Ministry of Health and Family Welfare
Government of India

Azadi Ka Amrit Mahotsav

User Manual for Web Portal for Sentinel Surveillance
on
Air Pollution Related Illnesses
under
The National Programme on Climate Change and Human Health
on
Integrated Health Information Platform

NOADS Dashboard

User Manual

National Programme on Climate Change and Human Health

National Health Mission

National Centre for Disease Control
Government of India

National Programme
on Climate Change
and Human Health

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National Programme on Climate Change and Human Health

PURPOSE OF THE DOCUMENT

This document proposes the use of the web dashboard that links with the NOADS user manual in the supplement 1. It helps in understanding the outlook and operations inside the web dashboard of the NOADS app.

The web dashboard is a link between the application and the surveillance stakeholders at different levels. The dashboard is a tool to collect, monitor and in future evaluate the surveillance system.

The purpose of this document is to facilitate the stakeholders, i.e., the district nodal officers, state nodal officers, programme officials involved in the NOADS surveillance to seamlessly use the dashboard for monitoring the surveillance data to the next level.

WHO CAN USE THE DASHBOARD?

At present, use of this dashboard will be at various stakeholders' level-

National level

- Programme officials
- Stakeholders in the Ministry of Health and Family Welfare

State level

- State programme officials
- MD-NHM
- Stakeholders in the State Health Department
- Members of State Environmental Health Cell

District level

- District Programme officials
- Members of District Environmental Health Cell

The users will be provided access to use the dashboard. We plan to make the data available until the sentinel hospital level in the future.

HOW TO ACCESS DASHBOARD OF THE NOADS WEB APPLICATION?

HARDWARE AND SOFTWARE REQUIREMENTS

- Hardware
  - Desktop/Laptop/ Android Tablet
- Software
  - Browser can be latest version of Chrome/IE/Mozilla Firefox/Safari
- Internet Connectivity

PORTAL URL TO ACCESS THE DASHBOARD

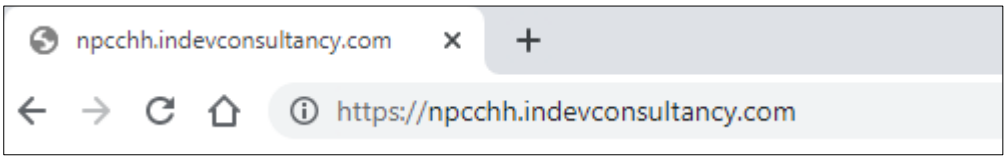
The website may be opened by clicking on the following URL:
http://npcchh.indevconsultancy.com

STEPS TO ACCESS THE WEB PORTAL

Step-1: Open the browser (Chrome/ IE/ Mozilla Firefox/ Safari)

Step-2: Copy the URL (http://npcchh.indevconsultancy.com)

Step-3: Paste the link to browser address bar

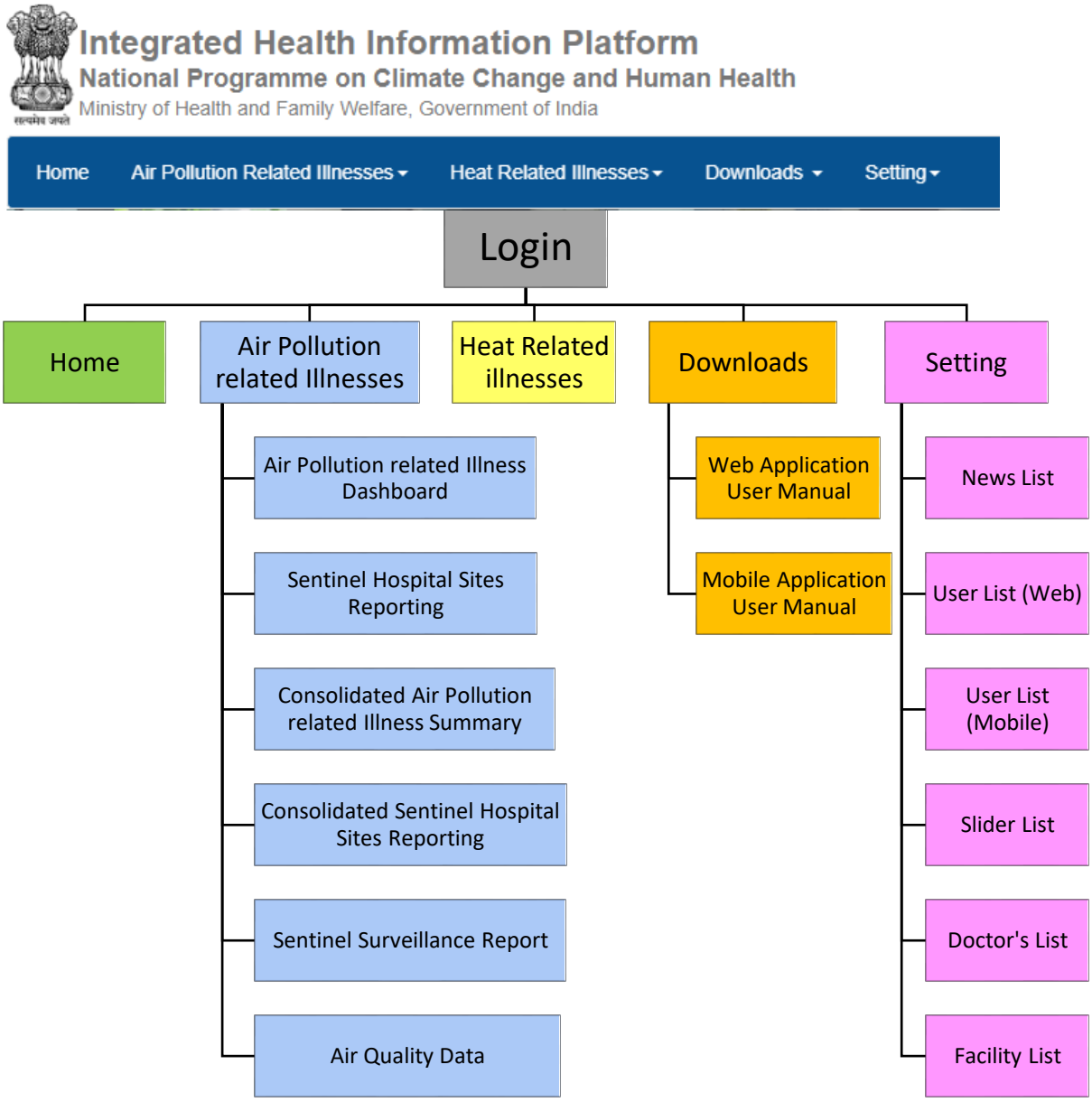


Follow the instruction given in the upcoming sections

PROCEDURE TO USE THIS MANUAL ON DASHBOARD FOR SURVEILLANCE

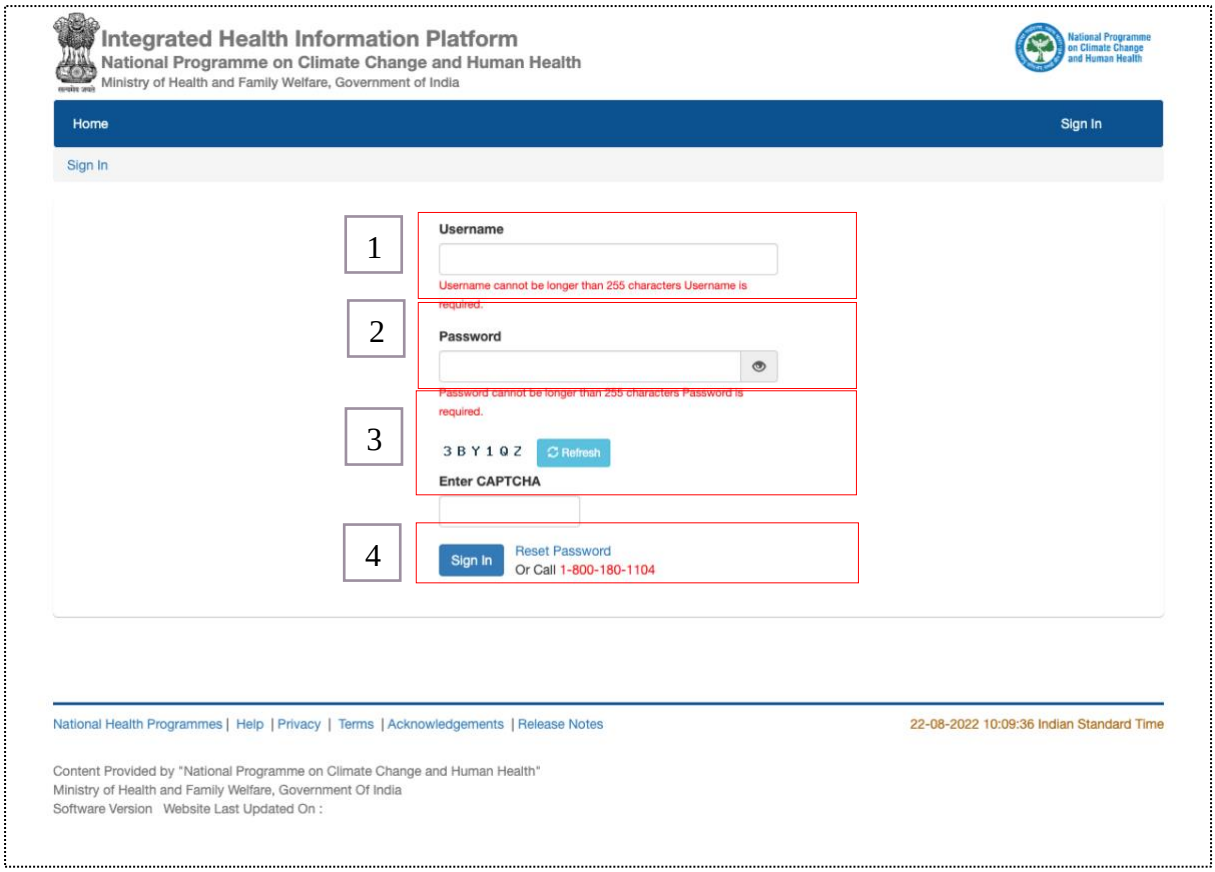
This section describes the step-by-step process and activity of this web dashboard application for web users. This user manual will help understand the functionalities of the dashboard and help in monitoring the reporting and decision making through the analytics trends of air pollutant illnesses on a daily basis.

FLOW OF INFORMATION IN NOADS WEB APPLICATION



LOGIN PAGE OF THE DASHBOARD

On clicking the URL(http://npcchh.indevconsultancy.com/), The login page below will be displayed.



Username: Enter the unique "Username" provided by the program officials.

Password: Enter the "Password" provided by the program officials.

Both the username and password are case sensitive

CAPTCHA: Enter the Correct Captcha visible on the screen. (Case sensitive)

Sign In: Click on button after filling the right username and password with correct captcha. If your entered credential matches with system, dashboard page will appear.

In case of forgot username or password click on reset password and follow the step mentioned below.

RESET PASSWORD PAGE OF THE DASHBOARD

The following page appears once “Reset Password” is clicked

Step-1: Enter your associated email address and click on “Reset”

Step-2:New Password will be sent to your mail

HOME PAGE

This section describes the features available on the home page of the web application.

Above is the home page which shows the consolidated data of the air pollutant illness cases and the Air Quality Index of linked geographical area.

Cases data, Map of the geographical area and AQI value will change according to the User role and linked geographical access.

Menu Section: This section shows the main menu of the web application. It consists of 7 submenus. Any of the submenu can be clicked to enter the particular section.

Banner Section: This section displays programme related images.

Map Section: This section displays the India map with state wise cumulative cases reported on air pollution related illnesses. There is an option of viewing the district wise cases of individual state by clicking on state or selecting particular state from drop down menu "Select State" at top right corner.

News/Activities Section: This section displays the latest news from programme division at central/state/district level

Overall Cases Reported Section: This section displays the cumulative data reported through NOADS application.

Total Emergency Cases: This section displays the total emergency cases reported at the facility/district/state/nation including air pollution related illnesses.

Respiratory (ARI Cases): This section displays the total cases reported at facility/district/state/nation related to Acute Respiratory Illness in the emergency department.

ARI Cases (Nebulisation): This section displays the total number of cases that required Nebulisation among the ARI cases reported in the emergency department at facility/district/state/nation.

ARI Cases (Hospital Admission): This section displays the total number of cases that required Hospital Admission among the ARI cases reported in the emergency department at facility/district/state/nation.

ARI Cases (Non-Invasive Ventilation): This section displays the total number of cases that required Non-Invasive Ventilation among the admitted ARI cases reported in the emergency department at facility/district/state/nation.

ARI Cases (Invasive Ventilation): This section displays the total number of cases that required Invasive Ventilation among the admitted ARI cases reported in the emergency department at facility/district/state/nation.

10 Indian cities with highest AQI level

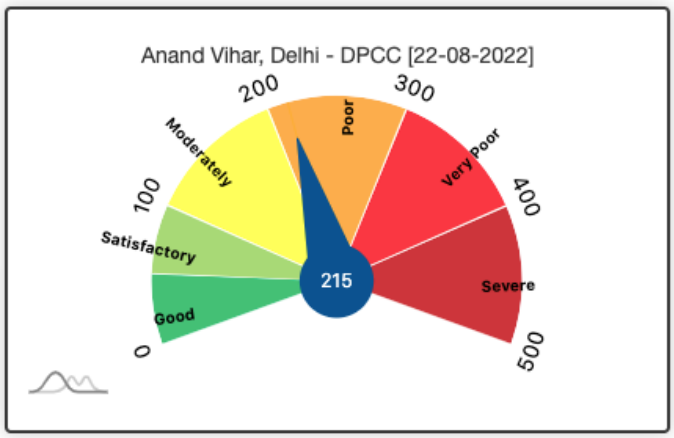
This section displays the 10 Indian cities in the country or in the state with the highest AQI level on the day, for example, as in the screenshot below.

Sl. No.	City Name	AQI Value
1.	Anand Vihar, Delhi - DPCC	215
2.	Patti Mehar, Ambala - HSPCB	183
3.	RIICO Ind. Area III, Bhiwadi - RSPCB	176
4.	RIMT University, Mandi Gobindgarh - PPCB	173
5.	Kalindi Kunj, Khurja - UPPCB	144
6.	NSIT Dwarka, Delhi - CPCB	137
7.	Shadipur, Delhi - CPCB	126

Air Quality Index of your City

This section displays the analytic of air pollutants with status marked on meter charts. On the top of the chart details of the air quality measuring station is present.

The data is for previous day at 4:00 PM as per CPCB bulletin.



Note *: All data will be consolidated and displayed on this page and will reflect the data reported on the previous day. The health data will be recorded from NOADS Mobile Application and AQI related data will be captured from CPCB bulletin.

AIR POLLUTION RELATED ILLNESSES

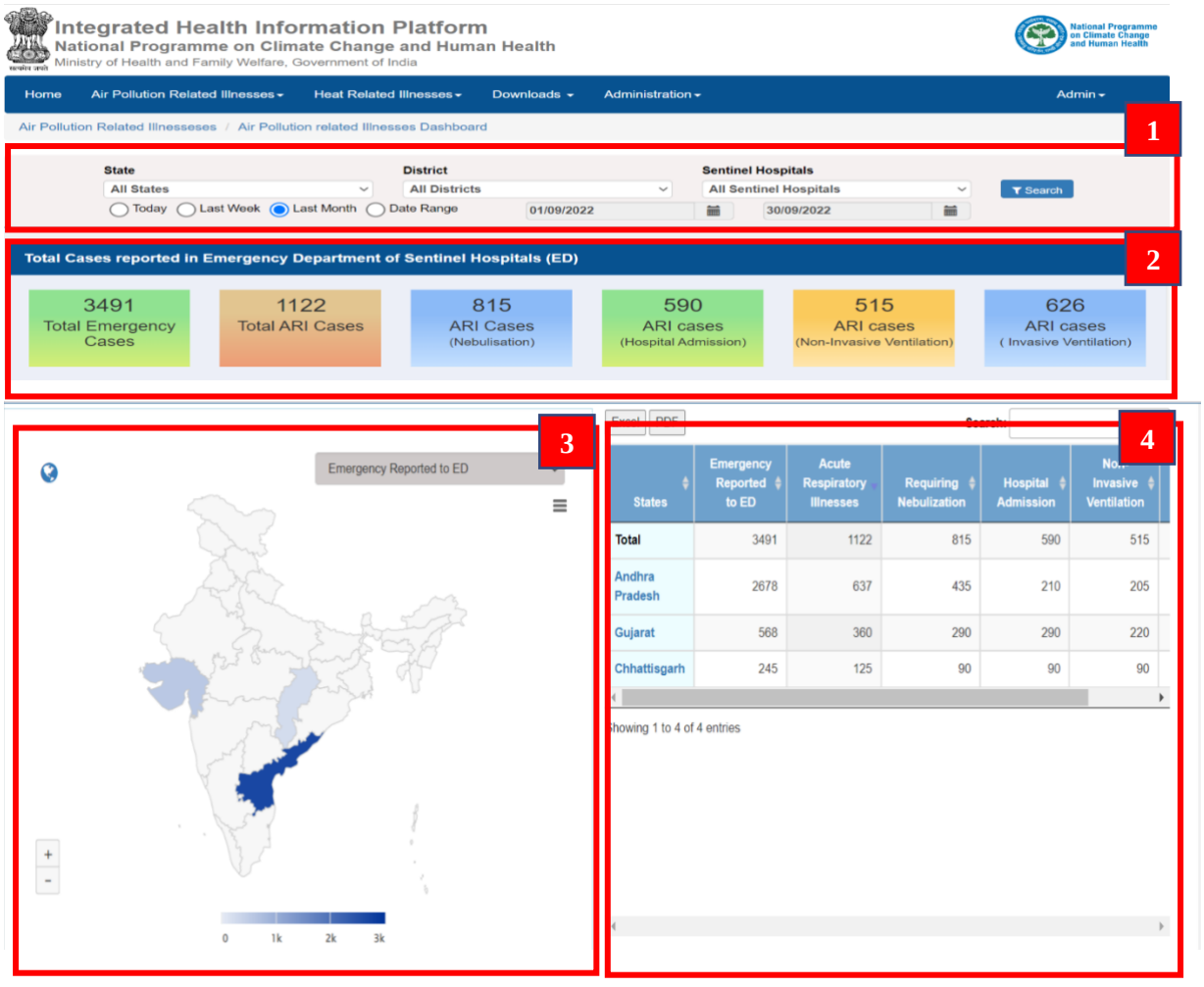
This section displays information about air pollution illnesses and their comparison with city wise air quality indices and other pollutant parameters.

The following submenu is displayed as dropdown under “Air Pollution Related Illnesses”

- Cases Dashboard
- Facility Reporting
- Consolidated ARI Cases Summary
- Consolidated Facility Reporting
- Surveillance Report

CASE DASHBOARD

This section displays information about the previous one day air pollution related illnesses and the trends of AQI against emergencies cases that are reported at facility/district/state/nation.



Filter Section: User can view the details using the following filters:

a. Geographical Location (State/District/Sentinel Hospital)
b. Date Range (Today/Last week/Last Month/Specific date range)

Cases Widget: This section displays the cumulative cases reported based on the type of filter selected in filter section.

Total Emergency Cases: This section displays the total emergency cases reported at the facility/district/state/nation including air pollution related illnesses.

Respiratory (ARI Cases): This section displays the total cases reported at facility/district/state/nation related to Acute Respiratory Illness in emergency department.

ARI Cases (Nebulisation): This section displays the total number of cases that required Nebulisation among the ARI cases reported in the emergency department at facility/district/state/nation.

ARI Cases (Hospital Admission): This section displays the total number of cases that required Hospital Admission among the ARI cases reported in the emergency department at facility/district/state/nation.

ARI Cases (Non-Invasive Ventilation): This section displays the total number of cases that required Non-Invasive Ventilation among the admitted ARI cases reported in the emergency department at facility/district/state/nation.

ARI Cases (Invasive Ventilation): This section displays the total number of cases that required Invasive Ventilation among the admitted ARI cases reported in the emergency department at facility/district/state/nation.

Air Pollution Related Illness Cases Visualized Over Map: The air pollution related illness cases are displayed over map for district/state respectively. User can filter the cases in different categories (i.e., Emergency Reported to ED, Acute Respiratory Illnesses, Requiring Nebulization, Hospital Admission, Non-Invasive Ventilation, Invasive Ventilation) over the same map. Drill down functionalities is available up to district level.

Cases in tabulated view: The air pollution related illnesses: Cases (total and categorized) can be viewed in this section which can be drill down to facility level. User can export the summary of cases from the clicking “Excel/PDF” from top of the table.

Excel PDF Search:

States	Emergency Reported to ED	Acute Respiratory Illnesses	Requiring Nebulization	Hospital Admission	I Ve
Total	3491	1122	815	590	
Andhra Pradesh	2678	637	435	210	
Gujarat	568	360	290	290	
Chhattisgarh	245	125	90	90	

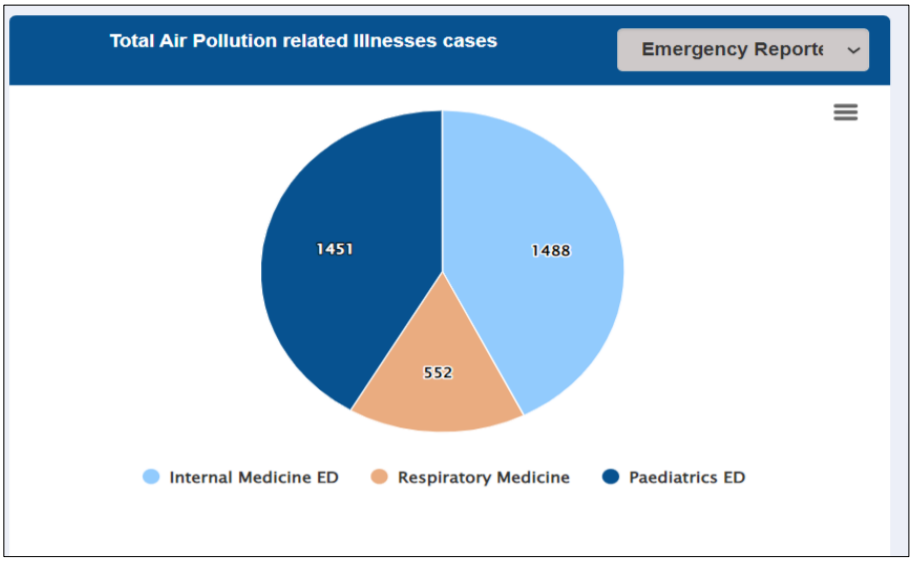
Showing 1 to 4 of 4 entries

Demographic and Clinical Distribution of Air Pollution Related Illnesses:

This Section displays air pollution illness cases reported based on the following categories.

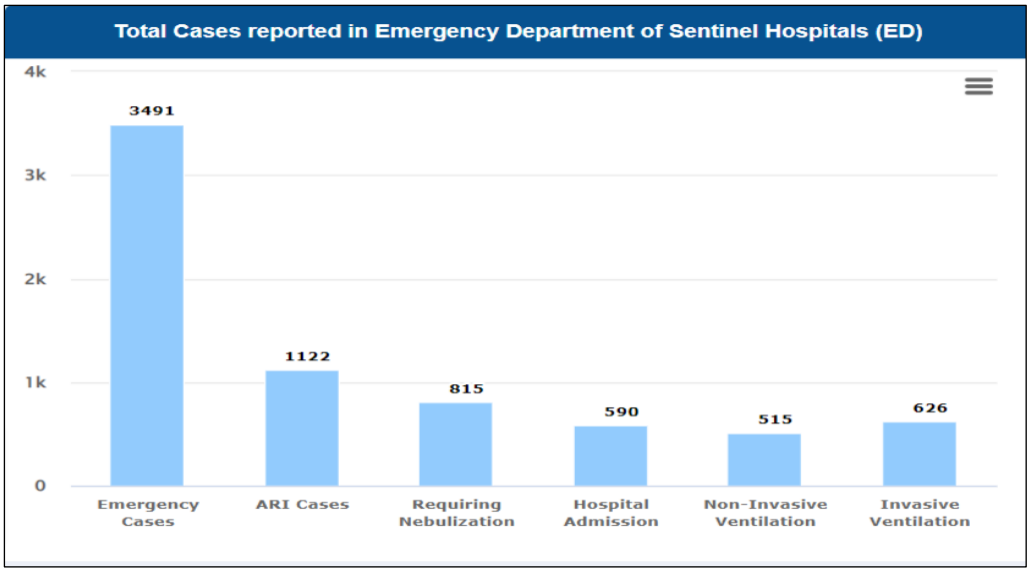
A. **Total cases (as per emergency department)**:

In this section users can visualize the cases according to the emergency departments from which they were reported in the surveillance. Filters can be applied for different categories i.e., Emergency Reported to ED, Acute Respiratory Illnesses, Requiring Nebulization, Hospital Admission, Non-Invasive Ventilation, Invasive Ventilation



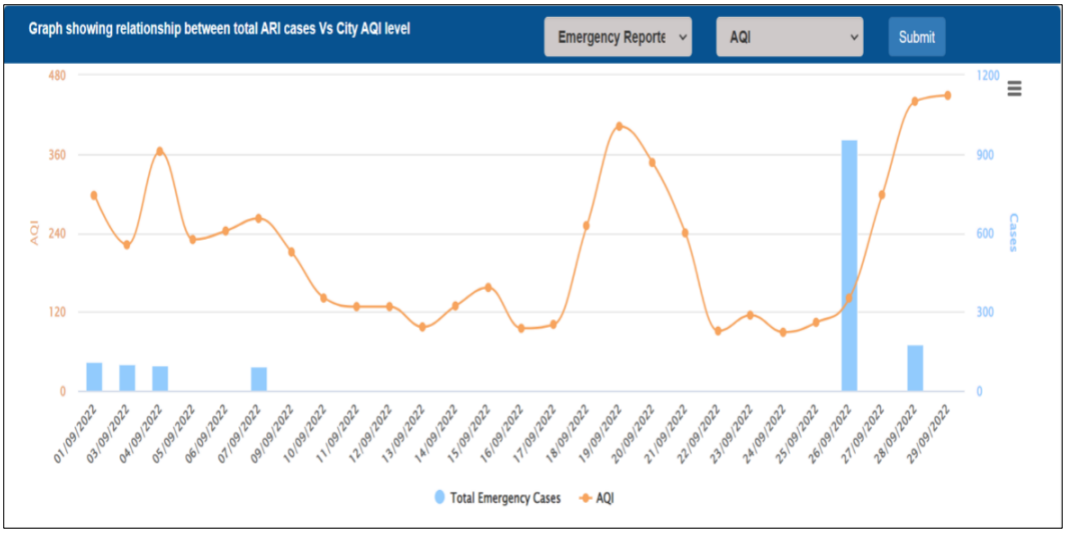
B. Total cases (as per category of case):

In this section users can visualize the various categories of data captured under surveillance in a facility/district/state as bars representing those categories



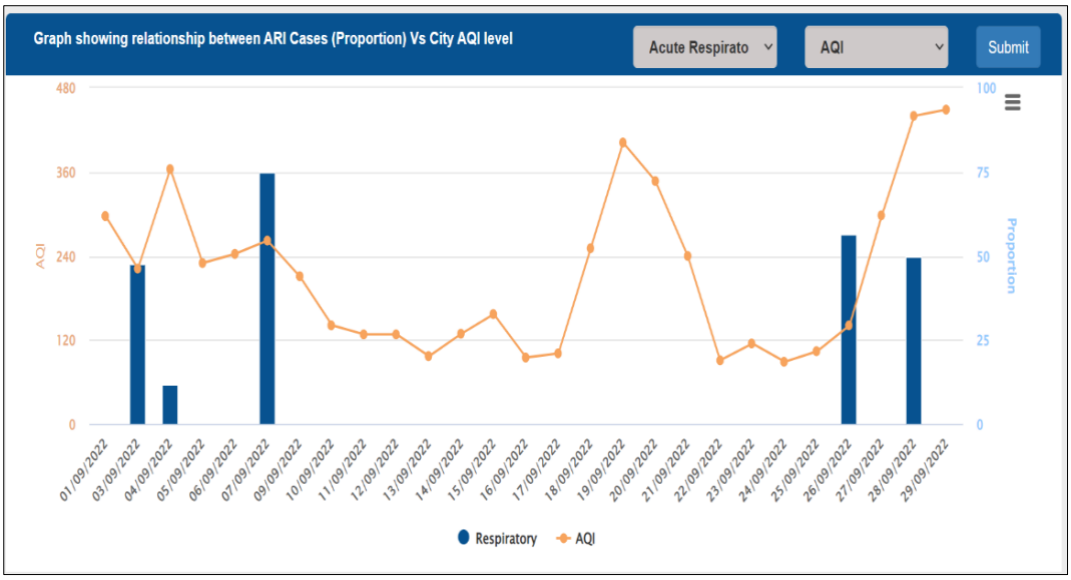
C. Graph showing total ARI Cases Vs City AQI Level:

In this section the user can visualize the graphical representation of the health indicators captured under the surveillance in relationship with the environmental indicators as daily averages over time. The filters can be applied for health indicators as (Emergency Reported to ED, Acute Respiratory Illnesses, Requiring Nebulization, Hospital Admission, Non-Invasive Ventilation, Invasive Ventilation) and environmental indicators as (AQI, PM2.5, PM10, NO2, SO3, CO, OZONE).



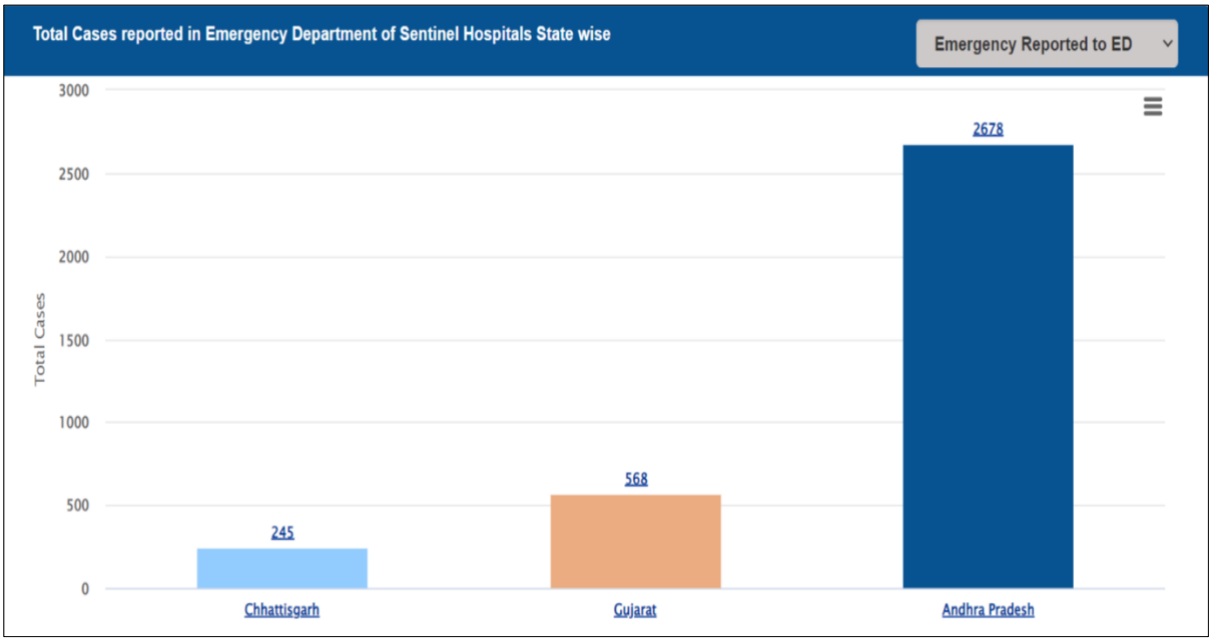
D. Graph showing relationship between ARI Cases (Proportion) vs City AQI level

This section displays a graph that shows the trend between the proportion of ARI cases to the Emergency cases reported daily and the daily average AQI of the same city.



E. Total cases reported in Emergency Department of Sentinel Hospitals State wise

This section displays the health indicators under the surveillance grouped as bars. Each bar represents a state and can be drill down to visualize the district wise data. Filters can be applied for the case's category (Emergency Reported to ED, Acute Respiratory Illnesses, Requiring Nebulization, Hospital Admission, Non-Invasive Ventilation, Invasive Ventilation).



FACILITY DAILY REPORTING

Facility wise daily reporting section is for tracking and ensuring that the data submission from each sentinel centre is regular.

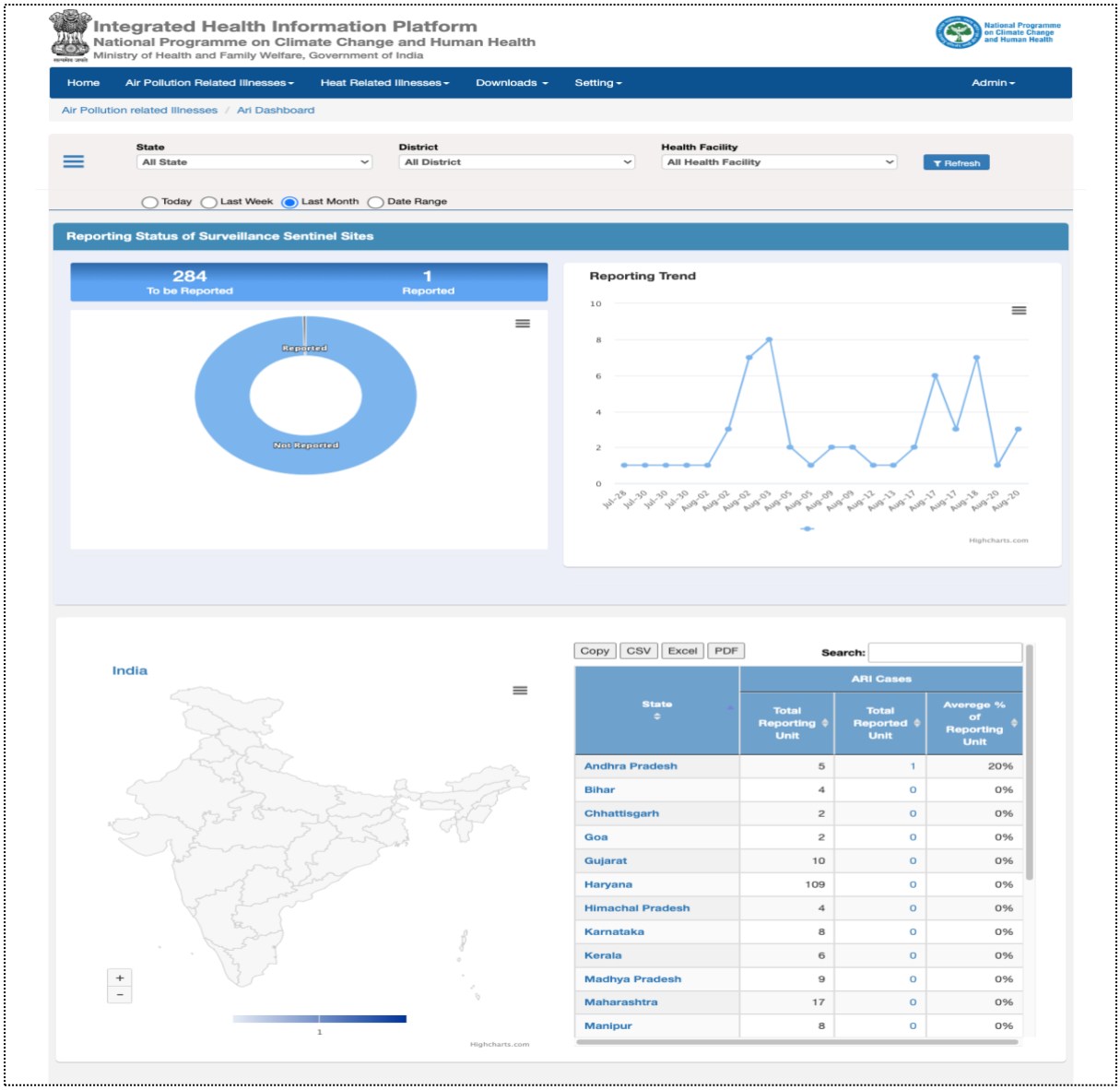
Through the filter, user can track the daily submission of data from the state level up to the facility level.

Reported Facility: Total facility reported for a day out of expected no. of facility centres expected to be reporting

Reporting Trends: User can track last 7 days of the reporting data from the facility.

Reporting Over Map: User can visualize the reporting pattern in each state/district to identify under reporting state/district/facilities.

Tabular view of Reporting: User can visualize the reporting pattern in each state/district to identify the under-reporting state/district/facilities in tabular form. Drilldown available up to facility level.



CONSOLIDATED ARI CASES SUMMARY

This section displays the consolidated cases reported under the sentinel surveillance of air pollution related illnesses.

Filter can be applied for

a. Time (Daily/Monthly/Yearly)
b. Category of Cases (Respiratory/Cardiovascular/Cerebrovascular)

Daily

Search

Search:

#SN.	State Name	2022-07-23	2022-07-24	2022-07-25	2022-07-26	2022-07-27	2022-07-28	2022-07-29	2022-07-30	2022-07-31	2022-08-01	2022-08-02	2022-08-03	2	Total
1	Andaman & Nicobar Islands	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Andhra Pradesh	0	0	0	0	4	1	3	1	6	6	100	8	0	144
3	Arunachal Pradesh	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Assam	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Bihar	0	0	0	0	0	0	0	0	0	0	4	2	2	19
6	Chandigarh	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7	Chhattisgarh	0	0	0	0	0	0	0	0	0	0	0	2	0	5
8	Delhi	0	0	0	0	0	0	0	0	0	0	0	0	0	2

Showing 1 to 36 of 36 entries

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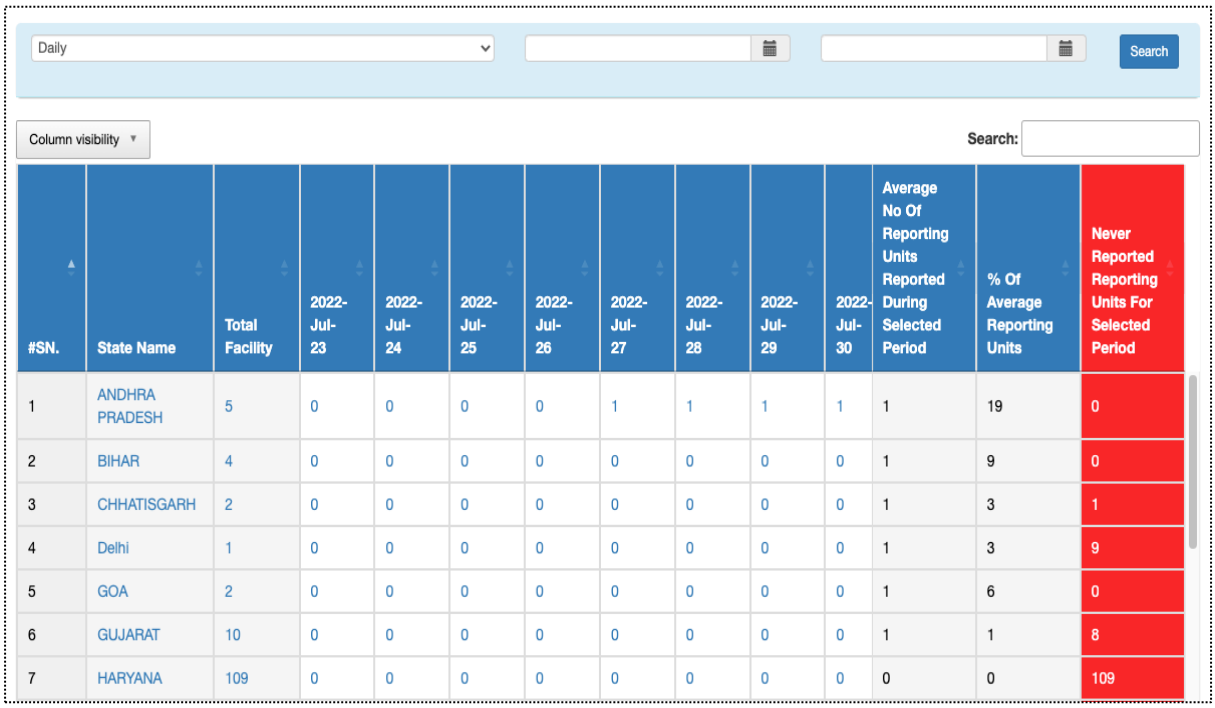
CONSOLIDATED FACILITY REPORTING

This section helps the user to monitor the reporting status of all the facility state/district wise and it displays the no of reporting units that are enrolled, which reported during the period in which the filter is applied and the number of reporting units that have never reported.

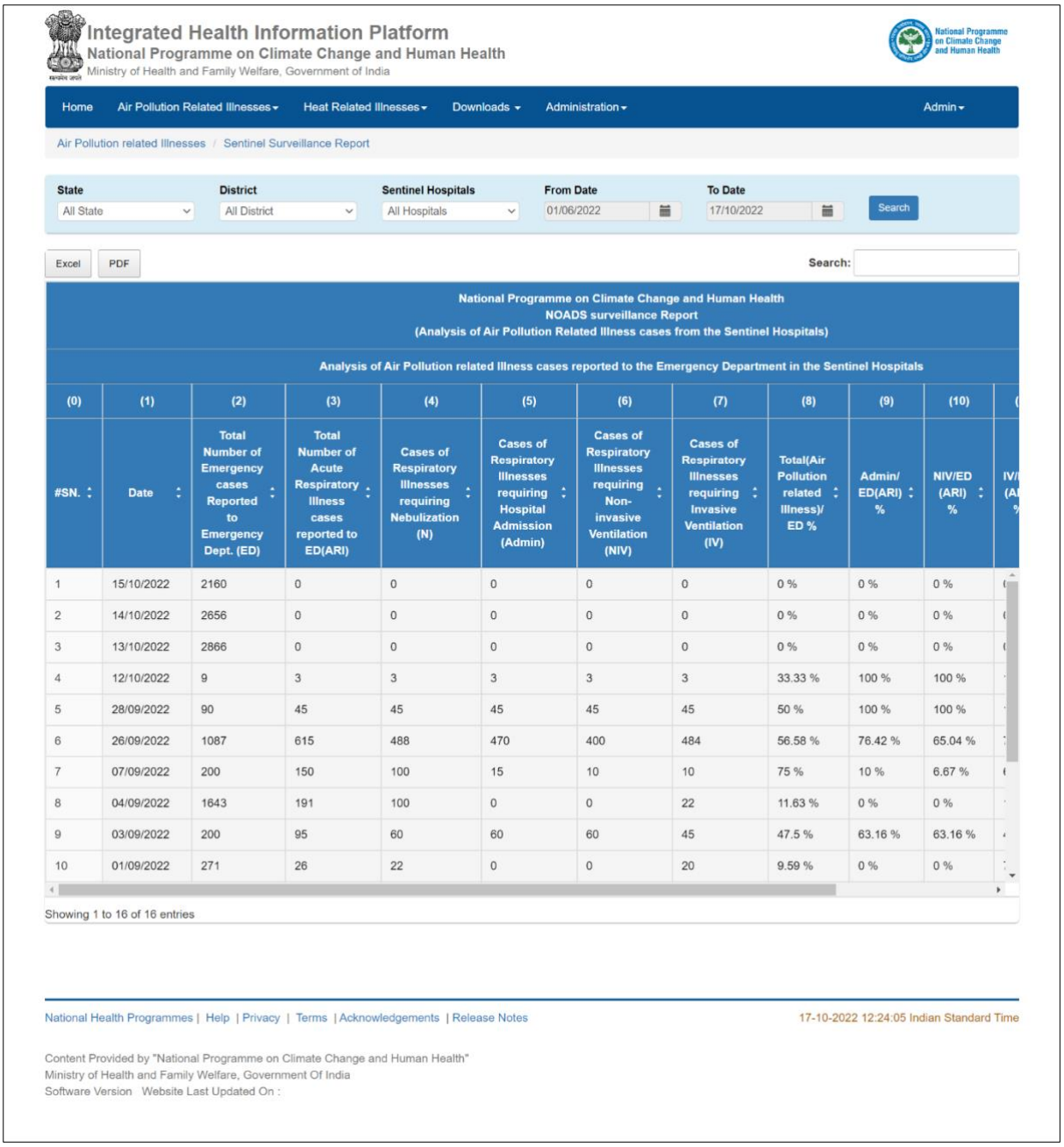
Filter can be applied for daily, monthly & yearly. Displayed data can be exported in Excel, CSV & PDF format.



#SN.	State Name	Total Facility	2022-Jul-23	2022-Jul-24	2022-Jul-25	2022-Jul-26	2022-Jul-27	2022-Jul-28	2022-Jul-29	2022-Jul-30	Average No Of Reporting Units Reported During Selected Period	% Of Average Reporting Units	Never Reported Reporting Units For Selected Period
1	ANDHRA PRADESH	5	0	0	0	0	1	1	1	1	1	19	0
2	BIHAR	4	0	0	0	0	0	0	0	0	1	9	0
3	CHHATISGARH	2	0	0	0	0	0	0	0	0	1	3	1
4	Delhi	1	0	0	0	0	0	0	0	0	1	3	9
5	GOA	2	0	0	0	0	0	0	0	0	1	6	0
6	GUJARAT	10	0	0	0	0	0	0	0	0	1	1	8
7	HARYANA	109	0	0	0	0	0	0	0	0	0	0	109

SURVEILLANCE REPORT

This section helps the programme officials to visualize and analyse the report of sentinel surveillance of air pollution related illnesses in standard format.



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Ministry of Health and Family Welfare, Government of India

National Programme on Climate Change and Human Health

Home | Air Pollution Related Illnesses | Heat Related Illnesses | Downloads | Administration | Admin

Air Pollution related Illnesses / Sentinel Surveillance Report

State: All State | District: All District | Sentinel Hospitals: All Hospitals | From Date: 01/06/2022 | To Date: 17/10/2022 | Search

Excel | PDF | Search:

National Programme on Climate Change and Human Health
NOADS surveillance Report
(Analysis of Air Pollution Related Illness cases from the Sentinel Hospitals)

Analysis of Air Pollution related Illness cases reported to the Emergency Department in the Sentinel Hospitals

(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
#SN.	Date	Total Number of Emergency cases Reported to Emergency Dept. (ED)	Total Number of Acute Respiratory Illness cases reported to ED(ARI)	Cases of Respiratory Illnesses requiring Nebulization (N)	Cases of Respiratory Illnesses requiring Hospital Admission (Admin)	Cases of Respiratory Illnesses requiring Non-invasive Ventilation (NIV)	Cases of Respiratory Illnesses requiring Invasive Ventilation (IV)	Total(Air Pollution related Illness)/ ED %	Admin/ ED(ARI) %	NIV/ED (ARI) %
1	15/10/2022	2160	0	0	0	0	0	0 %	0 %	0 %
2	14/10/2022	2656	0	0	0	0	0	0 %	0 %	0 %
3	13/10/2022	2866	0	0	0	0	0	0 %	0 %	0 %
4	12/10/2022	9	3	3	3	3	3	33.33 %	100 %	100 %
5	28/09/2022	90	45	45	45	45	45	50 %	100 %	100 %
6	26/09/2022	1087	615	488	470	400	484	56.58 %	76.42 %	65.04 %
7	07/09/2022	200	150	100	15	10	10	75 %	10 %	6.67 %
8	04/09/2022	1643	191	100	0	0	22	11.63 %	0 %	0 %
9	03/09/2022	200	95	60	60	60	45	47.5 %	63.16 %	63.16 %
10	01/09/2022	271	26	22	0	0	20	9.59 %	0 %	0 %

Showing 1 to 16 of 16 entries

National Health Programmes | Help | Privacy | Terms | Acknowledgements | Release Notes

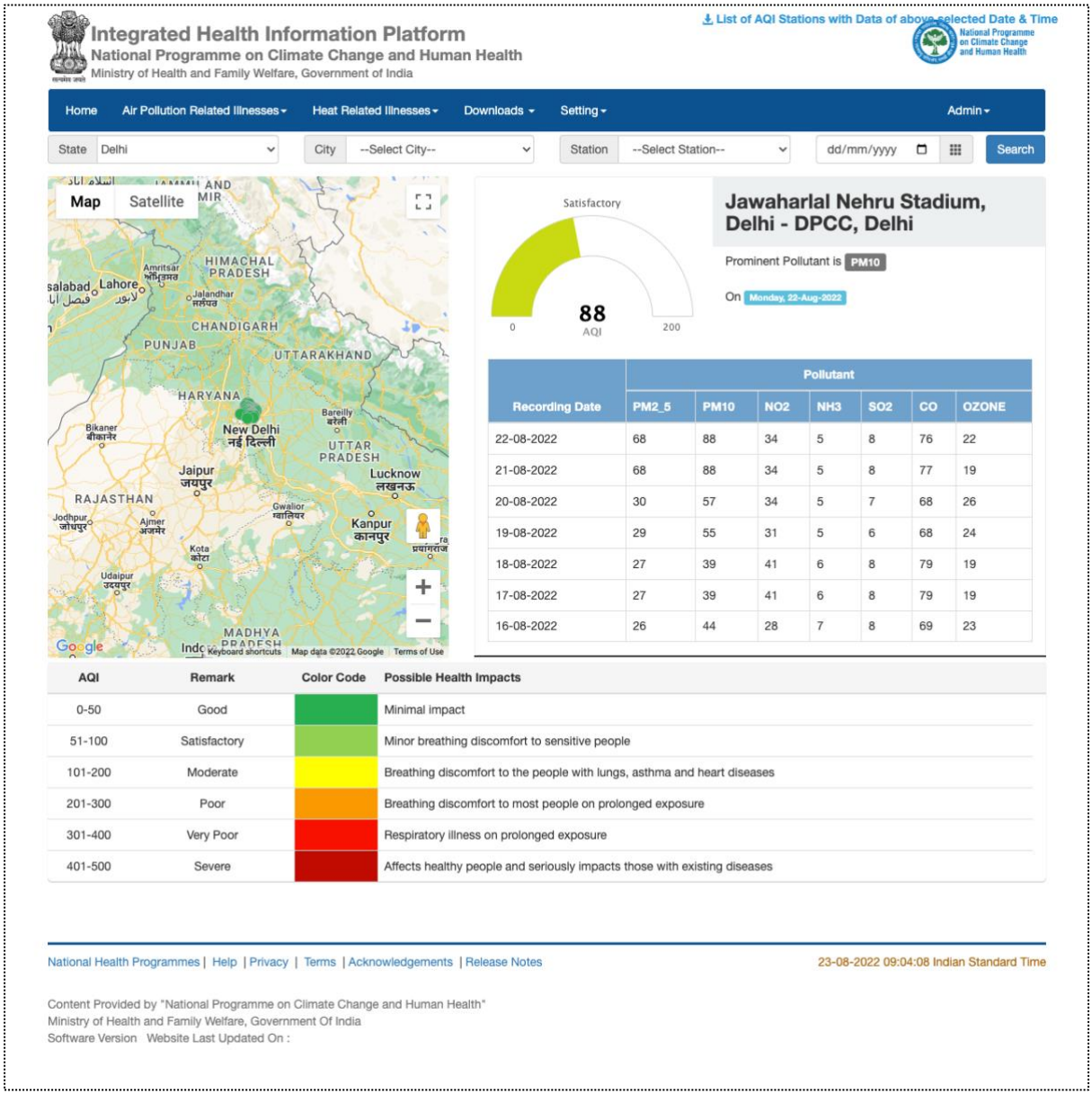
17-10-2022 12:24:05 Indian Standard Time

Content Provided by "National Programme on Climate Change and Human Health"
Ministry of Health and Family Welfare, Government Of India
Software Version Website Last Updated On :

MAP: AQI MAP

This section displays various parameters of the air quality index measured by Central Pollution Control Board (CPCB).

- Filter for State/City/Station and 'Date of Measurement' is present on the top of the section.
- A map of the country with location of different monitoring stations is displayed in the left side.
- At the right-side Air quality index of the city during the date mention in the filter is displayed along with the prominent pollutant. Table showing day wise average of the various pollutant (PM2.5, PM10, NO2, SO3, CO & OZONE) is display below it.
- A general guideline to categorize the AQI levels is also displayed below.



SETTINGS PAGE

On this page various setting options are given to the National level user to:

- Banner Manage
- Events & News Listing
- User Management for Mobile App
- User Management for (Web App)
- Facility Listing, Add, Edit & Delete
- Doctor Listing, Add, Edit & Delete

Ministry of Health and Family Welfare
Government of India

Azadi Ka Amrit Mahotsav

Acknowledgement

This booklet is a user manual for web dashboard linked with the mobile application of sentinel surveillance on air pollution related illnesses.

The undersigned developed the manual under the guidance of Prof. Atul Goel, Director General, DGHS, Shri Lav Agarwal, Additional Secretary, MoHFW, Dr. Sujeet K Singh, Principal Advisor, NCDC, Dr. Aakash Shrivastava, Additional Director, NCDC under National Programme on Climate Change and Human Health, National Centre for disease control, Directorate General of Health Services, Ministry of Health and Family Welfare.

Dr Siva Prasad (Deputy Assistant Director) and Dr Nivethitha N EIS officer (NCDC) contributed for the successful designing and development of the web dashboard and its manual for the programme.

The application is supported by the IHIP team (Dr. Shyam Singhal and his team), WHO India in partnership with the App developers (Indev Consultancy Pvt Limited Delhi).

The programme is thankful to all those who supported in realising the manual in the current form for the benefit of the programme at every level.

Dr Rameshwar Sorokhaibam

Deputy Director

NCDC

National Programme on Climate Change and Human Health

National Health Mission

National Centre for Disease Control
Government of India