

GOVERNMENT OF INDIA  
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 1329**  
TO BE ANSWERED ON 30.07.2026

**Pollution in Delhi NCR**

1329. DR. V. SIVADASAN:

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE be pleased to state:

- (a) the average AQI and other pollution indicators in each quarter of last five years;
- (b) whether Government was able to analyse the causes behind the high scale pollution in Delhi;
- (c) the steps taken to deal with the issue;
- (d) whether any noticeable progress has been achieved so far; and
- (e) if not, the reasons therefor?

**ANSWER**

MINISTER OF STATE IN THE MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE  
(SHRI KIRTI VARDHAN SINGH)

**(a) to (e):** Air Pollution in Delhi - National Capital Region (NCR) is the collective result of multiple anthropogenic factors vehicular and industrial emissions, dust from construction & demolition activities, roads and open areas, burning of biomass and municipal solid waste, landfill fires and other dispersed sources - compounded by adverse meteorological conditions. Details of Air Quality Index (AQI), PM10 levels and PM2.5 levels during last five years are provided at **Annexure-I**.

As per the recent study published by the Commission for Air Quality Management in NCR and Adjoining Areas (CAQM) on 'Identification of the causes for worsening AQI in Delhi-NCR', the following sources within NCR and beyond have been identified for contributing to PM2.5 concentrations in Delhi:

| Source                                                                                                          | Winter Range (%) | Summer Range (%) |
|-----------------------------------------------------------------------------------------------------------------|------------------|------------------|
| Transport                                                                                                       | 19-24            | 18-21            |
| Industry<br>(includes TPPs)                                                                                     | 8-10             | 9-15             |
| Dust<br>(Road, Soil and Construction & Demolition activities)                                                   | 10-18            | 25-31            |
| Biomass Burning (includes Municipal Solid Waste, residential, crop-residue burning)                             | 17-23            | 11-14            |
| Secondary Particulate<br>(transformed from gaseous emissions from Transport, Industries, Biomass burning, etc.) | 24-28            | 16-19            |

To address air pollution in Delhi-NCR, the Government has established the Commission for Air Quality Management (CAQM) under the Commission for Air Quality Management in NCR and Adjoining Areas Act, 2021 for protecting and improving air quality. A comprehensive policy detailing sector-wise actions/interventions and quantified targets and staggered timelines (short-term, medium-term and long-term) was formulated and issued in July, 2022, to various stakeholders including Central Government Ministries/Departments, NCR State Governments, GNCTD and Government of Punjab for necessary action and implementation.

CAQM has so far issued 101 Statutory Directions and 17 Advisories/executive orders to the Governments of NCR States/GNCTD and the agencies concerned, and their implementation is rigorously monitored through periodic progress reviews and follow-up orders and directions.

All NCR States have prepared short term and long-term action plan for control of air pollution covering sectoral interventions relating to vehicular pollution, road and construction dust, industrial emissions, waste management and stubble burning. The Government regularly reviews and monitors the actions taken to address air pollution including stubble burning related issues in Delhi-NCR and adjoining areas which requires "Whole of Government" and "Whole of Society" approach.

Due to these coordinated efforts, the number of good air quality days (AQI<200) in Delhi has increased from 110 days in 2016 to 200 days in 2025. Annual PM10 levels have reduced by 32% from 290 µg/m3 in 2016 to 197 µg/m3 in 2025.

Details of the measures taken by the Government to address air pollution in Delhi-NCR are enclosed at **Annexure II**.

## Annexure I

## Average PM10 and PM2.5 values in Delhi during last 5 years

| Parameters         | 2021 | 2022 | 2023 | 2024 | 2025 |
|--------------------|------|------|------|------|------|
| Avg PM 2.5 (µg/m3) | 105  | 98   | 100  | 105  | 97   |
| Avg PM 10 (µg/m3)  | 211  | 211  | 206  | 212  | 198  |

## Details of month-wise Air Quality Index (AQI) recorded in Delhi during last five years

| Air Quality Index of Delhi - 2021 |     |     |     |     |     |      |      |     |      |     |     |     |
|-----------------------------------|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| Day                               | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| 1                                 | 441 | 352 | 177 | 182 | 238 | 115  | 266  | 81  | 64   | 108 | 281 | 370 |
| 2                                 | 443 | 364 | 175 | 176 | 174 | 143  | 245  | 95  | 64   | 125 | 303 | 429 |
| 3                                 | 354 | 330 | 188 | 159 | 245 | 159  | 139  | 71  | 70   | 105 | 314 | 346 |
| 4                                 | 151 | 316 | 278 | 171 | 173 | 196  | 140  | 69  | 68   | 91  | 382 | 362 |
| 5                                 | 140 | 133 | 255 | 205 | 175 | 124  | 149  | 99  | 88   | 115 | 462 | 305 |
| 6                                 | 226 | 199 | 204 | 279 | 156 | 134  | 144  | 104 | 122  | 114 | 437 | 322 |
| 7                                 | 255 | 232 | 256 | 250 | 142 | 180  | 178  | 101 | 98   | 127 | 428 | 255 |
| 8                                 | 234 | 303 | 207 | 153 | 173 | 205  | 164  | 109 | 70   | 167 | 390 | 237 |
| 9                                 | 301 | 305 | 283 | 170 | 166 | 305  | 144  | 101 | 75   | 171 | 404 | 289 |
| 10                                | 245 | 291 | 175 | 181 | 136 | 221  | 97   | 101 | 79   | 168 | 372 | 314 |
| 11                                | 243 | 330 | 242 | 186 | 151 | 145  | 94   | 122 | 61   | 166 | 411 | 281 |
| 12                                | 293 | 341 | 218 | 241 | 115 | 133  | 90   | 114 | 60   | 179 | 471 | 254 |
| 13                                | 354 | 334 | 209 | 231 | 121 | 83   | 80   | 118 | 89   | 171 | 437 | 331 |
| 14                                | 429 | 351 | 209 | 199 | 132 | 124  | 83   | 116 | 69   | 182 | 330 | 367 |
| 15                                | 460 | 313 | 206 | 220 | 140 | 113  | 83   | 114 | 70   | 198 | 353 | 363 |
| 16                                | 407 | 327 | 258 | 238 | 166 | 115  | 90   | 121 | 79   | 284 | 403 | 368 |
| 17                                | 347 | 324 | 311 | 128 | 191 | 108  | 117  | 150 | 62   | 298 | 375 | 329 |
| 18                                | 372 | 302 | 315 | 154 | 93  | 81   | 94   | 152 | 69   | 46  | 347 | 291 |
| 19                                | 404 | 311 | 279 | 187 | 78  | 70   | 62   | 167 | 82   | 69  | 380 | 271 |
| 20                                | 283 | 250 | 234 | 191 | 58  | 62   | 81   | 111 | 82   | 221 | 374 | 332 |
| 21                                | 296 | 296 | 244 | 134 | 85  | 84   | 74   | 69  | 83   | 199 | 349 | 402 |
| 22                                | 364 | 288 | 196 | 140 | 94  | 127  | 83   | 59  | 69   | 170 | 311 | 407 |
| 23                                | 326 | 250 | 244 | 126 | 237 | 218  | 68   | 82  | 68   | 173 | 290 | 423 |
| 24                                | 364 | 278 | 175 | 125 | 169 | 146  | 99   | 100 | 64   | 160 | 361 | 415 |
| 25                                | 323 | 298 | 148 | 192 | 140 | 163  | 107  | 115 | 80   | 82  | 400 | 431 |
| 26                                | 330 | 229 | 150 | 256 | 149 | 135  | 86   | 114 | 75   | 139 | 406 | 459 |
| 27                                | 318 | 203 | 199 | 284 | 150 | 168  | 98   | 134 | 108  | 232 | 402 | 283 |
| 28                                | 357 | 208 | 233 | 312 | 106 | 161  | 61   | 147 | 120  | 268 | 405 | 305 |
| 29                                | 387 |     | 225 | 296 | 87  | 195  | 63   | 119 | 81   | 283 | 389 | 267 |
| 30                                | 309 |     | 232 | 287 | 101 | 206  | 76   | 81  | 84   | 268 | 328 | 286 |
| 31                                | 289 |     | 203 |     | 135 |      | 57   | 73  |      | 289 |     | 321 |

| Air Quality Index of Delhi - 2022 |     |     |     |     |     |      |      |     |      |     |     |     |
|-----------------------------------|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| Day                               | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| 1                                 | 362 | 347 | 170 | 218 | 256 | 322  | 76   | 71  | 121  | 186 | 424 | 368 |

|     | Air Quality Index of Delhi - 2022 |     |     |     |     |      |      |     |      |     |     |     |
|-----|-----------------------------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| Day | Jan                               | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| 2   | 404                               | 319 | 225 | 226 | 218 | 202  | 95   | 84  | 110  | 181 | 376 | 352 |
| 3   | 387                               | 321 | 178 | 245 | 227 | 240  | 76   | 122 | 119  | 128 | 450 | 370 |
| 4   | 378                               | 152 | 199 | 262 | 269 | 227  | 113  | 112 | 115  | 150 | 447 | 407 |
| 5   | 397                               | 224 | 115 | 233 | 146 | 215  | 161  | 72  | 102  | 211 | 381 | 347 |
| 6   | 258                               | 285 | 162 | 248 | 273 | 195  | 104  | 98  | 119  | 79  | 339 | 353 |
| 7   | 182                               | 250 | 237 | 264 | 206 | 280  | 100  | 118 | 133  | 55  | 354 | 304 |
| 8   | 91                                | 270 | 283 | 242 | 205 | 346  | 94   | 84  | 136  | 56  | 372 | 281 |
| 9   | 69                                | 227 | 162 | 261 | 171 | 223  | 110  | 112 | 141  | 48  | 260 | 314 |
| 10  | 151                               | 172 | 150 | 244 | 160 | 303  | 71   | 102 | 110  | 44  | 295 | 360 |
| 11  | 224                               | 184 | 164 | 258 | 156 | 256  | 95   | 75  | 85   | 66  | 346 | 306 |
| 12  | 191                               | 191 | 160 | 229 | 164 | 249  | 100  | 88  | 84   | 143 | 303 | 218 |
| 13  | 321                               | 253 | 193 | 286 | 176 | 200  | 79   | 80  | 72   | 130 | 303 | 177 |
| 14  | 348                               | 239 | 231 | 280 | 270 | 222  | 87   | 84  | 71   | 154 | 294 | 163 |
| 15  | 258                               | 221 | 253 | 201 | 242 | 153  | 79   | 62  | 57   | 186 | 227 | 189 |
| 16  | 264                               | 272 | 218 | 253 | 297 | 132  | 81   | 63  | 47   | 232 | 264 | 223 |
| 17  | 327                               | 241 | 218 | 251 | 239 | 88   | 61   | 60  | 70   | 237 | 260 | 304 |
| 18  | 352                               | 252 | 293 | 257 | 251 | 79   | 92   | 72  | 119  | 241 | 289 | 353 |
| 19  | 322                               | 180 | 231 | 317 | 202 | 99   | 105  | 71  | 182  | 234 | 280 | 410 |
| 20  | 387                               | 173 | 242 | 277 | 266 | 124  | 98   | 80  | 130  | 232 | 314 | 366 |
| 21  | 365                               | 165 | 271 | 296 | 285 | 128  | 70   | 117 | 109  | 262 | 310 | 328 |
| 22  | 316                               | 252 | 180 | 204 | 203 | 139  | 140  | 104 | 66   | 265 | 255 | 342 |
| 23  | 202                               | 211 | 206 | 245 | 136 | 140  | 72   | 83  | 57   | 259 | 237 | 359 |
| 24  | 241                               | 307 | 280 | 261 | 89  | 197  | 72   | 63  | 54   | 312 | 213 | 349 |
| 25  | 234                               | 286 | 211 | 244 | 166 | 230  | 67   | 96  | 52   | 302 | 294 | 308 |
| 26  | 260                               | 102 | 207 | 209 | 199 | 169  | 69   | 113 | 100  | 271 | 336 | 331 |
| 27  | 262                               | 92  | 195 | 287 | 206 | 127  | 74   | 105 | 108  | 354 | 328 | 339 |
| 28  | 215                               | 107 | 251 | 295 | 210 | 137  | 68   | 119 | 140  | 357 | 333 | 321 |
| 29  | 251                               |     | 274 | 299 | 273 | 163  | 71   | 144 | 151  | 397 | 369 | 306 |
| 30  | 278                               |     | 276 | 270 | 201 | 116  | 58   | 116 | 173  | 352 | 365 | 399 |
| 31  | 338                               |     | 298 |     | 215 |      | 71   | 124 |      | 392 |     | 349 |

|     | Air Quality Index of Delhi - 2023 |     |     |     |     |      |      |     |      |     |     |     |
|-----|-----------------------------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| Day | Jan                               | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| 1   | 259                               | 164 | 181 | 106 | 91  | 96   | 69   | 92  | 140  | 147 | 364 | 372 |
| 2   | 357                               | 194 | 226 | 128 | 76  | 120  | 71   | 91  | 136  | 146 | 392 | 353 |
| 3   | 385                               | 199 | 152 | 179 | 107 | 121  | 118  | 75  | 136  | 155 | 468 | 314 |
| 4   | 343                               | 242 | 129 | 109 | 113 | 171  | 144  | 105 | 136  | 176 | 415 | 310 |
| 5   | 340                               | 244 | 142 | 135 | 183 | 166  | 96   | 85  | 121  | 177 | 454 | 297 |
| 6   | 400                               | 265 | 142 | 142 | 234 | 139  | 72   | 101 | 106  | 212 | 421 | 286 |
| 7   | 377                               | 285 | 173 | 142 | 173 | 239  | 77   | 102 | 104  | 216 | 395 | 320 |
| 8   | 375                               | 144 | 215 | 172 | 131 | 161  | 71   | 110 | 83   | 164 | 426 | 324 |
| 9   | 434                               | 212 | 119 | 217 | 197 | 152  | 64   | 118 | 54   | 175 | 437 | 321 |
| 10  | 407                               | 187 | 187 | 195 | 203 | 134  | 65   | 133 | 45   | 180 | 279 | 314 |
| 11  | 308                               | 275 | 200 | 260 | 274 | 130  | 69   | 123 | 53   | 193 | 220 | 317 |
| 12  | 371                               | 175 | 216 | 213 | 227 | 169  | 77   | 126 | 89   | 220 | 218 | 355 |

|     | Air Quality Index of Delhi - 2023 |     |     |     |     |      |      |     |      |     |     |     |
|-----|-----------------------------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| Day | Jan                               | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| 13  | 378                               | 135 | 231 | 211 | 235 | 205  | 77   | 105 | 106  | 256 | 358 | 378 |
| 14  | 353                               | 132 | 219 | 249 | 259 | 213  | 73   | 114 | 123  | 257 | 397 | 326 |
| 15  | 213                               | 190 | 213 | 235 | 162 | 154  | 100  | 108 | 101  | 233 | 398 | 323 |
| 16  | 270                               | 270 | 259 | 229 | 259 | 119  | 69   | 109 | 85   | 207 | 419 | 354 |
| 17  | 288                               | 367 | 188 | 206 | 336 | 119  | 85   | 131 | 65   | 89  | 405 | 331 |
| 18  | 306                               | 371 | 184 | 235 | 149 | 90   | 113  | 153 | 63   | 129 | 319 | 330 |
| 19  | 338                               | 331 | 162 | 236 | 152 | 75   | 77   | 125 | 73   | 121 | 301 | 286 |
| 20  | 226                               | 324 | 154 | 159 | 186 | 104  | 93   | 91  | 97   | 195 | 348 | 285 |
| 21  | 294                               | 245 | 75  | 129 | 215 | 91   | 109  | 91  | 114  | 248 | 372 | 361 |
| 22  | 407                               | 302 | 164 | 141 | 199 | 110  | 95   | 106 | 103  | 313 | 395 | 409 |
| 23  | 335                               | 227 | 151 | 118 | 198 | 132  | 73   | 71  | 110  | 263 | 390 | 450 |
| 24  | 237                               | 171 | 205 | 160 | 158 | 169  | 77   | 85  | 134  | 220 | 415 | 411 |
| 25  | 160                               | 225 | 78  | 156 | 106 | 71   | 102  | 117 | 118  | 243 | 389 | 383 |
| 26  | 298                               | 291 | 164 | 210 | 98  | 93   | 73   | 152 | 152  | 256 | 396 | 377 |
| 27  | 229                               | 260 | 146 | 219 | 110 | 86   | 92   | 186 | 129  | 261 | 395 | 380 |
| 28  | 236                               | 219 | 147 | 150 | 134 | 93   | 81   | 144 | 137  | 304 | 312 | 358 |
| 29  | 331                               |     | 198 | 216 | 136 | 101  | 59   | 162 | 156  | 325 | 290 | 382 |
| 30  | 207                               |     | 170 | 132 | 115 | 70   | 65   | 154 | 166  | 347 | 398 | 400 |
| 31  | 192                               |     | 73  |     | 85  |      | 89   | 146 |      | 359 |     | 382 |

|     | Air Quality Index of Delhi - 2024 |     |     |     |     |      |      |     |      |     |     |     |
|-----|-----------------------------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| Day | Jan                               | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| 1   | <b>346</b>                        | 177 | 208 | 133 | 198 | 245  | 105  | 64  | 99   | 151 | 339 | 285 |
| 2   | <b>340</b>                        | 217 | 117 | 144 | 196 | 173  | 118  | 75  | 86   | 174 | 316 | 280 |
| 3   | <b>341</b>                        | 200 | 161 | 165 | 264 | 155  | 108  | 67  | 88   | 162 | 382 | 268 |
| 4   | <b>377</b>                        | 274 | 140 | 171 | 281 | 210  | 61   | 62  | 69   | 183 | 381 | 178 |
| 5   | <b>333</b>                        | 180 | 126 | 173 | 291 | 248  | 77   | 58  | 83   | 145 | 373 | 165 |
| 6   | <b>320</b>                        | 141 | 138 | 167 | 247 | 181  | 65   | 60  | 94   | 143 | 352 | 197 |
| 7   | <b>333</b>                        | 175 | 181 | 178 | 302 | 228  | 56   | 60  | 70   | 126 | 377 | 233 |
| 8   | <b>345</b>                        | 161 | 156 | 190 | 225 | 234  | 56   | 53  | 91   | 167 | 380 | 302 |
| 9   | <b>343</b>                        | 145 | 145 | 200 | 178 | 180  | 84   | 60  | 117  | 164 | 352 | 186 |
| 10  | <b>273</b>                        | 295 | 182 | 222 | 180 | 171  | 138  | 71  | 106  | 132 | 334 | 234 |
| 11  | <b>348</b>                        | 313 | 200 | 238 | 239 | 221  | 113  | 69  | 71   | 141 | 352 | 199 |
| 12  | <b>340</b>                        | 301 | 191 | 231 | 183 | 211  | 107  | 56  | 64   | 155 | 334 | 288 |
| 13  | <b>399</b>                        | 342 | 165 | 196 | 227 | 193  | 102  | 65  | 52   | 224 | 418 | 262 |
| 14  | <b>447</b>                        | 341 | 195 | 140 | 234 | 189  | 107  | 79  | 62   | 234 | 424 | 193 |
| 15  | <b>359</b>                        | 279 | 127 | 204 | 243 | 186  | 109  | 71  | 107  | 198 | 396 | 294 |
| 16  | <b>371</b>                        | 269 | 167 | 227 | 235 | 197  | 100  | 64  | 139  | 230 | 417 | 379 |
| 17  | <b>368</b>                        | 245 | 193 | 145 | 231 | 169  | 90   | 74  | 172  | 285 | 441 | 433 |
| 18  | <b>318</b>                        | 269 | 199 | 163 | 261 | 196  | 95   | 82  | 115  | 292 | 494 | 445 |
| 19  | <b>348</b>                        | 231 | 221 | 183 | 243 | 306  | 124  | 83  | 56   | 278 | 460 | 451 |
| 20  | <b>329</b>                        | 226 | 229 | 217 | 226 | 176  | 109  | 66  | 96   | 277 | 419 | 429 |
| 21  | <b>349</b>                        | 245 | 170 | 138 | 239 | 175  | 103  | 85  | 116  | 310 | 371 | 370 |
| 22  | <b>333</b>                        | 150 | 166 | 127 | 193 | 189  | 85   | 84  | 164  | 327 | 393 | 409 |
| 23  | <b>368</b>                        | 142 | 232 | 188 | 156 | 148  | 93   | 76  | 167  | 364 | 412 | 406 |

|     | Air Quality Index of Delhi - 2024 |     |     |     |     |      |      |     |      |     |     |     |
|-----|-----------------------------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| Day | Jan                               | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| 24  | 409                               | 192 | 194 | 178 | 156 | 142  | 97   | 106 | 197  | 306 | 318 | 369 |
| 25  | 332                               | 192 | 197 | 199 | 168 | 139  | 109  | 77  | 235  | 270 | 349 | 336 |
| 26  | 409                               | 170 | 134 | 195 | 190 | 136  | 84   | 70  | 97   | 255 | 343 | 345 |
| 27  | 357                               | 159 | 177 | 163 | 223 | 79   | 131  | 64  | 80   | 356 | 303 | 353 |
| 28  | 365                               | 141 | 160 | 175 | 244 | 64   | 83   | 70  | 67   | 304 | 325 | 139 |
| 29  | 356                               | 147 | 176 | 224 | 238 | 118  | 76   | 60  | 76   | 268 | 331 | 225 |
| 30  | 357                               |     | 189 | 187 | 227 | 113  | 97   | 102 | 127  | 307 | 346 | 173 |
| 31  | 392                               |     | 242 |     | 190 |      | 96   | 91  |      | 328 |     | 283 |

|     | Air Quality Index of Delhi - 2025 |     |     |     |     |      |      |     |      |     |     |     |
|-----|-----------------------------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| Day | Jan                               | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| 1   | 328                               | 355 | 126 | 144 | 184 | 197  | 83   | 61  | 60   | 130 | 303 | 304 |
| 2   | 318                               | 326 | 125 | 217 | 145 | 158  | 83   | 79  | 52   | 123 | 366 | 372 |
| 3   | 371                               | 286 | 156 | 217 | 180 | 143  | 72   | 79  | 57   | 88  | 309 | 342 |
| 4   | 378                               | 264 | 148 | 219 | 232 | 187  | 78   | 116 | 58   | 138 | 291 | 304 |
| 5   | 339                               | 284 | 119 | 163 | 119 | 203  | 89   | 97  | 67   | 159 | 202 | 327 |
| 6   | 335                               | 210 | 124 | 209 | 141 | 161  | 75   | 91  | 73   | 105 | 311 | 330 |
| 7   | 296                               | 156 | 202 | 261 | 153 | 209  | 85   | 114 | 82   | 73  | 322 | 308 |
| 8   | 297                               | 152 | 158 | 243 | 169 | 198  | 98   | 116 | 82   | 81  | 361 | 314 |
| 9   | 357                               | 227 | 209 | 246 | 151 | 235  | 81   | 81  | 105  | 100 | 370 | 282 |
| 10  | 397                               | 271 | 197 | 256 | 189 | 215  | 59   | 76  | 80   | 170 | 362 | 259 |
| 11  | 327                               | 293 | 262 | 164 | 158 | 245  | 79   | 106 | 94   | 199 | 428 | 307 |
| 12  | 278                               | 212 | 228 | 166 | 162 | 195  | 105  | 94  | 108  | 167 | 418 | 349 |
| 13  | 248                               | 134 | 179 | 178 | 141 | 187  | 79   | 120 | 109  | 189 | 404 | 431 |
| 14  | 275                               | 131 | 198 | 194 | 135 | 156  | 59   | 90  | 108  | 211 | 387 | 461 |
| 15  | 386                               | 191 | 85  | 180 | 292 | 140  | 51   | 77  | 112  | 233 | 386 | 427 |
| 16  | 302                               | 294 | 99  | 220 | 278 | 111  | 67   | 118 | 121  | 245 | 377 | 354 |
| 17  | 289                               | 231 | 108 | 204 | 168 | 104  | 70   | 91  | 114  | 254 | 351 | 334 |
| 18  | 255                               | 209 | 145 | 219 | 179 | 81   | 60   | 76  | 107  | 268 | 374 | 373 |
| 19  | 368                               | 180 | 160 | 165 | 201 | 89   | 54   | 89  | 143  | 296 | 392 | 374 |
| 20  | 314                               | 160 | 156 | 140 | 204 | 75   | 75   | 79  | 131  | 345 | 391 | 398 |
| 21  | 289                               | 158 | 144 | 205 | 213 | 85   | 93   | 79  | 127  | 351 | 364 | 377 |
| 22  | 260                               | 155 | 161 | 227 | 119 | 92   | 88   | 102 | 135  | 353 | 370 | 373 |
| 23  | 257                               | 144 | 194 | 224 | 129 | 112  | 67   | 97  | 126  | 305 | 391 | 412 |
| 24  | 199                               | 186 | 206 | 227 | 141 | 95   | 91   | 63  | 120  | 275 | 382 | 271 |
| 25  | 174                               | 208 | 234 | 258 | 105 | 132  | 136  | 62  | 120  | 292 | 353 | 234 |
| 26  | 216                               | 247 | 231 | 247 | 105 | 95   | 84   | 55  | 120  | 309 | 327 | 332 |
| 27  | 268                               | 215 | 259 | 246 | 133 | 76   | 85   | 71  | 169  | 301 | 377 | 385 |
| 28  | 276                               | 121 | 205 | 266 | 151 | 97   | 86   | 120 | 139  | 294 | 369 | 390 |
| 29  | 365                               |     | 153 | 209 | 171 | 83   | 72   | 98  | 120  | 279 | 305 | 401 |
| 30  | 363                               |     | 138 | 198 | 167 | 65   | 66   | 72  | 117  | 373 | 279 | 388 |
| 31  | 351                               |     | 160 |     | 241 |      | 59   | 79  |      | 218 |     | 373 |

**Measures taken by the Government to address air pollution in Delhi-NCR**

**1. Measures for control of vehicular emissions:**

- Installation of Vapour Recovery System (VRS) in all retail outlets (Petrol pumps) across Delhi-NCR and in new and existing retail outlets selling motor spirit >100kl per month in million plus cities and those selling >300kl per month in cities with population between 1 lakh to 1 million to control vehicular refuelling emissions.
- Promotion of electric vehicles through PM E-Drive Scheme of Ministry of Heavy Industries, Government of India.
- Ministry of Road Transport & Highways (MoRTH) has issued notifications on the establishment of Registered Vehicle Scrapping Facility (RVSFs) and Automated Testing System (ATS) to create an enabling framework for implementation of Vehicle Scrapping Policy.
- Establishment of charging infrastructure for E-vehicles as per guidelines issued by Ministry of Power.
- Synchronization in traffic movements/Introduction of Intelligent Traffic System (ITS) for lane-driving.
- Improving and Strengthening of Pollution Under Control (PUC) Certificate System programme across the country by MoRTH.
- Environment Compensation Charges introduced for commercial vehicles entering Delhi in compliance of Hon'ble Supreme Court order.
- MoHUA has launched the "Program for Accelerated Renewal and Incentivization of Vehicle Assets for Reducing Transport Air-Pollution and Network Emission (PARIVARTAN)", a time-bound fleet modernization scheme aimed at reducing vehicular pollution in NCR by incentivizing the replacement of BS-IV and older trucks and buses with BS-VI, CNG or Electric Vehicles (EVs).
- Directions issued by CAQM to the Government of NCT of Delhi and State Governments of Haryana, Rajasthan and Uttar Pradesh for migration of public transport services, especially buses in NCR to cleaner modes. CAQM directed State Governments to augment infrastructure for public transport and allow only BS-VI/CNG/EV public transport buses to enter into Delhi, including tourist buses from 01.11.2026.
- Direction issued by CAQM to the Government of NCT of Delhi and State Governments of Haryana, Rajasthan and Uttar Pradesh for Strict ban on entry of any commercial goods vehicles viz. LGVs, MGVs and HGVs, other than BS-VI, CNG, LNG, and EVs, into Delhi w.e.f. 01.11.2025, except such vehicles that are registered in Delhi provided that all BS-IV commercial vehicles viz. LGVs, MGVs and HGVs are permitted to enter into Delhi for a limited period up to 31.10.2026.
- CAQM issued direction to the Government of NCT of Delhi and State Governments of Haryana, Rajasthan and Uttar Pradesh regarding fast-tracking of cleaner mobility in services provided by Motor Vehicle Aggregators, Delivery Service Providers and E-Commerce Entities.
- Mandatory induction of only electric three wheelers of L5 category (Passenger and Goods) in Delhi w.e.f 01.01.2027, in High Volume Districts of NCR, namely Gurugram, Faridabad, Sonipat, Ghaziabad and Gautam Buddh Nagar w.e.f. 01.01.2028 and in all other districts of NCR with effect from 01.01.2029.
- Traffic decongestion measures and phasing out of End-of-Life Vehicles in Delhi-NCR.

## **2.Measures for controlling industrial emissions:**

- Notification of emission standards for various categories of industries under the Environment (Protection) Rules, 1986.
- CEPI based categorization enables classification of industrial clusters as Critically Polluted Areas (CPAs) or Severely Polluted Areas (SPAs). Action plans are mandated for these zones to reduce pollution load and improve environmental quality.
- Ban on use of imported pet coke in the country, with exception for use in permitted processes.
- In 2022, MoEFCC mandated that new brick kilns must use zig-zag technology, vertical shaft, or piped natural gas, and adhere to specific emission standards. Existing kilns must also convert to these technologies or use approved fuels.
- In 2022, MoEFCC notified stricter emission standards (CPCB IV+) for power generators up to 800 kW running on Diesel, Gasoline or dual fuel mode.
- CPCB has come out with a System and Procedure for Emission Compliance Testing of Retro-fit Emission Control Devices (RECD) for Diesel Power Generating Set Engines up to Gross Mechanical Power 800 kW.
- Installation of Online Continuous Emission Monitoring System (OCEMS) and Air Pollution Control Devices (APCDs) in red category (medium and large) air polluting industries, 17 category industries & Common facilities in Delhi-NCR.
- An approved fuel list is in force in Delhi-NCR w.e.f. 01.01.2023. Industries operating on only PNG or biomass are permitted in NCR, except for specific requirement of other fuels by specific industries owing to technical, technological and process requirements.
- Stringent PM emission norms for biomass-based boilers have been prescribed for compliance in NCR.
- Directions issued for conversion of brick kilns to zig-zag technology in Delhi and NCR.

## **3. Measures for control of Agriculture Stubble Burning:**

- During the period 2018-19 to 2025-26 (as on 02.03.2026), the Ministry of Agriculture and Farmers Welfare (MoAFW) released ₹4,233.84 crore for crop residue management initiatives. As a result, over 3.53 lakh crop residue management machines were distributed to farmers and more than 43,535 Custom Hiring Centres (CHCs) were established in Haryana, Madhya Pradesh, Rajasthan, Uttar Pradesh, and the NCT of Delhi.
- Ministry of Power has issued a policy for co-firing of biomass in Coal based Thermal Power Plants on 7<sup>th</sup> November, 2025. The policy mandates Coal based Thermal Power Plants outside the National Capital Region to co-fire 5 per cent (by weight) of biomass pellets or torrefied MSW charcoal from 2025-26.
- Ministry of New and Renewable Energy (MNRE) provides Central Financial Assistance (CFA) for setting up Waste to Energy plants for generation of Biogas, Bio-CNG/enriched Biogas/Compressed Biogas, Power/ generation of producer or syngas, from urban, industrial, agricultural wastes and municipal solid waste.
- Ministry of Petroleum and Natural Gas (MoPNG) has launched the 'Pradhan Mantri JI-VAN Yojana to provide financial support for setting up Advanced Biofuels projects in the country using lignocellulosic biomass and other renewable feedstock, i.e. agricultural and forestry residues, industrial waste, synthesis (syn) gas, algae etc. This aims to provide remunerative income to farmers for their agriculture residue, address environmental pollution, create local employment opportunities, and contribute to India's energy security and self-reliance.



- For the prevention of crop residue burning in the NCR region and Punjab, CAQM has issued a framework for prevention and control of stubble burning, including measures like in-situ crop residue management, ex-situ utilization of paddy straw in various applications, enforcement and IEC activities. Based on the said framework, the State Governments of Punjab, Haryana and UP have prepared State-specific action plans.
- CAQM has issued directions for co-firing of 5-10% biomass with coal in thermal power plants located within 300 kms of Delhi, and, in captive power plants of industrial units located in NCR.
- CAQM has issued directions to State Governments of Punjab and Haryana to mandate use of paddy straw-based biomass pellets / briquettes in all brick kilns located in the districts beyond NCR, as one of the means towards elimination of the practice of open paddy stubble burning, aiming for 50 % co-firing of paddy straw based, pellets /briquettes with a target of at least 20 % w.e.f. 01.11.2025, 30 % w.e.f. 01.11.2026, 40% w.e.f. 01.11.2027 and 50 % w.e.f. 01.11.2028.
- Central Pollution Control Board (CPCB) has framed Guidelines for grant of one-time financial support under Environment Protection Charge funds for establishment of pelletization and Torrefaction plants to promote utilisation of paddy straw.
- 32 pelletisation plants have been sanctioned so far (25 in Punjab, 07 in Haryana) at a cost of Rs. 34.72 crore. Total production capacity of 32 sanctioned plants is 137 TPH and these are expected to utilise 6.36 lakh tonnes paddy straw annually for production of 4.93 lakh tonne pellets.

#### **4. Measures for Waste Management:**

- Bio-remediation of legacy wastes accumulated in solid waste dumpsites in Delhi-NCR is undertaken by the local bodies and regularly reviewed by concerned State Government and CAQM.

#### **5. Measures for Dust Mitigation measures at Construction & Demolition (C&D)**

##### **Sites and Road Projects:**

- CPCB has issued direction to all SPCBs/ PCCs for deployment of Anti-Smog Gun and implementation of adequate dust mitigation measures at construction projects/ sites having area more than 20,000 sq. meters. CPCB has also issued guidelines/ mechanism for use of anti-smog guns in C&D projects.
- Directions issued to DPCC and NCR SPCBs to enforce installation of anti-smog guns and other dust control measures at C&D sites.
- Directions issued for setting up of a “Dust Control and Management Cell” by road owning/ maintaining/ construction agencies for monitoring and effective implementation of dust control measures in the NCR. 70 Dust Control and Management Cells (DCMCs) have been set up across NCR, with regular reviews by the CAQM.
- Online monitoring mechanism (through web portal) introduced for monitoring compliance of dust mitigation measures for construction sites.
- Redevelopment of roads to control road dust, deployment of additional Mechanized Road Sweeping Machines (MRSMs) and strengthening of infrastructure for collection of Construction & Demolition waste in Delhi-NCR.

#### **6. Augmentation of Air Quality Monitoring:**

- Air quality monitoring stations across Delhi-NCR have been augmented for improved assessment and management of air quality.

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