SAFAR forecasted levels (upto next 3 days) of air quality for Pune Region is based on high-resolution atmospheric chemistry transport prediction model on supercomputer with a feedback of 10 air quality Monitoring stations in and around PUNE. All data presented here are 24hr Average for which NAQI is provided. Forecast will be updated every 24hr for better accuracy with latest input.

**Highlights:**

1. On Diwali day PM2.5 was recorded to be 82.75µg/m³ which falls under MODERATE category of AQI and on post Diwali Day it is recorded to be 138.59 µg/m³ which falls under Very poor category of AQI. On Diwali Day there was around 2°C drop in the minimum temperature as compared to previous days. This drop in the minimum temperature along with calm winds resulted in the accumulation of pollutants emitted from firecrackers.

2. The highest levels of PM10 and PM2.5 were recorded between 10PM to 3AM on the night of 19-20, October.

3. Air quality is likely to improve from 22nd October.

4. **MOST POLLUTED TO CLEANEST AREA in Pune:**

   1. Katraj -HIGHEST Pollution
   2. Shivajinagar
   3. Hadapsar
   4. Lohegaon
   5. Bhumkar Chowk
   6. Alandi
   7. Bhosari
   8. Nigdi
   9. Manjri
   10. Pashan - LEAST Pollution

====================
<table>
<thead>
<tr>
<th>SAFAR- 3 Day-WIND SPEED and WIND DIERCTION Forecast</th>
<th>21st Oct</th>
<th>22nd Oct</th>
<th>23rd Oct</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIND DIRECTION</td>
<td>SW</td>
<td>SW</td>
<td>SW</td>
</tr>
<tr>
<td>WIND SPEED (km/h)</td>
<td>1.6</td>
<td>1.4</td>
<td>1.5</td>
</tr>
<tr>
<td>R. HUMIDITY (%)</td>
<td>49</td>
<td>48</td>
<td>60</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SAFAR-AQ 3 Day-Forecast (updated 24h @ 5PM IST)</th>
<th>21st Oct</th>
<th>22nd Oct</th>
<th>23rd Oct</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR QUALITY INDEX (AQI)</td>
<td>203</td>
<td>90</td>
<td>82</td>
</tr>
</tbody>
</table>

Please Credit to: SAFAR@MoES-IITM-IMD

*Note: AQI is a unit less number

### Advisory

<table>
<thead>
<tr>
<th>Air Quality Index (AQI)</th>
<th>Health Advisory (Cautions)</th>
<th>Health Effect Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Satisfactory (51-100)</td>
<td>Air pollution poses little or no risk.</td>
<td>Minor breathing discomfort to sensitive people</td>
</tr>
<tr>
<td>Poor (201-300)</td>
<td>People with heart or lung disease, older adults, and children should reduce prolonged or heavy exertion and outdoor activity.</td>
<td>Increasing likelihood of respiratory symptoms in sensitive individuals. Children and elderly at risk. Everyone may begin to experience some level of discomfort.</td>
</tr>
</tbody>
</table>
Pune PM2.5 ($\mu g/m^3$) - 2017

SAFAR@MoES-IITM-IMD

V. Poor
Poor
Moderate
Good
Satisfactory

Wind Speed (km/hr)
Temp (°C)
PM2.5 ($\mu g/m^3$)

DD - Diwali Day (19th Oct)

Wind Speed

Pune PM2.5 ($\mu g/m^3$) - Comparison of 2015 vs 2016 vs 2017

SAFAR@MoES-IITM-IMD

V. Poor
Poor
Moderate
Good
Satisfactory

2015
2016
2017

DD - Diwali Day

DD(2015) = 11th Nov
DD(2016) = 30th Oct
DD(2017) = 19th Oct

Note:
D-5 means five days prior to DD
D+5 means five days after DD