

# SAFAR-India (Delhi)

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Ministry of Earth Sciences

## Air Quality Forecast-DELHI CITY (ISSUED on 13<sup>th</sup> November 2018)

### AT A GLANCE:

TODAY'S AIR QUALITY INDEX IS "VERY POOR". RECOVERY IS VERY SLOW DUE TO CALM WIND CONDITIONS WHICH DID INCREASE MARGINALLY SINCE YESTERDAY. THERE IS A PREDICTION OF CLOUDY SKY WHICH SOMETIME BRINGS SPORADIC SHOWER. HOWEVER, SUCH ISOLATED SHOWER OFTEN AGGRAVATE AIR POLLUTION POST EVENT UNLESS SPELL IS LONGER AND WIDESPREAD. IT INTRODUCES LOT OF MOISTURE IN THE AIR AND MAKE IT HEAVY TO HOLD MORE PARTICULATE MATTERS. THIS PHENOMENON IS LIKELY TO KEEP AQI LEVEL AT PRESENT LEVEL (UPPER END OF VERY POOR) UNDER CONTROLLED SCENARIO (MEASURES) FOR NEXT 2 DAYS. FIRE COUNTS (STUBBLE) HAVE REDUCED SIGNIFICANTLY AND WITH LOW UPPER AIR WINDS, UNLIKELY TO IMPACT DELHI.

- **MOISTURE IN AIR:** HIGH. Air holding capacity may increase
- **RELATIVE HUMIDITY:** High
- **SURFACE WIND SPEED:** Slow–Favours slow dispersion
- **SURFACE WIND DIRECTION:** Southerly: Not immediate Impact on pollution
- **INVERSION LAYER HEIGHT:** Moderate
- **VENTILATION COEFF (IMPACT):** –Moderate-Slow Dispersion
- **TEMPERATURE:** May Cool down
- **LARGE SCALE DUST IMPACT:** NIL
- **STUBBLE TRANSPORT LEVEL:** Low fire count with very weak winds (North-westerlies) –Unlikely to impact Delhi Air significantly.
- **STUBBLE FIRE SHARE:** Low (5%).



