

## **List of API's of India Meteorological Department**

1. City Weather forecast for 7days forecast  
URL: <https://city.imd.gov.in/api/cityweather.php?id=42182>  
or  
URL: <https://city.imd.gov.in/api/cityweather.php>
2. City Weather forecast for 7 days with latitude and longitude  
URL: [https://city.imd.gov.in/api/cityweather\\_loc.php?id=42182](https://city.imd.gov.in/api/cityweather_loc.php?id=42182)  
or  
URL: [https://city.imd.gov.in/api/cityweather\\_loc.php](https://city.imd.gov.in/api/cityweather_loc.php)
3. Current Weather API  
URL: [https://mausam.imd.gov.in/api/current\\_wx\\_api.php?id=42182](https://mausam.imd.gov.in/api/current_wx_api.php?id=42182)  
or  
URL: [https://mausam.imd.gov.in/api/current\\_wx\\_api.php](https://mausam.imd.gov.in/api/current_wx_api.php)
4. District Wise Nowcast API  
URL: [https://mausam.imd.gov.in/api/nowcast\\_district\\_api.php?id=5](https://mausam.imd.gov.in/api/nowcast_district_api.php?id=5)  
or  
URL: [https://mausam.imd.gov.in/api/nowcast\\_district\\_api.php](https://mausam.imd.gov.in/api/nowcast_district_api.php)
5. District wise Rainfall  
URL: [https://mausam.imd.gov.in/api/districtwise\\_rainfall\\_api.php](https://mausam.imd.gov.in/api/districtwise_rainfall_api.php)
6. District wise Warning  
URL: [https://mausam.imd.gov.in/api/warnings\\_district\\_api.php](https://mausam.imd.gov.in/api/warnings_district_api.php)  
or  
URL: [https://mausam.imd.gov.in/api/warnings\\_district\\_api.php?id=1](https://mausam.imd.gov.in/api/warnings_district_api.php?id=1)
7. Station Wise Nowcast API  
URL: <https://mausam.imd.gov.in/api/nowcastapi.php?id=Jaipur AP>  
or  
URL: <https://mausam.imd.gov.in/api/nowcastapi.php>
8. State wise Rainfall  
URL: [https://mausam.imd.gov.in/api/statewise\\_rainfall\\_api.php](https://mausam.imd.gov.in/api/statewise_rainfall_api.php)
9. RSS Feeds  
URL: [https://mausam.imd.gov.in/imd\\_latest/contents/dist\\_nowcast\\_rss.php](https://mausam.imd.gov.in/imd_latest/contents/dist_nowcast_rss.php)
10. AWS/ARG Data  
URL: [https://city.imd.gov.in/api/aws\\_data\\_api.php](https://city.imd.gov.in/api/aws_data_api.php)
11. River Basin (Quantitative Precipitation Forecast)  
URL: [https://mausam.imd.gov.in/api/basin\\_qpf\\_api.php](https://mausam.imd.gov.in/api/basin_qpf_api.php)
12. Port Warning  
URL: [https://mausam.imd.gov.in/api/port\\_wx\\_api.php](https://mausam.imd.gov.in/api/port_wx_api.php)

13. Sea Area Bulletin

URL: [https://mausam.imd.gov.in/api/seaarea\\_bulletin\\_api.php](https://mausam.imd.gov.in/api/seaarea_bulletin_api.php)

14. Coastal Area Bulletin

URL: [https://mausam.imd.gov.in/api/coastal\\_bulletin\\_api.php](https://mausam.imd.gov.in/api/coastal_bulletin_api.php)

15. Subdivisional APIs

URL: [https://mausam.imd.gov.in/api/api\\_5d\\_subdivisional\\_rf.php](https://mausam.imd.gov.in/api/api_5d_subdivisional_rf.php)

URL: [https://mausam.imd.gov.in/api/api\\_5d\\_statewisedistricts\\_rf\\_forecast.php](https://mausam.imd.gov.in/api/api_5d_statewisedistricts_rf_forecast.php)

URL: [https://mausam.imd.gov.in/api/api\\_subDivisionWiseWarning.php](https://mausam.imd.gov.in/api/api_subDivisionWiseWarning.php)

## City Weather forecast for 7 days

### City Weather forecast for 7days forecast :

URL: <https://city.imd.gov.in/api/cityweather.php?id=42182>

or

URL: <https://city.imd.gov.in/api/cityweather.php>

Visualize Data: <https://city.imd.gov.in/citywx/localwx.php>

User has to provide their public IP so that same could be whitelisted at our end.

Fields	Description
Date	Date of Observation in YYYY-mm-dd
Station_Code	Station Code is unique for each station.
Station_Name	Station name
Today_Max_temp	Max Temp records at 1730 Hr IST (°C)
Today_Max_Departure_from_Normal	in °C
Previous_Day_Max_temp	Max Temp of previous day records at 1730 Hr IST (°C)
Previous_Day_Max_Departure_from_Normal	-
Today_Min_temp	Min Temp in °C records at 0530 Hr IST
Today_Min_Departure_from_Normal	-
Past_24_hrs_Rainfall	Recorded from 0830 hrs IST of previous day to 0830 hrs IST of today
Relative_Humidity_at_0830	Relative Humidity recorded at 0830 hrs (%)
Relative_Humidity_at_1730	Relative Humidity recorded at 1730 hrs (%)
Previous_Day_Relative_Humidity_at_1730	Relative Humidity of previous day recorded at 1730 hrs (%)
Sunset_time	Sunset Time
Sunrise_time	Sunrise Time
Moonset_time	Moonset Time
Moonrise_time	Moonrise Time
Todays_Forecast_Max_Temp	Forecasted Max Temp of Day-1 (i.e. Today) (°C)
Todays_Forecast_Min_temp	Forecasted Min Temp of Day-1 (i.e. Today) (°C)
Todays_Forecast	Weather Forecast of Day-1 (i.e. Today) (°C)
Day_2_Max_Temp	Forecasted Max Temp of Day-2 (°C)
Day_2_Min_temp	Forecasted Min Temp of Day-2 (°C)
Day_2_Forecast	Weather Forecast of Day-2 (°C)

Day_3_Max_Temp	Forecasted Max Temp of Day-3 (°C)
Day_3_Min_temp	Forecasted Min Temp of Day-3 (°C)
Day_3_Forecast	Weather Forecast of Day-3 (°C)
Day_4_Max_Temp	Forecasted Max Temp of Day-4 (°C)
Day_4_Min_temp	Forecasted Min Temp of Day-4 (°C)
Day_4_Forecast	Weather Forecast of Day-4 (°C)
Day_5_Max_Temp	Forecasted Max Temp of Day-5 (°C)
Day_5_Min_temp	Forecasted Min Temp of Day-5 (°C)
Day_5_Forecast	Weather Forecast of Day-5 (°C)
Day_6_Max_Temp	Forecasted Max Temp of Day-6 (°C)
Day_6_Min_temp	Forecasted Min Temp of Day-6 (°C)
Day_6_Forecast	Weather Forecast of Day-6 (°C)
Day_7_Max_Temp	Forecasted Max Temp of Day-7 (°C)
Day_7_Min_temp	Forecasted Min Temp of Day-7 (°C)
Day_7_Forecast	Weather Forecast of Day-7 (°C)

## City Weather forecast for 7 days with latitude and longitude

### City Weather forecast for 7days forecast :

URL: [https://city.imd.gov.in/api/cityweather\\_loc.php?id=42182](https://city.imd.gov.in/api/cityweather_loc.php?id=42182)

or

URL: [https://city.imd.gov.in/api/cityweather\\_loc.php](https://city.imd.gov.in/api/cityweather_loc.php)

Visualize Data: <https://city.imd.gov.in/citywx/localwx.php>

User has to provide their public IP so that same could be whitelisted at our end.

Fields	Description
Date	Date of Observation in YYYY-mm-dd
Station_Code	Station Code is unique for each station.
Station_Name	Station name
Today_Max_temp	Max Temp records at 1730 Hr IST (°C)
Today_Max_Departure_from_Normal	in °C
Previous_Day_Max_temp	Max Temp of previous day records at 1730 Hr IST (°C)
Previous_Day_Max_Departure_from_Normal	-
Today_Min_temp	Min Temp in °C records at 0530 Hr IST
Today_Min_Departure_from_Normal	-
Past_24_hrs_Rainfall	Recorded from 0830 hrs IST of previous day to 0830 hrs IST of today
Relative_Humidity_at_0830	Relative Humidity recorded at 0830 hrs (%)
Relative_Humidity_at_1730	Relative Humidity recorded at 1730 hrs (%)
Previous_Day_Relative_Humidity_at_1730	Relative Humidity of previous day recorded at 1730 hrs (%)
Sunset_time	Sunset Time
Sunrise_time	Sunrise Time
Moonset_time	Moonset Time
Moonrise_time	Moonrise Time
Todays_Forecast_Max_Temp	Forecasted Max Temp of Day-1 (i.e. Today) (°C)
Todays_Forecast_Min_temp	Forecasted Min Temp of Day-1 (i.e. Today) (°C)
Todays_Forecast	Weather Forecast of Day-1 (i.e. Today) (°C)
Day_2_Max_Temp	Forecasted Max Temp of Day-2 (°C)
Day_2_Min_temp	Forecasted Min Temp of Day-2 (°C)
Day_2_Forecast	Weather Forecast of Day-2 (°C)

Day_3_Max_Temp	Forecasted Max Temp of Day-3 (°C)
Day_3_Min_temp	Forecasted Min Temp of Day-3 (°C)
Day_3_Forecast	Weather Forecast of Day-3 (°C)
Day_4_Max_Temp	Forecasted Max Temp of Day-4 (°C)
Day_4_Min_temp	Forecasted Min Temp of Day-4 (°C)
Day_4_Forecast	Weather Forecast of Day-4 (°C)
Day_5_Max_Temp	Forecasted Max Temp of Day-5 (°C)
Day_5_Min_temp	Forecasted Min Temp of Day-5 (°C)
Day_5_Forecast	Weather Forecast of Day-5 (°C)
Day_6_Max_Temp	Forecasted Max Temp of Day-6 (°C)
Day_6_Min_temp	Forecasted Min Temp of Day-6 (°C)
Day_6_Forecast	Weather Forecast of Day-6 (°C)
Day_7_Max_Temp	Forecasted Max Temp of Day-7 (°C)
Day_7_Min_temp	Forecasted Min Temp of Day-7 (°C)
Day_7_Forecast	Weather Forecast of Day-7 (°C)
Latitude	Latitude of Station
Longitude	Longitude of Station

## Current Weather

Current Weather API can be accessed by URL:

URL: [https://mausam.imd.gov.in/api/current\\_wx\\_api.php?id=Station Id](https://mausam.imd.gov.in/api/current_wx_api.php?id=Station Id)

or

URL: [https://mausam.imd.gov.in/api/current\\_wx\\_api.php](https://mausam.imd.gov.in/api/current_wx_api.php)

Visualize Data: <https://mausam.imd.gov.in/>

User has to provide their public IP so that same could be whitelisted at our end.

Field	Value	Description
Station Id	Station Id	Station ID is unique for each station.
Station	Station name	Station name
Date of Observation	YYYY-mm-dd	Date of Observation
Time		It is time of observation in UTC
M.S.L.P		Mean Sea Level Pressure in hPa
Wind Direction		Wind Direction Description is given below.
Wind Speed		Wind Speed in KMPH
Temperature		Current Temperature in deg C
Weather Code		Weather code for current weather. (description file is attached).
Nebulosity		Cloud coverage from on the scale of 0-8.
Humidity		Humidity in percentage (%)
Last 24 hrs Rainfall		Rainfall in last 24 hrs in mm

### Wind Direction Description:

Value	Direction
0	"Calm"
20	"North-northeasterly"
50	"Northeasterly"
70	"East-northeasterly"
90	"Easterly"
110	"East-southeasterly"
140	"Southeasterly"
160	"South-southeasterly"
180	"Southerly"
200	"South-southwesterly"
230	"Southwesterly"
250	"West-southwesterly"
270	"Westerly"
290	"West-northwesterly"
320	"Northwesterly"
340	"North-northwesterly"
360	"Northerly"

## Weather Code

Value	Description
01	Clouds generally dissolving or becoming less developed
02	State of sky on the whole unchanged
03	Clouds generally forming or developing
04	Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes
05	Haze
06	Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation
07	Dust or sand raised by wind at or near the station at the time of observation, but no well-developed dust whirl(s) or sand whirl(s), and no duststorm or sandstorm seen
08	Well-developed dust whirl(s) or sand whirl(s) seen at or near the station during the preceding hour or at the time of observation, but no duststorm or sandstorm
09	Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour
10	Mist
11	Patches of shallow fog or ice fog at the station, whether on land or sea, not deeper than about 2 meters on land or 10 meters at sea
12	More or less continuous shallow fog or ice fog at the station, whether on land or sea, not deeper than about 2 meters on land or 10 meters at sea
13	Lightning visible, no thunder heard
14	Precipitation within sight, not reaching the ground or the surface of the sea
15	Precipitation within sight, reaching the ground or the surface of the sea, but distant (i.e. estimated to be more than 5 km) from the station
16	Precipitation within sight, reaching the ground or the surface of the sea, near to, but not at the station
17	Thunderstorm, but no precipitation at the time of observation
18	Squalls at or within sight of the station during the preceding hour or at the time of observation
19	Funnel cloud(s)**?at or within sight of the station during the preceding hour or at the time of observation
20	Drizzle (not freezing) or snow grains not falling as shower(s)
21	Rain (not freezing) not falling as shower(s)
22	Snow not falling as shower(s)
23	Rain and snow or ice pellets, type (a) not falling as shower(s)
24	Freezing drizzle or freezing rain not falling as shower(s)
25	Shower(s) of rain
26	Shower(s) of snow, or of rain and snow
27	Shower(s) of hail*, or of rain and hail*
28	Fog or ice fog
29	Thunderstorm (with or without precipitation)
30	Slight or moderate duststorm or sandstorm - has decreased during the preceding hour
31	Slight or moderate duststorm or sandstorm - no appreciable change during the preceding hour
32	Slight or moderate duststorm or sandstorm - has begun or has increased during the preceding hour
33	Severe duststorm or sandstorm - has decreased during the preceding hour
34	Severe duststorm or sandstorm - no appreciable change during the preceding hour
35	Severe duststorm or sandstorm - has begun or has increased during the preceding hour
36	Slight or moderate blowing snow generally low (below eye level)
37	Heavy drifting snow generally low (below eye level)



38	Slight or moderate blowing snow generally high (above eye level)
39	Heavy drifting snow generally high (above eye level)
40	Fog or ice fog at a distance at the time of observation, but not at the station during the preceding hour, the fog or ice fog extending to a level above that of the observer
41	Fog or ice fog in patches
42	Fog or ice fog, sky visible has become thinner during the preceding hour
43	Fog or ice fog, sky invisible has become thinner during the preceding hour
44	Fog or ice fog, sky visible no appreciable change during the preceding hour
45	Fog or ice fog, sky invisible no appreciable change during the preceding hour
46	Fog or ice fog, sky visible has begun or has become thicker during the preceding hour
47	Fog or ice fog, sky invisible has begun or has become thicker during the preceding hour
48	Fog, depositing rime, sky visible
49	Fog, depositing rime, sky invisible
50	Drizzle, not freezing, intermittent slight at time of observation
51	Drizzle, not freezing, continuous slight at time of observation
52	Drizzle, not freezing, intermittent moderate at time of observation
53	Drizzle, not freezing, continuous moderate at time of observation
54	Drizzle, not freezing, intermittent heavy (dense) at time of observation
55	Drizzle, not freezing, continuous heavy (dense) at time of observation
56	Drizzle, freezing, slight
57	Drizzle, freezing, moderate or heavy (dense)
58	Drizzle and rain, slight
59	Drizzle and rain, moderate or heavy
60	Rain, not freezing, intermittent slight at time of observation
61	Rain, not freezing, continuous slight at time of observation
62	Rain, not freezing, intermittent moderate at time of observation
63	Rain, not freezing, continuous moderate at time of observation
64	Rain, not freezing, intermittent heavy at time of observation
65	Rain, not freezing, continuous heavy at time of observation
66	Rain, freezing, slight
67	Rain, freezing, moderate or heavy
68	Rain, or drizzle and snow, slight
69	Rain, or drizzle and snow, moderate or heavy
70	Intermittent fall of snowflakes slight at time of observation
71	Continuous fall of snowflakes slight at time of observation
72	Intermittent fall of snowflakes moderate at time of observation
73	Continuous fall of snowflakes moderate at time of observation
74	Intermittent fall of snowflakes heavy at time of observation
75	Continuous fall of snowflakes heavy at time of observation
76	Ice prisms (with or without fog)
77	Snow grains (with or without fog)
78	Isolated star like snow crystals (with or without fog)
79	Ice pellets, type (a)
80	Rain shower(s), slight

81	Rain shower(s), moderate or heavy
82	Rain shower(s), violent
83	Shower(s) of rain and snow mixed, slight
84	Shower(s) of rain and snow mixed, moderate or heavy
85	Snow shower(s), slight
86	Snow shower(s), moderate or heavy
87	Shower(s) of snow pellets or ice pellets, type (b), with or without rain or rain and snow mixed - slight
88	Shower(s) of snow pellets or ice pellets, type (b), with or without rain or rain and snow mixed - moderate or heavy
89	Shower(s) of hail*, with or without rain or rain and snow mixed, not associated with thunder - slight
90	Shower(s) of hail*, with or without rain or rain and snow mixed, not associated with thunder - moderate or heavy
91	Slight rain at time of observation - thunderstorm during the preceding hour but not at time of observation
92	Moderate or heavy rain at time of observation - thunderstorm during the preceding hour but not at time of observation
93	Slight snow, or rain and snow mixed or hail**?at time of observation - thunderstorm during the preceding hour but not at time of observation
94	Moderate or heavy snow, or rain and snow mixed or hail**?at time of observation - thunderstorm during the preceding hour but not at time of observation
95	Thunderstorm, slight or moderate, without hail**, but with rain and/or snow at time of observation - thunderstorm at time of observation
96	Thunderstorm, slight or moderate, with hail**?at time of observation - thunderstorm at time of observation
97	Thunderstorm, heavy, without hail**, but with rain and/or snow at time of observation - thunderstorm at time of observation
98	Thunderstorm combined with duststorm or sandstorm at time of observation - thunderstorm at time of observation
99	Thunderstorm, heavy, with hail**?at time of observation - thunderstorm at time of observation

## District wise Nowcast

The API can be accessed by following link

URL: [https://mausam.imd.gov.in/api/nowcast\\_district\\_api.php?id=1](https://mausam.imd.gov.in/api/nowcast_district_api.php?id=1)

where 1 can be replaced by obj\_id for a particular district

Visualize Data: <https://mausam.imd.gov.in/responsive/districtWiseNowcast.php>

Category No	value	Nowcast Categories Description
Station	Station name	Station name
Date	YYYY-mm-dd	Date of warning issued
Cat1	1	No Weather
Cat2	2	Light rain: < 5 mm/hr
Cat3	3	Light snow < 5cm/hr
Cat4	4	Light Thunderstorms with maximum surface wind speed less than 40 kmph (In gusts)
Cat5	5	Slight dust storm: If the wind speed is up to 41 kmph and visibility is less than 1,000 metres but more than 500 meters
Cat6	6	Cloud to ground Lightning probability ( < 30% probability of lightning occurrence)
Cat7	7	Moderate rain: 5-15 mm/hr
Cat8	8	Moderate snow: 5-15 cm/hr
Cat9	9	Moderate Thunderstorms with maximum surface wind speed between 41 – 61 kmph (In gusts)
Cat10	10	Moderate dust storm: If the wind speed is between 41- 61 kmph and visibility is between 200 and 500 metres due to dust
Cat11	11	Cloud to ground Lightning probability (30 - 60% probability of lightning occurrence)
Cat12	12	Heavy rain: > 15 mm/hr
Cat13	13	Heavy snow: >15 mm/hr
Cat14	14	Severe Thunderstorms with maximum surface wind speed 62 -87 kmph (In gusts)
Cat15	15	Very Severe Thunderstorms with maximum surface wind speed > 87 kmph (In gusts)
Cat16	31	Other Warnings (Text warnings can be entered)
Cat17	32	Thunderstorms with Hail
Cat18	33	Severe dust storm: If surface wind speed (in gusts) exceeding 61 kmph and visibility is less than 200 metres due to dust
Cat19	16	Cloud to ground Lightning probability ( > 60% probability of lightning occurrence)
message	17	
toi	HHmm	time of issue of warning
Vupto	HHmm	Warning Valid upto
color	1, 2, 3 or 4	Color code as 1, 2, 3 or 4.

**Note:-** Color Code can be used for warnings as:

1 for Cat1 Color is Green (#008000)	2 for cat2 to cat6 Color is Yellow(#FFFF00)	3 for cat7 to cat11 Color is Orange (#FFA500)	4 for cat12 to cat19 Color is Red (#ff0000)
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## Districtwise Rainfall

The API can be accessed by following link

URL: [https://mausam.imd.gov.in/api/districtwise\\_rainfall\\_api.php?id=164](https://mausam.imd.gov.in/api/districtwise_rainfall_api.php?id=164)

(where 1 can be replaced by obj\_id for a particular district)

Visualize Data: <https://mausam.imd.gov.in/responsive/rainfallinformation.php>

### Sample data (Fields are self-explanatory)

```
{
  "OBJ_ID": "164",
  "District": "ADILABAD",
  "Date": "2023-01-31",
  "Daily Actual": "0.00",
  "Daily Normal": "1.70",
  "Daily Departure Per": "-100%",
  "Daily Category": "NR",
  "Week Date": "19-01-2023 To 25-01-2023",
  "Weekly Actual": "0.00",
  "Weekly Normal": "1.70",
  "Weekly Departure Per": "-100%",
  "Weekly Category": "NR",
  "Cumulative Date": "2023-01-01",
  "Cumulative Actual": "0.00",
  "Cumulative Normal": "11.60",
  "Cumulative Departure Per": "-100%",
  "Cumulative Category": "NR",
  "Monthly Date": "01-12-2022 To 31-12-2022\r",
  "Monthly Actual": "5.10",
  "Monthly Normal": "5.00",
  "Monthly Departure Per": "1%",
  "Monthly Category": "N"
},
```

**Note:-** Category used for rainfall:

- 1 Large Excess(60% or more) would be shown as **LE**
- 2 Excess(20% to 59%) would be shown as **E**
- 3 Normal(-19% to 19%) would be shown as **N**
- 4 Deficient(-59% to -20%) would be shown as **D**
- 5 Large Deficient(-99% to -60%) would be shown as **LD**
- 6 No Rain(-100%) would be shown as **NR**
- 7 No Data would be shown as **ND**

## Districtwise Warnings

The API can be accessed by following link

URL: [https://mausam.imd.gov.in/api/warnings\\_district\\_api.php?id=573](https://mausam.imd.gov.in/api/warnings_district_api.php?id=573)

Where 573 can be replaced by obj\_id for a particular district

Visualize Data: <https://mausam.imd.gov.in/responsive/districtWiseWarning.php>

Category No	Nowcast Categories Description
Obj_id	Object ID for a district.
Date	Date of Issue
UTC	Time of Issue in UTC
District	District Name
Day_1	Warning Code for Day 1. (More than 1 warning code can be added separated with ',')
Day_2	Warning Code for Day 2. (More than 1 warning code can be added separated with ',')
Day_3	Warning Code for Day 3. (More than 1 warning code can be added separated with ',')
Day_4	Warning Code for Day 4. (More than 1 warning code can be added separated with ',')
Day_5	Warning Code for Day 5. (More than 1 warning code can be added separated with ',')
Day1_Color	Color code as 1, 2, 3 or 4.
Day2_Color	Color code as 1, 2, 3 or 4.
Day3_Color	Color code as 1, 2, 3 or 4.
Day4_Color	Color code as 1, 2, 3 or 4.
Day5_Color	Color code as 1, 2, 3 or 4.

### Description of Warning Code

Warning Code	Description
1	No Warning.
2	Heavy Rain
3	Heavy Snow
4	Thunderstorm & Lightning, Squall etc
5	Hailstorm.
6	Dust Storm
7	Dust Raising Winds
8	Strong Surface Winds
9	Heat Wave
10	Hot Day
11	Warm Night
12	Cold Wave
13	Cold Day
14	Ground Frost
15	Fog
16	Very Heavy Rain
17	Extremely Heavy Rain

### Day Color Code Description

Color Code	Description	Color Code	Description
1	#FF0000 (Red)	3	#ffff00 (Yellow)
2	#ffa500 (Orange)	4	#7cfc00 (Green)

## Station-wise Nowcast

Station-wise Nowcast API can be accessed by URL:

URL: <https://mausam.imd.gov.in/api/nowcastapi.php>

Or

URL: <https://mausam.imd.gov.in/api/nowcastapi.php?id=Adilabad>

where Station can be changed to desired station.

Visualize Data: <https://mausam.imd.gov.in/responsive/stationWiseNowcast.php>

User has to provide their public IP so that same could be whitelisted at our end.

Category No	Value	Nowcast Categories Description
Station	Station name	Station name
Date	YYYY-mm-dd	Date of warning issued
Cat1	1	No Weather
Cat2	2	Light rain: < 5 mm/hr
Cat3	3	Light snow < 5cm/hr
Cat4	4	Light Thunderstorms with maximum surface wind speed less than 40 kmph (In gusts)
Cat5	5	Slight dust storm: If the wind speed is up to 41 kmph and visibility is less than 1,000 meters but more than 500 meters
Cat6	6	Cloud to ground Lightning probability ( < 30% probability of lightning occurrence)
Cat7	7	Moderate rain: 5-15 mm/hr
Cat8	8	Moderate snow: 5-15 cm/hr
Cat9	9	Moderate Thunderstorms with maximum surface wind speed between 41 – 61 kmph (In gusts)
Cat10	10	Moderate dust storm: If the wind speed is between 41- 61 kmph and visibility is between 200 and 500 metres due to dust
Cat11	11	Cloud to ground Lightning probability (30 - 60% probability of lightning occurrence)
Cat12	12	Heavy rain: > 15 mm/hr
Cat13	13	Heavy snow: >15 cm/hr
Cat14	14	Severe Thunderstorms with maximum surface wind speed 62 -87 kmph (In gusts)
Cat15	15	Very Severe Thunderstorms with maximum surface wind speed > 87 kmph (In gusts)
Cat16	31	Other Warnings (Text warnings can be entered)
Cat17	32	Thunderstorms with Hail
Cat18	33	Severe dust storm: If surface wind speed (in gusts) exceeding 61 kmph and visibility is less than 200 metres due to dust
Cat19	16	Cloud to ground Lightning probability ( > 60% probability of lightning occurrence)
message	17	
toi	HHmm	time of issue of warning
Vupto	HHmm	Warning Valid upto
color	1, 2, 3 or 4	Color code as 1, 2, 3 or 4

**Note:-** Color Code can be used for warnings as:

1 - for Cat1 Color is Green (#008000)	2 - for cat2 to cat6 Color is Yellow(#FFFF00)	3 - for cat7 to cat11 Color is Orange (#FFA500)	4 - for cat12 to cat19 Color is Red (#ff0000)
---------------------------------------	---	---	---

## Statewise Rainfall Warnings

The API can be accessed by following link

URL: [https://mausam.imd.gov.in/api/statewise\\_rainfall\\_api.php](https://mausam.imd.gov.in/api/statewise_rainfall_api.php)

or

URL: [https://mausam.imd.gov.in/api/statewise\\_rainfall\\_api.php?id=jammu](https://mausam.imd.gov.in/api/statewise_rainfall_api.php?id=jammu)

Visualize Data: [https://mausam.imd.gov.in/responsive/rainfallinformation\\_state.php](https://mausam.imd.gov.in/responsive/rainfallinformation_state.php)

### Sample data (Fields are self-explanatory)

```
{
  "State": "DADAR & NAGAR HAVELI (UT)",
  "Date": "31-05-2022",
  "Daily Actual": "0.00",
  "Daily Normal": "3.30",
  "Daily Departure Per": "-100%",
  "Daily Category": "NR",
  "Week Date": "26-05-2022 To 01-06-2022",
  "Weekly Actual": "0.00",
  "Weekly Normal": "11.00",
  "Weekly Departure Per": "-100%",
  "Weekly Category": "NR",
  "Cumulative Date": "01-03-2022 To 31-05-2022\r",
  "Cumulative Actual": "0.00",
  "Cumulative Normal": "9.00",
  "Cumulative Departue Per": "-100%",
  "Cumulative Category": "NR",
  "Monthly Date": "01-05-2022 To 31-05-2022\r",
  "Monthly Acutual": "0.00",
  "Monthly Normal": "9.00",
  "Monthly Departure Per": "-100%",
  "Monthly Category": "NR"
},
```

**Note:-** Category used for rainfall:

- 1 Large Excess(60% or more) would be shown as **LE**
- 2 Excess(20% to 59%) would be shown as **E**
- 3 Normal(-19% to 19%)) would be shown as **N**
- 4 Deficient(-59% to -20%) would be shown as **D**
- 5 Large Deficient(-99% to -60%) would be shown as **LD**
- 6 No Rain(-100%) would be shown as **NR**
- 7 No Data would be shown as **ND**

## AWS/ARG

API can be accessed by URL:

URL: [https://city.imd.gov.in/api/aws\\_data\\_api.php?id=NDL](https://city.imd.gov.in/api/aws_data_api.php?id=NDL) (where ID can be changed) Or URL: [https://city.imd.gov.in/api/aws\\_data\\_api.php](https://city.imd.gov.in/api/aws_data_api.php) (For all stations data)

URL: [https://city.imd.gov.in/api/aws\\_data\\_api.php?sid=7](https://city.imd.gov.in/api/aws_data_api.php?sid=7) (For state wise where sid is state id)

User has to provide their public IP so that same could be whitelisted at our end.

### Sample data (Fields are self-explanatory)

**State ID :**

```
{
  "ID": "B48970CA",
  "CALL_SIGN": "NDL",
  "DISTRICT": "NEW_DELHI",
  "STATE": "DELHI",
  "STATION": "LODI/ROAD",
  "DATE": "2024-06-06",
  "TIME": "07:00:00",
  "CURR_TEMP": "40.8",
  "DEW_POINT_TEMP": "13.7",
  "RH": "20",
  "WIND_DIRECTION": "189",
  "WIND_SPEED": "1",
  "MSLP": "1003.0",
  "MIN_TEMP": "39.9",
  "MAX_TEMP": "40.9",
  "Latitude": "28.5885",
  "Longitude": "77.2224",
  "WEATHER_CODE": "5",
  "NEBULOSITY": "4",
  "Feel Like": "40.5"
},
  "Explanation": {
    "ID -> AWS Station ID",
    "Call_sign -> Unique Short Code ID",
    "TIME -> time in UTC",
    "RH -> Humidity",
    "WIND_DIRECTION -> Same Unit as current_wx_api.php",
    "WIND_SPEED -> Same Unit as current_wx_api.php",
    "MSLP -> Mean Sea Level Pressure in hPa",
    "WEATHER_CODE -> Same as current_wx_api.php",
    "WEATHER_CODE -> Same as current_wx_api.php",
    "Feel Like -> Real Feel Temperature / Heat Index (in Winter called as Chill Index)",
    "Note: aws_data_api_new.php is alternative API of aws_data_api.php",
    "*** aws_data_api_new.php has two extra fields i.e. RAINFALL_SEL -> Last 15 Min Rainfall RAINFALL -> Cumulative Rainfall from 03 UTC to till now."
  },
  "State ID": {
    "1": "TELANGANA",
    "2": "ANDHRA PRADESH",
    "3": "HIMACHAL PRADESH",
    "4": "KERALA",
    "5": "UTTAR PRADESH",
    "6": "MEGHALAYA",
    "7": "DELHI",
    "8": "RAJASTHAN",
    "9": "GUJARAT",
    "10": "ODISHA",
    "11": "BIHAR",
    "12": "CHHATTISGARH",
    "13": "KARNATAKA",
    "14": "MIZORAM",
    "15": "JHARKHAND",
    "16": "TRIPURA",
    "17": "CHANDIGARH",
    "18": "JAMMU AND KASHMIR",
    "19": "GOA",
    "20": "SIKKIM",
    "21": "MAHARASHTRA",
    "22": "HARYANA",
    "23": "LADAKH",
    "24": "ASSAM",
    "25": "TAMIL NADU",
    "26": "WEST BENGAL",
    "27": "MAHARASHTRA",
    "28": "ARUNACHAL PRADESH",
    "29": "LAKSHADWEEP",
    "30": "MANIPUR",
    "31": "UTTARAKHAND",
    "32": "NAGALAND",
    "33": "PUDUCHERRY",
    "34": "PUNJAB",
    "35": "ANDAMAN AND NICOBAR",
    "36": "DAMAN AND DIU"
  }
}
```

## River Basin (Quantitative Precipitation Forecast)

Port Warning API can be accessed by URL:

URL: [https://mausam.imd.gov.in/api/basin\\_qpf\\_api.php?id=100](https://mausam.imd.gov.in/api/basin_qpf_api.php?id=100) (where ID can be changed)

Or

URL: [https://mausam.imd.gov.in/api/basin\\_qpf\\_api.php](https://mausam.imd.gov.in/api/basin_qpf_api.php) (For all stations data)

Visualize Data: <https://mausam.imd.gov.in/responsive/quantPrecipForecast.php>

User has to provide their public IP so that same could be whitelisted at our end.

Field	Description
Obj_Id	ID is unique for each basin.
Date	Date of issue in YYYY-mm-dd
FMO	Name of Flood Met Office
Basin	Name of river basin
SubBasin	Name of Sub-basin
Area (Sq. Km.)	Area of Basin
Day1	Forecast for Day-1
Day2	Forecast for Day-2
Day3	Forecast for Day-3
Day4	Forecast for Day-4
Day5	Forecast for Day-5
AAP	Average Areal Precipitation



## Port Warning

Port Warning API can be accessed by URL:

URL: [https://mausam.imd.gov.in/api/port\\_wx\\_api.php?id=Port Id](https://mausam.imd.gov.in/api/port_wx_api.php?id=Port Id) where Port ID can be changed.

Or

URL: [https://mausam.imd.gov.in/api/port\\_wx\\_api.php](https://mausam.imd.gov.in/api/port_wx_api.php) (For all stations data)

Visualize Data: <https://rsmcnewdelhi.imd.gov.in/port-warning.php>

User has to provide their public IP so that same could be whitelisted at our end.

Field	Description
Port Id	Port ID is unique for each port.
Port Name	Port name
Issued By	Issued by CWC or ACWC
Date of Issue	Date of issue in YYYY-mm-dd
Warning	Warning

## Coastal Bulletin

The API can be accessed by URL:

URL: [https://mausam.imd.gov.in/api/coastal\\_bulletin\\_api.php](https://mausam.imd.gov.in/api/coastal_bulletin_api.php)

Or

URL: [https://mausam.imd.gov.in/api/coastal\\_bulletin\\_api.php?id=108](https://mausam.imd.gov.in/api/coastal_bulletin_api.php?id=108) (where id can be changed)

Visualize Data: [https://mausam.imd.gov.in/responsive/coastal\\_forecast.php](https://mausam.imd.gov.in/responsive/coastal_forecast.php)

User has to provide their public IP so that same could be whitelisted at our end.

**Sample: (Fields are self-explanatory)**

```
[ {
    "Id": "108",
    "Date of Observation": "2023-03-28",
    "Layer": "South Tamilnadu coast",
    "Issued by": "ACWC CHENNAI",
    "Valid From": "2023-03-28 22:00:00",
    "Validity": "12",
    "TTT Warning": "",
    "Wind": "South Westerly/ South Easterly, 10 - 15 Knots ",
    "Synoptic Situation": "NIL",
    "Weather": "Isolated Rain/ Thunderstorm ",
    "Visibility": "Good Becoming Poor ",
    "Sea Condition": "Smooth to Slight",
    "Port Signal": "NIL at all Ports",
    "Update Time": "2023-03-28 22:27:17"
}]
```

## Sea Area Bulletin

The API can be accessed by URL:

URL: [https://mausam.imd.gov.in/api/seaarea\\_bulletin\\_api.php](https://mausam.imd.gov.in/api/seaarea_bulletin_api.php)

Or

URL: [https://mausam.imd.gov.in/api/seaarea\\_bulletin\\_api.php?id=108](https://mausam.imd.gov.in/api/seaarea_bulletin_api.php?id=108) (where id can be changed)

Visualize Data: [https://mausam.imd.gov.in/responsive/marine\\_forecast.php](https://mausam.imd.gov.in/responsive/marine_forecast.php)

User has to provide their public IP so that same could be whitelisted at our end.

**Sample: (Fields are self-explanatory)**

```
[{
    "Id": "109",
    "Date of Observation": "2023-03-28",
    "Layer": "South West Bay ",
    "Issued by": "ACWC KOLKATA",
    "Valid From": "2023-03-28 21:00:00",
    "Validity": "12",
    "TTT Warning": "NIL",
    "Wind": "East/ South Easterly, 5 - 10 Knots ",
    "Synoptic Situation": "Weather seasonal over bay of bengal and andaman sea.",
    "Weather": "Isolated Rain/ Thunderstorm ",
    "Visibility": "Good Becoming Moderate ",
    "Sea Condition": "Smooth to Smooth",
    "Part 4": "NIL",
    "Part 5": "NIL",
    "Part 6": "nil",
    "Update Time": "2023-03-28 20:40:07"
}]
```

## Subdivisional APIs

The API can be accessed by URL:

URL: [https://mausam.imd.gov.in/api/api\\_5d\\_subdivisional\\_rf.php](https://mausam.imd.gov.in/api/api_5d_subdivisional_rf.php)

URL: [https://mausam.imd.gov.in/api/api\\_5d\\_statewisedistricts\\_rf\\_forecast.php](https://mausam.imd.gov.in/api/api_5d_statewisedistricts_rf_forecast.php)

URL: [https://mausam.imd.gov.in/api/api\\_subDivisionWiseWarning.php](https://mausam.imd.gov.in/api/api_subDivisionWiseWarning.php)

### Sample: (Rainfall Forecast) ----- Fields are self-explanatory

User has to provide their public IP so that same could be whitelisted at our end.

```
[ {  
    "date_obs": "2023-09-17",  
    "Obj_id": "747",  
    "District": "TIRUPATHI",  
    "State": "ANDHRA PRADESH",  
    "day1_color": "#4dff4d",  
    "day1_distribution": "Isolated",  
    "day1_distribution_percentage": "Stations [1-25]%",  
    "day2_color": "#4dff4d",  
    "day2_distribution": "Isolated",  
    "day2_distribution_percentage": "Stations [1-25]%",  
    "day3_color": "#00b31e",  
    "day3_distribution": "Scattered",  
    "day3_distribution_percentage": "Stations [26-50]%",  
    "day4_color": "#00b31e",  
    "day4_distribution": "Scattered",  
    "day4_distribution_percentage": "Stations [26-50]%",  
    "day5_color": "#00b31e",  
    "day5_distribution": "Scattered",  
    "day5_distribution_percentage": "Stations [26-50]%"  
}]
```

### Sample: (Rainfall Distribution) ----- Fields are self-explanatory

```
[ {  
    "date_obs": "2023-09-18",  
    "SUBDIV": "Andaman & Nicobar Islands",  
    "day1_color": "#004de6",  
    "day1_distribution": "Widespread",  
    "day1_distribution_percentage": "Stations [76-100]%",  
    "day2_color": "#004de6",  
    "day2_distribution": "Widespread",  
    "day2_distribution_percentage": "Stations [76-100]%",  
    "day3_color": "#66FFFF",  
    "day3_distribution": "Fairly Widespread",  
    "day3_distribution_percentage": "Stations [51-75]%",  
    "day4_color": "#66FFFF",  
}]
```

```

    "day4_distribution": "Fairly Widespread",
    "day4_distribution_percentage": "Stations [51-75]%",
    "day5_color": "#66FFFF",
    "day5_distribution": "Fairly Widespread",
    "day5_distribution_percentage": "Stations [51-75]%"
  }}

```

**Sample: (Subdivisional Warnings) ----- Fields are self-explanatory**

```

[ {
  "date_obs": "2023-09-18",
  "SUBDIV": "Gangetic West Bengal",
  "day1_color": "#FFFF00",
  "day1_warning": "Heavy Rain and Thunderstorm & Lightning",
  "day2_color": "#FFFF00",
  "day2_warning": "Thunderstorm & Lightning",
  "day3_color": "#FFFF00",
  "day3_warning": "Thunderstorm & Lightning",
  "day4_color": "#FFFF00",
  "day4_warning": "Heavy Rain",
  "day5_color": "#FFFF00",
  "day5_warning": "Heavy Rain"
} ]

```