, biological control and focus based adult vector intervention.

2) CHANDIGARH

GRAPH 1: MONTH WISE TREND OF BSE IN CHANDIGARH



There is 55.4% decline in BSE upto June 2021 as compared to last three years average. There is a decline of BSE by 24.8% upto June 2021 vis-à-vis Upto June 2020.

GRAPH 2: MONTH WISE TREND OF TPC IN CHANDIGARH



There are 3 cases reported Upto June 2021.

GRAPH 3: MONTH WISE TREND OF TPR IN CHANDIGARH



The TPR was 0.03 - Upto June 2021 and last three years average.

MONTH WISE TREND OF PF IN CHANDIGARH

No Pf case was reported during June 2021 and June 2020.

3) DAMAN & DIU

GRAPH 1: MONTH WISE TREND OF BSE IN DAMAN & DIU



There is 50.5% increase in BSE upto June 2021 as compared to last three years average. There is an increase of 71.4% in BSE upto June 2021 vis-à-vis Upto June 2020.

GRAPH 2: MONTH WISE TREND OF TPC IN DAMAN & DIU



There is a 45.5% decline in TPC upto June 2021 as compared to last three years average cumulative. There is a 33.3% decline in TPC upto June 2021 vis-à-vis upto June 2020.

GRAPH 3: MONTH WISE TREND OF TPR IN DAMAN & DIU



The TPR was 0.01 Upto June 2021 as compared to 0.03 for last three years average and 0.02 upto June 2020.

MONTH WISE TREND OF PF IN DAMAN & DIU



No Pf case was reported upto June 2021 & 2020.

4) GOA

GRAPH 1: MONTH WISE TREND OF BSE IN GOA



There is 48.6% decline in BSE upto June 2021 as compared to last three years average. There is a decline of BSE by 32.5% upto June 2021 vis-à-vis Upto June 2020.

GRAPH 2: MONTH WISE TREND OF TPC IN GOA



There is a 42.9% decline in TPC upto June 2021 as compared to last three years average cumulative. There is a 2.4% decline in TPC upto June 2021 vis-à-vis upto June 2020.

GRAPH 3: MONTH WISE TREND OF TPR IN GOA



The TPR was 0.06 Upto June 2021 as compared to 0.05 for last three years average and 0.04 upto June 2020

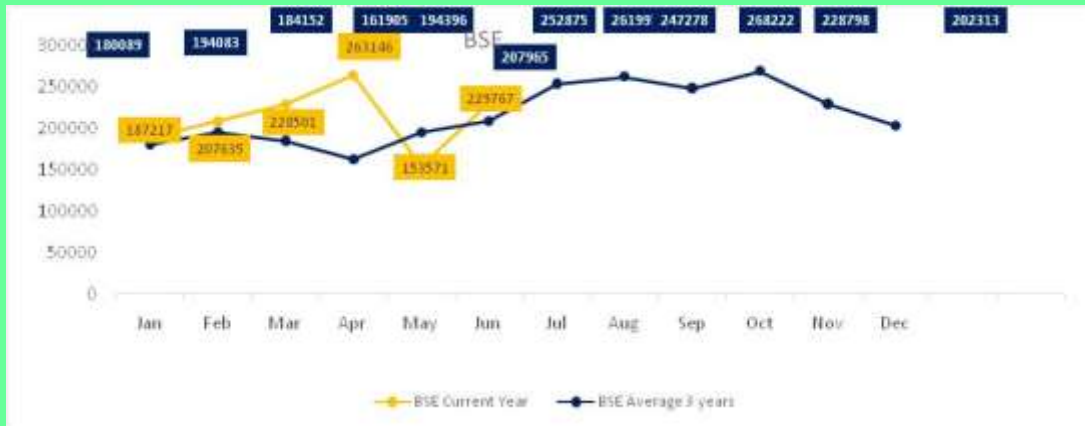
GRAPH 4: MONTH WISE TREND OF PF IN GOA



There is a 9.8 increase in Pf cases upto June 2021 as compared to last three years average. As compared to Upto June 2020, cases have increased 87.5.

5) HARYANA

GRAPH 1: MONTH WISE TREND OF BSE IN HARYANA



There is 13.1% increase in BSE upto June 2021 as compared to last three years average. There is a increase of BSE by 25.6% upto June 2021 vis-à-vis Upto June 2020.

GRAPH 2: MONTH WISE TREND OF TPC IN HARYANA



There is a 97.2% decline in TPC upto June 2021 as compared to last three years average cumulative. There is a 73.3% decrease in TPC upto June 2021 vis-à-vis upto June 2020.

GRAPH 3: MONTH WISE TREND OF TPR IN HARYANA



The TPR was 0 Upto June 2021.

GRAPH 4: MONTH WISE TREND OF PF IN HARYANA



There is a decline of PF by 100% during June 2021 as compared to last three years average.

6) HIMACHAL PRADESH

GRAPH 1: MONTH WISE TREND OF BSE IN HIMACHAL PRADESH



There is 54.7% decline in BSE upto June 2021 as compared to last three years average. There is a decline of BSE by 32.8% upto June 2021 vis-à-vis Upto June 2020.

GRAPH 2: MONTH WISE TREND OF TPC IN HIMACHAL PRADESH



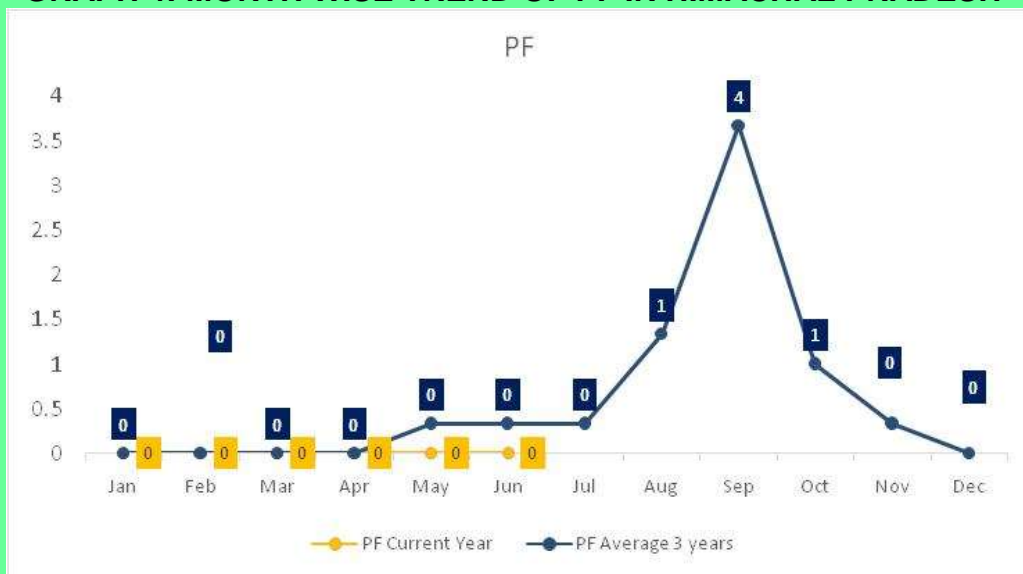
There is a 95.0% decline in TPC upto June 2021 as compared to last three years average cumulative. There is a 87.5% decrease in TPC upto June 2021 vis-à-vis upto June 2020

GRAPH 3: MONTH WISE TREND OF TPR IN HIMACHAL PRADESH



The TPR was 0 Upto June 2021.

GRAPH 4: MONTH WISE TREND OF PF IN HIMACHAL PRADESH



No PF case was detected upto June 2021& 2020.

7) JAMMU & KASHMIR

GRAPH 1: MONTH WISE TREND OF BSE IN JAMMU & KASHMIR



There is 11.4% decline in BSE upto June 2021 as compared to last three years average. There is a increase of BSE by 12.3% upto June 2021 vis-à-vis Upto June 2020.

GRAPH 2: MONTH WISE TREND OF TPC IN JAMMU & KASHMIR



There is a 69.4% decline in TPC upto June 2021 as compared to last three years average cumulative. There is a 37.5% decrease in TPC upto June 2021 vis-à-vis upto June 2020.

GRAPH 3: MONTH WISE TREND OF TPR IN JAMMU & KASHMIR



The TPR was 0 Upto June 2021 as compared to 0.01 for last three years average and 0.01 upto June 2020.

GRAPH 4: MONTH WISE TREND OF PF IN JAMMU & KASHMIR

No PF case was detected upto June 2021.

8) KERALA

GRAPH 1: MONTH WISE TREND OF BSE IN KERALA



There is 39.4% decline in BSE upto June 2021 as compared to last three years average. There is a decline of BSE by 11.6% upto June 2021 vis-à-vis Upto June 2020.

GRAPH 2: MONTH WISE TREND OF TPC IN KERALA



There is a 62.6% decline in TPC upto June 2021 as compared to last three years average cumulative. There is a 25.8% decrease in TPC upto June 2021 vis-à-vis upto June 2020.

GRAPH 3: MONTH WISE TREND OF TPR IN KERALA



The TPR was 0.01 Upto June 2021 as compared to 0.02 for last three years average and 0.02 upto June 2020.

GRAPH 4: MONTH WISE TREND OF PF IN KERALA



There is a decline of PF by 50.8% upto June 2021 as compared to last three years average. There is a similar decline of PF by 11.4% Upto June 2021 vis-à-vis Upto June 2020.

9) LAKSHADWEEP

GRAPH 1: MONTH WISE TREND OF BSE IN LAKSHADWEEP



There is 10.9% increase in BSE upto June 2021 as compared to last three years average. There is a decline of BSE by 3.5% upto June 2021 vis-à-vis Upto June 2020.

GRAPH 2: MONTH WISE TREND OF TPC IN LAKSHADWEEP



No Malaria case was reported Upto June 2021. 5 cases were reported in the corresponding period in 2020.

GRAPH 3: MONTH WISE TREND OF TPR IN LAKSHADWEEP



The TPR was 0 Upto June 2021

MONTH WISE TREND OF PF IN LAKSHADWEEP

No Pf case has been reported upto June 2021 and 2020.

10) MANIPUR

GRAPH 1: MONTH WISE TREND OF BSE IN MANIPUR



There is 77.8% decline in BSE upto June 2021 as compared to last three years average. There is a decline of BSE by 79.6% upto June 2021 vis-à-vis Upto June 2020.

GRAPH 2: MONTH WISE TREND OF TPC IN MANIPUR



There is a 37.9% decline in TPC upto June 2021 as compared to last three years average cumulative. There is a 66.7% decrease in TPC upto June 2021 vis-à-vis upto June 2020.

GRAPH 3: MONTH WISE TREND OF TPR IN MANIPUR



The TPR was 0.04 Upto June 2021 as compared to 0.02 for last three years average and 0.03 upto June 2020

GRAPH 4: MONTH WISE TREND OF PF IN MANIPUR

4 cases have been reported upto June 2021 and 11 cases have been reported upto June 2020.

11) PUDUCHERRY

GRAPH 1: MONTH WISE TREND OF BSE IN PUDUCHERRY



There is 91.2% decline in BSE upto June 2021 as compared to last three years average. There is a decline of BSE by 83.0% upto June 2021 vis-à-vis Upto June 2020.

GRAPH 2: MONTH WISE TREND OF TPC IN PUDUCHERRY



There is a 91.9% decline in TPC upto June 2021 as compared to last three years average cumulative. There is a 90.0% decrease in TPC upto June 2021 vis-à-vis upto June 2020.

GRAPH 3: MONTH WISE TREND OF TPR IN PUDUCHERRY



The TPR was 0.02 Upto June 2021 as compared to 0.03 for last three years average and 0.04 upto June 2020.

GRAPH 4: MONTH WISE TREND OF PF IN PUDUCHERRY

No Pf case has been reported upto June 2021 and 2020.

12) PUNJAB

GRAPH 1: MONTH WISE TREND OF BSE IN PUNJAB



There is 33.5% decline in BSE upto June 2021 as compared to last three years average. There is a decline of BSE by 8.0% upto June 2021 vis-à-vis Upto June 2020.

GRAPH 2: MONTH WISE TREND OF TPC IN PUNJAB



There is a 85.0% decline in TPC upto June 2021 as compared to last three years average cumulative. There is a 51.2% decrease in TPC upto June 2021 vis-à-vis upto June 2020.

GRAPH 3: MONTH WISE TREND OF TPR IN PUNJAB



The TPR was 0 Upto June 2021.

GRAPH 4: MONTH WISE TREND OF PF IN PUNJAB



6 cases have been reported upto June 2021 and 2 cases have been reported upto June 2020.

13) RAJASTHAN

GRAPH 1: MONTH WISE TREND OF BSE IN RAJASTHAN



There is 77.9% increase in BSE upto June 2021 as compared to last three years average. There is a 212.4% increase in BSE upto June 2021 vis-à-vis Upto June 2020.

GRAPH 2: MONTH WISE TREND OF TPC IN RAJASTHAN



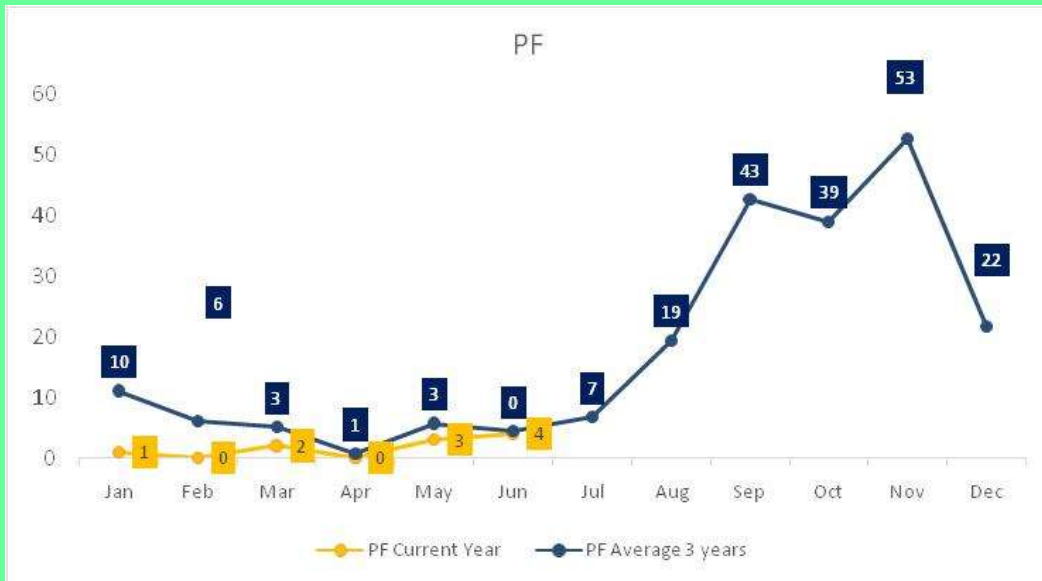
There is a 67.8% decline in TPC upto June 2021 as compared to last three years average cumulative. There is a 8.1% increase in TPC upto June 2021 vis-à-vis upto June 2020.

GRAPH 3: MONTH WISE TREND OF TPR IN RAJASTHAN



The TPR was 0 Upto June 2021 as compared to 0.02 for last three years average and 0.01 upto June 2020.

GRAPH 4: MONTH WISE TREND OF PF IN RAJASTHAN



There is a decline of PF by 55.9% upto June 2021 as compared to last three years average. There is a similar decline of PF by 69.7% Upto June 2021 vis-à-vis upto June 2020.

14) SIKKIM

GRAPH 1: MONTH WISE TREND OF BSE IN SIKKIM



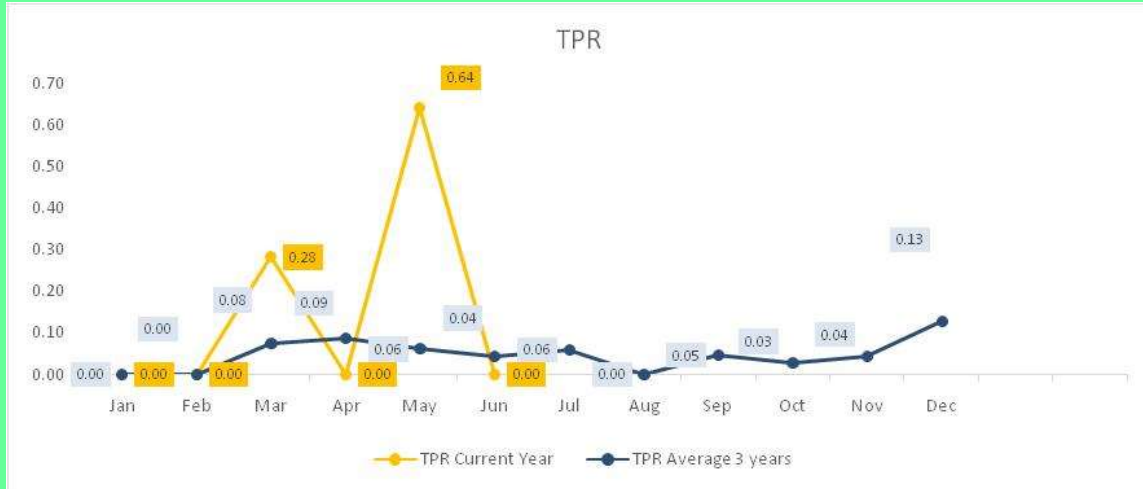
There is 60.3% decline in BSE upto June 2021 as compared to last three years average. There is a decline of BSE by 43.9% upto June 2021 vis-à-vis Upto June 2020.

GRAPH 2: MONTH WISE TREND OF TPC IN SIKKIM



2 cases were reported Upto June 2021 and 3 cases were reported upto June 2020.

GRAPH 3: MONTH WISE TREND OF TPR IN SIKKIM



The TPR was 0.12 Upto June 2021 as compared to 0.04 in last three years average and 0.10 Upto June 2020.

MONTH WISE TREND OF PF IN SIKKIM

No Pf case has been reported upto June 2021 and 2020.

15) UTTARAKHAND

GRAPH 1: MONTH WISE TREND OF BSE IN UTTARAKHAND



There is 20.8% decline in BSE upto June 2021 as compared to last three years average. There is a increase of BSE by 16.6% upto June 2021 vis-à-vis Upto June 2020.

GRAPH 2: MONTH WISE TREND OF TPC IN UTTARAKHAND



No case was reported upto June 2021 as compared to 57 cases reported In last 3 years average.

GRAPH 3: MONTH WISE TREND OF TPR IN UTTARAKHAND



The TPR was 0 Upto June 2021 as compared to 0.05 for last three years average and 0.01 upto June 2020.

GRAPH 4: MONTH WISE TREND OF PF IN UTTARAKHAND



No Pf case has been reported upto June 2021 and 2020.

16) DELHI

GRAPH 1: MONTH WISE TREND OF BSE IN DELHI



There is 47.2% decline in BSE upto June 2021 as compared to last three years average. There is a decline of BSE by 19.0% upto June 2021 vis-à-vis Upto June 2020.

GRAPH 2: MONTH WISE TREND OF TPC IN DELHI



There is a 55.6% decline in TPC upto June 2021 as compared to last three years average cumulative. There is a 66.7% decrease in TPC upto June 2021 vis-à-vis upto June 2020.

GRAPH 3: MONTH WISE TREND OF TPR IN DELHI



The TPR was 0.07 Upto June 2021 as compared to 0.09 for last three years average.

GRAPH 4: MONTH WISE TREND OF PF IN DELHI



4 Pf cases were reported Upto June 2021 as compared to 2 case reported during last three years' average and Upto June 2020

MALARIA EPIDEMIOLOGICAL INDICATORS

S. N	Area	Indicator
1.	Surveillance/ case finding	No of Fever cases ,No of Malaria cases,No of Pf cases
2	Surveillance/ case finding	Monthly/ Blood Smear Examination Rate (ABER) (should be more than 1%of population)
3	Surveillance/ case finding	Annual Blood Smear Examination Rate (ABER) (should be more than 10%of population)
4	Disease burden & impact	Annual Parasite Incidence (API)
5	Disease burden & impact	Annual Falciparum Incidence (AFI)
6	Disease burden & impact	Slide Positivity rate (SPR):Is independent of surveillance activity, therefore a better indicator for impact assessment
7	Disease burden & impact	Slide falciparum Rate (SFR):It is independent of surveillance and indicates Pf preponderance
8	Disease burden & impact	Pf Percentage (Pf %):Indicates trends in proportion of cases due to Pf out of total cases
	Input	% of Additional Staff in Place (MTS, LT, DVBD Consultant)
9	Input	Nos of RDTs & ACTs Planned versus Received & used
10	Input	% of spray Equipment in working condition
11	Input	% of Spray workers trained
	Process	BCC Activities
12	Process	% of facilities (SC and PHC) / village level functionaries (ASHA, AWW) reporting stock-out of antimalarials lasting more than 15 days during the quarter
13	Process	% of MPH/ASHA/other volunteers trained for use of RDT / ACT
14	Process	% of Diagnostic facilities functional with microscopy/RDT in the last reporting period
15	Output	Nets treated once/twice in a year
16	Output	% of Eligible Villages Covered by ITN,Should be 80% or more
17	Output	Insecticide use
18	Outcome	IRS Coverage – Population (%)Should be 80% or more
19	Outcome	IRS Coverage – Rooms %
20	Outcome	% of fever cases who were tested for malaria by microscopy/ RDT with a positive test result for RDT and were started on treatment no later than the next day with ACT
21	Outcome	% of house holds in which beneficiaries reported having slept under ITNs/ LLINs previous night
22	Outcome	% of PHC sampled in which utilization of ITNs/ LLINs was more than 80%