

Q-16017/12/2019-CPA
Government of India
Ministry of Environment, Forest and Climate Change
(CP Division)

6th Floor, Jal Wing,
Indira Paryavaran Bhawan,
Jor Bagh, Aliganj,
New Delhi-110003
Date: 05th August 2022

OFFICE MEMORANDUM

Subject: 5th meeting of Steering Committee of National Clean Air Programme of Ministry of Environment, Forest and Climate Change – reg. minutes

The undersigned is directed to refer the 5th meeting of the Steering Committee of National Clean Air Programme (NCAP) of Ministry of Environment, Forest and Climate Change (MoEF&CC), Government of India held under the Chairpersonship of Smt. Leena Nandan, Secretary, EF&CC on 29th July 2022 at 17:00 hours through video conference (VC).

2. In this regard, the minutes of the 5th meeting of the Steering Committee of NCAP are hereby enclosed.
3. This issues with the approval of the Competent Authority.

Yours sincerely,


(Dr. Satyendra Kumar)
Director

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To,
All members of Steering Committee of NCAP

Copy to:

1. Sr. PPS to Secretary, MoEF&CC
2. PPS to AS (NPG)

**MINUTES OF 5TH MEETING OF STEERING COMMITTEE OF NATIONAL CLEAN
AIR PROGRAMME (NCAP)**

Date: 29th July 2022 (17:00 hrs)

The 5th meeting of Steering Committee of National Clean Air Programme (NCAP) was convened on 29th July 2022 at 17:00 hrs under the Chairpersonship of **Smt. Leena Nandan, Secretary, MoEF&CC** in Kaveri Conference Hall, Indira Paryavaran Bhawan, New Delhi. The list of participants of the meeting is enclosed at **Annexure I**.

2. At the outset, **Sh. Naresh Pal Gangwar**, Additional Secretary, MoEF&CC briefed about the agenda of the meeting to review the progress in implementation of action plans of cities and central line ministries/ departments under NCAP.

3. **Sh. Tanmay Kumar**, Chairman, Central Pollution Control Board and Additional Secretary, MoEF&CC briefed about progress of the development of PRANA portal. It was told that the relevant stakeholders were required to upload reports/action plans/activities through PRANA portal only. No other communication would be accepted.

4. Director, NCAP, MoEF&CC gave brief presentation on the action taken report on minutes of 4th meeting of Steering Committee of NCAP held on 1st April 2022, agenda matters in respect of proposal for amendment in guidelines for release and utilization of funds under NCAP, fund allocation for 82 NCAP cities for FY 2022-23, state-wise utilisation certificates (UC) required (Amount in Rs. crore), revision in list of non-attainment cities from 132 to 131, and way forward for consideration of the Steering Committee. Copy of presentation is at **Annexure II**.

5. **Member Secretary, CPCB** briefly presented the performance assessment of cities under XV-FC, as per which: 3 cities (Allahabad, Lucknow and Varanasi) obtained 100, 6 cities (Ghaziabad, Kanpur, Jodhpur, Dhanbad, Faridabad and Patna) obtained 25, and remaining 33 cities obtained 75. Copy of presentation is at **Annexure III**.

6. **City Commissioners of Akola, Pune, Lucknow, Varanasi, Tuticorin, Bengaluru, Hyderabad, and Srinagar Municipal Corporations** briefly presented their initiatives/interventions under NCAP & XV-FC and convergence of various schemes/programmes, issues & challenges, best practices, and way forward. Copy of presentations is at **Annexure IV**.

7. **Representatives of CESL, MoHUA, MHI, MoRTH, MoPNG, and NAEB** briefly presented status of their initiatives/interventions undertaken through convergence of various schemes/programmes. Copy of presentations is at **Annexure V**.

8. The following agenda items were discussed:

i. **Action taken report on recommendations of 4th Steering Committee held on 1st April, 2022**

62 cities have undertaken City-wise activities under annual action plan of FY 2021-22 and uploaded on PRANA portal. 70 Cities are yet to complete the said activities.

All cities are required to undertake city-wise activities under annual action plan of FY 2022-23 and upload on PRANA portal.

63 cities have prepared micro action plans and uploaded on PRANA portal. 69 cities are yet to prepare micro action plans.

All SPCBs/PCCs are required to share the activities to be undertaken under NCAP and XV-FC MPCCF as well as through convergence of various schemes.

All SLMICs are required to send the recommendations to MoEFCC for release of XV-FC MPCCF for the year 2022-23.

6 States/UTs have prepared State Action Plans and 18 State/UTs are yet to prepare State Action Plans. Prepared Action Plans are required to be uploaded on PRANA portal.

All Cities are required to submit Quarterly Progress Reports.

ii. **Proposal for amendment in guidelines for release and utilisation of funds under NCAP.**

Under the present guidelines of NCAP, first instalment (60% of allocated funds) for a city for FY 2022-23 is to be released after submission of minimum of 60% UC on the funds released in FY 2021-22.

Further, second instalment (40% of allocated funds or 0/25/50/75/100% on remaining 40% allocated fund based on performance guidelines) will be released after submission of minimum 60% UC on unspent balance released in FY 2021-22 and first instalment released during FY 2022-23.

The proposal of revision of guidelines was discussed and it was decided that concurrence of IFD be obtained on the proposal.

iii. **Fund allocation of 82 NCAP cities for FY 2022-23**

Rs.596.6 crore has been allocated for 82 cities under NCAP for FY 2022-23. Details of city wise fund allocation for FY 2022-23 are enclosed at **Annexure VI**.

Under NCAP guidelines, all 82 cities are eligible to receive 60% of allocated funds as first instalment subject to submission of Utilisation certificate,

transfer of accrued interest on unspent balance, submission of City Solid Waste Action plans under SBM 2.0 to MoHUA.

For remaining 40% of allocated funds, the amount will be released based on the performance criteria set out in under NCAP guidelines for air quality improvement. CPCB has conducted the assessment of performance of cities as per the specify targets given to each city.

As per the assessment, 43 cities are eligible to receive remaining 40% of allocated funds. 5 cities are eligible to receive reduced funding (3 cities- 25% of allocated amount and 2 cities- 75% of allocated amount). 34 cities are not eligible to receive the remaining 40% funds. 37 cities are eligible to receive incentive over and above the funds allocated to them.

iv. Merger of Raniganj and Asansol Cities to one city (Asansol)

Based on the request from West Bengal State Govt., the merger of Raniganj city into Asansol Municipal Corporation has been approved and now the total number of cities under NCAP will be 131 instead of 132. However, the allocation of funds remain unchanged as per the NCAP guidelines.

v. Evaluation of the performance of 42 million plus cities (MPCs) under XVFC

Rs.2299 crore have been earmarked for FY 2022-23 under XV-FC MPCCF performance based grants to 42 million plus cities and urban agglomerations.

Central Pollution Control Board (CPCB) has evaluated the performance assessment of 42 cities for air quality improvement (increase in moderate days based on AQI and improvement in PM10 concentrations) for the FY 2021-22 for providing funds under XV-FC MPCCF performance based grants as per DOE guidelines.

The summary of scores computed for 42 cities is provided below:

Score of City	Number of cities	% fund allocation for FY 2022-23
80-100	3	100
60-80	33	75
50-60	-	50
40-50	-	25
Below 40	6	Nil

9. **Chairperson** emphasised on the identification of city specific measures for air quality improvement based on the population base, infrastructure & development, transportation, land use, industries, energy and natural resources available to the city, and implementation of specific activities for achieving air quality targets under NCAP. Further, the resources should be mobilised from convergence of other schemes of Central/State Ministries/Departments as well as of ULBs. She also stressed that cities should adopt the best practices of other cities.

10. Based on the discussions held during the meeting, the steering committee made the following recommendations:

S. No.	Recommendations/Decisions	Responsibility	Timeline
1.	In-principle approval of fund allocation for 82 NCAP cities for FY 2022-23	-	-
2.	Proposed amendment in Guidelines for release and utilization of funds under NCAP for FY 2022-23 may be taken up separately.	MoEF&CC	31 August 2022
3.	Submission of utilisation certificates of minimum 75% of the funds in available on 1 April 2022 and transfer of accrued interest on unspent balance of funds released during FY 2021-22, to enable the release of funds for FY 2022-23.	ULBs and SPCBs/PCCs	15 August 2022
4.	State Action Plans, City Action Plans, Micro Action Plans, activities under annual action plans, Quarterly progress reports, best practices are to be prepared and uploaded on PRANA portal	State Governments/UT administration, SPCBs and ULBs	Immediately
5.	Cities eligible for reduced funding under NCAP and cities not eligible for XV-FC performance grant for FY 2022-23 are required to implement air quality improvement measures as per city action plans with convergence of resources from other schemes to improve performance in the FY 2022-23. Periodic monitoring of these cities will be undertaken.	ULBs, SPCBs/UTs and CPCB	Once in 3 months
6.	Conducting meetings of committees constituted at Central, State and City level for review of implementation of NCAP activities	CPCB, SPCB, State Government, UTs and ULBs	At frequency set under guidelines
7.	Cities under NCAP & XV-FC may explore implementation of learnings from best practices of other performing cities.	ULBs	--
8.	Cities under NCAP & XV-FC may access funds available under NAEB's Nagar Van Yojana and Nagar Van Vatika scheme for greening of open spaces.	ULBs	--

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20. Smt. Mahua Acharya, MD & CEO, CESL

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24. Sh. Pranay Singh, Municipal Commissioner, Varanasi
25. Sh. Tushar Giri Nath, Municipal Commissioner, Bengaluru
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ANNEXURE II

**Meeting of 5th Steering Committee
under NCAP
29.07.2022**



**Ministry of Environment, Forest &
Climate Change**

Agenda 1

Action taken report on minutes of 4th meeting of Steering Committee of NCAP held on 1st April 2022

S. No.	Recommendation of 4 th Steering Committee meeting	Action to be taken by	Status	
			Completed	Yet to be completed
1	City-wise activities to be undertaken under annual action plan for 2022-23 to be shared with MoEF&CC and uploaded on PRANA Portal	ULBs	-	Yet to be submitted
2	City-wise activities undertaken under annual action plan till 2021-22 to be shared with MoEF&CC and uploaded on PRANA Portal	ULBs	62 cities	70 cities
3	Activities completed/ initiated in cities under NCAP fund and/or XV-FC MPCCF as well as through convergence of various schemes to be shared with MoEF&CC	SPCBs/PCCs	-	Yet to be completed

S. No.	Recommendation of 4th Steering Committee meeting	Action to be taken by	Status	
			Completed	Yet to be completed
4	Recommendations of SLMICs to MoEFCC for release of XV FC MPCCF for the year 2022-23 by DoE	SLMICs	-	Reports from SLMICs are awaited for 2022-23.
5	Preparation of State Action Plan and uploading on PRANA portal	SPCBs	6 states (Delhi, Haryana, MP, J&K, Telangana, Maharashtra) To be uploaded on PRANA portal	18 states
6	Micro Action Plans & uploaded on PRANA portal	ULBs	63 cities	69 cities
7	Quarterly Progress Reports	ULBs	-	132 cities

Agenda 2

Proposal for amendment in Guidelines for Release and Utilization of Funds under NCAP

Para No.	Earlier provision	Proposed amendment
Para 7.3	<u>First instalment</u> submission of utilisation of 75% of funds available in previous financial year <u>Second instalment</u> Submission of Utilization Certificates (UCs) of minimum 60% of available funds (including first instalment released in FY)	From FY 2022-23 onwards, both instalments may be released in one go on compliance of: i. Submission of Utilization of 75% of unspent balance available as on 1st April of previous financial year plus funds released during the present financial year, if any. ii. Deposition of interest accrued on unspent balance iii. Performance of cities for improvement in air quality

Agenda 3

Fund allocation for 82 NCAP cities for FY 2022-23

- **₹596.60 crore** allocated for 82 cities under NCAP for FY 2022-23
- **Necessary conditions** for release of funds during FY 2022-23
 - Submission of **Utilization of 75% of unspent balance** of funds released upto 31st March'2021 plus funds released during the financial year 2021-22
 - Deposition of **interest accrued** on unspent balance
 - Submission of 'City Solid Waste Action Plan' under SBM 2.0 to MoHUA

- **Summary of allocation of funds:**

No. of Cities	1 st Instalment	2 nd Instalment	Incentives
Eligible	82 cities	<u>48 cities</u>	<u>37 cities</u>
Not-eligible	-	<u>34 cities</u>	-

- **Way Forward:**
 - Sub Agencies (SAs) to open accounts in UBI bank and map with CNA under PFMS.

Fund allocation for 82 NCAP cities for FY 2022-23

S. No.	States/UTs	City	1st instalment (60%) (A)	2nd instalment due to the city (40%)	Actual allocated amount of 2nd instalment* ¹ (B)	Incentive Amount* ² (C)	Total amount allocated (A+B+C)
1	Andhra Pradesh	Chittoor	1.03	0.69	0.69	0.09	1.81
2	Andhra Pradesh	Srikakulam	1.09	0.74	-	-	1.09
3	Andhra Pradesh	Ongole	1.41	0.95	0.95	0.16	2.53
4	Andhra Pradesh	Eluru	1.82	1.22	-	-	1.82
5	Andhra Pradesh	Vizianagaram	1.84	1.24	-	-	1.84
6	Andhra Pradesh	Kadapa	1.84	1.24	-	-	1.84
7	Andhra Pradesh	Anantapur	2.32	1.56	1.56	0.64	4.52
8	Andhra Pradesh	Rajahmundry	2.51	1.69	-	-	2.51
9	Andhra Pradesh	Kurnool	3.03	2.03	-	-	3.03
10	Andhra Pradesh	Nellore	4.28	2.87	2.87	1.15	8.30
11	Andhra Pradesh	Guntur	4.35	2.92	-	-	4.35
12	Assam	Nalbari	0.50	0.16	-	-	0.50
13	Assam	Sibsagar	0.50	0.21	0.21	-	0.71
14	Assam	Silchar	0.50	0.59	-	-	0.50
15	Assam	Nagaon	1.47	0.99	-	-	1.47
16	Assam	Guwahati	11.65	7.83	7.83	0.90	20.38

Fund allocation for 82 NCAP cities for FY 2022-23

S. No.	States/UTs	City	1st instalment (60%) (A)	2nd instalment due to the city (40%)	Actual allocated amount of 2nd instalment* ¹ (B)	Incentive Amount* ² (C)	Total amount allocated (A+B+C)
17	Bihar	Gaya	4.22	2.84	-	-	4.22
18	Bihar	Muzaffarpur	5.56	3.74	-	-	5.56
19	Chandigarh	Chandigarh	10.24	6.88	-	-	10.24
20	Chhattisgarh	Korba	2.16	1.45	-	-	2.16
21	Delhi	Delhi	25.01	16.80	-	-	25.01
22	Himachal Pradesh	Kala Amb	0.50	0.00	-	-	0.50
23	Himachal Pradesh	Damtal	0.50	0.01	-	-	0.50
24	Himachal Pradesh	Parwanoo	0.50	0.04	0.04	-	0.54
25	Himachal Pradesh	Nalagarh	0.50	0.09	0.09	0.04	0.63
26	Himachal Pradesh	Sunder Nagar	0.50	0.13	0.13	0.12	0.74
27	Himachal Pradesh	Paonta Sahib	0.50	0.15	-	-	0.50
28	Himachal Pradesh	Baddi	0.50	0.30	0.08	-	0.58
29	Jammu & Kashmir	Jammu	10.87	7.30	-	-	10.87
30	Jammu & Kashmir	Srinagar	17.68	11.88	11.88	4.40	33.96
31	Karnataka	Devanagere	3.12	2.10	2.10	0.88	6.10
32	Karnataka	Gulburga	4.97	3.34	3.34	-	8.31
33	Karnataka	Hubli-Dharwad	8.19	5.50	5.50	1.38	15.07

Fund allocation for 82 NCAP cities for FY 2022-23

S. No.	States/UTs	City	1st instalment (60%) (A)	2nd instalment due to the city (40%)	Actual allocated amount of 2nd instalment* ¹ (B)	Incentive Amount* ² (C)	Total amount allocated (A+B+C)
34	Madhya Pradesh	Dewas	2.95	1.98	1.98	0.33	5.26
35	Madhya Pradesh	Sagar	3.02	2.03	-	-	3.02
36	Madhya Pradesh	Ujjain	5.18	3.48	-	-	5.18
37	Maharashtra	Jalgaon	2.96	1.99	-	-	2.96
38	Maharashtra	Jalna	3.09	2.07	0.52	-	3.60
39	Maharashtra	Akola	3.27	2.19	2.19	0.09	5.55
40	Maharashtra	Chandrapur	3.29	2.21	-	-	3.29
41	Maharashtra	Latur	3.57	2.40	2.40	1.31	7.27
42	Maharashtra	Sangli	3.82	2.57	2.57	1.02	7.41
43	Maharashtra	Kolhapur	5.72	3.85	3.85	0.79	10.36
44	Maharashtra	Amravati	6.47	4.35	4.35	1.54	12.36
45	Maharashtra	Solapur	9.34	6.28	6.28	4.73	20.35
46	Meghalaya	Byrnihat	0.50	0.00	-	-	0.50
47	Nagaland	Kohima	0.90	0.60	0.60	0.23	1.73
48	Nagaland	Dimapur	1.17	0.79	0.79	0.03	1.99
49	Odisha	Angul	0.50	0.32	-	-	0.50
50	Odisha	Talcher	0.50	0.33	0.33	0.19	1.03

Fund allocation for 82 NCAP cities for FY 2022-23

S. No.	States/UTs	City	1st instalment (60%) (A)	2nd instalment due to the city (40%)	Actual allocated amount of 2nd instalment*1 (B)	Incentive Amount*2 (C)	Total amount allocated (A+B+C)
51	Odisha	Kalinga Nagar	0.50	0.39	-	-	0.50
52	Odisha	Balasore	1.41	0.95	0.95	0.19	2.55
53	Odisha	Rourkela	6.90	4.63	1.16	-	8.06
54	Odisha	Cuttack	7.61	5.12	5.12	0.91	13.64
55	Odisha	Bhubneshwar	9.80	6.59	6.59	0.14	16.53
56	Punjab	Dera Bassi	0.50	0.20	-	-	0.50
57	Punjab	Naya Nangal	0.50	0.37	0.37	0.26	1.13
58	Punjab	Gobindgarh	1.19	0.80	0.80	0.07	2.05
59	Punjab	Dera Baba	1.27	0.85	0.85	-	2.12
60	Punjab	Khanna	1.55	1.04	-	-	1.55
61	Punjab	Patiala	4.99	3.35	-	-	4.99
62	Punjab	Jalandhar	11.70	7.86	-	-	11.70
63	Rajasthan	Alwar	4.85	3.26	3.26	0.40	8.51
64	Rajasthan	Udaipur	7.04	4.73	4.73	-	11.78
65	Tamil Nadu	Tuticorin	2.28	1.53	1.53	0.79	4.59
66	Telangana	Sangareddy	0.50	0.47	0.47	-	0.97
67	Telangana	Nalgonda	1.04	0.70	-	-	1.04

Fund allocation for 82 NCAP cities for FY 2022-23

S. No.	States/UTs	City	1st instalment (60%) (A)	2nd instalment due to the city (40%)	Actual allocated amount of 2nd instalment* ¹ (B)	Incentive Amount* ² (C)	Total amount allocated (A+B+C)
68	Uttar Pradesh	Anpara	0.50	0.24	0.24	0.01	0.74
69	Uttar Pradesh	Gajraula	1.32	0.89	0.89	0.29	2.51
70	Uttar Pradesh	Raebareli	3.30	2.22	2.22	0.56	6.07
71	Uttar Pradesh	Khurja	3.83	2.57	2.57	0.79	7.19
72	Uttar Pradesh	Jhansi	5.89	3.96	-	-	5.89
73	Uttar Pradesh	Firozabad	14.11	9.48	9.48	3.85	27.44
74	Uttar Pradesh	Noida	14.84	9.97	7.48	-	22.32
75	Uttar Pradesh	Bareilly	19.88	13.36	13.36	0.32	33.56
76	Uttar Pradesh	Gorakhpur	21.43	14.40	14.40	4.73	40.56
77	Uttar Pradesh	Muradabad	25.01	16.80	16.80	6.30	48.11
78	Uttarakhand	Rishikesh	1.56	1.05	1.05	0.16	2.77
79	Uttarakhand	Kashipur	1.75	1.17	0.88	-	2.63
80	Uttarakhand	Dehradun	10.85	7.29	7.29	1.23	19.38
81	West Bengal	Haldia	1.63	1.09	-	-	1.63
82	West Bengal	Durgapur	8.56	5.75	-	-	8.56
			390.00		165.60	41.00	596.60

*¹ The amount of second instalment is calculated on the basis of performance factor of air quality determined by CPCB as per Annexure I.

*² Incentives are calculated as per NCAP guidelines issued in Sept'2021.

State-wise UC required (Amount in Rs. crore)

S.No.	State	Fund released	City-wise UC received	UC pending
1	Andhra Pradesh	35.12	22.70	12.41
2	Assam	12.36	0.45	11.91
3	Bihar	21.60	15.20	6.41
4	Chandigarh	17.89	10.83	7.06
5	Chhattisgarh	13.06	1.18	11.88
6	Delhi	11.25	-	11.25
7	Himachal Pradesh	10.73	6.42	4.30
8	Jammu & Kashmir	20.96	5.14	15.82
9	Karnataka	15.14	7.38	7.76
10	Madhya Pradesh	27.13	25.49	1.64
11	Maharashtra	63.15	27.06	36.09
12	Meghalaya	3.00	1.97	1.03
13	Nagaland	7.05	6.12	0.93
14	Odisha	15.87	3.62	12.25
15	Punjab	27.52	1.19	26.33
16	Rajasthan	21.92	19.21	2.71
17	Tamil Nadu	3.06	-	3.06
18	Telangana	14.54	9.41	5.13
19	Uttar Pradesh	76.94	21.08	55.86
20	Uttarakhand	16.79	8.12	8.67
21	West Bengal	19.00	-	19.00
	Grand Total	472.06	207.58	264.48

Agenda 4

Revision in list of Non-attainment cities from 132 to 131

S. No.	Recommendation of 4th Steering Committee meeting	Action to be taken by	Status
			Completed
7	Since Raniganj municipality has been merged with Asansol Municipal Corporation, it may not be considered as a separate non-attainment city and this change may accordingly be reflected on the PRANA portal	MoEF&CC	Merging of Asansol & Raniganj cities approved by MoEF&CC

Agenda 5

Presentation by **CPCB** on Evaluation of
performance of 42 Million Plus cities under XV-FC

Agenda 6-11

Status of implementation of action plans of following Central line Ministries/ Departments:

1. Ministry of Housing & Urban Affairs (MoH&UA)
2. Ministry of Heavy Industries (MHI)
3. Convergence Energy Services Ltd (CESL)
4. Ministry of Road, Transport, and Highways (MoRTH)
5. Ministry of Petroleum & Natural Gas (MoPNG)
6. National Afforestation and Eco Development Board (NAEB)

Agenda 12

Presentation on activities undertaken by cities/ ULBs for improving air quality by **Cities/ULBs**

1. Akola
2. Pune
3. Lucknow
4. Varanasi
5. Tuticorin
6. Hyderabad
7. Bangalore
8. Srinagar

Agenda 13 - Way Forward

Fast tracking of actions needed:

1. Populating data w.r.t annual action plans 2022-23/all activities undertaken so far on PRANA portal - ULBs
2. Preparation of State Action Plan- States
3. Submission of 75% UCs in GFR format & Deposit of Accrued Interest on unspent balance - Cities/ULBs
4. Action Plan for 100% collection & processing of solid waste as well as construction and demolition waste - ULBs
5. Action Plan for remediation of all legacy waste sites - ULBs
6. Measures to adopt electric vehicles and augmentation of public transport network- ULBs/States
7. Measures to switch over of industries to cleaner fuels - ULBs
8. Installation of Online Continuous Emission Monitoring Systems (OCEMS) in industries located in 132 cities

THANK YOU

Any questions?

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Director NCAP & XVFC

MoEF&CC



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48 Cities - Eligible for 2nd Instalment



S. No.	States/UTs	City	S. No.	States/UTs	City
1	Andhra Pradesh	Chitoor	25	Odisha	Talcher
2	Andhra Pradesh	Ongole	26	Odisha	Balasore
3	Andhra Pradesh	Anantapur	27	Odisha	Rourkela
4	Andhra Pradesh	Nellore	28	Odisha	Cuttack
5	Assam	Sibsagar	29	Odisha	Bhubneshwar
6	Assam	Guwahati	30	Punjab	Naya Nangal
7	Himachal Pradesh	Parwanoo	31	Punjab	Gobindgarh
8	Himachal Pradesh	Nalagarh	32	Punjab	Dera Baba
9	Himachal Pradesh	Sunder Nagar	33	Rajasthan	Alwar
10	Himachal Pradesh	Baddi	34	Rajasthan	Udaipur
11	Jammu and Kashmir	Srinagar	35	Tamil Nadu	Tuticorin
12	Karnataka	Devanagere	36	Telangana	Sangareddy
13	Karnataka	Gulburga	37	Uttar Pradesh	Anpara
14	Karnataka	Hubli-Dharwad	38	Uttar Pradesh	Gajraula
15	Madhya Pradesh	Dewas	39	Uttar Pradesh	Raebareli
16	Maharashtra	Jalna	40	Uttar Pradesh	Khurja
17	Maharashtra	Akola	41	Uttar Pradesh	Firozabad
18	Maharashtra	Latur	42	Uttar Pradesh	Noida
19	Maharashtra	Sangli	43	Uttar Pradesh	Bareilly
20	Maharashtra	Kolhapur	44	Uttar Pradesh	Gorakhpur
21	Maharashtra	Amravati	45	Uttar Pradesh	Muradabad
22	Maharashtra	Solapur	46	Uttarakhand	Rishikesh
23	Nagaland	Kohima	47	Uttarakhand	Kashipur
24	Nagaland	Dimapur	48	Uttarakhand	Dehradun

34 Cities – Not-eligible for 2nd Instalment



S. No.	States/UTs	City	S. No.	States/UTs	City
1	Andhra Pradesh	Srikakulam	18	Himachal Pradesh	Paonta Sahib
2	Andhra Pradesh	Eluru	19	Jammu and Kashmir	Jammu
3	Andhra Pradesh	Vizianagaram	20	Madhya Pradesh	Sagar
4	Andhra Pradesh	Kadapa	21	Madhya Pradesh	Ujjain
5	Andhra Pradesh	Rajahmundry	22	Maharashtra	Jalgaon
6	Andhra Pradesh	Kurnool	23	Maharashtra	Chandrapur
7	Andhra Pradesh	Guntur	24	Meghalaya	Byrnihat
8	Assam	Nalbari	25	Odisha	Angul
9	Assam	Silchar	26	Odisha	Kalinga Nagar
10	Assam	Nagaon	27	Punjab	Dera Bassi
11	Bihar	Gaya	28	Punjab	Khanna
12	Bihar	Muzaffarpur	29	Punjab	Patiala
13	Chandigarh	Chandigarh	30	Punjab	Jalandhar
14	Chhattisgarh	Korba	31	Telangana	Nalgonda
15	Delhi	Delhi	32	Uttar Pradesh	Jhansi
16	Himachal Pradesh	Kala Amb	33	West Bengal	Haldia
17	Himachal Pradesh	Damtal	34	West Bengal	Durgapur

37 Cities - Eligible for incentives



S. No.	States/UTs	City	S. No.	States/UTs	City
1	Andhra Pradesh	Chitoor	20	Odisha	Talcher
2	Andhra Pradesh	Ongole	21	Odisha	Balasore
3	Andhra Pradesh	Anantapur	22	Odisha	Cuttack
4	Andhra Pradesh	Nellore	23	Odisha	Bhubneshwar
5	Assam	Guwahati	24	Punjab	Naya Nangal
6	Himachal Pradesh	Nalagarh	25	Punjab	Gobindgarh
7	Himachal Pradesh	Sunder Nagar	26	Rajasthan	Alwar
8	Jammu and Kashmir	Srinagar	27	Tamil Nadu	Tuticorin
9	Karnataka	Devanagere	28	Uttar Pradesh	Anpara
10	Karnataka	Hubli-Dharwad	29	Uttar Pradesh	Gajraula
11	Madhya Pradesh	Dewas	30	Uttar Pradesh	Raebareli
12	Maharashtra	Akola	31	Uttar Pradesh	Khurja
13	Maharashtra	Latur	32	Uttar Pradesh	Firozabad
14	Maharashtra	Sangli	33	Uttar Pradesh	Bareilly
15	Maharashtra	Kolhapur	34	Uttar Pradesh	Gorakhpur
16	Maharashtra	Amravati	35	Uttar Pradesh	Muradabad
17	Maharashtra	Solapur	36	Uttarakhand	Rishikesh
18	Nagaland	Kohima	37	Uttarakhand	Dehradun
19	Nagaland	Dimapur			

Pre Necessary Conditions for fund release under XV-FC in FY 2022-23

Mandatory Submission of -

- Action plans under SBM 2.0 to MoHUA
- Grant Transfer Certificate and Utilization Certificates of earlier funds
- Linking of ULB account with PFMS.
- Populating of Micro action plans by cities on PRANA portal.
- Upload activities funded through convergence of various schemes/ programmes which assist in improving air quality (such as SBM 2.0, Smart City mission, AMRUT, FAME, Nagar Van Yojana etc) on PRANA portal.

S. No.	Recommendation	Action to be taken by	Timeline
1	All 42 Million plus cities should submit their action plans under SBM 2.0 to MoHUA (through State govt) as it will be a prerequisite to release of XVFC grants to cities for FY 2022-23	Concerned state govt & ULBs	31 st July 2022
2	Submission of Recommendations of performance assessment report from State Level Monitoring and Implementation Committee (SLMICs) for release of XVFC grants for FY 2022-23 to MoEF&CC a copy to CPCB. SLMIC recommendations should include a certificate stating that data have been filled on PRANA portal by cities and also in respect of state's action plan under SBM 2.0 in respect of targeted cities under NCAP/15th FC	State	31 st July, 2022
3	Grant Transfer Certificate and UCs of earlier funds released to UAs/ cities should be submitted to MoEF&CC	ULBs	31 st July 2022
4	Micro action plans should be uploaded by cities on PRANA portal	ULBs	31 st July 2022
5	Annual action plans for 2022-23 should be uploaded by cities on PRANA portal	ULBs	31 st July 2022
6	Quarterly progress report (QPR) should be submitted by cities on PRANA portal by 15 th of first month of succeeding quarter	ULBs	15 th of first month of succeeding quarter
7	Details of activities funded through convergence of various schemes should be uploaded on PRANA portal	ULBs	31 st July 2022

8	Best practices of cities should be uploaded on PRANA portal	ULBs	Immediately
9	Login id's and passwords of city level officials for PRANA portal should be communicated to them	CPCB & GIZ	Immediately
10	Effective functioning of Air Quality Monitoring Cell (AQMC)	ULBs	Immediately
11	At least, quarterly meetings to be held of State-level Steering Committee meetings (headed by Chief Secretary)	State/UT Governments	Immediately
12	At least, bi-monthly meetings to be held of State-level Monitoring Committee meetings (headed by Additional Chief Secretary/Principal Secretary, Environment)	Environment Departments of State/UT Governments	Immediately
13	At least, monthly city-level Implementation Committee meetings (headed by District Collector/Municipal Commissioner)	ULBs	Immediately
14	Ensure actions on ban on single use plastics	ULBs/States	1 st July 2022.
15	State Action Plan must be prepared	States	31 st July 2022

Annexure III

Evaluation of performance of 42 million plus cities (MPCs) under XVFC

5th Meeting of Steering Committee under NCAP

July 29, 2022

Central Pollution Control Board

National Clean Air Programme (NCAP) – Launched in January 2019

- 132 cities – targeted for improving air quality
- 82 cities – funded under NCAP
- 50 cities – funded under XV-FC.
 - City action plans rolled out for improvement of air quality
 - Rs 6425 Cr released under XV-FC grant by DoE till FY 2021-22
 - Further, fund ear-marked for FY 2022-23 is Rs. 2299 Cr

Criteria for Performance Assessment of cities under XVFC

- As per DoE Guidelines, disbursement of grants based on “Quantification of improvement in air quality”, starting 2021-22
 - Reduction in annual average PM₁₀ Concentration and
 - Increase in good days {AQI (Air Quality Index) <200}

Table A - PM ₁₀ Annual Average Concentration		
S. No.	Reduction (%) in annual average concentration	Improvement
1	15 and above	High
2	<15	Low

Table B - Good days (AQI<200)		
S. No.	Increase in Good days (%)	Improvement
1	15 and above	High
2	<15	Low

Overall Performance Factor

Overall Performance Factor as per following matrix

S. No.	Reduction (%) in annual average concentration (from Table A)	Increase in Good days (%) (from Table B)	Performance Factor, $S_D =$ Score, S^*
1	High	High	100
2	Low	High	75
3	High	Low	50
4	Low	Low	25

Table 1 – Fund Allocation to Cities (Performance based)

Score of the city, S	Percentage of Fund allocation from 2021-22 onwards
80-100	100
60-80	75
50-60	50
40-50	25
Below 40	NIL

Methodology for Performance Assessment

- Annual average PM₁₀ concentration and AQI days for FY 2021-22 compared with data of previous year i.e. FY 2020-21
- Integration of daily average data of manual as well as continuous monitoring stations
- Data unavailable for a few days were computed using [linear interpolation method](#)
- $\pm 2 \sigma$ (Std. deviation) is considered for removing outliers.
- **AQI Good Days:** Number of days having the PM₁₀ concentration $\leq 250 \mu\text{g}/\text{m}^3$ (AQI < 200) is considered as Good days as per DoE Guideline.
- The calculated Air Quality Data and Scores of cities are presented in the Table- 1 and Table- 2 respectively.

Summary of Performance Assessment

As per the evaluation done (based on DoE Guidelines):

- 3 cities viz. **Allahabad, Lucknow and Varanasi** obtained score of **100**
- 6 cities viz. **Ghaziabad, Kanpur, Jodhpur, Dhanbad, Faridabad and Patna** obtained score of **25**
- **Remaining 33 cities** obtained score of **75**

Table 1- Air Quality data

Serial No.	State	City	Avg. PM ₁₀ Conc ⁿ (µg/m ³)		AQI (PM ₁₀ sub-index) days			
			2020-21	2021-22	2020-21		2021-22	
					<200	Total Observed days	<200	Total Observed days
1	Andhra Pradesh	Vijayawada	56	68	361	361	355	355
2		Visakhapatnam	96	94	348	348	350	350
3	Bihar	Patna	137	142	306	355	321	358
4	Chhattisgarh	Durg Bhilainagar*	56	60	271	271	250	250
5		Raipur*	50	57	254	254	263	263
6	Gujarat	Ahmedabad	116	108	341	341	346	346
7		Rajkot*	95	111	254	254	267	267
8		Surat*	96	102	254	254	261	261
9		Vadodara*	96	114	259	259	266	266
10	Haryana	Faridabad	216	192	227	351	254	347

Table 1- Air Quality data								
Serial No.	State	City	Avg. PM ₁₀ Conc ⁿ (µg/m3)		AQI (PM ₁₀ sub-index) days			
			2020-21	2021-22	2020-21		2021-22	
					<200	Total Observed days	<200	Total Observed days
11	Jharkhand	Dhanbad*	226	236	148	266	139	267
12		Jamshedpur*	93	92	180	180	177	177
13		Ranchi [#]	106	104	84	84	85	85
14	Karnataka	Bengaluru	59	66	350	350	353	353
15	Madhya Pradesh	Bhopal	109	110	352	352	353	353
16		Gwalior	120	105	349	353	354	354
17		Indore	92	98	354	354	355	355
18		Jabalpur	100	110	349	349	352	352
19	Maharashtra	Aurangabad	64	82	360	360	355	355
20		Mumbai	96	102	360	360	358	358
21		Nagpur	66	67	350	350	349	349
22		Nashik	49	57	351	351	363	363
23		Pune	64	82	353	353	355	355
24		Vasai virar [#]	27	45	76	76	35	35

Table 1- Air Quality data								
Serial No.	State	City	Avg. PM ₁₀ Conc ⁿ (µg/m ³)		AQI (PM ₁₀ sub-index) days			
			2020-21	2021-22	2020-21		2021-22	
					<200	Total Observed days	<200	Total Observed days
25	Punjab	Amritsar	106	116	350	350	351	351
26		Ludhiana	121	144	348	348	350	350
27	Rajasthan	Jodhpur	148	154	328	354	334	351
28		Jaipur	109	124	356	356	352	352
29		Kota	96	107	352	352	351	351
30	Tamil Nadu	Chennai	55	55	347	347	357	357
31		Madurai*	58	53	253	253	256	256
32		Trichy*	35	44	255	255	264	264
33	Telangana	Hyderabad	88	87	365	365	363	363

Table 1- Air Quality data								
Serial No.	State	City	Avg. PM ₁₀ Conc ⁿ (µg/m ³)		AQI (PM ₁₀ sub-index) days			
			2020-21	2021-22	2020-21		2021-22	
					<200	Total Observed days	<200	Total Observed days
34	Uttar Pradesh	Agra	158	139	277	354	321	351
35		Allahabad	174	122	306	344	356	356
36		Ghaziabad	212	205	224	355	229	352
37		Kanpur*	178	156	206	260	221	265
38		Lucknow*	219	144	159	271	258	268
39		Meerut	194	178	230	357	268	352
40		Varanasi*	167	92	134	179	178	178
41	West Bengal	Asansol	107	111	354	354	351	351
42		Kolkata	95	100	356	356	354	354

*Since, less than 75% of data is available for particular quarter, the reported data for the same particular quarter of the corresponding year is not considered for assessment.

#Q2 data for the assessment in 2020-21 and 2021-22 is considered.

Scores :

Based on the above Air Quality Data for year 2020-21 and 2021-22, respective scores are listed below:

Table 2- Scores					
S. No.	State	City	Reduction (%) in annual average concentration	Increase in Good days (%)	Calculated Scores
1	Andhra Pradesh	Vijayawada	Low	High	75
2		Visakhapatnam	Low	High	75
3	Bihar	Patna	Low	Low	25
4	Chhattisgarh	Durg Bhilainagar*	Low	High	75
5		Raipur*	Low	High	75
6	Gujarat	Ahmedabad	Low	High	75
7		Rajkot*	Low	High	75
8		Surat*	Low	High	75
9		Vadodara*	Low	High	75
10	Haryana	Faridabad	Low	Low	25
11	Jharkhand	Dhanbad*	Low	Low	25
12		Jamshedpur*	Low	High	75
13		Ranchi#	Low	High	75
14	Karnataka	Bengaluru	Low	High	75

Table 2- Scores

S. No.	State	City	Reduction (%) in annual average concentration	Increase in Good days (%)	Interim Scores
15	Madhya Pradesh	Bhopal	Low	High	75
16		Gwalior	Low	High	75
17		Indore	Low	High	75
18		Jabalpur	Low	High	75
19	Maharashtra	Aurangabad	Low	High	75
20		Mumbai	Low	High	75
21		Nagpur	Low	High	75
22		Nashik	Low	High	75
23		Pune	Low	High	75
24		Vasai virar [#]	Low	High	75
25	Punjab	Amritsar	Low	High	75
26		Ludhiana	Low	High	75
27	Rajasthan	Jodhpur	Low	Low	25
28		Jaipur	Low	High	75
29		Kota	Low	High	75

Table 2- Scores

S. No.	State	City	Reduction (%) in annual average concentration	Increase in Good days (%)	Interim Scores
30	Tamil Nadu	Chennai	Low	High	75
31		Madurai*	Low	High	75
32		Trichy*	Low	High	75
33	Telangana	Hyderabad	Low	High	75
34	Uttar Pradesh	Agra	Low	High	75
35		Allahabad	High	High	100
36		Ghaziabad	Low	Low	25
37		Kanpur*	Low	Low	25
38		Lucknow*	High	High	100
39		Meerut	Low	High	75
40		Varanasi*	High	High	100
41	West Bengal	Asansol	Low	High	75
42		Kolkata	Low	High	75

THANK YOU

Total Amount released as per recommendations of XV Finance Commission in FY 2020-21 & FY 2021-22 (Rs. Cr)



State	S.No.	U.A	Fund Released	State wise Amount Released	Funds released (amount in Cr)	Incentive Grants	Total funds released (State-wise)
			FY 2020-21		FY 2021-22		
Andhra Pradesh	1	Vijayawada U.A	62	135	31	7.35	66.1
	2	Visakhapatnam	73		27.75		
Bihar	3	Patna U.A.	204	204	77.25	7.35	84.6
Chhattisgarh	4	Durg Bhilainagar U.A.	52	107	26	7.35	68.7
	5	Raipur U.A.	55		28	7.35	
Gujrat	6	Ahmadabad U.A.	182	405	92		217.71
	7	Rajkot U.A.	40		20	7.35	
	8	Surat U.A.	131		66	6.43	
	9	Vadodara U.A.	52		19.50	6.43	
Haryana	10	Faridabad	48	48	6.25		6.25
Jharkhand	11	Dhanbad U.A.	52	159	6.50	4.59	72.44
	12	Jamshedpur U.A.	58		29	7.35	
	13	Ranchi U.A.	49		25		

State	S.No.	U.A	Fund Released	State wise Amount Released	Funds released (amount in Cr)	Incentive Grants	Total funds released (State-wise)
			FY 2020-21		FY 2021-22		
Karnataka	14	Bruhat Bangalore U.A.	279	279	140	7.35	147.35
Madhya Pradesh	15	Bhopal U.A.	88	299	44	7.35	146.2
	16	Gwalior U.A.	51		6.50	7.35	
	17	Indore U.A.	101		51		
	18	Jabalpur U.A.	59		30		
Maharashtra	19	Aurangabad U.A.	32	793	16	7.35	441.34
	20	Greater Mumbai U.A.	488		246	4.59	
	21	Nagpur U.A.	66		33	7.35	
	22	Nashik U.A.	41		21	7.35	
	23	Pune U.A.	134		68	7.35	
	24	Vasai-Virar City	32		16	7.35	
Punjab	25	Amritsar U.A.	38	90	14.25		33.75
	26	Ludhiana	52		19.50		

State	S.No.	U.A	Fund Released	State wise Amount Released	Funds released (amount in Cr)	Incentive Grants	Total funds released (State- wise)
			FY 2020-21		FY 2021-22		
Rajasthan	27	Jodhpur U.A.	62	281	7.75	4.59	122.94
	28	Jaipur	165		83	7.35	
	29	Kota	54		20.25		
Tamil Naidu	30	Chennai U.A.	181	233	91		131.70
	31	Madurai U.A.	31		15	7.35	
	32	Tiruchirappalli U.A.	21		11	7.35	
Telangana	33	Hyderabad UA	234	234	118		118
Uttar Pradesh	34	Agra U.A.	90	714	11.25		202.32
	35	Allahabad U.A.	62		31	7.35	
	36	Ghaziabad U.A.	121		15.25		
	37	Kanpur U.A.	148		56.25	7.35	
	38	Lucknow U.A.	148		18.75	6.43	
	39	Meerut U.A.	72		9	4.59	
	40	Varanasi U.A.	73		27.75	7.35	



State	S.No.	U.A	Fund Released	State wise Amount Released	Funds released (amount in Cr)	Incentive Grants	Total funds released (State-wise)
			FY 2020-21		FY 2021-22		
West Bengal	41	Asansol U.A.	34	419	12.75	7.35	165.6
	42	Kolkata U.A.	385		145.50		
Total (in Rs Cr)			4400	4400	1833.00	192	2025.00

U.A – Urban Agglomerate

Step by Step procedure of calculation:



1.0 Find missing values of PM₁₀ using following formula for Linear Interpolation:

S. No.	Rationale
1	Missing values between the days are computed based on Linear interpolation method
	Linear interpolation method: $R_n = R_1 + \frac{R_2 - R_1}{t_2 - t_1} \times (t_n - t_1)$
	Where, R _n = Unknown PM ₁₀ average between R ₁ & R ₂ R ₁ = Known PM ₁₀ average before missing day R ₂ = Known PM ₁₀ average after missing day t ₁ = day of R ₁ t ₂ = day of R ₂ t _n = day of R _n
2	Conitunuos unavailability of data for more than 30 days is considered as no data
	<u>Rare scenario</u>
3	If a first value of the range is unavailable, average of first 30 days is considered as initial value
4	If a last value of the range is unavailable, average of last 30 days is considered as last value

2.0 If less than 75% of interpolated data is available for particular Quarter, reported data for the particular quarter is not considered for both years.

3.0 Outlier's removal: First, average value of PM₁₀ Conc. of considered quarters' data along with standard deviation value (σ) is calculated. After that, average value is subtracted from each value of PM₁₀, if its resultant value falls outside of $\pm 2 \sigma$, then that value of PM₁₀ is not considered. (*Deviation is kept within std. deviation*)

4.0 Now, Average annual PM₁₀ Conc. is calculated after removal of outliers for both years for comparison between two years' values.

5.0 AQI Good Days: Number of days having the PM₁₀ concentration $\leq 250 \mu\text{g}/\text{m}^3$ (AQI < 200) is considered as Good days as per DoE Guideline.

5th meeting of Steering Committee

**Status of Implementation of
National Clean Air Programme (NCAP)**

July 29, 2022

Central Pollution Control Board

Status of decisions taken during 4th Meeting of Steering Committee

S. No.	Decisions taken	Action taken by CPCB
1	Training on implementation of PRANA portal to be conducted for Line Ministries/ Departments	- Meeting regarding filling of the respective Annual Action plan on PRANA portal by 8 Line Ministries conducted on May 4, 2022, - MoEFCC has filled data for 55 cities. - MHI, MoP, MoA &FW and MNRE requested for modification in their format of action plan at PRANA and same have been incorporated.
2	Data on PRANA portal may be in editable format	Plan can be saved as draft and edited before final submission.
3	Performance assessment of 82 non-attainment cities under NCAP to be completed.	Performance Assessment of all 82 non-attainment cities under NCAP completed by CPCB and assessment report shared with MoEFCC & respective SPCBs/PCCs.
4	Signing of MoUs under NCAP (CPCB, SPCB/PCC & ULB) to be completed	Signed for all cities except Delhi.
5	Mandatory mapping to be done on PFMS of each city receiving funds	It has been done for the SPCBs/PCCs under NCAP.

- Evaluate progress made in State/City action plan & report to Steering Committee.
- Review matter referred by Steering & Monitoring Committees.
- Facilitate collaboration and information sharing among States/cities/partner agencies for implementation of city specific action plan.
- Nine meetings convened during Aug., 2019 to July., 2022
 - Last meeting convened on 23-3-22. Next scheduled on 5-8-22,
 - Status of physical & financial progress in Non-Attainment Cities discussed.
 - Emphasis on expeditious utilization of funds.

Implementation Status – Actions under Knowledge & Database Augmentation

S.N	Action	Status
1	Augment annual & real time monitoring network	Manual- 882 stations in 378 cities, 28 States & 7 UTs CAAQMS- 361 stations in 185 cities, 27 States & 4UTs 508 manual stations in 240 cities proposed in FY 2022-23.
2	Setting up of 100 rural air quality monitoring stations	26 stations (manual) already installed. 17 new stations sanctioned in FY 2021-22. 50 new stations proposed in FY 2022-23.
3.	Satellite based monitoring	The project was awarded on 23.03.2019 to IIT, Delhi for a duration of 03 years with a cost of ₹ 54,32,180/- and is extended up to August, 2022 (at no cost). Following targets have been achieved: • Development of the algorithm • Calibration and evaluation of the dataset • Examining the trends in ambient PM_{2.5} over India • Identifying the major air sheds and facilitating expansion of the ground based monitoring network • Identifying locations for future CPCB network expansion; city air shed and hotspot mapping. • Draft final report has been submitted by IIT, Delhi and is under examination. • Satellite Project Stage-II, proposal received from IITD for next 05yrs for Rs. 2,73,67,711/-

Implementation Status – Actions under Knowledge & Database Augmentation

S.No	Action	Status
4	Low cost sensor based monitoring	The proposal of the project “Evaluation of Low-cost Sensors” for funding under EC Funds was recommended by Project Appraisal Committee (PAC). As per the recommendation of PAC, the Technical document of the project was sent to NPL for proposal on the project. The proposal for execution of project “Evaluation of Low-cost Sensors” has been received from CSIR-NPL on 05.07.2022 and after examination it is returned to NPL with technical inputs on 26.07.2022.
5	Review of NAAQS	• Study awarded to team led by IIT Kanpur in Jan2022 • Two meeting convened • Completion timeline: 31-12-22
6	Augment PM _{2.5} monitoring	PM_{2.5} monitoring at 382 locations. Sanctioned PM_{2.5} monitoring for 321 locations in FY 2021-22.
7	Air Information Centre	The proposal (budgetary cost: 150 Lakh) was submitted for funding under NCAP in 2020-21, No fund allocated under NCAP.

Status on Physical Progress of implementation of NCAP

Actions	No of Cities			Remark
	Completed	In Progress	MoU/ Tender Stage	
City Action Plans	132	-	-	-
Micro Action Plan on PRANA	-	65	-	-lacks quantifiable targets, details of fund
Source Apportionment Study	37	54	41	-
Action	Identified	Identified and action plan framed	Not Identified	Remark
Identification of Hot Spots	65	53	14	Expertise of IoR can used for selection for Hotspots and devising action plan
Action	Developed		Under Preparation	Remark
ERS/ GRAP	122		10	
PGRS	113 (Mob App) 19 (Helpline)		-	In Public domain & resolving mechanism (within 24-48 hours)
Constitution of AQMC	131		1	1(Bhubneshwar) - Conduct monthly meeting to review progress
Implementation Committee	132		-	

Actions	No of Cities		Remark
	Received		
Signing of MoU under XV-FC (State, ULB & MoEFCC)	42 out of 42		--
Signing of MoU under NCAP (SPCB, ULB & CPCB)	81 out of 82		Awaited from Delhi
Signing of MoU with IoR (SPCB, ULB & IoR)	131 out of 132		Awaited from Delhi
Performance Assessment (Parameter D)	Completed	Not-completed	Remark
Performance Assessment Report for NCAP cities	82	0	Assessment carried out by CPCB and report has been shared with respective states.
SLMIC recommendation for Million Plus Cities – XV-FC	-	42	Assessment has been completed by CPCB and report has been shared with respective states.
State Action Plan	6	18	Received from Delhi, Haryana, MP, Maharashtra, Telangana and UP

Financial Progress under NCAP

- Total ₹442.74 Cr released under NCAP and ₹6425 Cr released under XVFC (as per below table)

Fund details under NCAP				Total
Year	FY 19-20	FY 20-21	FY 21-22	
Total Fund Released	224.92	150.52	67.30	442.74
Total fund Utilized	24.18	76.61	126.83	227.62
Fund details under XVFC				
Total Fund Released	-	4400	2025	6425

- Components (1st & 2nd Installment) – CAAQMS, Manual Stations, Capacity building, Source Apportionment, Mechanical Sweepers, Water Sprinklers, C&D Waste Management Facility, Greening, Composting Units etc.
- Components (3rd & 4th Installment) – Actions for implementation of City Action Plan.
- Utilization Certificates for FY 21-22 awaited from Bihar, Chandigarh, Chhattisgarh, Delhi, Jharkhand, J&K, Maharashtra, MP, Nagaland ,TN & WB.

(For release of 1st Installment of FY 21-22- UC with 75% fund utilization required)

Financial Progress under NCAP

Fifteenth Finance Commission (FC-XV) – Million Plus Challenge Fund (MCF)

- FC-XV Grant of Rs. 4,400 Cr for improvement of Air Quality in 42 Million-Plus Cities in FY 2020-21 released by MoF.
- Further, a provision for grant of [Rs.12,139 Cr](#) for augmenting the measures to improve air quality in 42 Million Plus Cities for a period of 2021-22 to 2025-26.
- Grants recommended are performance linked through (MCF)
- In FY 21-22, Rs 2025 Cr have been released by DoE for 42 MPC based on performance assessment done by SLMIC headed by PS-Environment and CPCB.
- In FY 22-23, Rs. 2299 Cr to be released under XV-FC based on performance assessment.

Progress of development of NCAP Dashboard

- “[PRANA](http://www.prana.cpcb.gov.in)” (www.prana.cpcb.gov.in)– Portal for Regulation of Air-pollution in Non-Attainment cities, launched on 7th Sep 21.
- Helps in tracking of physical & financial status of city action plan implementation .
- In public domain, it contains information on:
 - National & City dashboard
 - Air quality data
 - Sectoral Ministries
 - National Knowledge Network(NKN) & Institute of Reputes (IoRs)
 - International agencies working on Air quality improvements.
- [Intranet portal having different modules](#) (i.e.Action Plan, Messaging, Hotspot, Files, Meeting, Performance assessment etc.) has been developed in collaboration with GIZ and all SPCBs/PCCs have been communicated with demo on 23-3-22, 6-5-22, 3-6-22 to fill data.
- Financial module is recently developed and integration with PFMS & Compliance with CNA is being taken up.

WAY FORWARD

- **City wise information for FY 22-23 in PRANA.**
- **Expeditious utilization of the funds.**
- **Convergence of resources and action prioritization.**
- **City wise UCs in correct format with activities in which fund is utilized.**
- **PFMS credentials and city wise account details for PRANA .**
- **SLMIC Performance Assessment Report submission**
- **Preparation of State Action Plan.**
- **Regular monitoring at city & state level**
- **Regular City level Implementation Committee meetings.**

THANK YOU

Micro Action Plan status on PRANA Portal



City-wise information to be filled on PRANA Portal

- So far 63 cities from 11 States/Uts have submitted the information for FY 21-22 namely AP (5), Bihar (3), Chandigarh, Gujarat (4), MP (7), Maharashtra (17), Rajasthan (5), Telangana (1), Uttar Pradesh (17), HP(2), Punjab(2)
- Awaited from AP(8), Assam,, Chhattisgarh, Delhi, Haryana, HP(6), J&K, Jharkhand, Karnataka, Meghalaya, Nagaland, Odisha, Punjab(7), Telangana(2), TN, Uttarakhand, WB

Source Apportionment Study



SA/ EI Completed	SA/ EI work under process	SA/ EI in MoU/ proposal stage
Bihar (Gaya, Patna, Muzaffarpur) - 3	Andhra Pradesh (Vijayawada) – 1	Andhra Pradesh (Anantapur, Chitoor, Eluru, Guntur, Kadapa, Kurnool, Nellore, Ongole, Rajahmundry#, Srikakulam, Vishakhapatnam#, Vizianagaram) - 12
Delhi* -1	Chhattisgarh (Bhilai,korba,Raipur) – 3	
	Meghalaya (Byrnihat#) – 1	Assam (Guwahati#, Nagaon, Nalbari, Sibsagar, Silchar) - 5
Himachal Pradesh (Baddi, Damtal, Kala-Amb, Nalagarh, Paonta Sahib, Parwanoo, Sunder Nagar)-7	Jammu & Kashmir (Jammu & Srinagar) - 2	Chandigarh (Chandigarh#) - 1
Gujarat (Ahmedabad, Surat) – 2		Gujarat (Vadodara#, Rajkot) – 2
Jharkahand (Dhanbad) -1	Jharkhand (Ranchi & Jamshespur) – 2	Nagaland (Dimapur & Kohima#) – 2
Punjab (Jalandhar & Ludhiana, Mandi-Gobindgarh, Khanna, Patiala, Dera Bassi, Naya Nangal, Dera Baba Nanak)-8	Punjab (Amritsar) - 1	Haryana (Faridabad) - 1
Karnataka (Bangalore) – 1		Karnataka (Gulburga, Hubli Dharwad and Devanagere#) – 3
	Madhya Pradesh (Bhopal, Gwalior) – 2	Madhya Pradesh (Indore#, Ujjain,, Dewas & Sagar, Jabalpur)-5
Maharashtra (Mumbai, Pune, Solapur, Nashik, Navi Mumbai, Kolhapur, Amravati, Aurangabad) - 8	Maharashtra (Badlapur, Akola, Chandarpur, Jalgaon, Jalna, Latur, Ulhasnagar, Sangli, Thane, Nagpur) - 10	Maharashtra (Vasai Virar) -1
	Odisha (Angul, Talcher, Cuttack**, Bhubaneswar#**, Kalinganagar & Rourkela) – 6	Odisha (Balasore#) – 1
Rajasthan (Jaipur)-1	Rajasthan (Alwar, Jodhapur, Udaipur)-4	Rajasthan (Kota) - 1
	Uttarakhand (Dehradun, Kashipur & Rishikesh)-3	Tamil Nadu (Chennai, Madurai, Trichy & Thoothukudi) -4
	Telangana (Hyderabad & Patancheruvu)-2	Telangana (Nalgonda# & Sangareddy)-2
Uttar Pradesh (Kanpur, Agra & Ghaziabad)-3	Uttar Pradesh (Allahabad, Lucknow, Bareilly#, Moradabad#, Anpara,, Firozabad, Gajraula, Jhansi, Khurja, Raebareli, Noida# & Varanasi)-12	Uttar Pradesh (Gorakhpur, Meerut) -2
West Bengal (Kolkata & Howrah)-2	West Bengal (Asansol, Durgapur & Raniganj)- 3	West Bengal (Barrackpore, Haldia)-2
37 cities	54 cities	41 cities

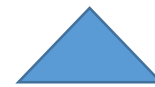
*In Delhi SA/EI Study is also ongoing; #city proposed for joint study with CPCB;

Information for Emergency response system (ERS)



ERS developed/part of action plan		ERS development under process
Andhra Pradesh-13	Madhya Pradesh - 7	Assam-5
Bihar-3	Meghalaya-1	Chhattisgarh-2
Chandigarh-1 Chattisgarh-1	Nagaland-2	Karnataka -3
Delhi-1	Odisha-7	
Gujarat-4	Punjab-9	
Haryana - 1	Rajasthan-5	
Himachal Pradesh-7	Tamil Nadu-4	
Jammu & Kashmir-2	Telangana-4	
Jharkhand-3	Uttar Pradesh -17	
Karnataka - 1	Uttarakhand-3	
Maharashtra-19	West Bengal-6	
122 cities		10 cities

Information for identifying Hot spots



Identified & action plan in place	Identified but action plan to be framed	Not identified/ no information
Delhi – 1	Andhra Pradesh - 13	Assam-2
Gujarat - 4	Assam - 3	Chhattisgarh- 3
Jharkhand -2	Bihar-3	Karnataka- 3
Meghalaya – 1	Rajasthan-2	Maharashtra- 3
Punjab - 6	Chandigarh -1	Punjab-1
Rajasthan – 3	Jammu & Kashmir – 2	Nagaland-2
Himachal Pradesh - 7	Jharkhand -1	
Uttar Pradesh - 16	Madhya Pradesh - 7	
Telangana - 4	Maharashtra - 5	
Odisha - 7	UP-1	
Maharashtra - 10	Punjab – 3	
Karnataka- 1	West Bengal – 7	
Nagaland -2	Uttarakhand - 3	
Haryana-1	Tamil Nadu - 4	
65 cities	53 cities	14 cities

Status of Public Grievance Redressal System (PGRS)



Developed PGRP on the pattern of Sameer app		Developed dedicated helpline numbers/web portal	Under development
Andhra Pradesh-13	Meghalaya-1	Assam-5	
Delhi-1	Haryana – 1	Chhattisgarh-3	
Gujarat-4	Odisha-7	Karnataka-4	
Haryana – 1	Punjab-9	Tamil Nadu-4	
Himachal Pradesh-7	Rajasthan-5	Nagaland-2	
Jammu & Kashmir-2	Telangana-4	Chandigarh-1	
Jharkhand-3	West Bengal-7		
Madhya Pradesh-7	Uttar Pradesh-17		
Maharashtra-19	Uttarakhand-3		
Bihar- 3			
113 cities		19 cities	-



<u>Air Quality Monitoring Cell (AQMC) & Implementation Committee at ULB level</u>					
S. No.	State/ UTs	AQMC		Implementation Committee	
		Constituted	Not Constituted	Constituted	Not Constituted
1.	Andhra Pradesh (13)	13	-	13	-
2.	Assam (5)	5	-	5	-
3.	Bihar (3)	3	-	3	-
4.	Chandigarh (1)	1	-	1	-
5.	Chhattisgarh (3)	3	-	3	-
6.	Delhi (1)	1	-	1	-
7.	Gujarat (4)	4	-	4	-
8.	Haryana (1)	1	-	1	-
9.	Himachal Pradesh (7)	7	-	7	-
10.	Jharkhand (3)	3	-	3	-
11.	Jammu & Kashmir (2)	2	-	2	-
12.	Karnataka (4)	4	-	4	-
13.	Madhya Pradesh (7)	7	-	7	-

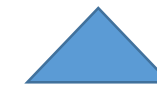


<u>Air Quality Monitoring Cell (AQMC) & Implementation Committee at ULB level</u>					
S. No.	State/ UTs	AQMC		Implementation Committee	
		Constituted	Not Constituted	Constituted	Not Constituted
14.	Maharashtra (19)	19	-	19	-
15.	Meghalaya (1)	1	-	1	-
16.	Nagaland (2)	2	-	2	-
17.	Odisha (7)	6	1	7	-
18.	Punjab (9)	9	-	9	-
19.	Rajasthan (5)	5	-	5	-
20.	Tamil Nadu (4)	2	-	4	-
21.	Telangana (4)	4	-	4	-
22.	Uttar Pradesh (17)	17	-	17	-
23.	Uttarakhand (3)	3	-	3	-
24.	West Bengal (7)	7	-	7	-
Total		131	1	132	

At least 1 CAAQMS connected to CPCB CCR

S. No.	State/ UTs	Connected	Process of installation	Not connected/ installed	S. No.	State/ UTs	Connected	Process of installation	Not connected/ installed
1.	Andhra Pradesh (13)	3	-	10	13.	Madhya Pradesh (7)	7	-	-
2.	Assam (5)	1	-	4	14.	Maharashtra (19)	10	9	-
3.	Bihar (3)	3	-	-	15.	Meghalaya (1)	-	-	1
4.	Chandigarh (1)	1	-	-	16.	Nagaland (2)	1	-	1
5.	Chhattisgarh (3)	-	-	3	17.	Odisha (7)	1	-	6
6.	Delhi (1)	1	-	-	18.	Punjab (9)	6	1	2
7.	Gujarat (4)	1	2	1	19.	Rajasthan (5)	5	-	-
8.	Haryana	1	-	-	20.	Tamil Nadu (4)	2	2	-
9.	Himachal Pradesh (7)	-	1	6	21.	Telangana (4)	2	1	1
10	Jharkhand (3)	1	-	2	22.	Uttar Pradesh (17)	5	6	6
11.	Jammu & Kashmir (2)	1	1	-	23.	Uttarakhand (3)	-	3	-
12.	Karnataka (4)	4	-	-	24.	West Bengal (7)	5	-	2

For 2nd Instalment: Summary of Assessment of Performance Factor



- **43 cities** scored more than 100 marks – eligible for 100% fund allocation.
- **2 cities** scored between 60-80 marks - eligible for 75% fund allocation
- **3 cities** scored between 40-50 marks - eligible for 25 % fund allocation
- **34 cities** scored below 40 marks - eligible for no fund

Score of the City (S)	Percentage of Fund allocation	Cities
> 80 - 100	100	Srinagar, Gorakhpur, Moradabad, Firozabad, Bareilly, Dehradun, Guwahati, Cuttack, Bhubneshwar, Kolhapur, Amravati, Solapur, Gulbarga, Hubli-Dharwad, Sangli, Nellore, Khurja*, Raebareli, Rishikesh, Udaipur, Alwar, Dewas, Balasore, Thoothukuddi*, Dimapur, Latur, Pathankot/Dera Baba*, Akola, Davanagere, Ongole, Anantapur, Chittoor, Gajraula*, Anpara, Gobindgarh, Nalagarh*, Talcher, Naya Nangal, Sangareddy, Kohima, Sunder Nagar, Parwanoo, Sibsagar (43)
>60-80	75	Noida, Kashipur (2)
>50-60	50	-
>40-50	25	Rourkela, Jalna, Baddi (3)
Below 40	Nil	Delhi, Chandigarh, Jammu, Durgapur, Jalandhar, Jhansi, Ujjain, Guntur, Muzzafarpur*, khanna, Patiala, Chandrapur, Nagaon*, Gaya, Sagar, Haldia, Vizianagaram, Srikakulam, Eluru, Nalgonda*, Rajahmundry, Jalgaon, Kurnool, Korba*, Kadapa, Silchar*, Kalinga Nagar, Dera Bassi, Brynihat, Angul, Paonta Sahib, Nalbari, Damtal, Kala Amb* (34)

Table for Performance Factor

Sl. No.	City/ Town and population	Annual Average PM ₁₀ Concentration (µg/m ³) 2019-20	Target and Actual reduction of PM ₁₀ Concentration (µg/m ³) FY 2021-22			Performance Factor (P)
			Unit Reduction		Value Achieved	
			Actual	Target	Actual	
1	Delhi	178	-6	14	184	0
2	Srinagar	122	22	8	100	275
3	Chandigarh	88	-4	5	92	0
4	Gorakhpur	280	138	31	142	445
5	Moradabad	247	96	25	151	384
6	Firozabad	205	69	18	136	383
7	Noida	203	12	18	191	67
8	Bareilly*	183	16	14	167	114
9	Dehradun	166	29	13	137	223
10	Jammu	146	-6	10	152	0
11	Durgapur	129	-29	8	158	0
12	Jalandhar	118	-12	7	130	0

Sl. No.	City/ Town and population	Annual Average PM ₁₀ Concentration (µg/m ³) 2019-20	Target and Actual reduction of PM ₁₀ Concentration (µg/m ³) FY 2021-22			Performance Factor (P)
			Unit Reduction		Value Achieved	
			Actual	Target	Actual	
13	Rourkela	110	3	7	107	43
14	Guwahati	106	10	6	96	167
15	Jhansi	102	-5	6	107	0
16	Cuttack	102	14	6	88	233
17	Bhubaneswar	98	7	6	91	117
18	Kolhapur	90	12	5	78	240
19	Ujjain	88	-22	5	110	0
20	Amravati	88	22	5	66	440
21	Solapur	86	31	5	55	620
22	Gulburga	82	4	4	78	100
23	Hubli-Dharwad	76	11	4	65	275
24	Sangli	67	10	3	57	335
25	Nellore	67	12	3	55	400

Cont..

Sl. No.	City/ Town and population	Annual Average PM ₁₀ Concentration (µg/m ³) 2019-20	Target and Actual reduction of PM ₁₀ Concentration (µg/m ³) FY 2021-22			Performance Factor (P)
			Unit Reduction		Value Achieved	
			Actual	Target	Actual	
26	Guntur	57	-1	3	58	0
27	Khurja*	214	77	23	137	335
28	Raebareli	152	38	11	114	345
29	Rishikesh	135	24	9	111	267
30	Udaipur	130	8	9	122	89
31	Kashipur	126	5	8	121	63
32	Alwar	125	15	8	110	188
33	Muzaffarpur*	124	-23	7	147	0
34	Khanna	106	2	6	104	33
35	Patiala	98	-5	6	103	0
36	Jalna	95	2	5	93	40
37	Chandrapur	90	-13	5	103	0

Sl. No.	City/ Town and population	Annual Average PM ₁₀ Concentration (µg/m ³) 2019-20	Target and Actual reduction of PM ₁₀ Concentration (µg/m ³) FY 2021-22			Performance Factor (P)
			Unit Reduction		Value Achieved	
			Actual	Target	Actual	
38	Dewas	89	10	5	79	200
39	Nagaon*	84	-13	5	97	0
40	Balasore	86	12	5	74	240
41	Thoothukudi*	84	17	4	67	425
42	Dimapur	83	5	4	78	125
43	Latur	82	25	4	57	625
44	Gaya	79	-14	4	93	0
45	Sagar	72	0	4	72	0
46	Haldia	71	-22	3	93	0
47	Pathankot/Dera Baba*	69	3	3	66	100
48	Vizianagaram	67	-4	3	71	0
49	Akola	67	4	3	63	133
50	Srikakulam	65	-7	3	72	0

Sl. No.	City/ Town and population	Annual Average PM ₁₀ Concentration (µg/m ³) 2019-20	Target and Actual reduction of PM ₁₀ Concentration (µg/m ³) FY 2021-22			Performance Factor (P)
			Unit Reduction		Value Achieved	
			Actual	Target	Actual	
51	Eluru	64	-1	3	65	0
52	Devanagere	63	10	3	53	333
53	Ongole	60	7	3	53	233
54	Anantapur	60	11	3	49	367
55	Nalgonda*	59	-10	3	69	0
56	Rajahmundry	59	-7	3	66	0
57	Jalgaon	56	-3	3	59	0
58	Kurnool	56	-4	2	60	0
59	Korba*	47	-13	2	60	0
60	Chittoor	52	4	2	48	200
61	Kadapa	47	-7	2	54	0
62	Silchar*	44	-2	2	46	0

Sl. No.	City/ Town and population	Annual Average PM ₁₀ Concentration (µg/m ³) 2019-20	Target and Actual reduction of PM ₁₀ Concentration (µg/m ³) FY 2021-22			Performance Factor (P)
			Unit Reduction		Value Achieved	
			Actual	Target	Actual	
63	Gajraula*	215	69	19	146	363
64	Anpara	171	17	13	154	131
65	Baddi	133	4	9	129	44
66	Gobindgarh	127	12	8	115	150
67	Nalagarh*	103	29	7	74	414
68	Talcher	107	30	6	77	500
69	Kalinga Nagar	104	-9	6	113	0
70	Naya Nangal	99	34	6	65	567
71	Dera Bassi	99	2	6	97	33
72	Byrnihat	98	-85	6	183	0
73	Angul	95	-1	5	96	0

Sl. No.	City/ Town and population	Annual Average PM ₁₀ Concentration (µg/m ³) 2019-20	Target and Actual reduction of PM ₁₀ Concentration (µg/m ³) FY 2021-22			Performance Factor (P)
			Unit Reduction		Value Achieved	
			Actual	Target	Actual	
74	Sangareddy	85	5	5	80	100
75	Kohima	80	13	4	67	325
76	Paonta Sahib	78	-9	4	87	0
77	Nalbari	75	-21	4	96	0
78	Sunder Nagar	68	22	3	46	733
79	Parwanoo	59	25	0	34	100
80	Sibsagar	55	10	0	45	100
81	Damtal	50	-13	0	63	0
82	Kala Amb*	50	-58	0	108	0

Annexure IV

Review Meeting of 5th Steering committee under National Clean Air Programme (NCAP)

13th July 2022

State: MAHARASHTRA

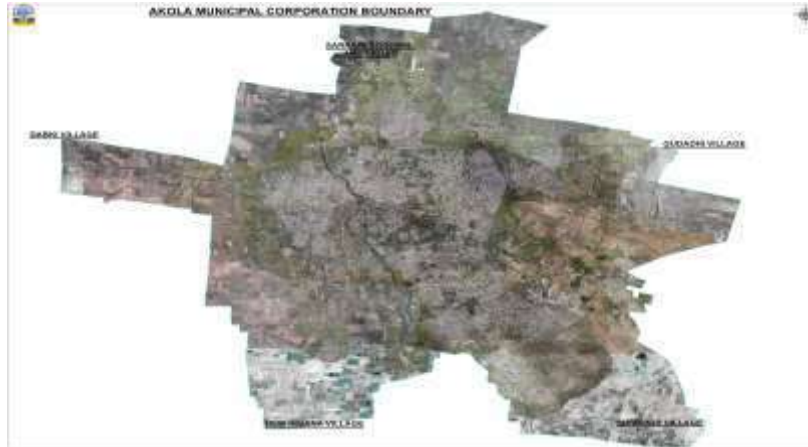
Name of the Non-Attainment City: Akola Municipal Corporation

Outline of presentation

- About Akola city
- Issues
- Initiatives so far
- NCAP fund utilization
- Convergence of schemes
- Way forward

Introduction

- Akola Municipal corporation was formed on 1st October 2001
- Akola city population as per 2011 censuses was 4,25,817
- in 2016 area of Akola Municipal corporation expanded to 124sq.km due to inclusion of 24 villages.
- Akola Municipal Corporation is well connected with Road network & Railway network.
- Two Rivers flowing across the city Morna & vidrupa.



Issues

- Legacy Garbage Disposal
- 40 % Of The City Does Not Have Basic Infrastructure like Roads And Drainage
- This Leads To Heavy Dust in the Air
- 80 Slums Have Been Declared Where Garbage Is Disposed In Common Areas
- The Climate Is Very Dry And The City Experiences Very High Temperature
- Encroachment And Illegal Construction On Massive Scale
- High Dependency On External funds. Own Funds Spent On Servicing Administrative Costs

Situation That Was..

Legacy waste spread
over 12 acre
land(Situation As in
September-2021)



Poor or no
infrastructure at all



Initiatives so far

1. Prepared Master Plan of 300 Crores For Roads And Drainage In Areas With No Infrastructure Coverage Amount
To the Extent of 75 Crores spent on basic infrastructure in the last 9 months
2. Decongestion of Traffic hotspot.
 - i. Town vendor committee meetings.
 - ii. Coordinated with NHAI & get the flyover work completed & provided infrastructure internal roads , light helped drainage.
 - iii. Identification of Auto rickshaw/ Bus parking areas etc.
 - iv. Shifting of Congested Market Area To Outskirts of The City
3. Resolved the issue of legacy garbage there by Reduction In air pollution due to fire on the Dumping site.
4. Prepared feasibility report for traffic signal management
5. Completed 75% of Survey Hawker And Notified Two Sites For Hawker Rehabilitation
6. Started tree census as per the Supreme court direction.

Dumping site

60 % of the legacy waste converted into biosand. Situation As in February 2022



Processing Plant Site



Dumping site Road

Approach road to the dumping ground September-2021



Approach road to the dumping ground on date



De-silting and Drain Cleaning



	Decimal	DMS
Latitude	20.715302	20°42'55" N
Longitude	77.033509	77°2'0" E

2022-06-29(Wed) 09:54(AM)



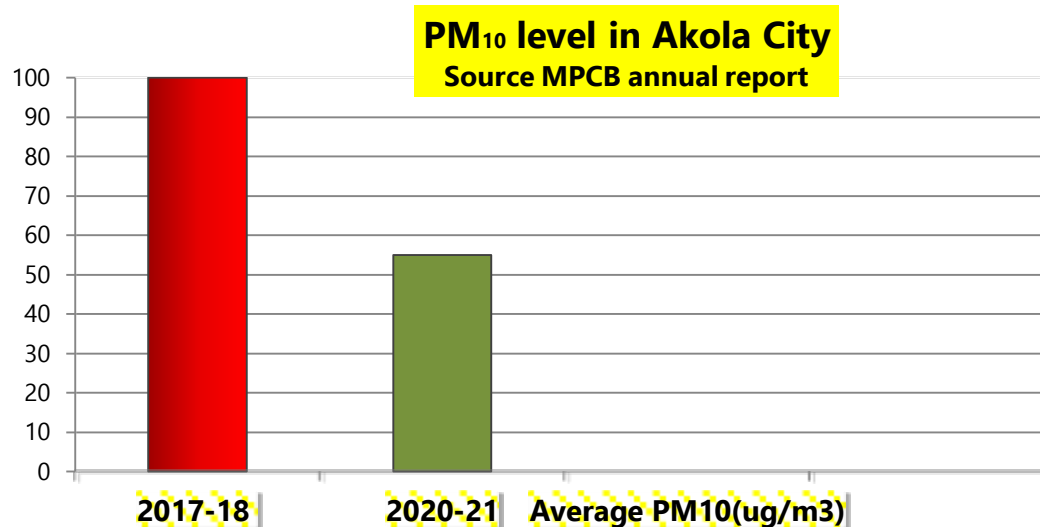
Akola
Maharashtra
India

2022-06-25(Sat) 04:02(pm)

32°C
90°F

Status of Air Quality in Akola City.

- Major problem of Akola city was dust pollution.
- In the Year 2017-2018 average PM₁₀ level concentration was beyond 100(ug/m³) in Akola city.
- Reduction in the air pollution levels
- As per Annual report 2020-21 of MPCB PM₁₀ concentration in Akola City reduce to 55(ug/m³)



NCAP fund utilization

- Initiatives in order to resolve dust pollution Akola municipal corporation mainly focused on decongestion of traffic hotspot, development of hawker zones, development of gardens in hotspot area.
- Decongestion of traffic hotspot-solar based automatic Traffic signal system installed at 5 locations
 - Civil line square,
 - Ratanlal plot square,
 - Agrasen Square,
 - Bus depot square,
 - city kotwali square
- Development of hawker zones in order to avoid congestion on road
- Purchasing of 4 E-vehicle Mounted machines for spraying
- IEC activity- workshop at schools & colleges, PUC campaign, stakeholder meeting, micro Action plan preparation, IEC campaign with the help of astitva foundation through tree plantation
- Development of water fountain & green patches in
 - Maharana pratap garden,
 - Gandhi-jawahar bagh, &
 - other gardens which are situated in hotspot area.
- Paving of side margins of main road to avoid dust pollution
- 250 potholes removed from 28 roads Pothole

Fund Utilization Statement (IN CRORES)

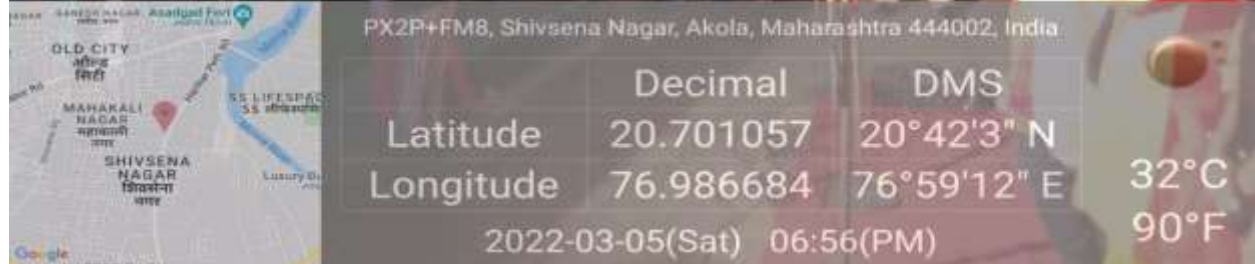
Funds Received			Total	Fund Utilization		
FY 2019-20	FY 2020-21	FY 2021-22		Sr. no	Component	Amount spent
0.1	1.14	0	1.24	1	IEC	0.02
				2	Measures for Mitigation of Traffic Congestion	0.37
				3	Hawker zone Management	0.28
				4	E-Vehicle Procurement	0.22
				5	Garden Improvement and Fountains	0.2
				6	Paver Blocks	0.06
				7	Green Space Rejuvenation	0.09
					Total	1.24

IEC

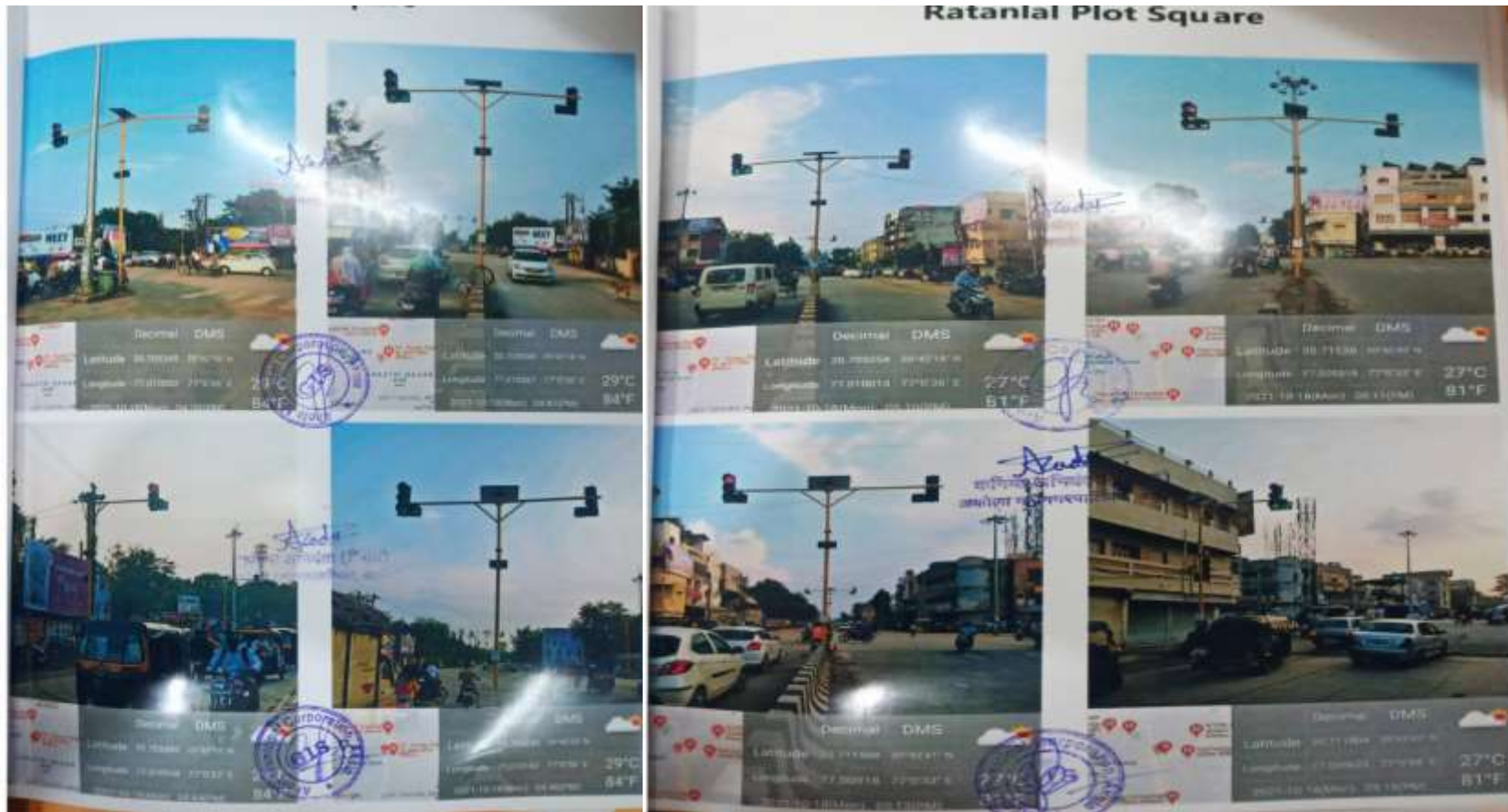
Wall painting



Street Show



Measures for Mitigation of Traffic Congestion



Tree Plantation



Tree Plantation



E-Spraying Machine



Mahatma Gandhi Rd, New Radhakrishnan Plots, Akola, Maharashtra 444001, India

	Decimal	DMS
Latitude	20.707821	20°42'28" N
Longitude	76.998068	76°59'53" E

2022-02-05(Sat) 08:35

18
64



Mahatma Gandhi Rd, New Radhakrishnan Plots, Akola, Maharashtra 444001, India

	Decimal	DMS
Latitude	20.707821	20°42'28" N
Longitude	76.998068	76°59'53" E

2022-02-05(Sat) 08:35

18°C
64°F

Pavers

[illegible]

कक्षागीत कवय्यात येले की, वरील चिही संदर्भातील काळातून आदेशाभागीत मनुष्य काढावे आहे.

84/1150
अभिप्रेत
सावित्रीबाई फाटक स्त्री शिक्षण संस्थान
अकोला महाराष्ट्र राज्य शिक्षण, अकोला




 सचिव, अधिष्ठाता
 राष्ट्रीय अभिलेख संग्रहालय विभाग
 अखिल भारतीय संग्रहालय, अखिल भारतीय

Scanned with CamScanner

Green space rejuvenation



Convergence of schemes

- Completed Projects.

Sr.No	Name of Scheme	Allotted fund (in Cr.)	Utilization of funds
1	Amrut-1	4.5	35 green spaces in the city.
2	SWM	8.06	Resolved the issue of air pollution due to burning of legacy waste.
3	15 finance commission	0.10	De-silting of 17 drainages
4	ULB fund	3	To develop dumping site road which was the main source of dust in north zone.
5	Dalitvasti, dalittetar, nagarothan, MLA Funds	0.5	Removal of around 250 potholes on 28 main roads.

- Proposed.

Sr.No	Name of Scheme	Allotted fund (in Cr.)	Utilization of funds
1	Amrut sarovar	12	Water body rejuvenation proposed for five sites.
2	NHAI	-----	NHAI will plant 16000 trees in 12 hectare in compesation for Felling 285 trees

Way forward financial year 2022-2026

- E-vehicle ,parking depot, charging stations.
- Mechanical sweeping machine,
- Footpath construction, Road widening , Water fountains & traffic island
- Intelligent traffic & hawker management system, Smart parking
- New green spaces, Creation of Miyavaki forest pockets .
- Di-silting and Drainage beautification.
- Construction & Demolition (C&D) Waste, Installation of Crematoriums
- IEC.

TOTAL FUND REQUIREMENT (IN CRORES)

Sr.No	Component	2022	2023	2024	2025	2026	Total
c	EV component	3.25	19.5	13.5	10.7	0.5	47.45
2	Dust Mitigation Measures	102	85	76	65	65	393
3	Construction & Demolition (C&D) Waste	1.45	0	0	0	0	1.45
4	Installation of Crematoriums	2	6	1.92	0	0	9.92
5	IEC	2	6	1.92	0	0	9.92
	Total	110.7	116.5	93.34	75.7	65.5	461.74

EV Component (In Crores)

S N	Project	Details	2022	2023	2024	2025	2026	Total
1	25 e-buses.	25 number of e-buses one-procurement method & operation and maintenance out source.	00.00	6.00	5.00	4.00	0.00	15.00
2	1 Nos. of E-bus depot development	Development of e-bus depot for maintenance of e-buses and charging infrastructure	0.00	5.00	0.00	0.00	0.00	5.00
3	40 Electric charging points	Setting up electric vehicle charging Points.	0.50	1.00	1.00	0.50	0.50	3.50
4	150 SWM Vehicles (EV/CNG)	150 SWM Vehicles for Primary Waste Collection & transportation	1.00	5.00	5.00	4.00	0.00	15.00
5	EV battery swapping Station	300 Swapping stations	0.50	2.5	2.5	2.2	0.00	7.7
6	Ev mounted spraying & toilet cleaning machine.	20 Ev mounted spraying & toilet cleaning machine.	1.25	0.0	0.0	0.0	0.0	1.25
Total			3.25	19.5	13.5	10.7	0.5	47.45

Dust Mitigation Measures (In Crores)

S N	Project	Details	2022	2023	2024	2025	2026	Total
1	Mechanical sweepers for major Roads	Two mechanical sweeping machine for 23 km 4-lane roads & two more machines future road length of 18 km	2.00	2.00	0.00	0.00	0.00	4.00
2	Footpath construction	Construction of footpaths for 51km .	0.00	20.00	20.00	20.00	20.00	80.00
3	Road widening	Road widening proposed for three major roads.	5.00	10.00	10.00	0.00	0.00	25.00
4	Water fountains & traffic island	for 18 squares	4.00	4.00	1.00	0.00	0.00	9.00
5	Intelligent traffic & hawker management system.	for 18 squares	6.00	4.00	0.00	0.00	0.00	10.00
6	Smart parking	For four locations	20.00	20.00	20.00	20.00	20.00	100.00
7	New green spaces	Creation of 200 gardens and green spaces initially & 300 locations later on.	40.00	10.00	10.00	10.00	10.00	80.00
8	Creation of miyavaki forest pockets .	At 20 locations in the city & along the national highway.	5.00	5.00	5.00	5.00	5.00	25.00
9	Di-silting of nallah's	6 in phase1 and 11 in later phases.	20.00	10.00	10.00	10.00	10.00	60.00
		Total	102	85	76	65	65	25393

Construction & Demolition (C&D) Waste (In Crores)

SN	Project	Details	2022	2023	2024	2025	2026	Total
1	1 No of C&D plant of 50MT capacity	Installation and operation of C&D waste processing plant.	1.45	0.00	0.00	0.00	0.00	1.45
		Total	1.45	0.00	0.00	0.00	0.00	1.45

Installation of Crematoriums (In Crores)

SN	Project	Details	2022	2023	2024	2025	2026	Total
1	electric Crematorium	Using vertical water scrubber to clean the smoke coming from pyres.	0.00	0.75	0.00	0.00	0.75	1.25
		Total	0.00	0.75	0.00	0.00	0.75	1.5

IEC (In Crores)

SN	Project	Details	2022	2023	2024	2025	2026	Total
1	wall painting, workshops, hoardings & display board.	IEC will be used for garbage segregation, plastic ban, afforestation.	1.00	0.5	0.5	0.5	0.5	3.00
		Total	2.00	6.00	1.92	0.00	0.00	9.92

An aerial photograph of a lush green landscape. In the upper right, a large, irregularly shaped pond with greenish water is visible. To the left of the pond, there is a small building with a blue roof and a smaller structure with a white roof. The foreground is dominated by dense green vegetation and trees. The text "THANK YOU" is overlaid in the center in a large, blue, serif font.

THANK YOU

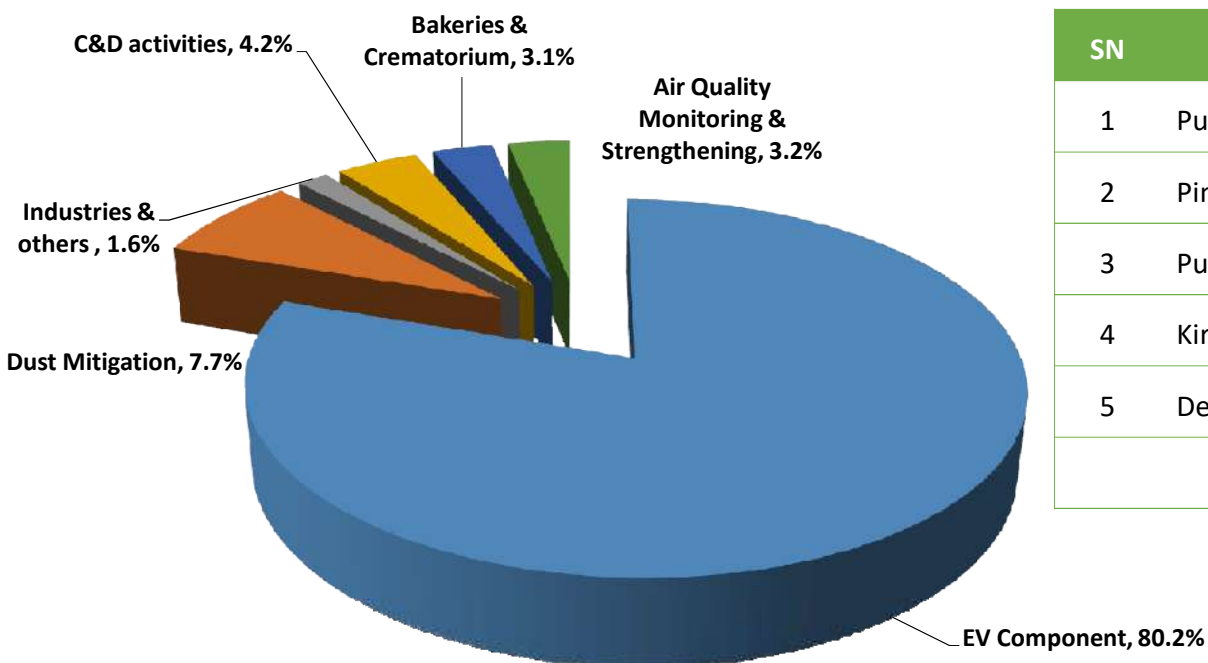


5th Steering Committee meeting NCAP
Activities undertaken for improving Air Quality
Pune Municipal Corporation

29th July 2022

XVFC & NCAP

SrNo	Activities	Details
A	City Level Implementation Committee Meetings	Constituted – Number of Meetings conducted - 11
B	Status of ERS/PGMS	PMC Care Website and Mobile Application for PGMS Helpline number [1800 103 0222]
C	Status of Emission Inventory (EI) & Source Apportionment Study (SAS)	a. SAFAR-India (Pune) – High resolution gridded emissions inventory of Pune, Pimpri-Chinchwad Regions (Year2020) b. EI & SAS by MPCB is completed
D	MoU signed with IoR's	MoU has been signed between MPCB, PMC & Savitribai Phule Pune University and a copy is submitted to MPCB.
E	Identification of Hotspots	Yes – 10 locations Action plan preparation for the identified hotspots is in progress



SN	Name	XVFC Grant
1	Pune Municipal Corporation	Rs 311.89Cr
2	Pimpri-Chichwad Municipal Corporation	Rs 172.97
3	Pune Cantonment Board	Rs 7.19
4	Kirkee Cantonment Board	Rs 7.05
5	Dehuroad Cantonment Board	RS 4.90
Total		Rs 504Cr

Components	EV Component	Dust Mitigation	Industries & others	C&D activities	Bakeries & Crematoria	Air Quality Monitoring & Strengthening	TOTAL
MPCB Suggested Share in %	80.0%	8.0%	2.0%	4.0%	3.0%	3.0%	100%
Proposed share by PMC (%)	80.2%	7.7%	1.6%	4.2%	3.1%	3.2%	100%
PMC – Rs Cr	Rs 250.00	Rs 24.00	Rs 5.00	Rs 13.00	Rs 9.92.00	Rs 9.97	Rs 311.89

FY 2020-21		FY 2021-22	
Total Funds Received	Funds utilized	Total Funds Received	Funds utilized & Actions
Rs 67 Cr 1 st Installment	-	Rs 67 Cr 2 nd Installment	Pune Municipal Corporation – Rs 67Cr + Rs 15.92Cr = Rs 82.92Cr Funds transferred to ULB's in Urban Agglomeration as below – Dehu Road Cantonment Board - Rs 1,30,32,112 dated 03-09-2021 Khadki Cantonment Board – Rs 1,87,38,334 dated 03-09-2021 Pune Cantonment Board – Rs 1,91,19,494 dated 03-09-2021 PCMC – Rs 45,98,65,492 dated 03-09-2021
			Rs. 4,59,36,970 have been received from State as incentive – dt10-06-2022

EV Component (80%)										
S N	Project	Details	2022 In Cr	2023 In Cr	2024 In Cr	2025 In Cr	2026 In Cr	Total In Cr	Project Stage	Project Target Completion Month & Year
1	200 e-buses on wet lease basis	200 number of e-buses on OPEX model with electrical and civil infrastructure	60.00	30.00	10.00	0.00	0.00	100.00	Tender Floated	Dec-22
2	6 Nos. of E-bus depot development	Development of e-bus depot for maintenance of e-buses and charging infrastructure	10.00	10.00	10.00	0.00	0.00	30.00	Estimate preparation in progress	Mar-23
3	500 Electric charging points	Setting up electric vehicle charging Points at PMPML's depots & bus Stands for PMPML use and public use in Pune	14.00	12.00	14.00	0.00	0.00	40.00	MSEDCL Charging infra - Work Started	Mar-23
4	400 SWM Vehicles (EV/CNG)	400 SWM Vehicles for Primary Waste Collection	15.00	10.00	15.00	0.00	0.00	40.00	Tender approval process - 108 CNG vehicles technology demonstration will be given - 35 EV vehicles	Dec-22
5	EV battery swapping Station	625 Swapping stations with 2 set of 16 batteries having a capacity of 1.5 kWh each	7.00	3.00	5.00	0.00	0.00	15.00	Proposal preparation in progress	Mar-23
6	EV based first & last mile connectivity	Vehicle & infrastructure development of shared mobility services for first and last mile connectivity	15.00	5.00	5.00	0.00	0.00	25.00	Proposal preparation in progress	Dec-22
Total			121.00	70.00	59.00	0.00	0.00	250.00		

Dust Mitigation Measures (7.7%)										
S N	Project	Details	2022 In Cr	2023 In Cr	2024 In Cr	2025 In Cr	2026 In Cr	Total In Cr	Project Stage	Project Target Completion Month & Year
1	Mechanical sweepers for major Roads	3 Routes within the city are being tendered out to be swept using Mechanical sweepers	3.00	5.00	2.00	0.00	0.00	10.00	Estimate committee approval in progress	Dec-22
2	Cycle Track and Footpath construction	Construction of cycle tracks and footpaths in 2 Kms of roads. This includes both side of the road footpath and Cycle track	8.00	5.00	0.00	0.00	0.00	13.00	Tender floated	Dec-22
3	Air pollution control system for Hot mix plant	Under Road dept, for one hot mix plant to install the air pollution control system	0.50	0.50	0.00	0.00	0.00	1.00	Tender floated	Dec-22
Total			11.50	10.50	2.00	0.00	0.00	24.00		

Industry, Others (1.6%)										
S N	Project	Details	2022 In Cr	2023 In Cr	2024 In Cr	2025 In Cr	2026 In Cr	Total In Cr	Project Stage	Project Target Completion Month & Year
1	Automizer based water fountains for major traffic intersections	Total 5 nos of Automiser mist based	2.00	3.00	0.00	0.00	0.00	5.00	Proposal preparation in progress	Dec-22
		Total	2.00	3.00	0.00	0.00	0.00	5.00		

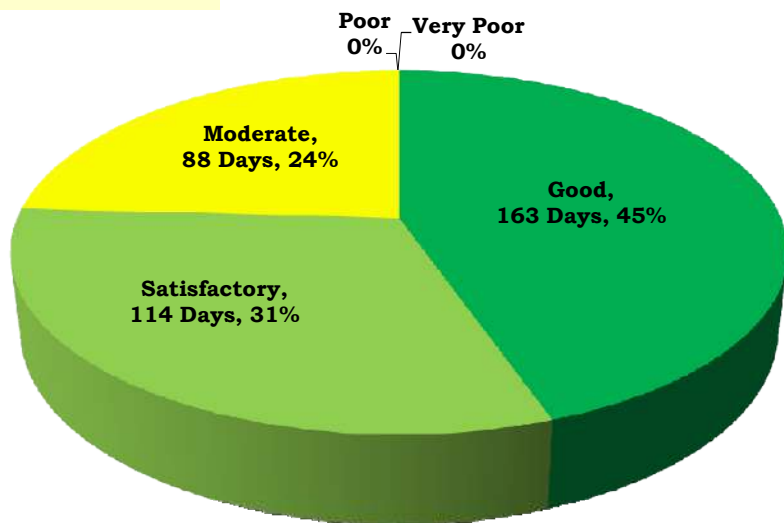
Construction & Demolition (C&D) Waste (4.2%)										
SN	Project	Details	2022 In Cr	2023 In Cr	2024 In Cr	2025 In Cr	2026 In Cr	Total In Cr	Project Stage	Project Target Completion Month & Year
1	C&D waste feeder points at each ward	Developing Feeder points to collect small C&D waste from each ward. The structures will be designed to prevent Dust pollution. 15 Feeder points.	3.00	3.00	2.00	0.00	0.00	8.00	Estimate preparation in progress	Dec-22
2	1 No of C&D plant of 250MT capacity	Installation and operation of C&D waste processing plant on DBOT basis	2.00	3.00	0.00	0.00	0.00	5.00	Estimate preparation in progress	Mar-23
	Total		5.00	6.00	2.00	0.00	0.00	13.00		
Installation of Crematoriums (3.1%)										
SN	Project	Details	2022 In Cr	2023 In Cr	2024 In Cr	2025 In Cr	2026 In Cr	Total In Cr	Project Stage	Project Target Completion Month & Year
1	Air pollution control systems for wood fired cremations	Using vertical water scrubber to clean the smoke coming from pyres.	2.00	6.00	1.92	0.00	0.00	9.92	Estimate preparation in progress	Dec-22
	Total		2.00	6.00	1.92	0.00	0.00	9.92		

Air Quality Monitoring and Strengthening (3.2%)

Air Quality Monitoring and Strengthening (3.2%)										
S N	Project	Details	2022 In Cr	2023 In Cr	2024 In Cr	2025 In Cr	2026 In Cr	Total In Cr	Project Stage	Project Target Completion Month & Year
1	Urban monitoring Stations	2 stations each year	0.60	0.70	0.70	0.00	0.00	2.00	MPCB preparing proposals	Mar-23
2	Background monitoring stations	1 station each year	0.20	0.40	0.40	0.00	0.00	1.00	MPCB preparing proosals	Mar-23
3	Meteorological monitoring	1 station each year	0.10	0.20	0.20	0.00	0.00	0.50	MPCB preparing proosals	Mar-23
4	Ambient Air quality modeling	Computer based modeling system and operations	0.40	0.80	0.80	0.00	0.00	2.00	MPCB preparing proposals	Mar-23
5	Awareness activities Program management unit	IEC activities program management unit	0.80	0.80	0.80	0.80	0.77	3.97	Estimate preparation in progress	Mar-23
6	Alternative to woodfire/coal for water heating needs in slum areas	e.g. Community water heating pilot based on solar	0.10	0.10	0.10	0.10	0.10	0.50	Estimate preparation in progress	Dec-22
	Total		2.20	3.00	3.00	0.90	0.87	9.97		
Total (Rs Cr)			143.70	98.50	67.92	0.90	0.87	311.89		

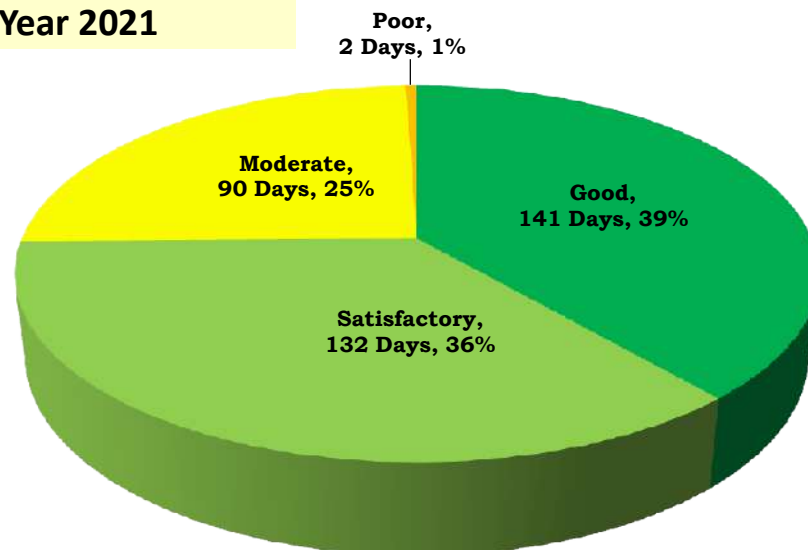
Pune City Air Quality Index

Air Quality Index - PM10 Year 2021



PM10				
AQI PM10 (No. of Days)	2018	2019	2020	2021
Good	100	109	163	163
Satisfactory	157	159	114	114
Moderate	108	97	89	88
Poor	0	0	0	0
Very Poor	0	0	0	0

Air Quality Index – PM2.5 Year 2021

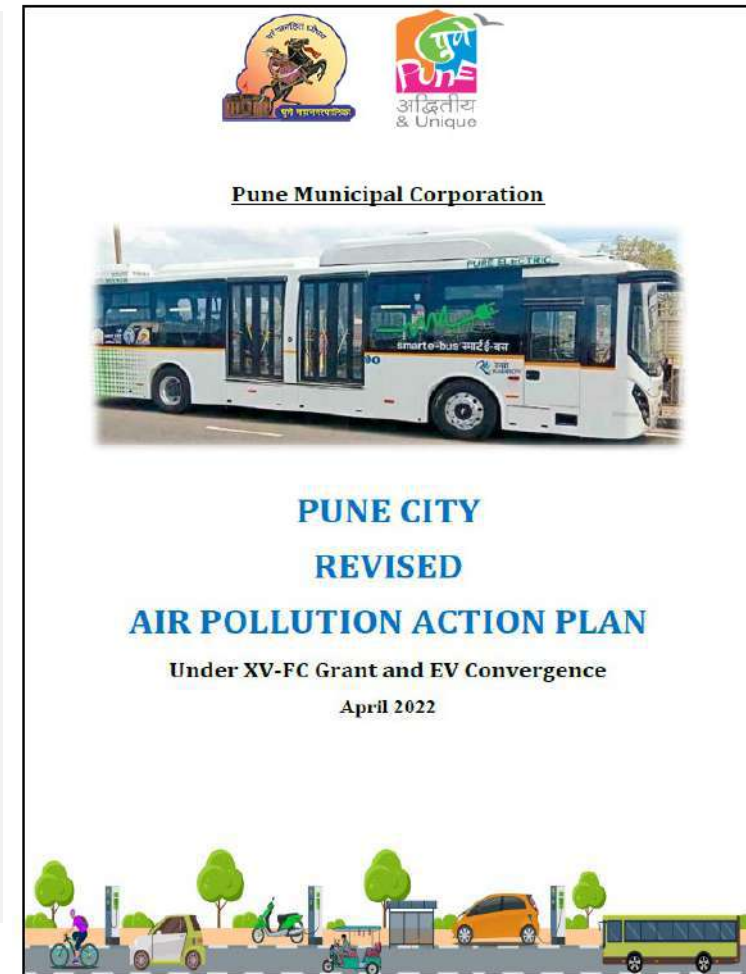


PM2.5				
AQI PM2.5 (No. of Days)	2018	2019	2020	2021
Good	103	149	158	141
Satisfactory	168	156	127	132
Moderate	92	59	77	90
Poor	1	1	4	2
Very Poor	1	0	0	0

Pune City Revised Air Action Plan



- C1- Air Pollution Monitoring (Stations)
- C2- Vehicular Emissions
- C3- Traffic, Mobility & Road
- C4- Creation of Green Spaces
- C5- Municipal Solid Waste Management
- C6- Good Construction Practices
- C7- Electric Crematoriums
- C8- Renewable Energy (Solar Potential)
- C9- Public Outreach & Capacity Building



Pune City Air Action Plan - Mobility Initiatives

PUNE

RESILIENCE

STRATEGY

PIONEERED BY THE
ROCKEFELLER FOUNDATION

100

RESILIENT

CITIES



HOW?

ACTION 1.2.1

Enhance institutional capacity and coordination for mobility planning at PMC and for the Pune Urban Agglomeration (UA)

ACTION 1.2.2

Improve bus-based public transit

ACTION 1.2.3

Integrate and improve para-transit and shuttle operations for last mile and local area shared mobility

ACTION 1.2.4

Improve facilities for pedestrians and cyclists

ACTION 1.2.5

Institute a comprehensive public engagement program on sustainable mobility

GOAL 1.2

Strengthen low carbon & shared mobility services in Pune urban region

GOAL ENDORSED BY



NMT TIMELINE

1 COMPREHENSIVE MOBILITY PLAN (CMP)

Envisions improving the modal share of non-motorised transport and public transport from 50% to 90% in 2031.

90%
of all trips using
sustainable
transport by 2031?

2008

2 WALK SMART PEDESTRIAN POLICY

Drafted with the vision of making Pune a pedestrian-friendly city by prioritizing pedestrians and cyclists over vehicles.

2016

5 PUNE STREETS PROGRAMME (PSP)

Initiated a holistic approach in the design of streets under the USGD, with around 100 km of streets across the city to be redesigned with wide, safe, and continuous footpaths in coming years.

4 URBAN STREET DESIGN GUIDELINES

Defined the process for designing streets, provides design templates for streets of different right-of-way and highlights the standards for street elements.

3 PARKING POLICY

The first Indian city to adopt a progressive parking policy emphasising efficient parking management as a way to discourage private vehicle use and encourage citizens to use public transport.

6 COMPREHENSIVE BICYCLE PLAN

First city to create a City-wide Bicycle Plan, with a proposal to create 400 kms of cycle-friendly streets. Intended as the primary guidance document for the city to allocate resources, undertake projects and evaluate the outcomes towards achieving the goals set for improving cycling in Pune.

2017

7 PUBLIC BICYCLE SHARING SYSTEMS

Public Bicycle sharing systems 2017
4 PBS operators to serve as another mode of transport for commuters and provide efficient last-mile connectivity for public transit users.

8 URBAN 95 PROGRAMME

Focuses on walkable, mixed-use neighbourhoods that cater for the basic needs of Infants, Toddlers and Caregivers within 15 minutes on foot.

2018

Pune City – Sustainable Transport Planning

Pune City Air Action Plan – Public Transport (PuneMetro – Rs 13,000Cr)



PUNE METRO
HELPS YOU BREATHE
CLEANER AIR BECAUSE
OF POLLUTION
CONTROL

CO ₂	30533 THOUSAND TONS PER YEAR
NO _x	276 THOUSAND TONS PER YEAR
SO ₂	2 THOUSAND TONS PER YEAR
PARTICULATE MATTER	36 THOUSAND TONS PER YEAR
HC	490 THOUSAND TONS PER YEAR
CO	1069 THOUSAND TONS PER YEAR



Pune City Air Action Plan – Public Transport (PMPML)



Pune City – Total fleet – 2255 Buses

Diesel Buses 287 + CNG Buses 1658 + E-buses 310

- Largest E-bus fleet in India – Target to have 650 E-buses
- Out of total fleet, more than 70% fleet on CNG
- India's Largest E-bus depot





Pune City Electric Vehicle Readiness Plan



April 2022

Serial No.	Vehicle Segment	Pune EV Readiness Plan Targets		
		Per cent of EVs in Total Number of New Vehicle Registrations in 2025	Number of New EVs Registered in 2025	Cumulative Number of EVs Registered in Pune 2022-2025
1	All vehicles	25%	50,000	1,00,000
2	2-wheelers	35%	43,000	89,000
3	3-wheelers, passenger	25%	100	500
4	3-wheelers, goods	25%	1,500	2,500
5	4-wheelers, passenger	10%	4,500	7,500
6	4-wheelers, goods	10%	400	500



2016: Yichang, China

2017: Santiago, Chile

2018: Dar es Salaam, Tanzania

2019: Fortaleza, Brazil

Pune wins Sustainable Transport Award 2020!



Shreya Gadepalli, ITDP South Asia Director, accepted the **Sustainable Transport Award** on the behalf of the city of Pune, India from the First Lady of the city of Fortaleza, Brazil, Carolina Cunha Bezerra.



Pune City Air Action Plan

Convergence of Central, State Schemes & ULB Budget

SrNo	Scheme/s	Funds	Initiatives
A	Smart Cities Mission	Rs 65.62Cr	1. E-bus subsidy (Rs45cr) 2. Environmental Sensors (Rs1Cr) 3. Tree plantation (Rs6.12cr) 4. Cycle track – 22.5km (Rs5Cr) 5. ISWM (Rs8.5Cr)
B	FAME II – Electric Mobility	Rs 16.5 Cr	Procurement of 150 Electric buses
C	NCAP	Rs 9.45 Cr	1. Mechanical Street Sweepers (2 nos.) 2. Water Sprinklers (3nos) 3. Public Awareness & Capacity Building 4. Promoting cycle track by creating cycle track 5. Electric crematoriums 6. Creation of green buffers along traffic corridors
D	Majhi Vasundhara 2.0	Rs 3.00Cr	1. Creation of Green areas (Rs 1.5Cr) 2. Solar power on public buildings (Rs1Cr) 3. Rainwater harvesting (Rs0.5Cr)

SrNo	Scheme/s	Funds	Initiatives
E	PMC Budget Solid Waste Management	Rs 47.80Cr	1. Mechanized Road Sweepers (13 nos) – Rs 40Cr 2. C&D Waste Processing Plant (250 MT) – Rs 4.50Cr 3. Bio CNG Plant (City Wealth to City Bus) –Rs 3.30Cr
F	PMC & IITM Installation of Air Quality Monitoring Stations & Daily Air Quality Public Information Dissemination System	Rs 10Cr	Under SAFAR-Air program - 10 CAAQMS stations Locations – 1.Pashan, 2.Shivajinagar, 3.Pune Airport, 4.Katraj, 5.Hadapsar, 6.Bhosari, 7.Nigdi, 8.Manjri, 9.Bhumkar Chowk, 10. Alandi MobileApp - SAFAR-Air
G	PMC Budget Green Cover Creation of Green buffers along the Traffic corridors	Rs 13Cr	1. BDP reservation – A total 908 ha of land is reserved as Biodiversity Parks (Policy Decision) 2. GIS Tree Census (Rs11Cr) 3. The 36 road medians & traffic islands are maintained (PPP basis) 4. Greening of open areas, garden, community places, schools and housing societies – Total 210 Gardens with area 19,78,866.22 sqm 5. Amrut Van – (Rs2Cr)

Air Quality Monitoring Stations



Shivajinagar



Pashan

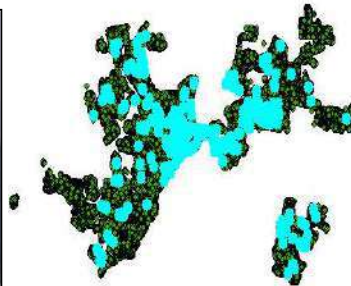


Installation of Solar Panels on PMC Building



Installation of 1,80,000 LED Street Lights

Green Cover & Tree Census



Local Name	Girth_cm	Height_m	Canopy Dia
Pimpal	570	16	11 S
Vad	780	12	21 S
Vad	590	15	10 S
Vad	570	14	11 S
Pimpal	512	17	15 S
Vad	720	16	15 S
Rain Tree	510	13	10 S
Vad	890	15	10 S
Vad	897	15	12 S
Vad	907	15	10 S
Pimpal	615	11	20 S
Pimpal	660	12	16 S
Rain Tree	625	14	15 S
Rain Tree	685	15	10 S
Rain Tree	790	14	20 S

Enter a WHERE clause to select records in the table window.

Method : Create a new selection

OBJECTID
Botanical_Name
Local_Name
Girth_cm
Height_m

= <> Like
> >= And
< <= Or
_ % () Not
Is In Null Get Unique Values Go To:

SELECT * FROM PMC_Trees WHERE:
Girth_cm > 500

Clear Verify Help Load... Save...
Apply Close



Greening of the Road Median



Mechanical Sweepers



Waste Processing Plants



Road Maintenance Van



Bio-capping of Legacy Waste at Uruli Devachi Green Belt Development at Waste processing site



**Bio-capping and Amrut Van Project -tree
plantation**

C & D Waste Processing Plant



SrNo	Scheme/s	Funds	Initiatives
H	PMC Budget Renewable Energy	Rs 14Cr	1. Use of Solar Panels - Implementation of Grid Connected Rooftop Solar PV System on the Roofs of PMC Buildings (Capex – Rs2Cr for 30 Buildings) 2. Tax benefits – Solar Water Heating - PMC provides the tax benefits to the properties who have adopted Solar, Vermi-compost, Rain water harvesting (5% for adopting any one from above, & 10% for adopting any 2 measures) More than 58,228 properties have installed the solar water heating system
I	Crematoriums	Rs 20.35Cr	1. Air Pollution Control Systems (APC) - for wood-fired crematoriums (13nos) 2. Vaikunth Smashabhumi – As per NEERI's suggestion Venturi type scrubber is being installed (Rs 0.35Cr) 3. Installation of Electric Crematorium (10nos)

SrNo	Scheme/s	Funds	Initiatives
I	PMC Budget Mobility Initiatives  	Footpath & Cycle track – Approx 75km = Rs 80Cr Approx Rs20Cr	1. Bus Rapid Transit (Rainbow BRT) - Sangamwadi to Vishrantwadi Chawk, Alandi Road – 7 km - Yerwada Parnakuti Chawk to Kharadi Nagar Road- 9 km - Sangamwadi to Patil Estate junction -1.2 km - Satara Road Swargate to Katraj - 6.2 km - Aundh Rajiv Gnadhi Bridge to Simla Office- 6.5 km - Harris Bridge to Patil Estate junction- 5.7 km 2. Pune Cycle Plan Pune Cycle Plan prepared in 2017 through a project supported by the Ministry of Urban Development, Govt. of India. https://punecycleplan.wordpress.com 3. Subsidy of Rs.12,000/- to 3-wheeler Auto-rickshaws to covert to CNG – Beneficiaries – Total 16,836 Auto-rickshaws (Year2012-2020)

Road Improvement

Re-designing Streets to promote the Non-motorized Transport
(Location : Fergusson College Road)



Pune pilots a 'Rainbow'
Bus Rapid Transit System (BRT)

STREET ELEMENTS

All people should be able to move safely, smoothly and conveniently



- Footpath - clear walkway
- Cycle Track - NMT Lane
- Bus stops
- BRT lanes
- Carriage way - MV lane
- Shoulders
- Parking

Make streets safe, clean, attractive and comfortable for people to walk and drive

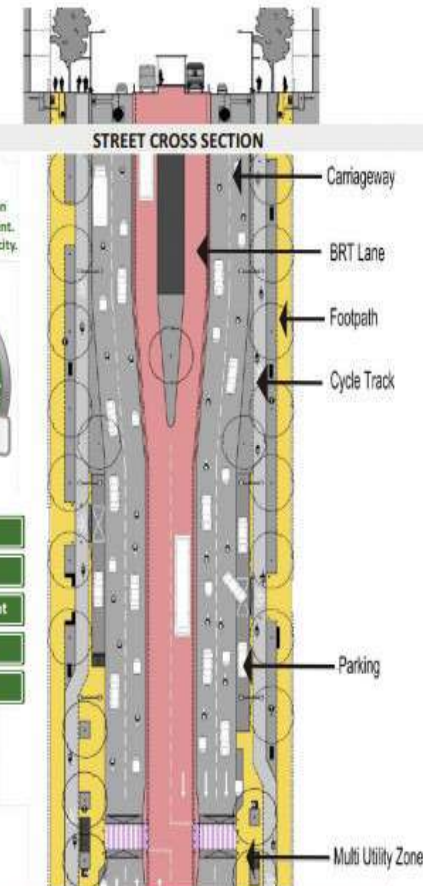


- Pedestrian Crossings
- Traffic calming measures
- Speed breakers
- Traffic Signals
- Central Medians
- Railings
- Bollards
- Street lights
- Street furniture
- Signage, markings

Streets to reduce impact on natural and built environment. To have green streets in the city.



- Plantation
- Utility and services
- Storm water management
- Garbage containers
- Public toilet



The sketch is only an illustration indicating various street elements and not its technical design.

SrNo	Scheme/s	Funds	Initiatives
I	PMC Budget Mobility Initiatives	RMV - Rs15cr Urban Stret Design – Approx. 35kms = Rs 175Cr	4. Maintain Pothole Free Roads for Free Flow Traffic Road Maintenance Vans in operation – 4nos Road Maintenance Vans in proposed – 8nos 5. Wall to wall paving & Road design improvement – The new roads are being constructed as per the USDG, the specifications given under Indian Road Congress guidelines and National Urban Transport Policy 6. Black topping of metalled Roads including pavement of Road shoulders 7. Pune Street Program (PSP) - Development of 100km roads in the city as per the directions as mentioned in 'Urban Street Design Guidelines' & 'Parking Policy' 8. Urban Street Design Guidelines (USDG) 9. Parking Policy 10. Pedestrian Policy

Pune City total funds for improving Air quality – Rs 13,489.37 Cr
(excluding NCAP & XVFC)



Public Parking policy 2016

Pune Municipal Corporation



<https://www.pmc.gov.in/en/pmc-public-parking-policy>



Pune Municipal Corporation Comprehensive Bicycle Plan for Pune



Resolution Number 693 dated 14 December 2017

December 2017



Pune Municipal Corporation



Walk Smart

Policy for Pedestrian Safety and Comfort Pune City



URBAN STREET DESIGN GUIDELINES PUNE



<https://www.pmc.gov.in/en/urban-street-design-guidelines-usdg>



सत्यमेव जयते



NCAP

NATIONAL CLEAN AIR PROGRAMME

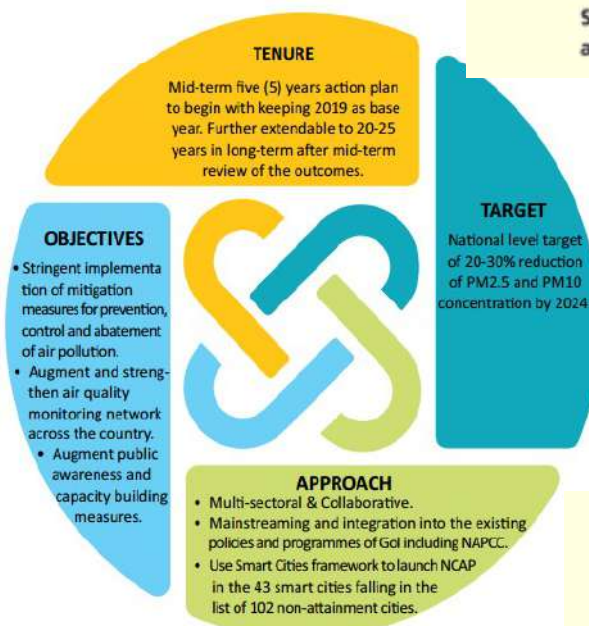


Ministry of Environment,
Forest & Climate Change
Government of India



National Clean Air Program (NCAP)

Stakeholders & Technical Partners



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Agency for Development
and Cooperation SDC



MoEFCC



International Institute for
Applied Systems Analysis
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EPFL



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Progress through Research





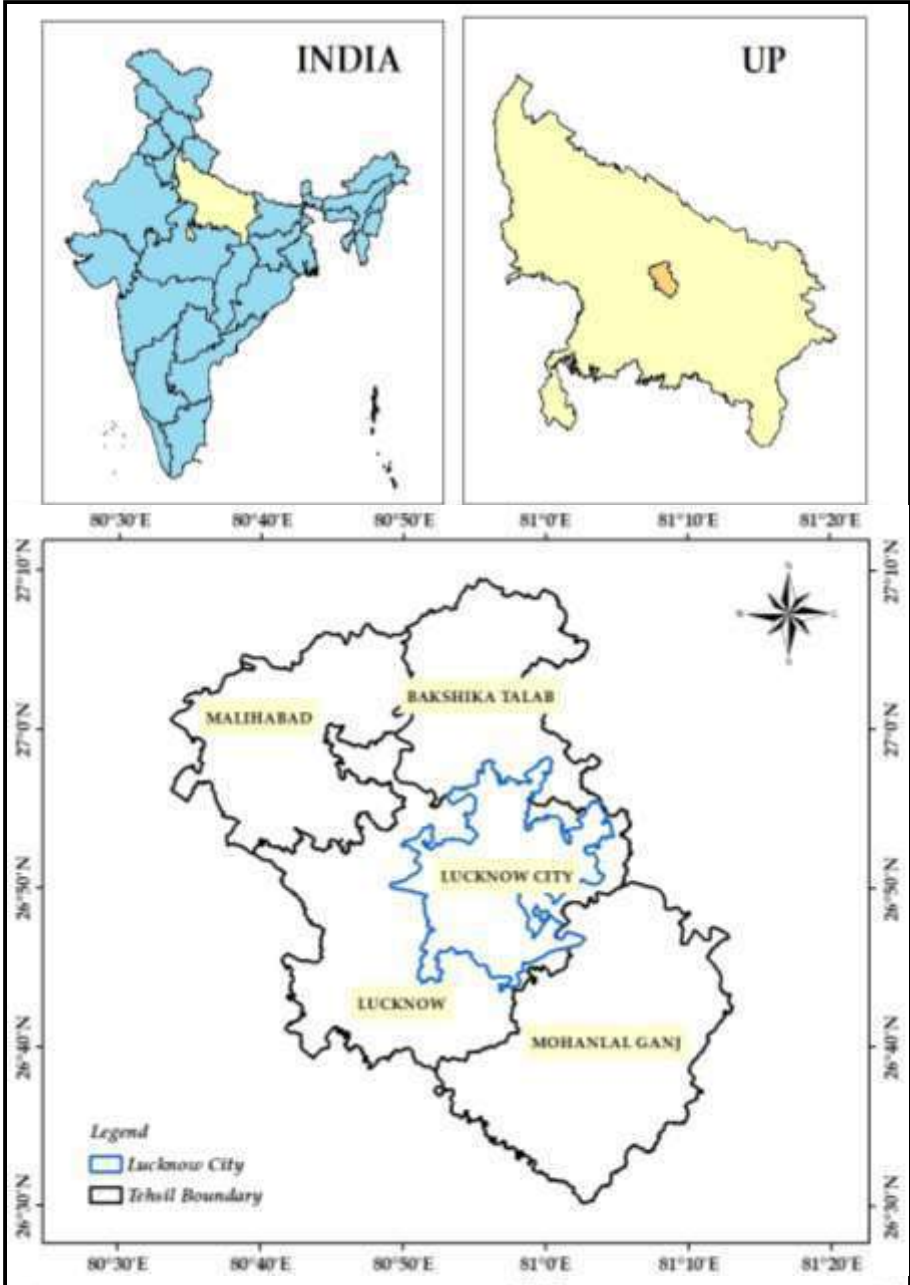
NCAP & XV FC Status of Lucknow

By Lucknow Nagar Nigam

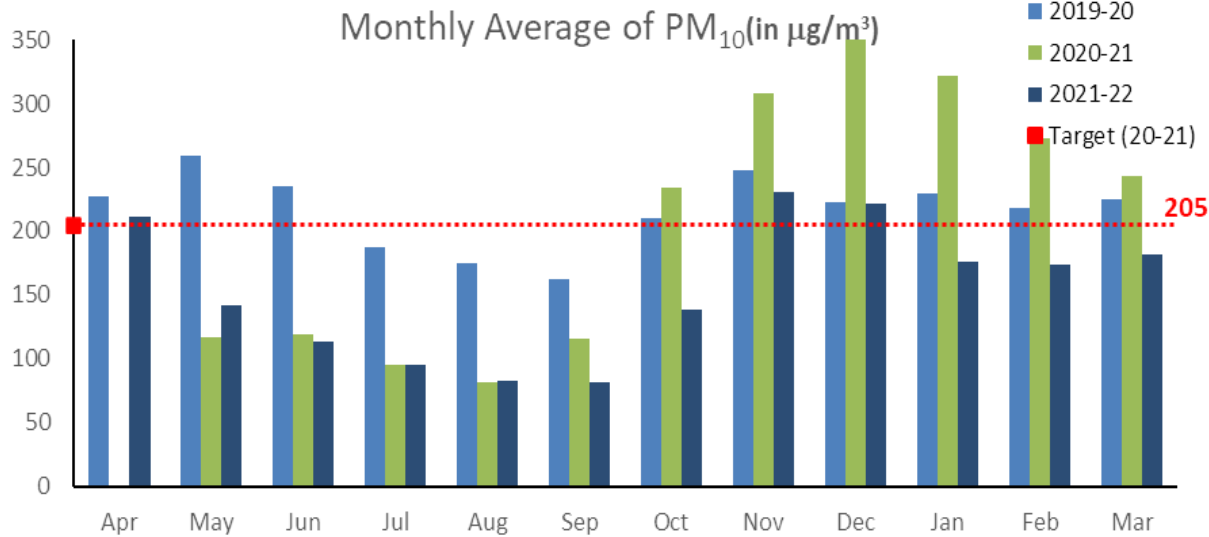
NCAP(National Clean Air Programme)

Target: National level target of 20%–30% reduction of PM2.5 and PM10 concentration by 2024 is proposed under the NCAP taking 2017 as the base year for the comparison of concentration

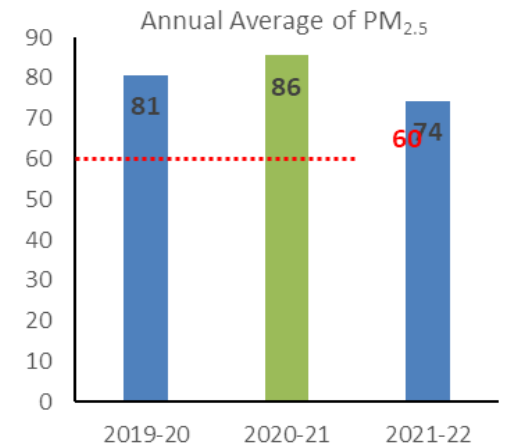
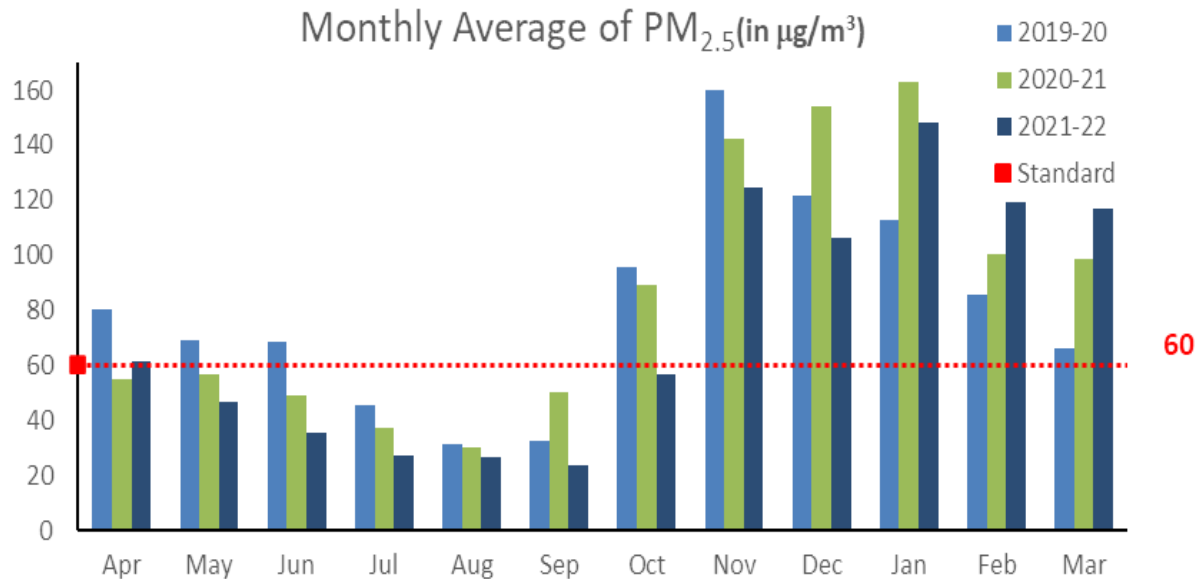
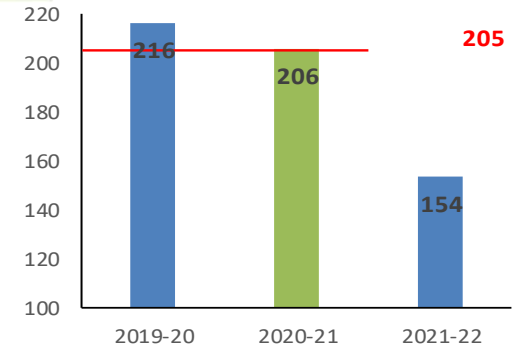
NCAP Objectives	Corresponding Action By LMC
- To Augment Public Awareness & capacity building measures encompassing data dissemination. - Public outreach programs for inclusive public participation. - Ensuring trained manpower & infrastructure on air pollution.	<u>Information in the following slide.</u>
To augment, evolve effective & proficient ambient air quality monitoring network across the country for ensuring a comprehensive & reliable database.	<u>Information in the following slide.</u>
To ensure stringent implementation of mitigation measures for prevention, control and abatement of air pollution.	<u>Information in the following slide</u>



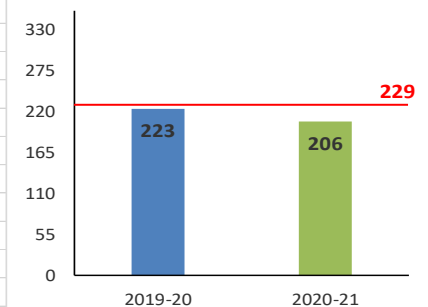
Performance Report- Lucknow



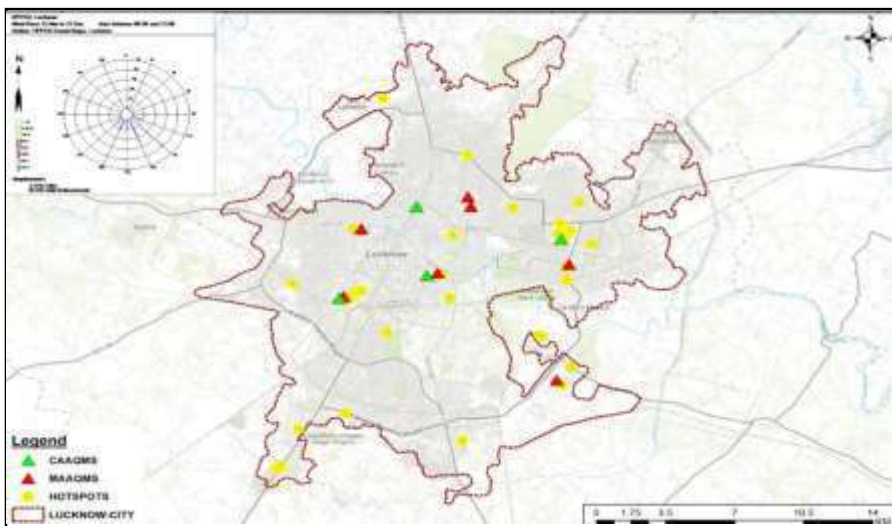
Lucknow Annual Average PM₁₀



Good Days (AQI<200) out of 355



Air Quality Monitoring Network



Strengthening of pollution monitoring mechanism

- [Public Grievance redressal system IT enabled](#)
- Operationalisation Of AQM Cell
- Data Dissemination Through [Lucknow Smart City](#)

Lucknow Smart City – Integrated Control and Command Centre

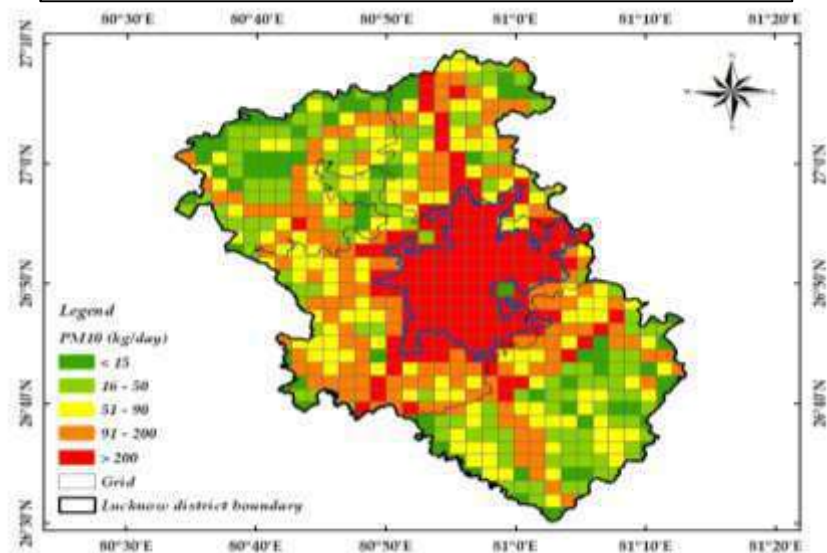


- Salient Features –
- 10 Work Stations for Monitoring & Control of MSI – ICC
- 3x2 Video Wall with Controller
- Fire Detection and Suppression System
- CCTV system
- Rodent Repellent

Operational w.e.f. June, 2019

EI & SAS by TERI

A
Q
M



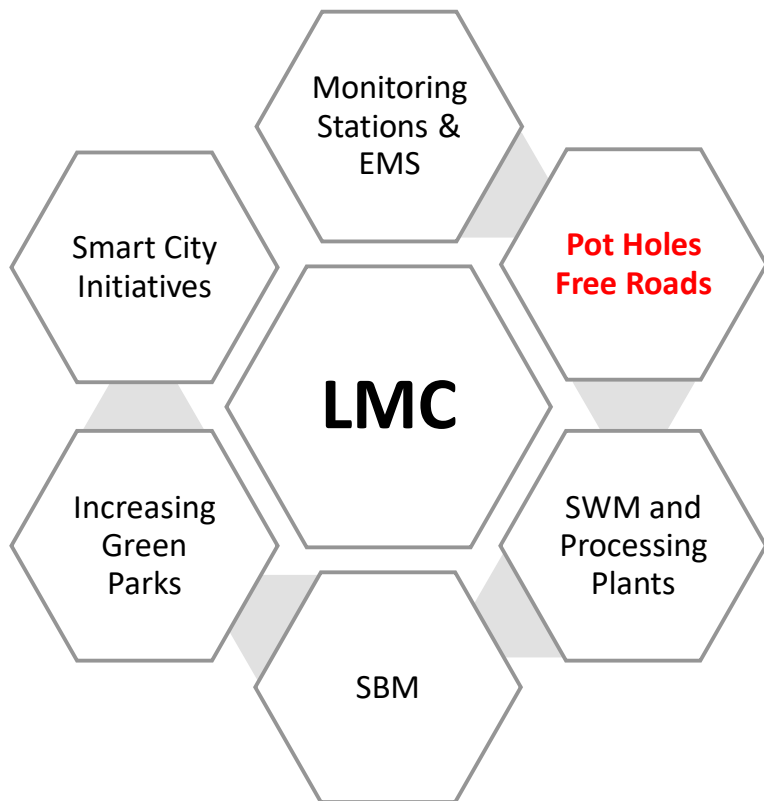
In **Source Apportionment Study** conducted by TERI – PM₁₀ emissions from the Road dust re-suspension was found to be major reason to pollution.

Dash Board Environment Monitoring

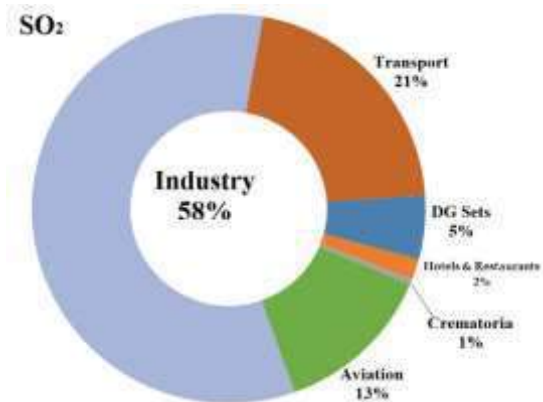
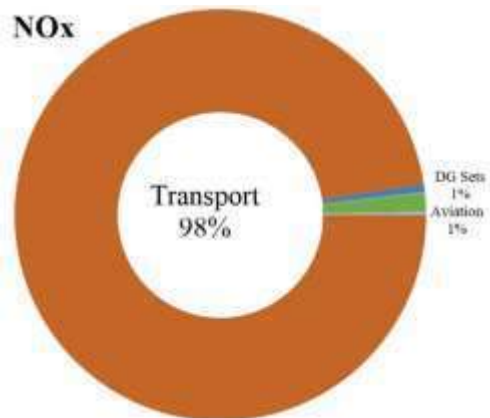
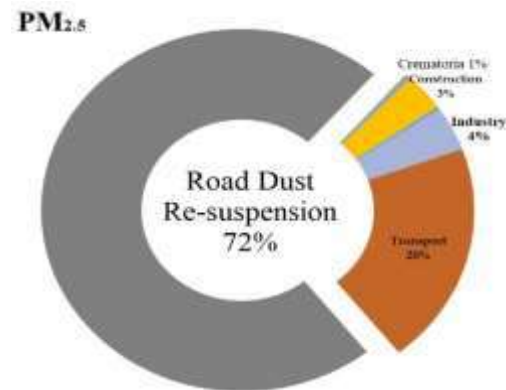
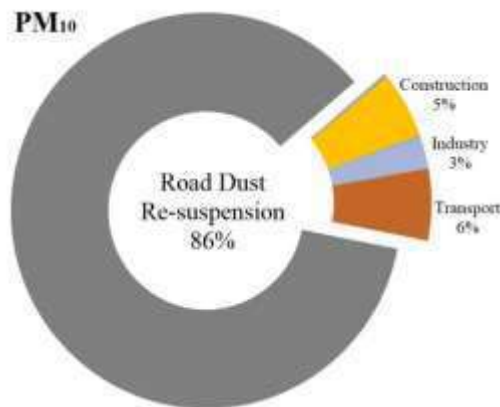


Source Contribution in Lucknow City and Focus Areas to Work On

LMC pathways to regulate and mitigate air pollution



Percentage contribution of various Pollutants including PM₁₀, PM_{2.5}, NO_x, So_x, emissions in Lucknow City based on the study conducted by TERI



Status of Potholes free Road by LMC

ULB	According to Road Directory		Target for Potholes Free Roads				Status of Potholes free roads			
	Total No of roads	Total Length of roads	Length for Potholes free road	Restoration / New Construction	Total Length	% of work done	For Potholes free only	Restoration and new construction	Total Length	% of work done
Lucknow Nagar Nigam	1172	1860.3	325.79	233.092	558.88	100%	325.79	231.062	556.85	99.10%

Mitigation Steps

Before – Open Garbage Dumping Place

After – Transformed into Ecogreen's Mini Transfer Station with no open garbage spilling



Vertical Garden and increasing green cover in parks

Open garbage dumps transforming into Transfer Station/ Mini Transfer Station/PCTS Station.

MoUs with Institute of Repute

Hyperlinks

MoU between UPPCB, TERI & N.N

[MOU OF UPPCB-MoEF&CC-LMC.pdf](#)

Agreement Between UPPCB & A-PAG for Dispersed sources Mitigation & PMU

[Agreement - UPPCB- A-PAG.jpeg](#)

MoU with Eco green and Nagar Nigam for SWM

[eco agreement.pdf](#)

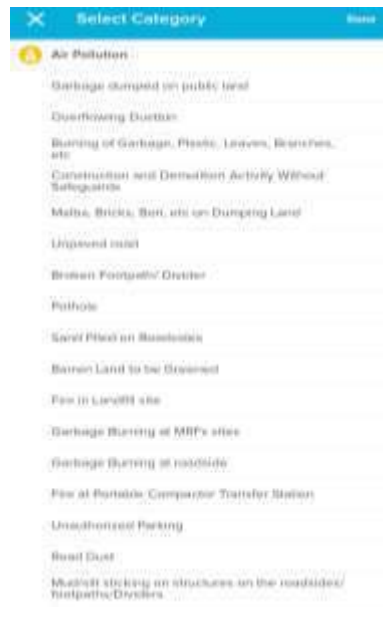


Awareness Campaigns

Mitigation Steps



Miyawaki Plantation Drive



Lucknow 311 App – Grievance Redressal App

Legacy waste Treatment – Ghaila Site

Anti Smog Gun: 08 Operational



Mechanical Sweeping Machine: 19 Operational



Sector

Best Practices Adopted by Lucknow Nagar Nigam

Transport

- Plying of electric vehicles(Bus) for public transport(60 Buses) and establishment of charging stations for all vehicles (20)
- Infrastructure for CNG ,E-Mobility Increased and Use of bio-ethanol
- Intelligent Traffic Management System -ITMS Operational
- Construction of expressways/bypasses/peripheral roads
- Arrangement of multi-level parking facilities
- Widening of Roads
- 337 PUC system Connected to Online server for real time monitoring

Industry

- Monitoring of Industrial emissions through Online Continuous Emission Monitoring System (OCEMS)
- Shifting of air pollution industries to conforming zones
- Installation of web cams and OCEMS in gross polluting industries

Waste burning and waste Collection

- Extensive drive against open burning, Establishment of compost pits
- Door to door collection of segregated waste, Establishment of 08 waste collection centers and 08 in process

Construction

- Control measure for fugitive emissions
- C & D Waste Recycling, Establishment of 100 TPD Capacity C&D waste processing plant and 01 in process
- All construction areas must be covered to avoid dispersion of particulate matter
- C&D dust Control
- Ensure carriage of construction material in closed/covered vessels.

Dust

- Creation of green buffers (Green Area Belt) Parks, 1300 Parks renovated and enhanced greenery
- Maintain potholes free roads
- Introduce water fountains
- Wall to Wall pavement
- Blacktopping of metallic roads

Financial Status

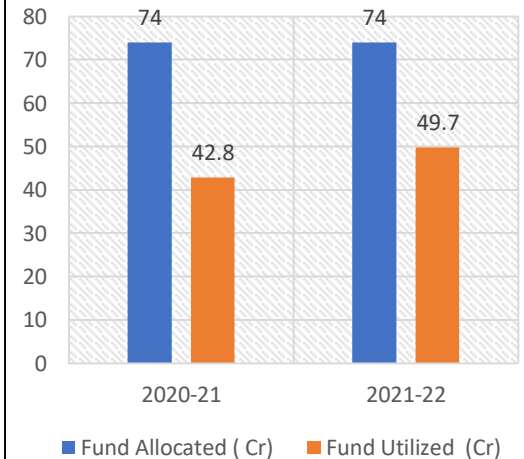
Status of Fund under XV-FC Grant (Rs in Cr)

FY 2020-21			FY 2021-22		
Total fund released	Fund Utilized	Activities undertaken for utilization of fund	Total fund released	Fund Utilized	Activities undertaken for utilization of fund
74 Cr	42.83 Cr	☐ Improvement and interlocking of damaged roads to improve air quality in Lucknow city ☐ Purchase of 20 Nos. Vacuum Litter Vehicle in view of air quality improvement ☐ Greenery and its protection works in open areas and parks owned by Municipal Corporation ☐ Purchase of Anti Smog Gun ☐ Work of Expenditure on IEC ☐ Establishment of Air Quality Monitoring and Purification Solutions	74 Cr	49.70Cr	☐ Work of repair and interlocking of damaged roads for air quality improvement in Lucknow city and purchase of machines for patch repair related works.

Status of Fund Under NCAP

Components	Status as on 31.05.2022
Total Fund Released under NCAP(Rs in Cr)	5.19 Cr.
Fund Utilized under NCAP (as per UC)	4.22 Cr.
Submission of UC (FY 2021-22)	Yes
Whether Activities of the City action plan (in which funds are utilized) are mentioned in UC	Submitted
Fund Carry Forward Request	Sent to CPCB
Accrued Interest	Deposited

XV FC



Way Forward – Proposed Action Plan to Mitigate Air Pollution by LMC

Categories	Action Points (Proposed)
Airshed Management Model	➤ Airshed Management to be implemented within the ULBs jurisdiction and beyond the city boundaries ➤ To adopt 80 villages around Lucknow City ➤ To increase monitoring network ➤ To conduct Emission Inventory and Source Apportionment Study of surrounding cities/districts. (As previously done by TERI for Lucknow) ➤ To abolish old vehicle fleet with the help of digital intelligence (AI) [Agra Model]
Deploying Technology for identification of Pollution sources	➤ Manual Survey for identification of dispersed sources using Lucknow 311 app of Air Pollution across Lucknow City. (As previously facilitated and report shared by A-PAG in 2021)
Capacity Building	➤ Creation of Public Awareness for Source Identification and control Measures. ➤ Technical training/workshop of ULBs and PCB staff ➤ Technical Workshops and Event for University/College Students
New PMU Set Up at Smart City Office	➤ Install PTZ cameras and setting up PMU for improved monitoring of Air Pollution Sources (Jointly by A-PAG and TERI)
Road Dust	➤ End to End paving of roads ➤ Mechanized Paving ➤ Water Sprinklers ➤ Hedging of roadside and dividers ➤ Create proper pedestrian infrastructure
Parking	➤ To develop parking and multi layer parking in certain commercial places. ➤ To declare certain dense location as no vehicle zones to resolve traffic problem.



Thank You



ACCOLADES FOR LUCKNOW NAGAR NIGAM



National Clean Air Programme(NCAP):
5th Steering Committee meeting
29th July 2022

State:-Uttar Pradesh

Name of the Non Attainment City:- Varanasi

Presented By:- Varanasi Municipal Corporation

OUTLINE OF PRESENTATION

- 1. Overview of Varanasi City**
- 2. About V.M.C**
- 3. Issues**
- 4. Initiatives so far**
- 5. Best Practices Photograph**
- 6. IEC Activities**
- 7. NCAP & 15th Finance Fund utilization**

1. VARANASI: CITY OVERVIEW

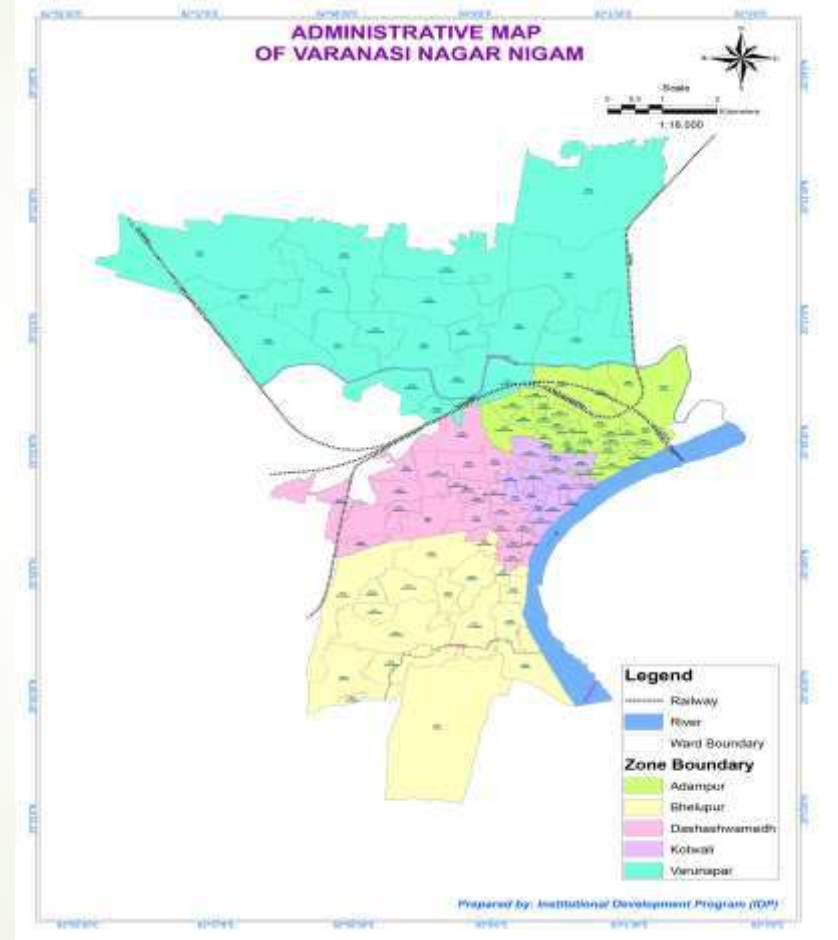
3

- **Varanasi** (formerly Banaras) lies on the bank of the Ganges river in Uttar Pradesh and is center for pilgrimage and tourism in India. Varanasi is among the oldest living cities in the world and its antiquity finds place in ancient scriptures. Located along the Ganga it is a sacred place for all Hindus, Jains and Buddhists. Varanasi is also known as a combination with the name of two river, **Varuna + Assi= Varanasi**
- **Tourism** - The land of Varanasi (Kashi) has been the ultimate pilgrimage spot for Hindus for ages. Hindus believe that one who is graced to die on the land of Varanasi would attain salvation and freedom from the cycle of birth and re-birth. Abode of Lord Shiva and Paryati, the origins of Varanasi are yet unknown. Ganges in Varanasi is believed to have the power to wash away the sins of mortals. Approx. 55 lakh tourist/Visitor visit in Varanasi every year.
- **Culture & Heritage** - Varanasi is a Museum architectural designs. It presents changing patterns and movements in course of history. It has a rich and original variety of paintings and sculptor styles and equally rich treasures of folk art. During the ages Varanasi has produced master craftsmen and Varanasi has earned name and fame for its Sarees, handicrafts, textiles, Toys, ornaments, metal work, clay and wood work, leaf and fibre crafts, ancient crafts. Banaras has been famous for its Music both vocal instrumental, it has its own dance tradition. Add to this a very rich stock of folk Music and drama (esp. Ramlila), the tradition Musical soirees

2. About V.M.C

4

- **Population:-** 11,98,491 (As per 2011 census) .
- **Area:-** 82.1 Sq.Km
- **Number of Zone-** 05(Bhelupur, Dashaswamedh, Kotwali, Adampur & Varunapar Zone).
- **No. Wards-** 90
- **Newly added area:-** 87 Villages (approx. 82 Sq Km)
- **Drinking Water Sources:-**
 - Surface Water- 188 MLD
 - Ground Water- 178 MLD
- **Roads:-**
 - NH:- A total of 08 major highways (NH) are connected through Varanasi with a total length of about 155 km.
 - PWD Road:- Length is approx. 136.254 Km
 - Varanasi Municipal Road:- length is 1668.5676 Km



MUNICIPAL WASTE: GENERATION & MANAGEMENT

- Waste generated in Varanasi City is divided into two types-
 - 1) **Solid Waste** which includes Municipal Solid Waste, Bio-Medical Waste, Hazardous Waste, E-Waste and Construction & Demolition Waste.
 - 2) **Liquid Waste** which includes sewage effluent and Industrial effluent;
- Water pollution of Varanasi are mainly caused due to untreated sewage, unclaimed dead bodies & also during religious events millions of people take bath to clean their sins and throw wastes like flowers, foods, ashes etc. which is also contribute in water pollution.
- Varanasi city generates approx. **750 MT /day** Municipal Solid Waste.
- Total no. of ward in municipal corporation Varanasi-**90**
- **Sanitary landfill and composting plant (600 MT/day)** established by Nagar Nigam, Varanasi at Vill.- Karsara- approximately 10km away from the city limits.
- **24 Tonne/day “Waste to Energy” plant** is established by NTPC at Vill.- Karsara situated landfill site premises.
- **C & D Waste Plant(200 TDP Capacity)** at Ramna, Varanasi.
- In addition to above there are **03 Nos “Waste to Energy” plant (5.0 tonne/day) established by Indian Oil Corporation Limited** at-
 1. Bhelupur, Varanasi
 2. Paharia Mandi, Varanasi
 3. Adampur, Varanasi

- Number of hazardous waste generating operational units in Varanasi-04
 1. **M/s Rugs Mart, Barahinewada, Varanasi.**
 2. **M/s Varanasi Bottling (LPG Refilling Plant), IOCL, Babatpur Varanasi.**
 3. **M/s Diesel Locomotive Works, Varanasi.**
 4. **M/s Hindustan Coca Cola Beverages(P)Ltd., Mehndiganj, Rajatalab, Varanasi.**
- Quantity of hazardous waste generation-**50 MT/Annum.**
- Number of industries obtained membership of TSDF for final safe disposal of Hazardous Waste-04
- Number of industries obtained authorization from State Pollution Control Board under Hazardous and other Wastes (Management and Trans boundary Movement) Rules, 2016- 04

Name and Address of Treatment, Storage and Disposal Facilities(TSDF) facilities working in Varanasi

- M/s Bharat Oil & Waste Management Ltd. Kumbhi, Akbarpur, Kanpur Dehat.
- M/s Ramky Enviro Engineers Ltd. Kumbhi, Akbarpur, Kanpur Dehat.

Bio Medical Waste

7

➤ Total number of 2016 health care facilities identified in Varanasi Detail as given below.

S.N.	Name of City	Total No. of HCFs		No of Beds	No. of HCF having treatment Captive facility	No. of HCF having Membership with CBWTF	No. of HCF not having disposal Mechanism	Estimated BMW Generated (Kg/Day)
		Bedded HCFs	Non Bedded HCFs					
1.	Varanasi	809	595	19305	0	846	0	5336

Number of common bio-medical treatment facility (CBWTF) working in Varanasi for treatment and disposal of Bio-medical waste.

1. M/s Centre for Pollution Control, Mohansarai, Varanasi.
2. M/s Silicon Welfare Society, Banka, Bahadurganj, Ghazipur.
3. M/s Royal pollution control services, VillChaspur saduwahi, Sultanpur.
4. M/s Sangam Mediserve Pvt. Ltd., Raidopur, Handia, Allahabad.

Status of STPs and Connecting Drains in Varanasi

8

Sl.	Name of Drain	Discharge measured in 2017	Tapped (Y/N)	Name of STP
1	2	3	4	5
Ganga River				
1	Nakkhi Drain	1.860	N	50 MLD STP Ramana
2	Samneghat Drain	1.170	N	
3	Assi/Nagvan Drain	42.810	Partially Tapped	
4	Shivala Drain	5.000	Y	80 MLD STP Dinapur
5	Harishchandraghat Drain	2.500	Y	
6	Mansaroverghat Drain	4.500	Y	
7	Pandeyghat Drain	30.000	Y	
8	Dr. R. P. Ghat Drain		Y	
9	Meerghat Drain		Y	
10	Lalitaghat Drain	4.500	Y	
11	Jaleshanghat Drain		Y	
12	Manikarnikaghat Drain		Y	
13	Sankthaghat Drain	1.500	Y	
14	Mehtaghat Drain		Y	
15	Ramghat Drain		Y	
16	Panchgangaghat Drain		Y	
17	Bramhaghat Drain		Y	
18	Lalghat Drain		Y	
19	Trilochanghat Drain	4.500	Y	
20	Teliya Drain	2.800	Y	
21	Bhainsasur Drain	0.400	Y	
22	Rajghat Drain	0.200	Y	
23	Rajghat Outfall	118.000	Partially Tapped	80 MLD STP Dinapur / 140 MLD STP Dinapur

Status of Drains in Nagar Palika Parishad, Ramnagar, Varanasi.

1	Rambhag Ghat Drain	8.2	Y	10 MLD STP Ramnagar
2	Balua Ghat Drain	0.13	Y	
3	Shakti Ghat Drain	0.4	Y	
4	Salotri Ghat Drain	0.34	Y	
5	Hanuman Ghat Drain	0.09	Y	

Status of Drains in Nagar Palika Parishad, Pt. Dindayal Upadhyay Nagar, (Mugalsarai),Chandauli

1	Ganda Nala	8.26	N	DPR Submitted for apruval
2	Railway Nala	21.07	N	

Varuna River

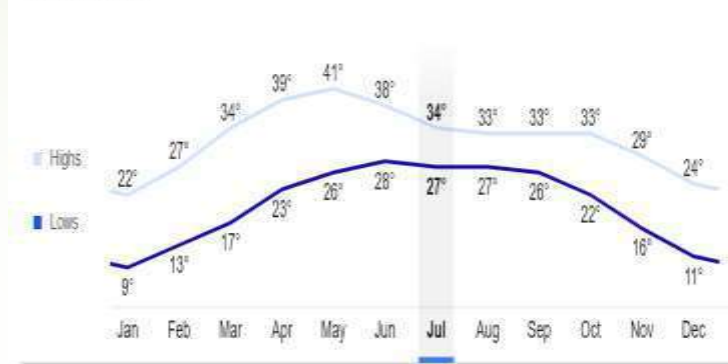
1	Phulwariya Drain	7.600	Y	140 MLD STP Dinapur
2	Sadar Bazar Drain	2.000	Y	
3	Raja Bazar Drain	0.100	Y	
4	TeliyaBag Drain	18.000	Y	
5	Nakkhighat Drain	0.100	Y	
6	Narokhar Drain	7.500	Y	120 MLD STP Goithaha
7	Nai Basti Drain	3.000	N	
8	Sarang Talab Drain	1.500	N	
9	Central Jail Drain	6.500	N	140 MLD STP Dinapur / 120 MLD STP Goithaha
10	Orderly Bazar Drain	7.000	N	
11	Chamrautha Drain	1.500	N	
12	Khajury Colony Drain	1.500	N	
13	Banaras Drain No.-5	1.000	N	
14	Hukulganj Drain	2.500	N	
15	Durga Drain, Daniyalpur, Varanasi (Origin Point - Lohta, Varanasi)	19.990	N	

3. ISSUES

10

- 50 % Of The City Does Not Have Basic Infrastructure like Roads And Drainage(Newly Added Area, Approx. 82 Sq Km)
- This Leads To Heavy Road Dust
- In Varanasi, the wet season is oppressive and mostly cloudy, the dry season is mostly clear, and it is hot year round. Over the course of the year, the temperature typically varies from 49°F to 106°F and is rarely below 43°F or above 112°F. Encroachment And Illegal Construction On Massive Scale.
- High Dependency On External funds. Own Funds Spend On Servicing Administrative Costs

Temperatures (°C)



Daylight



Source: NOAA

<https://www.ncel.noaa.gov/>

- The main causes of highly air Pollutants is mainly due to vehicular exhaust emission, road dust and dust emitted from construction activity with other development activities, Bio-mass and municipal solid waste, etc in the city.
- U.P. Pollution Control Board are operating four Continuous Ambient Air Quality Monitoring Station as (i) Taigore colony Orderly Bazar, (ii) Maldahiya, Varanasi (iii) Jal Kal Vibhag, Bhelupur & (iv) IESD, BHU, Varanasi
- Three Continuous Ambient Air Quality Monitoring Station (i) Maldahiya, Varanasi (ii) Jal Kal Vibhag, Bhelupur & (iii) IESD, BHU, Varanasi are operational from July-2021
- The data is recorded online and this station is connected with the Central Pollution Control Board server.
- Other five manual Ambient Air Quality Monitoring Station (Regional Office Building, U.P. Pollution Control Board, Bhelupur; Sindhu Nagar Sagra; Saket Nagar Colony; Industrial Estate, Chandpur and Centre for Advance Study in Botany, BHU)inVaranasi city.
- On the basis of ambient air quality monitoring data of Varanasi City, it has been observed that PM_{10} and $PM_{2.5}$ are beyond the permissible limit as laid down by the CPCB.
- An action plan for control of air pollution for Varanasi city has been prepared. and all the stake holders (Varanasi Development Authority , Varanasi Nagar Nigam, RTO, SP Traffic, Agriculture Department, PWD, NHAI, Forest Department etc) has been worked on appropriate action as per action plan.

4. INITIATIVES SO FAR

12

■ Plantation work



Sr. No	Year	Nos of Plant
1	2020-21	81843
2	2021-22	69600
3	2022-23	67493
Total		2,18,936

- 6300 Iron Tree Guard Installed.
- **1.70 hectare Miyawaki Concept Plantation work(51000 Plant)**
- 03 water sprinkler mobilized for road dust. [Route Chart Plan](#)
 - i) sprinkling water on street surface by 10 KL water sprinklers to remove dust.
 - ii) Total number of water tankers utilized are 17.
- Portable Compactor Transfer Station at 02 Locations(Beniya & Shivpur)
- Construction of Road/Interlocking work approx. 25 Kilometer
- Urban Place making from Lahartara to chaukaghat flyover(Fountain work)
- Fountain work under PPP mode at Sagra Area.
- Vertical Garden work at 09 Spot(02 has completed and rest is in under progress)

- Mechanical Street sweeping of road(around 35 Km/Day)
- VNN conducts regular road surfaces covering 35 Km. road length per day by 02 Mechanical Sweeping Machines
- 04 CAAQMS are operational and 01 CAAQMS is proposed by CPCB under CPSU CSR scheme for which timeline shall be provided by CPCB. Sensor based 15 Air Quality Monitoring Sensor installed by Nagar Nigam in City including parks under smart city. 05 manual and 01 CAAQMS installed by UPPCB.
- 30 Hotspot Identified.
- 50 Online PUC Centers established in Varanasi District.
- **Parking** (Parking can reduce congestion and resultant emissions)
 - V.N.N:- 13 Sites of Two/Four Wheeler and 19 Sites of Auto/Bus Stand
 - V.S.C.L:- 03 Smart Multi level Parking(Godowalia, Beniabhag and Townhall)
- **Waste to Charcoal Plant Proposed, Agreement has done between V.N.N and NTPC, Plant work is in Under Progress.**

4. INITIATIVES SO FAR

14

➤ E-Vehicle ➡

E-Vehicles Type	Nos
E-Rickshaw	10956
E-Cart	169
E-Bus	11
Two Wheeler (elec)-	1368
Motor Car (elec)	11
Total	12515

- **500 Motor boat converted to CNG out of 600**
- **To Pilgrims/Visitor has Route provided to the Vishwanath temple through Ganga River, Kashi Vishwanath Corridor(This reduced traffic consumption) Link**
- ITMS Based Road Traffic management system(21 Locations)
- 5 days awareness programme with Stakeholder/Citizens under RACE for ban “Single use plastic”
- Cleaning 19 Major Drain in Varanasi by Drone Device of approx. 20371 Meter length
- Dedicated C & D waste collection centers numbering 31, are functioning in the city each with a capacity of 50 TPD.
- 05 Sewage Treatment Plant are working around capacity of 390 MLD (80 MLD Dinapur, 140 MLD Dinapur, 120 MLD Gointha and 50 MLD Ramna)
- 02 WTP Plant around capacity of 350 MLD(100 MLD Sarnath, 250 MLD Bhelupur)

5. Best Practices Photograph

Placemaking & Fountain work for AQI

16



Fountain work for Improvement of Air Quality

17



Sigra



Durgakund

Fountain work Under PPP Mode

18



Road/Interlocking work

19



Solid Waste Management Plant at Karsada (approx. 700 TDP)

20



C&D Waste Processing Plant(200 TDP)

21



Unnamed Road, Ramna, Uttar Pradesh 221011, India

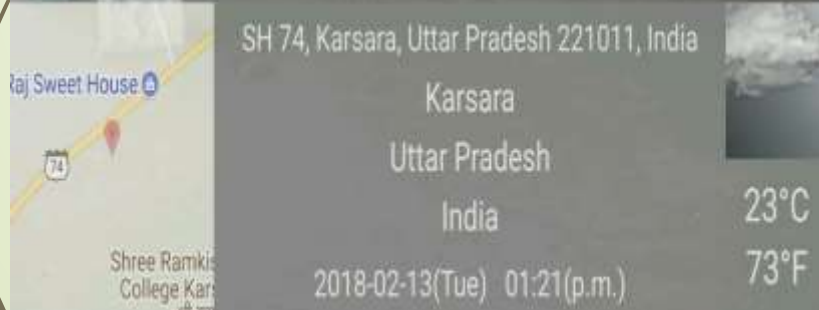
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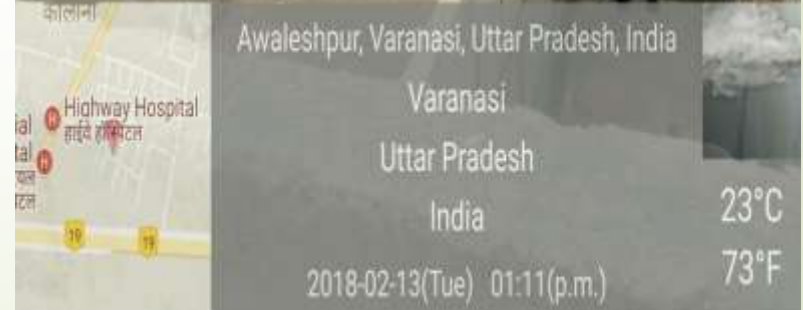
SHIVA COLONY
शिव कॉलोनी

Waste to Energy Plant at Karsada(24 TPD)

22

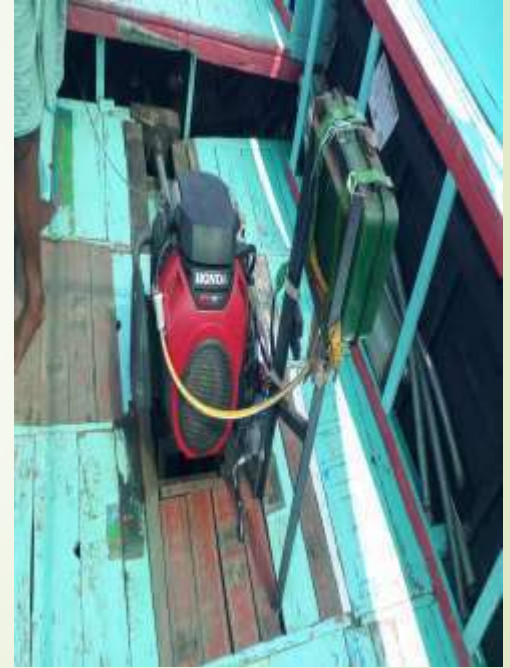


Leachate Treatment Plant at Karsada



CNG converted Motor boat

23



वाराणसी शहर में गंगा नदी में डीजल/पेट्रोल चालित 500 नावों को सी0एन0जी0 नावों में परिवर्तित किये जाने के कार्य

का लोकार्पण

श्री नरेन्द्र मोदी

प्रधानमंत्री

के कर कमलों द्वारा सम्पन्न हुआ।

—गरिमामयी उपस्थिति—

श्रीमती आनंदीबेन पटेल

राज्यपाल, उत्तर प्रदेश

योगी आदित्यनाथ

मुख्यमंत्री, उत्तर प्रदेश

श्री अरविन्द कुमार शर्मा

मंत्री, उत्तर प्रदेश सरकार

श्री सौरभ श्रीवास्तव

विधायक

श्री हरदीप सिंह पुरी

केन्द्रीय मंत्री, तेल एवं प्राकृतिक गैस मंत्रालय

श्री नीलकण्ठ तिवारी

विधायक

श्री सुनील पटेल

विधायक

वाराणसी, उत्तर प्रदेश

गुरुवार, 07 जुलाई, 2022

Smart Multi Level Parking Town Hall

25



Capacity :-150 Four Wheeler, 65- Two Wheeler

Smart Multi Level Parking Beniya Bagh

26



Capacity :- 450 Four Wheeler, 150 Two Wheeler

Smart Multi Level Parking Gadowalia

27



Capacity:- 370 Two Wheeler

Action taken against Single Use Plastic

28



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Reduction Awareness Circular(Solution) & Mass Engagement Activities for Collection, Recycling(RACE) Programme (Banned -Single Use Plastic)



Vertical Garden

30



V.N.N, Sagra



Padmshree Crossing, Bhelupur

To create/Grow Forest from Miyawaki Technique at Three Site (Central Jail Road, Beniyabhag Park, Kamaccha, BHU)

31



Electric Vehicle Buses

32



Installed CAAQMS (at Jalkal, Kamachha Area)



34

**साप्ताहिकी जागरण**

UNIVERSITY OF MICHIGAN LIBRARY

A group of people are sitting in small, simple boats on a wide river. They are wearing colorful clothing. In the background, a large, multi-arched stone bridge spans the river. The scene is set in a rural or semi-rural area with some buildings visible on the far bank.

[illegible]

सामान्य बरत साध १५ जुलैलागी पुणेपास
ये की जहाई है। मजदूर वीरमकर १५
जुलैलागी वरी मजदूर। बरतवरी जहाया २५
जुलैलागी जरीर पुणे व आता जहाया वरी
जहाया है। बरत दिवस जहाया वर जहाया व
जहाया वरी वर दिवस जहाया वरी जहाया
जहाया है। बरतवरी २५ जुलैलागी वरी जहाया
मजदूर वरी वर जहाया पुणे वरी जहाया वर
जहाया है।

रीडर नेमबर एड्डा की प्रविष्टि आए मुख
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STP/WTP Plant

35

140 MLD STP Plant at Dinapur



50 MLD WTP Plant at Ramna



Road Sweeping Day/Night(35 KM/Day)



Road sprinkle work(Day/Night, Approx 22.5 Km)

37



Tree Plantation Programme

38



6. I.E.C Activity

MASS AWARENESS

Public awareness programs have been organized by the Uttar Pradesh Pollution Control Board in collaboration with social service organizations and working organizations at different places for environmental and pollution control. The photograph and details of the program published in the dailies are as follows-

फैक्ट्रियों से निकलने वाले कार्बन की रोकथाम पर हुआ मंथन



डा. बाबूराव नरुज अग्रवाल
कारागार में।

वन प्रदायक रामनगर कारागार में फैक्ट्रियों से निकलने वाले कार्बन की रोकथाम पर मंथन हुआ। इस दौरान उपस्थित लोगों ने फैक्ट्रियों से निकलने वाले कार्बन की रोकथाम पर चर्चा की।

इस अवसर पर कार्यक्रम में मुख्य अतिथि डॉ. बाबूराव नरुज अग्रवाल, जिला बोर्ड, बनारस।

वन प्रदायक रामनगर कारागार में प्रमुख अतिथि डॉ. बाबूराव नरुज अग्रवाल।

निकलने वाले कार्बन को कैसे रोकें जाय पर चर्चा की। इस दौरान उपस्थित लोगों ने फैक्ट्रियों से निकलने वाले कार्बन की रोकथाम पर चर्चा की।

इस अवसर पर रामनगर कारागार में प्रमुख अतिथि डॉ. बाबूराव नरुज अग्रवाल, जिला बोर्ड, बनारस।

गुरु रविदास जी के जन्मदिन के 1 दिन पूर्व भी चला स्वच्छता अभियान तुलसीघाट, चेतसिंह घाट से हरिचंद घाट तक

आज का दिन

कारागार में। मि. बाबूराव नरुज अग्रवाल 95 बटलिपन के दौरान पुलिस बल, तुलसीघाट, चेतसिंह घाट से हरिचंद घाट तक स्वच्छता अभियान चलाया गया।

इस अवसर पर रामनगर कारागार में प्रमुख अतिथि डॉ. बाबूराव नरुज अग्रवाल, जिला बोर्ड, बनारस।



विभाग द्वारा प्रेषित सार्वजनिक नदी श्री अजित कुमार सिंह ने सभी को जल संधारण स्वच्छता अभियान में गले को स्वच्छ रखने को शपथ दिलाई। साथ-साथ स्वच्छता अभियान में भाग लेने वाले लोगों को स्वच्छता अभियान में भाग लेने को शपथ दिलाई।

सीआरपीएफ ने चलाया स्वच्छता अभियान

भारत एकता टाइम्स, बाराणसी

95 बटलिपन के दौरान पुलिस बल, तुलसीघाट, चेतसिंह घाट से हरिचंद घाट तक स्वच्छता अभियान चलाया गया। इस अवसर पर रामनगर कारागार में प्रमुख अतिथि डॉ. बाबूराव नरुज अग्रवाल, जिला बोर्ड, बनारस।



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संस्कार के बीज से पनपी हरियाली की पौध

लीफ़ फ़ाउंडेशन

सनतान धर्म में संस्कार का महत्व जनजाति है, इसे संस्कार-पुनर्जनन भी कहा जाता है। इसके बीज बोना मन में पड़ जाये तो वह संस्कार हो जाता है। वह परंपरा से जुड़ा है तो प्रकृति को ओर भी मुड़ता है। कुछ ऐसे ही संस्था निता समुदाय सिंह से मिली कटींग के माध्यम नगर कालेनी निवासी अनिल सिंह को।

मुला: आत्ममर्त्य के विपरीत निवासी अनिल सिंह ने उसे फिर मां लाना और हरिकर्त विहार व जल संयोजन का संकल्प लेकर जीवन का तत्त्व बनाया। नृजन सामाजिक संस्था बनाकर इसे परंपरा से बांधा प्रकल्प बना लिया। आज उनके



नईगांव में कैबरीन की तलाश में अनिल सिंह। (डा. से. दुबे) व संस्था

प्रकाश से दुनियां जलजल है। उन जलती हैं के किनारे पेड़-पौधों से हल-धर है। अनिल सिंह अब तक पर्यावरण रक्षा के लिए कारगमों और आस-पास के जिलों के राई में एक लक्ष से अधिक पौधे लाकर चुके हैं। सरायों को छेड़ते हुए वह विधायक और अन्य संस्था भी साक खड़ी है।

सातव में पर्यावरण व जल संरक्षण अधिषन पर अनिल सिंह सुबह हो घर से निकल जाते हैं। पौधे लाते, जलती का पेड़ जल से सजने और जलसकता को अलख जमाने के बाद बोझ के लिए घर आते हैं। अच्छे जल संरक्षण और पर्यावरण के लिए उन्हें सम्मानित भी किया जा चुका

संकल्प

- निता की सोल सिन वाले तथाक
- 100 पौधों में रेन वाटर हाईसिस्टम
- सिस्टम व दर्शन ताकतों को मत

है। अनिल सिंह बताते हैं कि जल संयोजन और पर्यावरण संरक्षण के लिए वातावरण, स्क्रू और अवासीय फ्लैट के अलावा कूल पैकिंग में रेनवाटर हाईसिस्टम सिस्टम लाकरवा। पिछले दो वर्षों में लंबा क्षेत्र के टिकोई गाँव में तीन नए जलवा, माधोपुर व सोनपुर में दो-दो जलवा, बरौली में अपने जमीन पर तीन नए जलवा बनाए। बड़गाँव, मिर्जा, पुष्कर जलवा का जोड़कर करवा।

गुरु रविदास जी के जन्मदिन के 1 दिन पूर्व भी चला स्वच्छता अभियान तुलसीघाट, चेतसिंह घाट से हरिचंद घाट तक

आजारा वर पुष्कर

वा रा रा सी / मि जी मुराद । वागणसी 95 बटालियन केंद्रीय रिजर्व पुलिस बल, नृजन सामाजिक विकास न्यास तथा नगर निगम के संयुक्त तत्त्वधान में तुलसी घाट, चेतसिंह घाट से लेकर हरिचंद घाट तक स्वच्छता अधिषन चला तथा मतदान जन जागरूकता अधिषन चलाया गया। यह कार्यक्रम 95 बटालियन केंद्रीय रिजर्व पुलिस बल के कर्माडेट के मार्गदर्शन में चलया जा रहा है। इस कार्यक्रम के मुख्य अतिथि श्री हरिप्रम मिश्रा स्नायक कचोडेट 95 बटालियन केंद्रीय रिजर्व पुलिस बल थे।

इस कार्यक्रम की अध्यक्षता श्री अनिल सिंह ब्रांड एंबेसडर पर्यावरण



विभाग उत्तर प्रदेश सरकार ने की श्री अनिल कुमार सिंह ने सभी को जल संरक्षण स्वच्छता अधिषन में गंगे को स्वच्छ रखने की राय दीलाई, साथ साथ स्वस्थ मनसिकता से मतदान करने की भी राय दीलाई इस कार्यक्रम में नगर निगम के स्वच्छता कर्मी भी बह चह कर भाग लिए। इस

कार्यक्रम में 95 बटालियन केंद्रीय पुलिस बल के अधिकारी व उप निरीक्षक सिध शंकर सराहायक उपनिरीक्षक धवन कुमार पाण्डेय के साथ प्रवीण सिंह तथा नृजन सामाजिक विकास न्यास के कर्मचारी साथ साथ में व हरिचंद घाट और बरौली घाट के सफाई कर्मी भी उपस्थित रहे।

जन जागरूकता रैली आयोजित

वागणसी (एसएनबी) । आगदी के अमृत मोलसक के दौरान जलनित मिश्र स्वकी बटालियन सरसली इंटरमीडिएट कॉलेज रोडदुर में नृजन की पर्यावरणिक अनिल सिंह की देखरेख में पर्यावरण संरक्षण एवं स्वच्छता जागरूकता रैली तथा पौधारोपण



कार्यक्रम का आयोजन किया गया। मुख्य अतिथि रोहितप विद्यार्थक सुरेश ताराय सिंह तथा निताड अतिथि नृजन सामाजिक विकास न्यास के अध्यक्ष तथा पर्यावरण वन एवं जल जीव तथा

जलवायु परिवर्तन के ब्रांड एंबेसडर अनिल सिंह, आर्गैकलस वागणसी के वीएफओ महावीर कौलमी एवं डिप्टी कमिश्नर मोतारम मुता के साथ सुवेदार आशु खन द्वारा मां सरस्वती के चित्र पर मान्यताएं व दीप प्रज्वलन कर किया गया। कार्यक्रम के

पर्यावरण संरक्षण के लिए लोगों ने ली शपथ

दीपन त्यागी भद्रानंद सरस्वती इंटरमीडिएट के छात्र छात्राओं द्वारा पर्यावरण एवं जल संरक्षण तथा स्वच्छता एवं मतदान जन

जागरूकता रैली निकाली गयी। रैली रोहितपुर से रोहितपुर बाजार स्थित राई चौक से होते हुए पुन: निघातपुर परिसर में आकर समाप्त हुई। इस दौरान कॉलेज परिसर में पौधारोपण किया गया।



Public awareness program regarding environmental pollution was broadcast from 8th November 2021 to 10th November 2021 through FM channel.

CERTIFICATE OF BROADCAST

RED FM 93.5

Advertiser: U.P. Pollution Control Board
 Product: U.P. Pollution Control Board
 Caption: UP POLLUTION-300000
 RD Name: 80x20-21x100 Pollution/Varnasi FM
 BR No.: 21220001049

Channel Name	Date of Broadcast	Name of the Program	Time of Broadcast	Duration in Sec.
Red FM Varanasi	08.08.21	22 to 23 Nov - Varanasi FM	22:10:20	30
Red FM Varanasi	08.08.21	22 to 23 Nov - Varanasi FM	22:23:40	30
Red FM Varanasi	10.08.21	11 to 12 Nov - Varanasi FM	11:27:40	30
Red FM Varanasi	10.08.21	12 to 13 Nov - Varanasi FM	12:33:39	30
Red FM Varanasi	10.08.21	13 to 14 Nov - Varanasi FM	13:00:47	30
Red FM Varanasi	10.08.21	14 to 15 Nov - Varanasi FM	14:00:00	30
Red FM Varanasi	10.08.21	15 to 16 Nov - Varanasi FM	15:00:00	30
Red FM Varanasi	10.08.21	16 to 17 Nov - Varanasi FM	16:00:00	30
Red FM Varanasi	10.08.21	17 to 18 Nov - Varanasi FM	17:00:00	30
Red FM Varanasi	10.08.21	18 to 19 Nov - Varanasi FM	18:00:00	30
Red FM Varanasi	10.08.21	19 to 20 Nov - Varanasi FM	19:00:00	30
Red FM Varanasi	10.08.21	20 to 21 Nov - Varanasi FM	20:00:00	30
Red FM Varanasi	10.08.21	21 to 22 Nov - Varanasi FM	21:00:00	30
Red FM Varanasi	10.08.21	22 to 23 Nov - Varanasi FM	22:00:00	30
Red FM Varanasi	10.08.21	23 to 24 Nov - Varanasi FM	23:00:00	30
Red FM Varanasi	10.08.21	24 to 25 Nov - Varanasi FM	24:00:00	30
Red FM Varanasi	10.08.21	25 to 26 Nov - Varanasi FM	25:00:00	30
Red FM Varanasi	10.08.21	26 to 27 Nov - Varanasi FM	26:00:00	30
Red FM Varanasi	10.08.21	27 to 28 Nov - Varanasi FM	27:00:00	30
Red FM Varanasi	10.08.21	28 to 29 Nov - Varanasi FM	28:00:00	30
Red FM Varanasi	10.08.21	29 to 30 Nov - Varanasi FM	29:00:00	30
Red FM Varanasi	10.08.21	30 to 31 Nov - Varanasi FM	30:00:00	30

S.A.B.E.

This is to certify that the advertisement for the above Product / Products has / have been broadcasted on the channel date.

Authorized Signatory

Public awareness program regarding environmental pollution was broadcast from 8th November 2021 to 10th November 2021 through FM channel.



7. Financial Progress

Funded under NCAP(3.6753 Cr.)

Funded under XV-FC(108.1 Cr.)

Financial Progress (NCAP)

43

Components	Status as on 29.07.2022
Total Fund released under NCAP (Rs in Cr)	3.67 Cr.
Fund utilized under NCAP (as per UC) (Till date) (Rs in Cr)	3.67 Cr.
Submission of UC (FY 2021-22) Varanasi	Submitted
Whether activities of city action plan (in which funds are utilized) are mentioned in UC	Yes
Fund Carry Forward Request	No
Opening of separate saving A/C of NCAP Cities	Nagar Nigam Varanasi have Separate Account (Punjab National Bank, Nichi Bhag, Varanasi).

Financial Progress (XV-FC)

44

FY 2020-21			FY 2021-22		
Total fund released	Fund Utilized	Activities undertaken for Utilization of fund	Total fund released	Fund Utilized	Activities undertaken for utilization of fund
73.0 Cr.	16.26 Cr.	1. Amount Transfer By V.N.N to PCB, Varanasi Activities- Installation/Upgradation of CAAQMS, Installation & Upgradation of Manual Station for Air Quality Monitoring, Automatic Noise Monitoring Stations, Strengthening of Air Lab, Mobile CAAQMS, Training & Capacity Building of UPPCB, Impact Studies of Air Pollution Control & mitigation measure by TPI, Installation of High Mast Cameras & Video Fencing, Mobile Squad Infrastructure.) 2. Amount Transfer By V.N.N to Divisional Forest Officer, Samajik Vaniki Van Prabhag, Varanasi. Activities- Plantation & Iron Tree Guard, Developed small forest(Miyawaki System) in Varanasi 3. Varanasi Nagar Nigam(V.N.N) Activities-Development/Repairing of Road & Road Side, Interlocking work, Developed Water Fountain .	35.10 Cr.	Nil	Proposal has been prepared of Total Rs 68.11 Cr. (Fin Year 2020-21 & 2021-22)

वाराणसी नगर निगम, वाराणसी

AQI- Financial Statement

15 वें वित्त आयोग के अन्तर्गत वित्तीय वर्ष 2020-21 के अन्तर्गत प्राप्त एयर क्वालिटी इम्प्रूवमेंट हेतु प्राप्त धनराशि के सापेक्ष स्वीकृत कार्यों का संक्षिप्त विवरण:-
 रु 73.00 करोड़ के सापेक्ष स्वीकृत कार्यों का संक्षिप्त विवरण- (धनराशि रु लाख में)

क्र.स.	मद	कार्यों की स्थिति				आगणन/स्वीकृत धनराशि	निविदा धनराशि	व्यय धनराशि	अभियुक्ति
		स्वीकृत	पूर्ण	प्रगति पर	अनारम्भ/निविदा प्रक्रिया में				
1	2	3	4	5	6	7	8	9	10
1	आयनन ट्री-गार्ड वृक्षारोपण हेतु वन विभाग, वाराणसी को कुल रु 277.79 लाख हस्तांतरित	1	1	—	—	277.79	—	277.79	कार्य वन विभाग द्वारा कराया जा रहा है।
2	मियावाकी वृक्षारोपण(मियावाकी फॉरेस्ट) हेतु वन विभाग, वाराणसी को रु 109.92 लाख हस्तांतरित	1	—	1	—	109.92	—	109.92	
3	उत्तर प्रदेश नियंत्रण बोर्ड द्वारा वाराणसी हेतु प्रस्तावित कार्ययोजना (आवश्यकतानुसार सीएएचयूएमएस लैब, तथा कंपैसिटी बिल्डिंग	1	—	1	—	673.98	673.98	673.98	कार्य प्रदूषण नियंत्रण बोर्ड द्वारा कराया जा रहा है।
4	डस्ट मिटिगेशन हेतु हाटमिक्स प्लान्ट/इन्टरलाकिंग टाइल व साइड पट्टी का कार्य।	58	11	47	—	2494.62	2169.78	563.31	47 कार्य प्रगति पर है।
5	तालाब	1	—	—	1	300.00	297.00	—	—
कुल योग		62	12	49	1	3856.51	3139.78	1626	

वित्तीय वर्ष 2021-22 में कुल प्राप्त धनराशि 35.10 करोड़ रुपये प्राप्त हुये है। वित्तीय वर्ष 2020-21 एवं 2021-22 के कुल 68.11 करोड़ रुपये के सापेक्ष प्रस्ताव तैयार है एवं टेंडर की प्रक्रिया में है।



Thank You

Review Meeting of 82
Non-Attainment Cities (NACs) Under
National Clear Air Programme (NCAP)

29th July 2022

State: TamilNadu

City: Thoothukudi City Municipal Corporation

Outline of presentation

- Initiatives so far
- Status of Air Quality in Thoothukudi City Municipal Corporation
- NCAP fund utilization
- Convergence of schemes
- Way Forward

Initiatives so far

- Tender fixed on 20.07.2022 for purchase of shredder machine for each zones.
- Letter addressed to Department of Environment, Chennai for Public Awareness and Capacity Building.
- M.O.U signed and orders sent to IIT Chennai. After receipt of invoice amount will be paid for SA, EI & CC studies.
- The estimation preparation completed for the works of End to End Road Paving.

Afforestation –Miyawaki forest



Before



After

Thiruvka nagar



Status of Air Quality in Thoothukudi City Municipal Corporation

- Major Problem of Thoothukudi city was Air Pollution.
- The observed monthly average of PM10 Value for three monitoring station under NAMP at Thoothukudi City for the period Apr 2017- Feb 2019 is given in the Table below.

Monthly average of PM10 values in Thoothukudi city

Month	SIPCOT		
	Max	Min	Avg
Apr	164	42	112
May	120	52	82
Jun	134	61	97
Jul	139	54	85
Aug	170	74	110
Sep	111	47	93
Oct	135	59	98
Nov	96	73	85
Dec	97	53	70
Jan	99	64	84
Feb	98	70	84
Avg	124	59	91

NCAP fund utilization

- Initiatives in order to resolve dust pollution thoothukudi city municipal corporation mainly focused on reducing the air pollution.
- 4 Nos of Shredder Machine to Bulk solid waste converted into fine solid waste. To increase the load carrying capacity of vehicle transport to solid waste.
- LCV- Tata Ace Nos. of 4 Vehicle for Door to Door Collection of solid waste management.
- Afforestation – Miyawaki Forest in compost Yard To Improve Air Quality.

End to End Road Paving



VVD SMART ROAD PHASE I PACKAGE I- PHOTOGRAPHS





BOLDENPURAM SMART ROAD PACKAGE II- PHOTOGRAPHS



Mechanical Road Sweeper



Convergence of schemes

- Completed Projects:
 - Smart city funds Bio-mining – 14.80 crores. This resolved the issue of air pollution due to burning of legacy waste and dumping of waste on land has decreased.
 - Smart City funds purchased LCV- 26 Nos which helps for door to door collection of solid waste and resolved that dumping on road sides (1.46 Crores)
 - Smart City funds purchase of vacuum cleaning machine 2 Nos helps to remove the fineness sand or silt on the road side and public buildings (0.28 crores)

- Smart city funds – purchase of Tipper Capacity – 10 Nos helps to remove the Bulk solid waste from the road sides. (0.62 Crores)
- 11.50 Crores Rejuvenation of SV Kulam in World Bank Scheme TNSUDP.

Way Forward

- End to End Road paving to avoid dust forming.
- Source Apportionment, Emission Inventory & Carrying Capacity Study for Measurements and tracking down the sources through receptor modeling, helps in identify the sources & extent of their contribution.
- Enforcement Unit for Surprise check will be done by the mobile team.
- Public Awareness and Capacity Building for Public Outreach programmes.

Total Fund Requirement (IN CRORES)

Sl.No	Component	2022	2023	2024	2025	2026	Total
1	Road Improvement		100.00		100.00		200.00
2	End to End Road Paving		25.00	25.00	30.00	30.00	110.00

THOOTHUKUDI CITY MUNICIPAL CORPORATION – TAMIL NADU**NATIONAL CLEAN AIR PROGRAMME (NCAP) 2020-21 As on. 21.07.2022**

Sl. No	Name of item	Quantity	Rate per item	Approximate estimate value (Rs in Lakh)	Action Taken Report
1	Purchase of Shredder machine for 4 MCC @ one for each of the four zones	4.0	15.0	60.00	Tender fixed on 20.07.2022.
2	Purchase of LCV - Tata Ace vehicle for solid waste management (SWM)	4.0	9.0	29.23	4 Nos of vehicles purchased and put into use in the needed wards.
3	Purchase of Mechanical road Sweepers a) NCAP New Vehicle b) SBM Vehicles convergence of Local Body contribution	2.0	Capitla Cost 30.00Lk O&M cost 5.00 Lakhs/year	35.00	Tender Received and Evaluation in process

Sl. No	Name of item	Quantity	Rate per item	Approximate estimate value (Rs in Lakh)	Action Taken Report
4	Afforestation - Miyawaki forest in Compost yard of Thoothukudi City Municipal Corporation (TCMC) in Tharuvaikulam	6acres	5.0	30.00	Funds remitted to forest department. Land fencing work nearing condition.
5	Public awareness and capacity building activities	1	10.0	10.00	As per the Information of the Environment department, NGC is discussed, Awareness programme will start shortly.
6	Mobile Enforcement Unit	1	16.20	16.20	Suitable vehicles will be purchased
7	Source Apportionment Emission Inventory and carrying capacity (18 months)	1	18.00	18.00	

Sl. No	Name of item	Quantity	Rate per item	Approximate estimate value (Rs in Lakh)	Action Taken Report
8	Providing Paver Block at Road Side i) Providing Paver Block in Kurnji Nagar Main Road (TWO SIDE) ii) Providing Paver Block in Sivanthakulam Road (TWO SIDE) iii) Providing Paver Block in Polepettai 60ft Road (TWO SIDE) iv) Providing Paver Block in Kandhasampuram Main Road (TWO SIDE)	3640 Length in Meter	Rs.2563/- Per RM	93.32	The estimation preparation completed for the works.

Total	3.06Cr.	



5TH MEETING OF STEERING COMMITTEE UNDER NATIONAL CLEAN AIR PROGRAMME

July 29th , 2022



ACTIVITIES UNDERTOOK FOR AIR QUALITY MANAGEMENT IN HYDERABAD .



GREATER HYDERABAD MUNICIPAL CORPORATION





Key stakeholders intervening sectoral activities

Vehicular Emission

Industrial emission

C&D Activity

Road Dust

Waste & Biomass



Institute of Repute



Status of physical progress under NCAP & XV-FC

S. No.	Activities	Status (provide information with timeline)
1	Preparation of State Action Plan on initiatives that would help in air quality improvement under NCAP	Prepared and submitted to CPCB in March,2022.
2	City-wise action plan for next year	Proposals for next year put up in PPT
3	Uploading of approved city action plans & micro action plans for non-attainment cities on NCAP portal	Uploaded Micro action plan for FY.2021-22 in PRANA on May,2022
4	Uploading of Progress reports of non-attainment cities w.r.t. implementation of city action plans on NCAP portal	Under process
5	Creation of Air quality monitoring cell	Constituted
6	Status of Air quality monitoring network	12no CAAQMS are installed and working and also connected to CPCB server. 16 Manual stations are in operation and data is being uploaded to CPCB and in TSPCB website.
7	Status of studies (SAS, EI)	SAS study for Hyderabad and Patancheruvu awarded to IIT Kanpur in February 2021 with



Status of physical progress under NCAP & XV-FC

S. No.	Activities	Status (provide information with timeline)
9	Year-wise improvement in air quality status in comparison with 2019	Average PM10 Concentration ($\mu\text{g}/\text{m}^3$) ☐ in 2019-20 : 100 ☐ in 2020-21 : 99 ☐ in 2021-22 : 97
10	Frequency of meetings of implementation committee and progress made on decisions	Quarterly once
11	MoU signed between CPCB, SPCB/PCC & ULB as per Guidelines for release & fund utilisation under NCAP issued by MoEF&CC	Yes
12	MoU signed between MoEF&CC, State Government, and ULB as per Operational Guidelines issued by DoE, MoF	Yes
13	Performance Assessment of cities/UAs under XV-FC by SLMIC	Performance Assessment for the year 2020-21 submitted and for the year 2021-22 will be submitted soon
14	Performance Assessment of cities under NCAP by CPCB	Patancheru is integral part of Hyderabad which is under MPC and hence covered under Performance Assessment of Hyderabad (i.e. GHMC area)



Physical and Financial Progress under XV-FC for the FY 2020-21

Activities carried out				
Sl. No	Activity	Funds Allocated	Physical Status	Financial Status
1	Laying of BT/ CC roads	128.194 Cr.	216 nos. of CC/ BT road laid covering 92 km	128.194 Cr utilized.
2	Installation of Adaptive Traffic Control system (ATSC) and pelican signals	14.00 Cr.	ATSC- 25 installed, Tested and Commissioned Readiness of 175 nos existing Traffic Signals	14.00 Cr utilized
3	Maintain potholes free roads	10.00 Cr.	Road maintained through Jet patcher machines in all (6) zones	10.00 Cr utilized.
4	Urban Greenery : Green buffer along traffic corridors, plantation, Junction development	11.00 Cr.	122 no of works completed under development of greenery, parks, junction improvement, block plantation , avenue plantation, central medians and vertical gardening	11.00 Cr utilized
5	Construction and demolition waste management	21.00 Cr.	420,274 MT of C&D Waste collected and 1,93,686 MT of C&D waste recycled.	12.93 Cr. utilized



Physical and Financial Progress under XV-FC for the FY 2020-21

Activities carried out				
Sl. No	Activity	Funds Allocated	Physical Status	Financial Status
6	Synchronization of traffic movement, Procurement of iron barricades, Ropes, Bollards, VHF manpack set, cones, digital cameras for lane discipline and enforcement and Awareness campaign	0.836 Cr.	Under progress by Hyderabad & Rachakonda Police Commissionerates.	-
7	EV Charging Stations (EVCS) and upstream infrastructure for public charging stations – i. Upfront electrical infrastructure for 3 Nos. EVCS under FAME-I and 118 Nos. of EVCS under FAME-II (@Rs.0.25 Cr / EVCS Elec Infra) ii. Installation of 50 nos. of electrical vehicle charging stations (@Rs.0.5 Cr / EVCS)	15.00 Cr.	Upfront electrical infrastructure for 32 no of EVCSs, procurement of 60 no of DC fast charges and 500 AC slow charging stations out of total action plan of EVCSs for the city.	15.00 Cr utilized



Physical and Financial Progress under XV-FC for the FY 2020-21

Activities carried out				
Sl. No	Activity	Funds Allocated	Physical Status	Financial Status
8	Installation of GPS tracking system in public buses and development of mobile application	12.97 Cr.	Work is under process by TSRTC	-
9	Procurement of new mechanized sweepers.	20.00 Cr	4 no of mechanized sweepers procured and balance under process by HMDA and tenders called for additional 4 nos.	Rs. 5.00 Cr utilized
10	Public awareness	0.60 Cr.	Under progress by GHMC	-
11	Installation IP camera for industrial estate monitoring	0.20 Cr.	Under progress by TSIIC	-
12	Online integration of PUC facilities and app for public transport	0.20 Cr.	Under progress by RTA	-
Total		234.00 Cr.		196.124 Cr utilized

Note: UC submitted for Rs. 115.94 Cr and balance UC will be submitted soon



Action plan under XV-FC for the FY 2021-22

Activities proposed			
Sl. No	Activity	Funds Proposed	Activities proposed
1	End-to-end paving of roads along with black-topping and maintaining potholes free roads	52.05 Cr.	Laying of VDCC roads -GHMC
2	Urban Greenery : Green buffer along traffic corridors, plantation, Junction development	7.33 Cr.	41 works under varied components proposed for urban greenery -GHMC
3	Construction and Demolition Waste management	12.00 Cr.	Collection , transportation treatment and disposal of C& D waste
4	Intelligent traffic system for lane-driving – ATSC & PSS	12.00 Cr.	Installation of ATSC and PSS - GHMC
5	Synchronization of traffic movement, Procurement of iron barricades, Ropes, Bollards, VHF manpack set, cones, digital cameras for lane discipline and enforcement and Awareness campaign.	3.37 Cr.	Synchronization of traffic movement, Procurement of iron barricades, Ropes, Bollards, VHF manpack set, cones, digital cameras for lane discipline and enforcement and Awareness campaign - Hyderabad Police Commissionerate.
6	Conversion of Diesel operated buses to EV buses	16.25 Cr.	25 nos out of 100 nos. of Diesel operated buses are proposed for retrofitting along with EV chargers - TSRTC

ACTION PLAN UNDER XV-FC FOR THE FY 2021-22

ACTIVITIES PROPOSED			
SL. No	ACTIVITY	FUNDS PROPOSED	ACTIVITIES PROPOSED
7	EV CHARGING STATIONS (EVCS) AND UPSTREAM CHARGING STATIONS –	15.00 CR.	• UPFRONT ELECTRICAL INFRASTRUCTURE COST FAME-II IN GHMC LIMITS • INSTALLATION OF 30 NOS. OF ELECTRICAL AND INSTALLATION OF 2000 ELECTRIC POLE STATIONS IN GHMC • RETROFITMENT OF 5000 NOS. TO ELECTRIC AUTOS ALONG WITH CHARGING CUM SWAPPING STATION IN GHMC IMPROVING AIR QUALITY..... TSREDCO
TOTAL		118.00 CR.	

Activities under convergence : Maintenance of Roads

Comprehensive Road Maintenance programme (CRMP)

- ❑ End to end roads with foot[path are developed.
- ❑ 642 km of roads completed so far.

Regular maintenance of roads

- ❑ end to end Roads laid in FY 2021-22 covering a length of 70 km.

pot hole filling

- ❑ Roads are maintained pot hole free for smooth flow of traffic.



CRMP Road besides High Court of Telangana



Activities under convergence : Maintenance of Roads

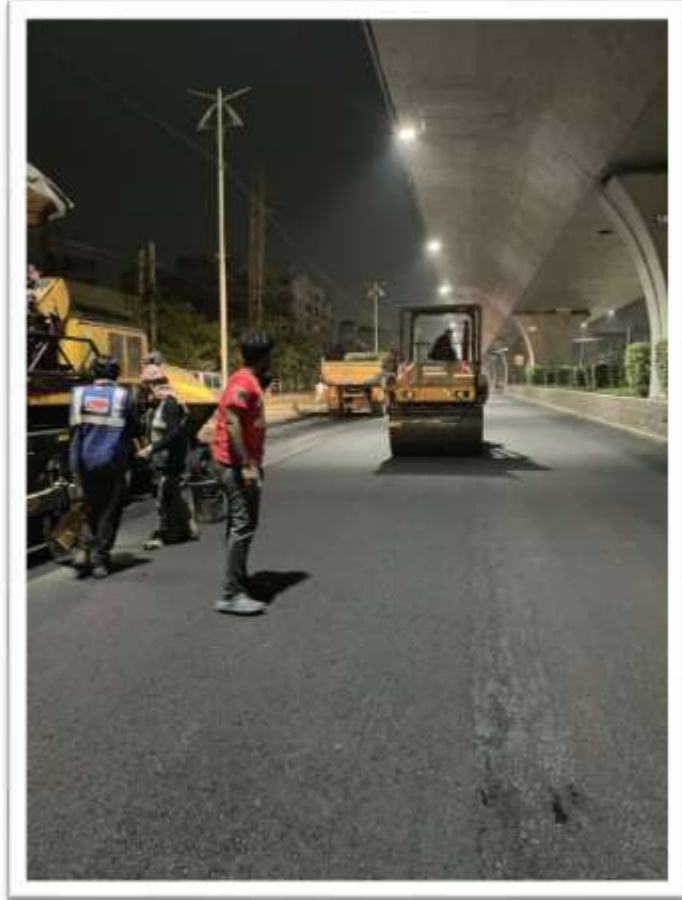


A separate walkway for pedestrians has been provided alongside the LB Nagar main road in Hyderabad. — Photo: Anand Dharmana





Activities under convergence : Regular pot hole filling



Laying of BT Road



Pothole Maintenance

Activities under convergence : Strategic Road Development Plan (SRDP)

- ❑ To provide Conflict free Road Network and funds are raising from GHMC own funds, term loans, floating bonds .
- ❑ Major corridors, major roads, Flyovers, ROBs/RUBs etc are taken up
- ❑ 47 projects were taken up in phase I costing Rs.8052.92 Cr
- ❑ 12 projects planned in phase II costing Rs.3115 Cr.

Activities under convergence : SRDP



**Four-lane elevated Corridor from
Rd. No.45 to Durgam Cheruvu**



Flyover at Owaisi Hospital Junction

Activities under convergence : Urban Forestry – Telanganaku Harithahaaram

Under this flagship programme of the Telangana state the following activities taken up by GHMC and HMDA .

- ❑ 600 nurseries were developed for supply of saplings for plantation.
- ❑ 620.88 Lakhs tree saplings were planted from 2016 to 2021.
- ❑ 120 lakhs tree saplings will be planted by the end of 2022.
- ❑ 406 open places developed as parks with plantation.
- ❑ 45 Locations were developed with Miyawaki model of dense plantations and named as Yadadri Natural Forest Model.
- ❑ “Urban Forest Parks” are taken up at Suraram (455 Ha), Madannaguda (97 Ha) & Nadergul (43 ha) Blocks.



Activities under convergence : Telangana ku Haritha Haram



**At Attapur one year old plantations : Yadadri
Natural Forest Model (Miyawaki)**



Institutional Plantation at VBRI



Activities under convergence :Urban Forestry – regular activity

Green buffer along the traffic corridor

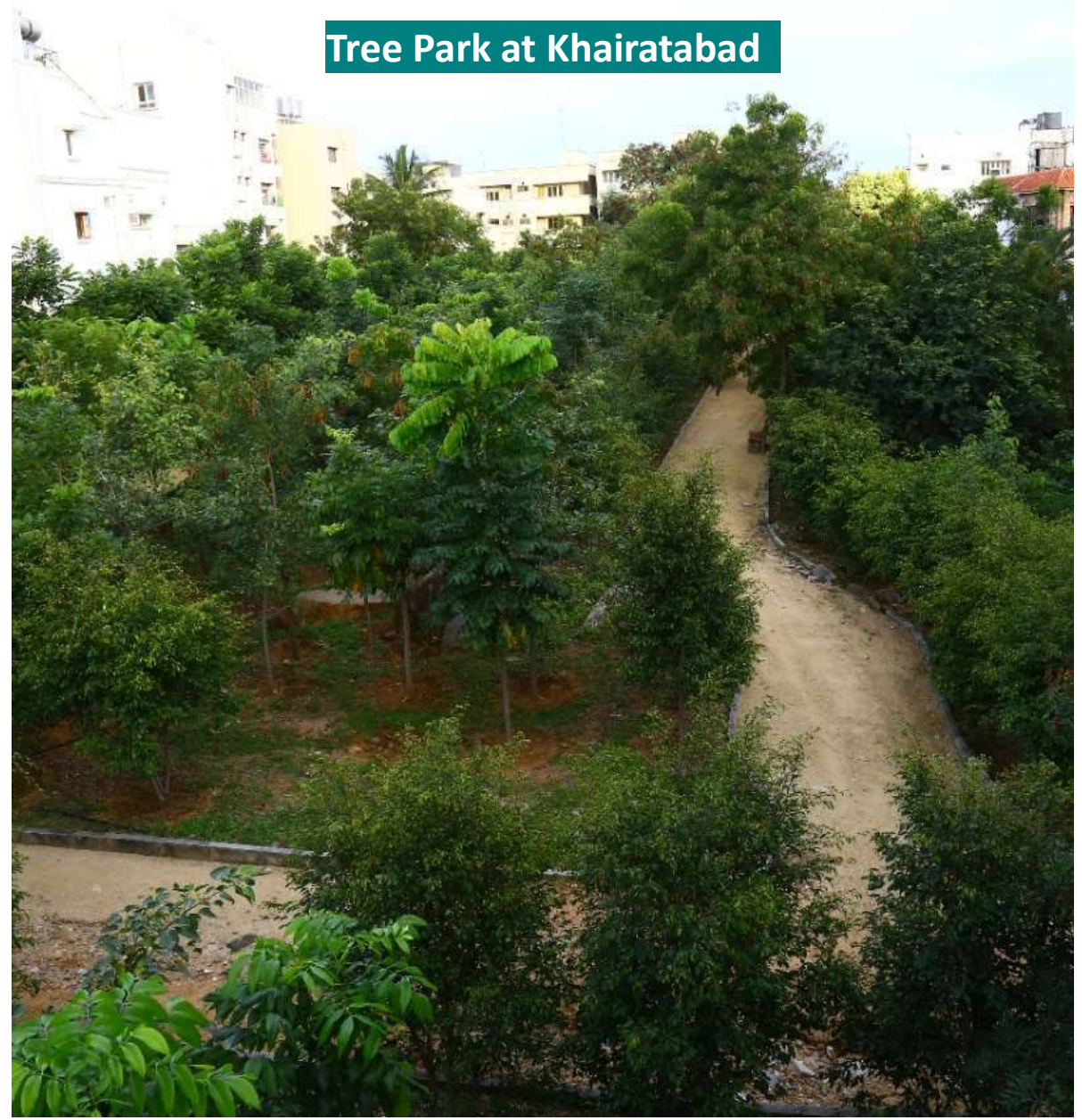
- ❑ Greenery is developed and maintained along the central median of 105 nos. on main road stretches.
- ❑ 60 Traffic Islands, Rotaries have been developed for improving the streetscape visuals
- ❑ 25 Flyovers across the GHMC have been embedded with landscape greenery
- ❑ Vertical Gardens for 85 pillars of 19 flyovers are developed
- ❑ Green ways, Green Curtains, Wayside views were developed on road margins at 56 Locations

Constructed Water fountains at major Traffic junctions

- ❑ 55 nos. of water fountains were constructed and maintained at major traffic junction



Landscape greenery & Vertical Gardening at Flyovers





Activities under convergence : C&D waste management

- ❑ Established 2 nos. of C&D waste recycling plant with 500 TPD recycling capacity each.
- ❑ Processing is carried out with Wet processing technology for eliminating dust generation during processing.
- ❑ Two more such plants are planning to establish in other 2 directions of the city.



C&D waste recycling plant at Jeedimetla



C&D waste recycling plant at Fatullaguda



Activities under convergence : EV charging stations

- Total 169 EV Station are available in Hyderabad including Govt & private.
- TSREDCO planned for installing 2,500 EV public charging station by 2025 under PPP model.



EV charging station @ Jubilee bus station



EV charging station @ TSREDCO office



Green Buses

- ❑ 132 CNG city buses are in operation in the City by TSRTC which reduce the emission of 2111 tonnes equivalent CO₂ per annum
- ❑ 40 e-buses are operating to RGI Airport from the city by TSRTC which reduce the emission of 4839 tonnes equivalent CO₂ per annum





Activities under convergence : Sweeping machines

- ☐ Mechanical sweepers are in operation on main roads
- ☐ 1850 km of roads are covered by Mechanical sweeping machines in 43 routes.
- ☐ 35 machines are in operation





Activities under convergence : Solid Waste Management

❑ Primary Collection & Transportation:

waste is collected and transported from door-to-door through 4500 nos. of Swachh Auto Tippers (SAT) and sweeping waste is collected through pushcarts and tricycle rickshaws.

❑ Secondary collection & Transportation

waste is collected and transported from the Commercial establishments, market, function halls etc. through 55 no of Refuse Compacter vehicles and 310 no of 6 T GVW vehicles.



Activities under convergence : Solid Waste Management

Transfer Station Management & Tertiary Transportation are managed by the following infrastructure

- ❑ 17 nos. of transfer stations.
- ❑ 116 no of static/ mobile Secondary Collection & Transfer points.
- ❑ 105 nos. of Portable Self Compactors.
- ❑ 76nos. of Static Compactor containers.
- ❑ 84 nos. of Hook mounted vehicles.



Activities under convergence : Solid Waste Management

Existing processing & Disposal facility capacity is 7000 TPD with the following facilities:

- ☐ 19.8 MW capacity Waste to Energy plant is in operation at Jawaharnagar and expanding to 48 MW. Another plant of 14.5MW is under construction at Dindigul.
- ☐ Compost Plant
- ☐ 5 TPD capacity Bio-methanation unit
- ☐ 5 TPD capacity Plastic Recyclables Processing unit
- ☐ Compressed Biogas bottling plant
- ☐ 1 MW Solar Plant
- ☐ 600 KLD Leachate Storage & treatment facility
- ☐ Scientific Landfill (SLF)
- ☐ Scientific capping of 12 million tons of Legacy waste.



Tricycles



Push carts/ Wheelbarrow



Swachh Auto Tipper

Primary Waste Collection System

Secondary Waste Collection System



6 Tonner GVW Vehicle



Refuse Compactor Vehicle



COLLECTION & TRANSFER STATIONS



LOCATION: PATANCHERU

Composting at IMSW processing site



Municipal Solid Waste Management

19.8 MW Waste to Energy plant at IMSW processing site





**EXTRUDER — RECYCLED
GRANULES MAKING PROCESS**



HDPE GRANULES



BLOWN FILM — RECYCLED GRANULES FILM ROLLS



FLEXOGRAPHIC PRINTING ON FILM ROLLS

PLASTIC RECYCLING FACILITY

Compressed Landfill gas bottling Plant



Bio methanation Plant





THANK YOU





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BRUHAT BENGALURU MAHANAGARA PALIKE

Air Quality Enhancement Activities in Bengaluru City

NATIONAL CLEAN AIR PROGRAMME (NCAP)

29-07-2022



Table of Contents

- BBMP Overview
- Air Pollution Current Scenario in Bengaluru
- Line Departments & Actions Taken to Control Air Pollution



A photograph of the BBMP (Bengaluru Bruhat Mahanagara Palika) building, a large, ornate structure with a central clock tower and multiple arched windows. The building is light-colored with dark accents. The text "BBMP Overview" is overlaid in white, underlined, centered on the image.

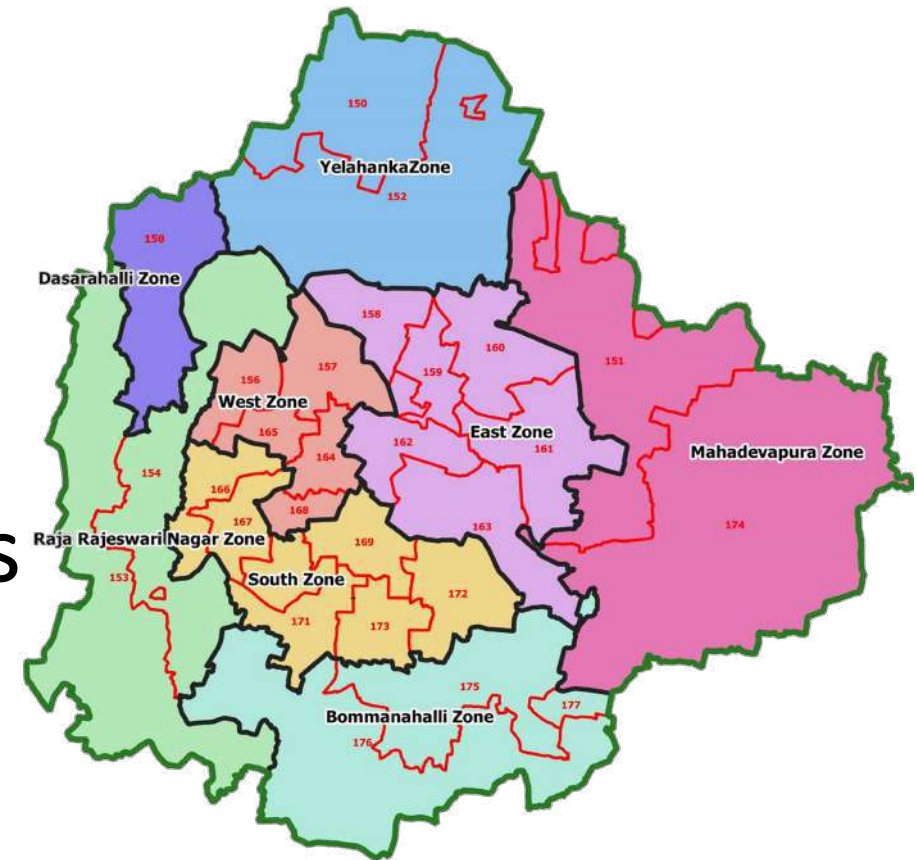
BBMP Overview

BBMP Overview

Area 741. Sq Kms	Population 1.3 Cr	Roads 13,000 KM+
SWDs 842 Kms	Lakes 201	Parks 1118

BBMP Key Line Departments

Projects	Road Infra	Zonal Engineering
Solid Waste Management	Lakes & Horticulture	Strom Water Drain



BBMP – Line Department Overview

Road Infra

Projects

Latest Technology used for pothole filling – 17K plus potholes filled in 2 months

~31KM roads taken up under Tender SURE, 90% completed

Improvement works at 25 key junctions taken up

4 Flyovers completed, 2 work in progress, 2 approved and to be started

3 underpasses completed

8 lane project at Okalipuram junction



Sl No.	Department	Budget Year	Budget Allocation
1	Projects	2022-23	636 Cr (Amruth Nagarothana)
2	Road Infra	2022-23	762 Cr. (Amruth Nagarothana) 60 Cr (BBMP. ESCCROW) 20 Cr (Underpass/Flyover Maintenance)

BBMP – Line Department Overview

Lakes &
Horticulture

Strom
Water Drain

Total length of SWD (Primary & Secondary) 842 kms

201 lakes: 85 developed, 77 under development



Sl No.	Department	Budget Year	Budget Allocation
1	Lakes	2022-23	229.25 CM grants 25 BBMP budgetary allocation for maintenance; security & protection incl. STP
2	Horticulture	2022-23	Parks 85 Cr 15 FC 19.53 Cr Development work 14 Cr BBMP grants
3	Strom Water Drains	2022-2023	1500 Cr (Amruth Nagarothana)

BBMP – Line Department Overview

Solid Waste Management

29 Lakh Households + 5 Lakh commercial establishments

4200 MT domestic waste generation per day, includes 3190 >100 kgs bulk waste generators

Waste processing includes - centralized processing plants 8 (7 BBMP + 1 Private) & 164 decentralized processing plants

1 scientific landfill – Mitiganahalli

Resources: 18500 Pourakarmikas, ~4500 auto-tippers, ~1500 pushcarts, ~600 Compacters

6 waste to energy units proposed

26 Mechanized Sweeping Machines procured

3 C&D waste plants



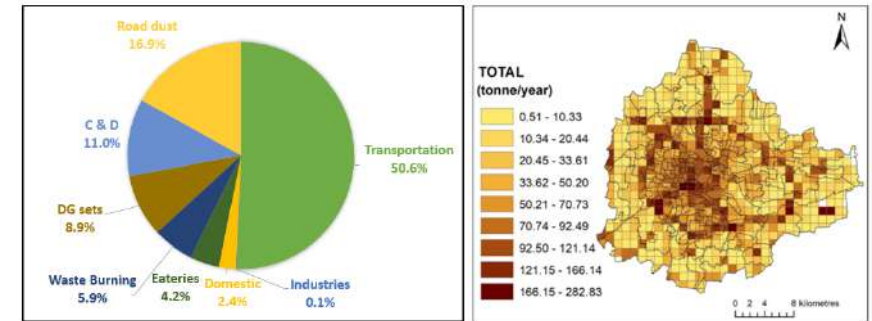
Sl No.	Department	Budget Year	Budget Allocation
1	SWM	2022-23	400 Cr



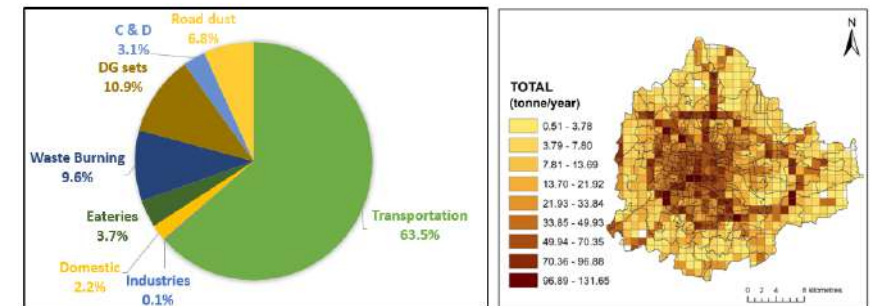
Air Pollution
Current Scenario in
Bengaluru

Bengaluru Air Pollution Scenario

- Bengaluru is a service-oriented city unlike other industrialized cities in India.
- Recently EI and SA study (KSPCB & CSTEP) was done for the city for four pollutants.
- PM2.5, PM10, NOx and SO2.
- For the city, SO2 is not an issue, however, NOx is a bit high in 1-2 pockets (Ref: air monitoring results by KSPCB).
- PM2.5 and PM10 are the concern as per EI and SA study
- The. Main contributor is **vehicle emission**.
- Bangalore's air pollution is also caused by **dust**.
- There are many dust particles as a result of ongoing **construction activity**. Sand and dust are produced in large quantities during road expansion, and wood dust, cement, and sand are produced during building construction.



Sectoral PM 2.5 emission load and its spatial distribution in BBMP area in %



Sectoral PM10 emission load and its spatial distribution in BBMP area in %

Bengaluru Air Pollution Scenario

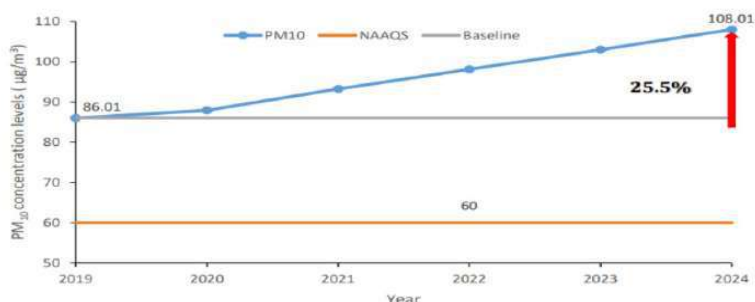


Figure: Projected annual PM10 concentration from 2019 to 2024: BAU
Source: [EI study for Bengaluru by CSTEP_1.pdf](#)

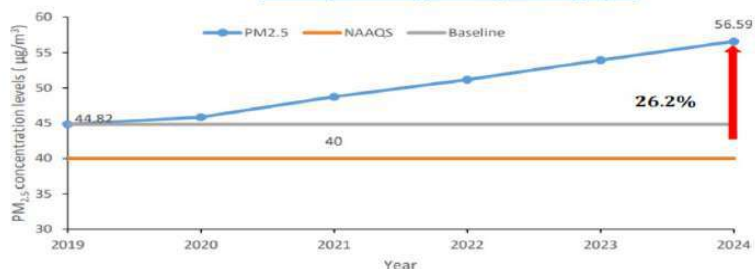


Figure: Projected annual PM2.5 concentration from 2019 to 2024
Source: [EI study for Bengaluru by CSTEP_1.pdf](#)

Pollution Projection :2024

The PM10 concentration is projected to reach 108.01 µg/m³ in 2024, which is a 25.5% increase with respect to the base year (2019) level (86.01 µg/m³).

The PM2.5 concentration level will increase by 26.26% (56.59 µg/m³) in 2024 in comparison with the 2019 level (44.82 µg/m³).

It was also observed that both the **PM2.5 and PM10 levels were higher than the NAAQS limits (PM2.5: 40 µg/m³; PM10: 60 µg/m³)**.

NAC	Air Quality Status (PM10)		
	2019-20	2020-21	2021-22
Bengaluru	73	59	66

* NAAQS: National Ambient Air Quality Standard

Actions Taken by Line Departments



BBMP – Initiatives to Control Air Pollution

- Development of lakes
- Cycle tracks and pedestrian path
- Prohibition on open burning of municipal solid waste
- Ensuring proper disposal of waste
- Processing of legacy waste
- Development of green belt
- Mechanical sweeping machines
- Better road management for smooth flow of traffic





Bengaluru Smart City – Initiatives to Control Air Pollution

Integrated command control centre

Grievance redressal system

Smart traffic management system

Protection and redevelopment of parks

Balanced division of R-O-W

Promoting non-motorized transport



Sl No.	Department	Budget Year	Budget Allocation
1	Smart City	2022-23	292.00 Cr Gol 414 Cr GoK

*Right of way

BMTC



- BMTC has issued LOA for **90 Electric buses for metro feeder service** under “Bengaluru Smart City Scheme”.
- M/s NTPC Vypar Vidyut Nigam has supplied **90 buses**; all buses are in operation with **3 charges** in each identified depots. The identified depots are 8,29 and 37.
- During **2021-22**, **317 BS-III buses** which are emitting more pollutants were scrapped and replaced by **BS-VI buses**
- **BMTC has installed modernized smoke emission testing machine** in all 46 depots
- **BMTC conducts surprise smoke checks**
- **BMTC has a vision to replace all the diesel buses to electric buses by 2030.**



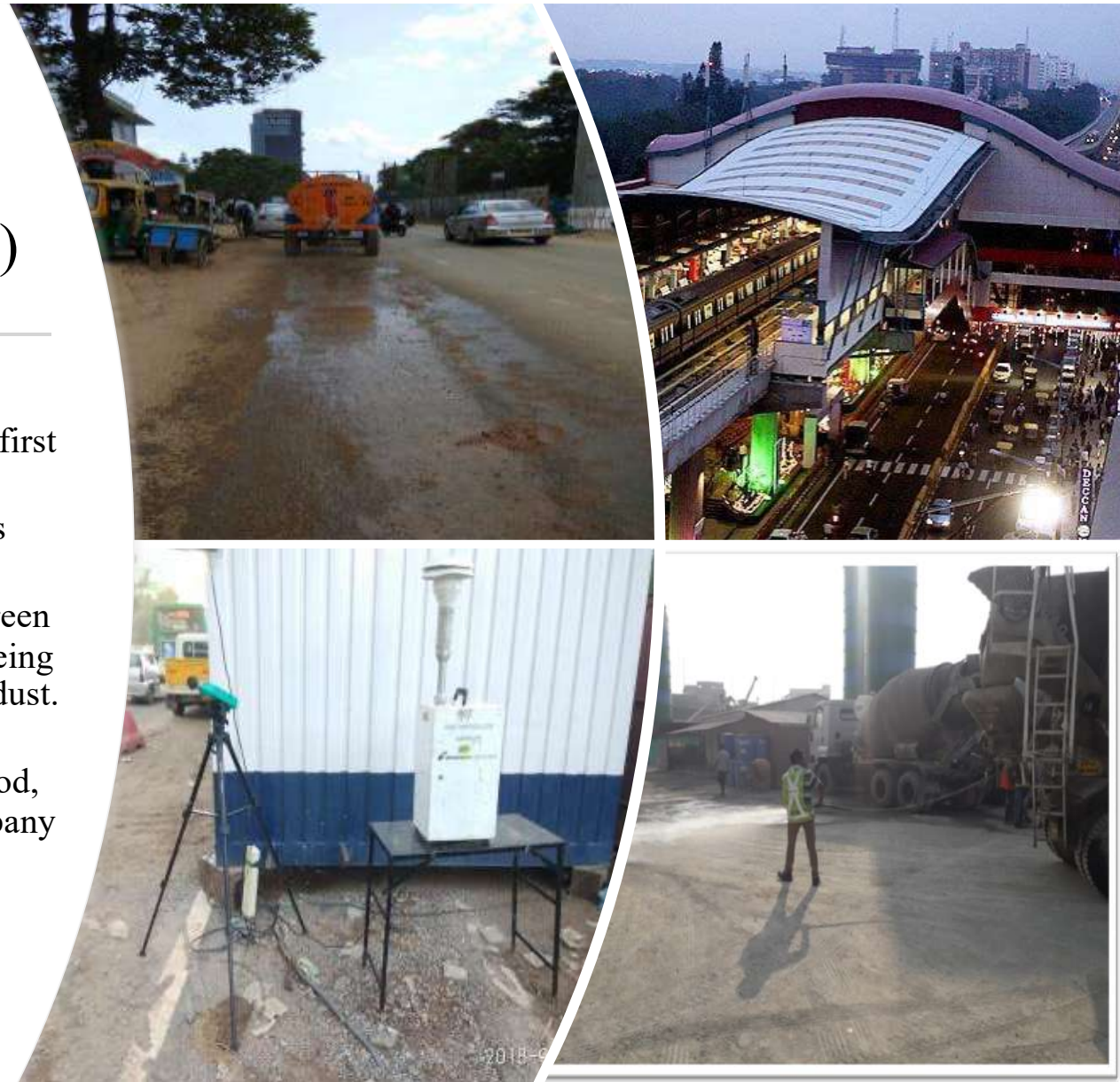
KSRTC -Environmental Initiatives

- Total 2637 nos (32.26% of fleet strength) of BS-4 vehicles have been procured for its fleet.
- 01 no of BS-6 vehicle with less smoke emission under trial
- All Depots are equipped with modernized smoke emission testing facilities
- Every Bus in its fleet undergoes a standard emission to check every month to ensure that the emission levels are maintained below permissible smoke levels.
- Surprise Checking Squad is formulated to check the vehicles for smoke levels
- Use of Ultra Low Sulphur BS-IV HSD
- Introduction of 50 Electric buses
- Introduced Green mobile Squad-for a Clean Environment (surprise emission checking) and planned to enhance and implement one for every 4 divisions.
- Online smoke meters installed at Pollution Under Control Center/Depots.
- Planned to implement the Software to access online checking conducted at Depots.



Bengaluru Metro Rail Corporation Limited (BMRCL)

- Initiatives to reduce air pollution
 - 5.5 lakh commuters daily + providing the first and last mile connectivity
 - MoU with BMTC for operating feeder bus services
 - sprinkling of water and development of green cover. All the working site locations are being barricaded to prevent transmission of the dust.
 - space at 3 Metro stations (Mysore Road, Banashankari and Indiranagar) to SainikPod, which is the electric shared mobility company
 - MoU has been signed for setting up EV charging/swapping infrastructure for 2 wheelers, 3 wheelers and 4 wheelers at 23 locations (16 stations)



GOVERNMENT OF KARNATAKA (TRANSPORT DEPARTMENT)

Initiatives taken by transport department to reduce air pollution

- Every year, Transport Department observes November month as Air Pollution awareness month
- Compulsory registration of Bharat Stage-VI is a major step in reforming the air quality has been implemented by State Government wef 01-04-2020.
- The State of Karnataka is encouraging the registration of electric vehicles.
- At present in Bengaluru 90,374 Electric vehicles have been registered and kept for use and the details is as follows, significant uptake is noticed in the last 5 years in EV adaptation from 1922 vehicles in 2017-18 to 20,326 in 4 months in 2022-23

SL NO	YEAR	TWO WHEELER	THREE WHEELER	FOUR WHEELER	TOTAL	%
1	2017-18	97	1,589	236	1,922	
2	2018-19	2,271	2,753	518	5,542	65%
3	2019-20	6,276	49	449	6,774	18%
4	2020-21	10,388	403	802	11,593	41%
5	2021-22	39,382	2,887	1,948	44,217	73%
6	2022-23 (as on 30-06-22)	18,560	900	866	20,326	
	Total	76,974	8,581	4,819	90,374	

Initiative by Transport Department for NCAP – Air Quality

- Air Pollution control awareness programs like organizing street plays, Geetha gayana and Short movies were conducted at public places / School's & Colleges in Bengaluru
- For monitoring the air quality in the Bengaluru city in association with KSPCB installation of CAAQMS station at RTO, Bengaluru (East) is under progress.
- **Regulatory and enforcement work done towards reducing air pollution like the emission test centres**





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Bruhat Bengaluru Mahanagara Palike

Thank You!

National Clean Air Programme (NCAP)



SRINAGAR MUNICIPAL CORPORATION

Monitoring of Air quality in the Srinagar city

- **Air Quality Monitoring System (AQMS) has been installed at Rajbagh Srinagar that gives real time air quality data of key parameters like PM10, PM 2.5, NOX, SOX, Ozone which determine the air quality of that area.**
- **Additional Air Quality Monitoring System (AQMS) are being installed in the Northern ,Western & Eastern parts of the city which will create a network which will give real time Air Quality data throughout the year.**
- **All these Air Quality Monitoring Systems (AQMS) are integrated with Variable Messaging Displays (VMD).**
- **Integrated Command & Control Centre (ICCC) developed by Srinagar Smart City also monitors & disseminates the real time air quality data.**

Monitoring of Air quality in the Srinagar city

Rajbagh, Srinagar AQI: Rajbagh, Srinagar Real-time Air Quality

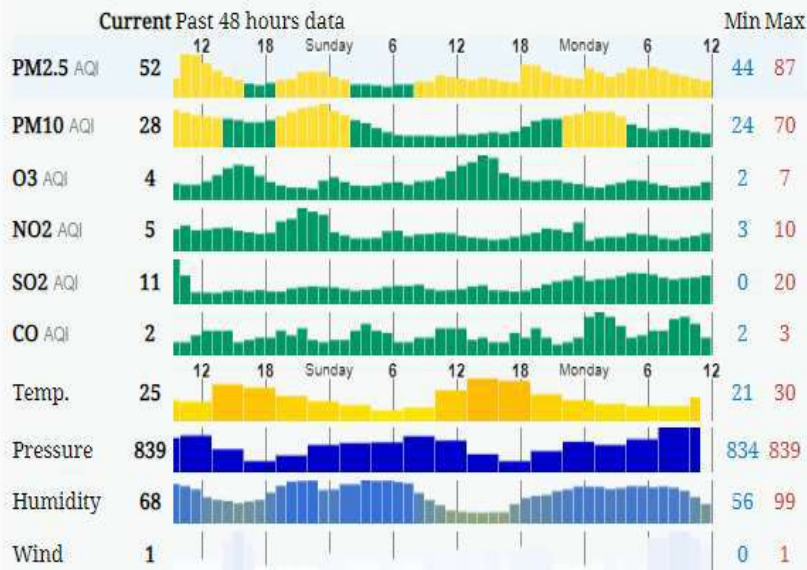


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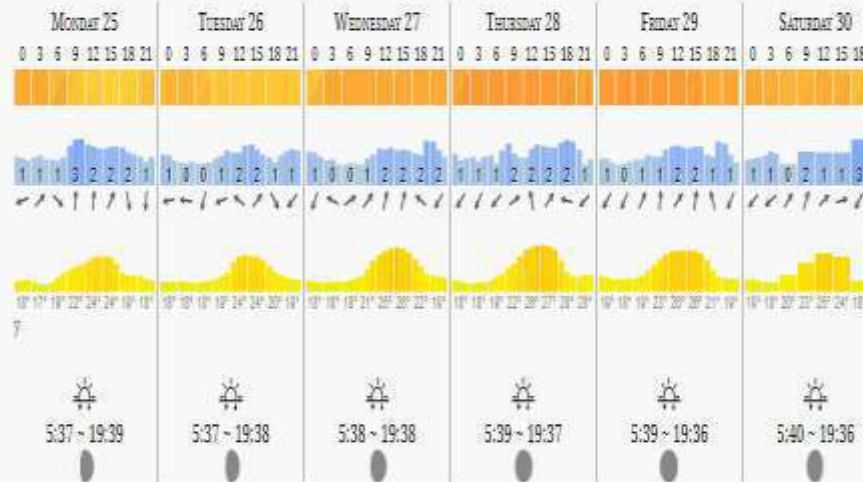
Moderate

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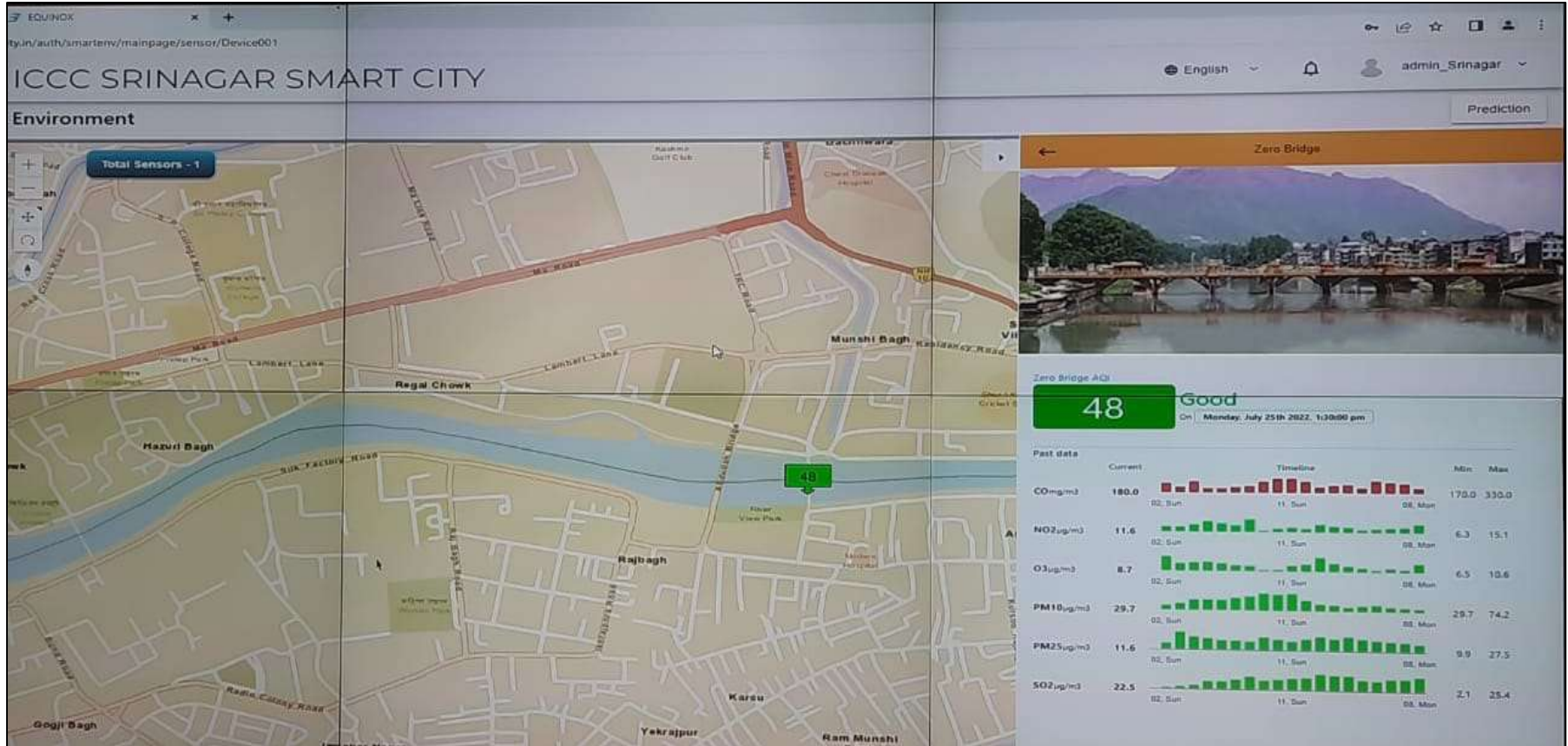
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AIR QUALITY FORECAST



Monitoring of Air quality at ICCC



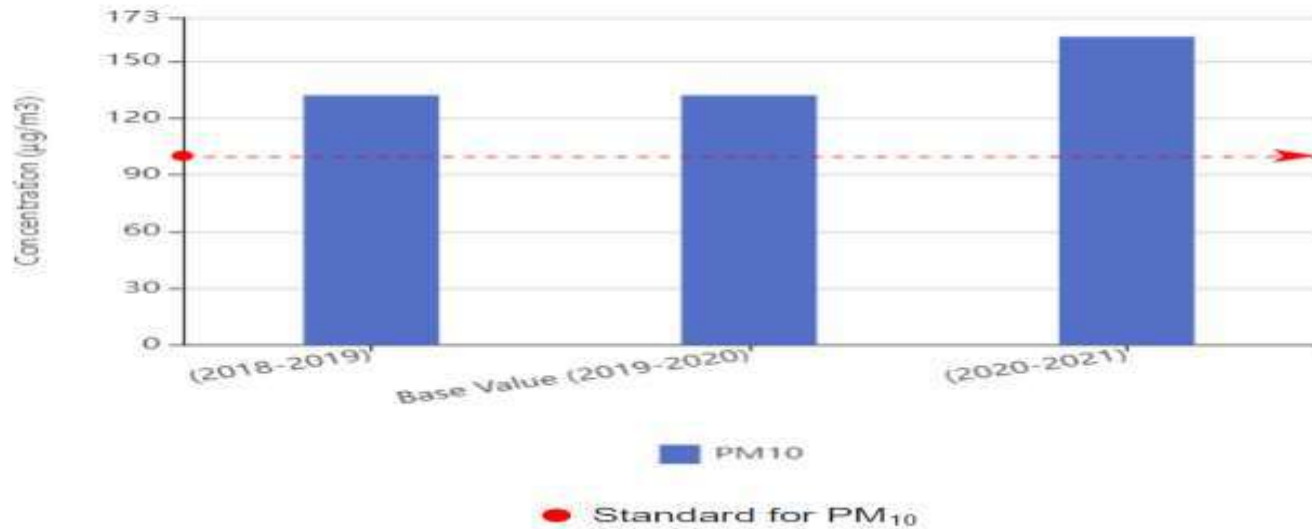
Monitoring of Air quality Through Variable Messaging Displays (VMDs)



Status of Air Quality in Srinagar City

Annual data of PM₁₀ since 2018

Result



Achievement

City (More Than 10 Lakh Population)	Annual Average PM ₁₀ Concentration (µg/m ³) 2019-2020	Target and Actual reduction of PM ₁₀ Concentration (µg/m ³) FY 2021-2022			Performance Factor (P)
		Unit Reduction		Value Achieved	
		Actual	Target	Actual	
Srinagar	122	22	8	100	275

MEASURES

- **Procurement of Mechanical Road Sweepers (4Nos)**
- **Procurement of Jet Washer Water spraying of roads (3Nos)**
- **Constructed 9 Nos of Water fountains at major intersections/circles in the City.**
- **Decongestion of Traffic hotspot.**
- **Shifting of Congested Market Areas To Identified Vending Zones of The City.**
- **Prepared feasibility report for traffic signal management.**

Water fountains at major intersections/circles in the City.



De-silting Vehicles



Sewer Jetting Vehicles



Litter Picking Machines



Litter Picking Machines



Litter Picking Machines



Plantation Drives



Beautification of Hotspots



DOOR-TO-DOOR GARBAGE COLLECTION VEHICLES



Jet Washer Cum Water Sprinklers



Jet Washer Cum Water Sprinklers



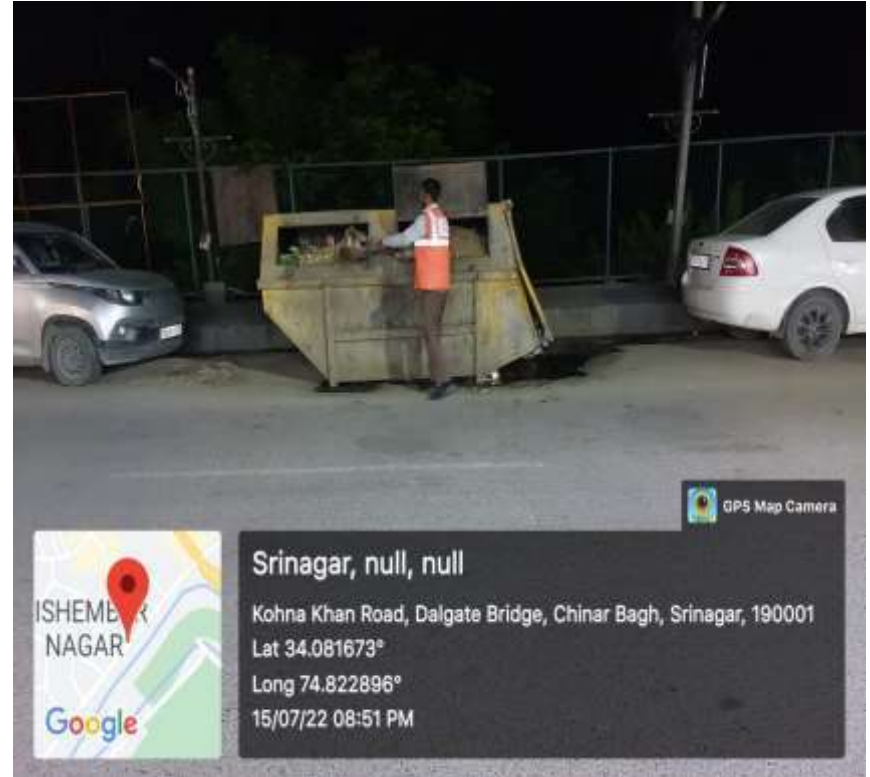
Road SWEEPING

- **All main markets, lanes, by-lanes and streets**
- **2060 Running Kilo-meters in the city.**
- **90 % length covered twice a day.**
- **Evening and night sweeping in main markets and roads.**
- **Jet Washing and sprinklers are used for dust management**
- **750 Kms are planned to be covered by mechanical sweeping.**

Road SWEEPING



NIGHT SWEEPING



ACCHAN LANDFILL SITE

Plantation at Acchan Site

- SMC is Planning to develop a full-fledged buffer zone across the current land fill site.
- The SMC will develop plantations and grassing in these buffer zone.



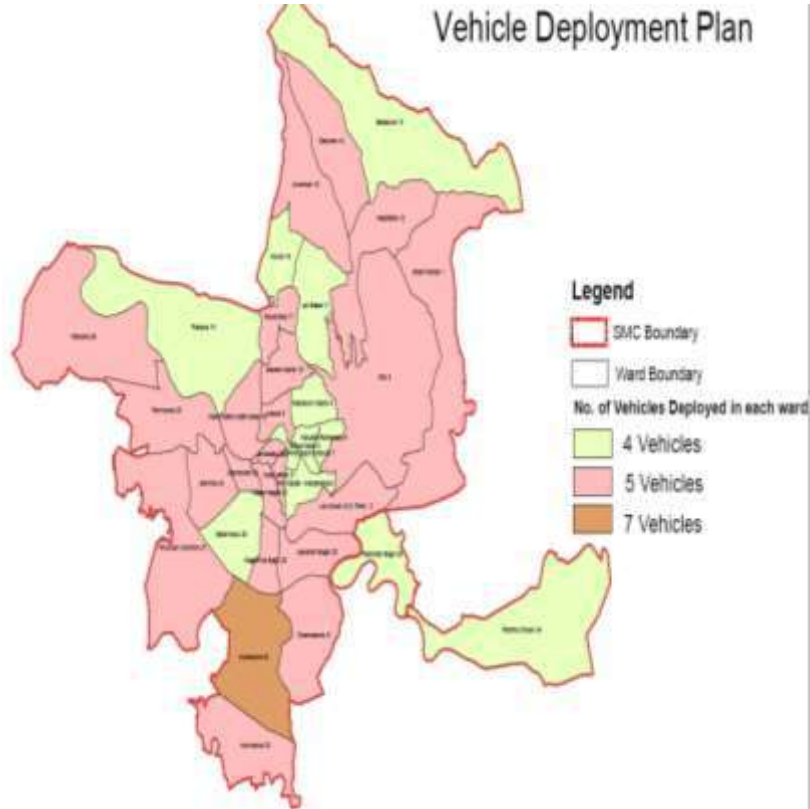
Composting and Leachate Treatment



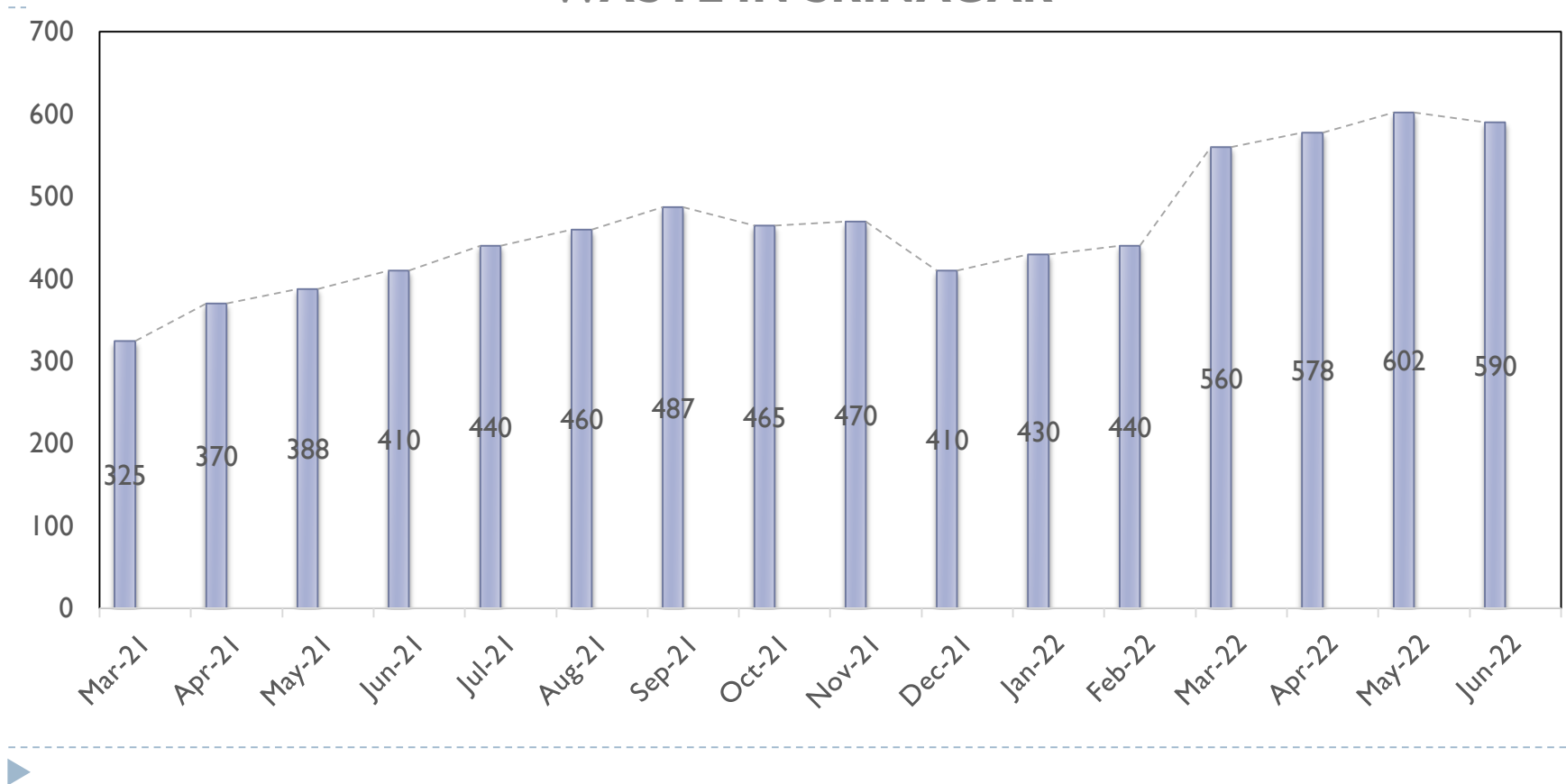
MECHANICAL SEGREGATION & RESOURCE RECOVERY



Vehicle Deployment Plan



AVERAGE DAILY COLLECTION & LIFTING OF SOLID WASTE IN SRINAGAR



Door to Door Waste Collection by SMC



Door to Door Waste Collection by SMC



Segregated Waste Collection by SMC



SUNDAYS FOR SRINAGAR

Cities become better when people come together

- **157 drives conducted from 28/03/2021 to 03/07/2022**
- Sundays for Srinagar is an initiative to bring behavior change and community involvement in sanitation, environmental protection, and sustainability.
- The aim and objective of this campaign is to bring officials, public representatives, volunteers, and local citizens together to clean up the filthiest spots, beautify the city and support sanitation workers.



SUNDAYS FOR SRINAGAR



VOLUNTEERS TAKING PART IN SUNDAYS FOR SRINAGAR (PLANTATION DRIVE)



CLEANLINESS DRIVE AT SHALIMAR



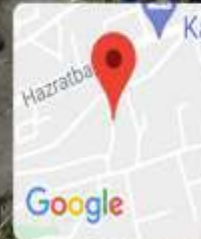
VOLUNTEERS TAKING PART IN SUNDAYS FOR SRINAGAR



Sundays For Srinagar



Sundays For Srinagar



Srinagar

Kathi Darwaza - Saida Kadal Rd, Karapura, Rainawari, Srinagar, 190003

Lat N 34° 6' 10.5156"

Long E 74° 49' 32.1492"

15/08/21 09:57 AM

Sundays For Srinagar



Sundays For Srinagar



The 6R Campaign

An initiative By Srinagar Municipal Corporation to eliminate polythene

#PolytheneFreeSrinagar #the6Rcampaign

#the**6R**
campaign

Let's join our hands to make
Srinagar City **Polythene Free**



REDUCE



REUSE



RECYCLE



REMOVE



REFUSE



REPORT



SRINAGAR
MUNICIPAL CORPORATION

SRINAGAR MUNICIPAL CORPORATION

The 6R Campaign

An initiative By Srinagar Municipal Corporation to eliminate Polythene

- In order to eradicate the menace of plastic pollution from the Srinagar City, the SMC came up with an Anti-Polythene Campaign popularly known as (#The 6R Campaign) which was flagged off on 24th July, 2021 at Sheri Kashmir Park Srinagar
- As a part of 6R Campaign, Srinagar Municipal Corporation takes following initiatives in order to reach its citizens and to make them aware.
 - ✓ **Run for Polythene Free Srinagar**
 - ✓ **Awareness cum control programs through Anti-Polythene Check Posts**
 - ✓ **Daily Awareness through Print & Electronic Media/Hoardings**
 - ✓ **Awareness through Market Associations**
 - ✓ **Daily Awareness through Jingles/ PA System**
 - ✓ **Awareness through Sundays for Srinagar**
 - ✓ **Engagement with religious leaders and influencers.**
 - ✓ **Anti-polythene posts in the city**

The 6R Campaign

An initiative By Srinagar Municipal Corporation to eliminate polythene

- During this Anti Polythene (The 6R) campaign, The SMC Anti Polythene squad seized **6443 kgs** of Polythene in **428** anti-polythene drives and imposed a fine of **Rs, 9,99,700** as on 30th June 2022 in different locations of Srinagar City.
- Plastic recovery at MRF till June 2022 is **656 MT**.

Kick Start of Anti Polythene (#6R) Campaign)



Run for Polythene free Srinagar



Polythene Check Post



Awareness Flags



Run for Polythene Free Srinagar #6R Campaign



Anti Polythene (#6R Campaign) Hoardings



Awareness in Social Media



Srinagar Municipal Corporation @S... · 5d

Let's join hands to make our Srinagar City Polythene Free!

#6RCampaign

Reduce

Recycle

Reuse

Remove

Refuse

Report

#SrinagarFightsPolythene

#PolytheneFreeSrinagar



Srinagar Municipal Corporation @S... · 4d

#SrinagarFightsPolythene

#SrinagarBansPolythene

#6RCampaign

Prohibited Polythene is being seized across the city in the anti-polythene drives.



Field Assessment Survey and Ranking



Field Assessment Matrix
Project Management Unit (PMU)

Date: 08/07/2022

DETAILED ANALYSIS

Ward No.	Ward Name	Parameters			Total Marks (300)
		Sweeping (100)	Garbage Lifting (100)	Elimination of Garbage Vulnerable Points (GVPs) (100)	Marks Obtained
1	Nishat	91	87.5	89.5	268
2	Lal chowk	93	92.5	91.5	277
3	Dal	90.5	87.5	88.5	263.5
4	Kralyar	91.5	91	90	272.5
5	Nai sarak	91	89	88.5	268.5
6	Zainakadal	92	92	91.5	275.5
7	Khanyar	93.5	91.5	92.5	277.5
8	Mukhdoom Sahib	91	76	89.5	266.5
9	Hawal	91	91	91.5	273.5
10	Madin Sahib	91	90	90	271
11	Lalbazar	90.5	90	90	270.5
12	Hazrat Bal	92	92.5	91.5	276
13	Batapora	90	88	88.5	266.5
14	Zakoora	91	88.5	89.5	269
15	Ahmad Nagar	91.5	90	90.5	272
16	Soura	89.5	88.5	89	267
17	Nowshara	91.5	92.5	91	278
18	Safakadal	91.5	91	87	269.5
19	Palpora	90.5	87.5	87.5	265.5
20	Jamalatia	90	87	87.5	264.5
21	Islamiyabal	90	89.5	88	267.5
22	Karan Nagar	90	87	89	266
23	Qamarwari	90.5	86.5	88.5	262.5
24	Bemina	90	87	86	262
25	Parimpura, HMT	91.5	91.5	91	274
26	Lawaypora	91	90	89	270
27	Khumani Chowk	90.5	86.5	88	265
28	Batamalo	90	84.5	84	248.5
29	Magarmal Bagh	90	89	84	263
30	Jawahar Nagar	92	90	91	273
31	Chanapora	90.5	91	90	271.5
32	Hyderpora	94	93	92.5	279.5
33	Humhama	92.5	90.5	91.5	274.5
34	Pantha chowk	91	88	86	264
35	Bhaghi Mehtab	89.5	87.5	89	266

Parameter Range

Good = 90

Satisfactory = 80-90

Fair = 75-80

Poor = 75



Field Assessment Matrix
Project Management Unit (PMU)

Date: 08/07/2022

WARD WISE CLEANLINESS RANKING

Ward No.	Ward Name	Marks Obtained out of 300	Rank
32	Hyderpora	279.5	1
7	Khanyar	277.5	2
2	Lal chowk	277	3
12	Hazrat Bal	276	4
6	Zainakadal	275.5	5
17	Nowshara	275	6
33	Humhama	274.5	7
26	Parimpura, HMT	274	8
9	Hawal	273.5	9
30	Jawahar Nagar	273	10
4	Kralyar	272.5	11
15	Ahmad Nagar	272	12
31	Chanapora	271.5	13
10	Madin Sahib	271	14
11	Lalbazar	270.5	15
26	Lawaypora	270	16
18	Safakadal	269.5	17
14	Zakoora	269	18
8	Nai sarak	268.5	19
1	Nishat	268	20
21	Islamiyabal	267.5	21
16	Soura	267	22
13	Batapora	266.5	23
22	Karan Nagar	266	24
19	Palpora	265.5	25
27	Khumani Chowk	265	26
20	Jamalatia	264.5	27
34	Pantha chowk	264	28
3	Dal	263.5	29
29	Magarmal Bagh	263	30
33	Qamarwari	262.5	31
24	Bemina	262	32
8	Mukhdoom Sahib	261.5	33
35	Bhaghi Mehtab	261	34
39	Batamalo	248.5	35

Good

Satisfactory

Fair

Poor

Field Assessment Survey and Ranking



Field Assessment Matrix
Project Management Unit (PMU)

Date: 08/07/2022

REFERENCE IMAGES



Ward Name & No.: Lal chowk, 2



Ward Name & No.: Khanyar, 7



Ward Name & No.: Zainakadal, 6



Ward Name & No.: Humbani, 33



Ward Name & No.: Hyderpora, 32



Ward Name & No.: Hazrat Bal, 12



Ward Name & No.: Nowshara, 17



Ward Name & No.: ParimporaHMT, 25



Field Assessment Matrix
Project Management Unit (PMU)

Date: 08/07/2022



Ward Name & No.: Khumani Chowk, 27



Ward Name & No.: Magarmal Bagh, 29



Ward Name & No.: Bemina, 24



Ward Name & No.: Bhaghi Mehtab, 35



Ward Name & No.: Dal, 3



Ward Name & No.: Qamarwari, 23



Ward Name & No.: Mukhdoom Sahib, 8



Ward Name & No.: Batamalo, 28

Cleaning of Water Bodies



Cleaning of Water Bodies



Khushalsar, Gilsar Lake Restoration



Khushalsar, Gilsar Lake Restoration



Lifting of Garbage from Khushalsar, Gilsar Lake



Lifting of Garbage from Khushalsar, Gilsar Lake



NCAP fund utilization

FY 2020-21			FY 2021-22		
Total Funds Released	Funds Utilized	Activities Undertaken for Utilization of Funds	Total Funds Released	Funds Utilized	Activities Undertaken for Utilization of Funds
0	0	-	5.00 Cr	3.53 Cr	Rs 2.44 Cr for procurement of 4 No's of MRS. Rs 0.93 Cr for Procurement of 3No's of Jet washers for washing of Roads Total Expenditure : Rs 3.20 Cr

Fund Utilization Summary

Sr. No	Particulars	Nos	Cost/Unit(Rs.)	Cost in Rs.	Remarks
1	Mechanical Road Sweepers	4	61,00,000	2,44,00,000	Procured
2	Jet Washer Water spraying of roads	3	31,00,000	93,00,000	Procured
3	Water fountains at major intersections/circles	9	7,00,000	63,00,000	Completed
4	Installation of Air Quality Monitoring System for North City	1	1,00,00,000	1,00,00,000	Tender Floated 3 rd Time
		Total		5,00,00,000	

Way forward

Creating green zones with mass plantation

Roadside Plantation in medians or adjacent to roads

Plantation of Vertical Planters at Piers of bridges/flyovers

Paving of Earthen Shoulders along the urban roads

Supply and Installation of 4 smog towers in Srinagar city with Operation & Maintenance for 1 year

Supply and Installation CAAQMS in East and West Zone of Srinagar along with Operation & Maintenance for 5 years

Providing Gobar Go Cast Machine to Women Self Help Groups (SHGs)

Providing Briquetting Assembly for management of horticulture waste

Provision of Electrical Crematoriums

IEC Activities to promote awareness regarding air pollution control

Development of Integrated Tree Census & Green Asset Management

Source Apportionment Study of Srinagar City to assess and quantify contribution of sectors/regions towards air pollution within the city and preparation of roadmap for mitigation measures

Cost difference of CAAQMS already tendered under NCAP initial funding of Rs. 5 Cr., where provision for Rs. 1.00 Cr. was kept for installation of AQMS in North city of Srinagar

THANK YOU

Annexure V

5th Meeting of the Steering Committee under National Clean Air Programme (NCAP)

*Ministry of Housing & Urban Affairs
Clean Air, Clean Water, Clean Land*

132 cities being targeted for improving air quality under NCAP

Coverage of NCAP cities within schemes of the MoHUA

**Swachh Bharat Mission (Urban)- 132
NCAP Cities +22 cities >5 population**



**Smart Cities Mission – 50/132 NCAP
Cities**



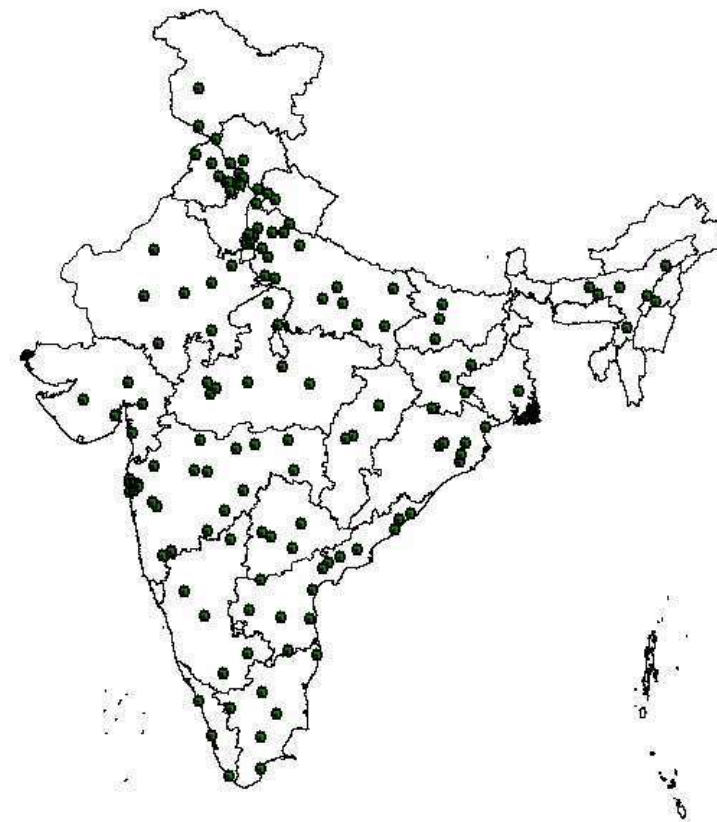
**AMRUT 1.0 -107/132 Cities
AMRUT 2.0- 132/132 Cities**



Urban Transport-20 cities so far



132 NCAP cities mapped



Swachh Bharat Mission (Urban) 2.0



Setting up of **solid waste management** processing facilities



C&D waste management in 132 NCAP cities & 20 cities >5 lakh population



Procurement of **mechanical road sweepers** in 132 NCAP cities & 20 cities >5 lakh population



Remediation of all **legacy waste dumpsites** in all cities

Smart Cities Mission



Urban mobility-Smart parking, intelligent traffic management and integrated multi-modal transport



Waste Management & Water Management

AMRUT



Green Spaces & Parks and Non-Motorised urban Transport (NMT)

AMRUT 2.0



Rejuvenation of water bodies and creation of **green spaces**

Urban Transport Division



Supplements the efforts of States in formulating proposals for **Mass Rapid Transit Systems (MRTS)**.

Policy Initiatives



National Urban Transport Policy in 2006



Metro Rail Policy in 2017 to increase share of eco-friendly MRTS

Standards Published



Standards for Light Urban Rail Transit System "**Metrolite**" has been issued in July 2019 suitable for tier 1 cities.



Standard specifications for Rubber Tyre Electric Coaches Powered by Overhead Traction System "**MetroNeo**" have been issued in November, 2020 suitable for tier 2 cities

Metrolite and **MetroNeo** would address the requirement of **environment friendly public transport** for Tier-2 cities and peripheral areas of Tier-1 cities at much **lesser cost**.

Solid Waste processing facilities



Action plans of **11** cities approved for setting up of **100% waste processing facilities**

C&D waste processing facilities



Action plans of **19** cities approved to setup **1300 TPD capacity** C&D waste processing facilities

Procurement of road sweepers



Action plans of **32** cities approved to procure **200 nos.** mechanical road sweepers

Remediation of dumpsites



Action plans of **51** cities approved to remediate **757 lakh** metric tonne of legacy waste

State-wise action plans approved under SBM 2.0 for NCAP cities

S.No	State Name	No. of NCAP cities	No. of NCAP cities action plans approved			
			SW Processing	Legacy Waste	C&D waste processing	Mechanical Sweepers
1	Andhra Pradesh	13	---	11(95%)	---	13(100%)
2	Assam	5	---	---	---	---
3	Bihar	3	---	---	---	---
4	Chandigarh	1	---	1(100%)	---	---
5	Chhattisgarh	3	---	---	---	---
6	Delhi	1	---	1	---	---
7	Gujarat	4	---	1	4(100%)	4(100%)
8	Haryana	1	---	---	---	---
9	Himachal Pradesh	7	---	1	---	---
10	Jammu & Kashmir	2	---	---	---	---
11	Jharkhand	3	---	---	---	---
12	Karnataka	4	---	---	---	---
13	Madhya Pradesh	7	---	---	---	---
14	Maharashtra	19	---	14(80%)	---	---
15	Meghalaya	1	---	---	---	---
16	Nagaland	2	---	---	---	---
17	Odisha	7	7(100%)	6(100%)	7(100%)	7(100%)
18	Punjab	9	---	6(90%)	---	---
19	Rajasthan	5	---	4(95%)	---	---
20	Tamil Nadu	4	4(100%)	1	4(100%)	4(100%)
21	Telangana	4	---	2(100%)	4(100%)	4(100%)
22	Uttar Pradesh	17	---	---	---	---
23	Uttarakhand	3	---	3(100%)	---	---
24	West Bengal	7	---	---	---	---



AMRUT

Under AMRUT 1.0 -Rs.1,768 cr. have been allocated to Green Spaces & Parks, while Rs.1,436 cr. to Non-Motorised urban Transport (NMT).

724 projects worth Rs.654.81 cr. have been taken up by 106 cities for green spaces & parks

48 Projects worth Rs.435.36 crore have been taken up by 13 cities for NMT

Under AMRUT 2.0 Action plans being submitted Rejuvenation of water bodies and creation of green spaces



Urban Transport

Metro rail facility is either operational or under construction in **27 cities out of which 21 cities** are **NCAP cities**

The metro network has been expanded to **776 km in these 21** cities and another about **1,000 KM** of metro network is **under construction** in these 21 NCAP cities.



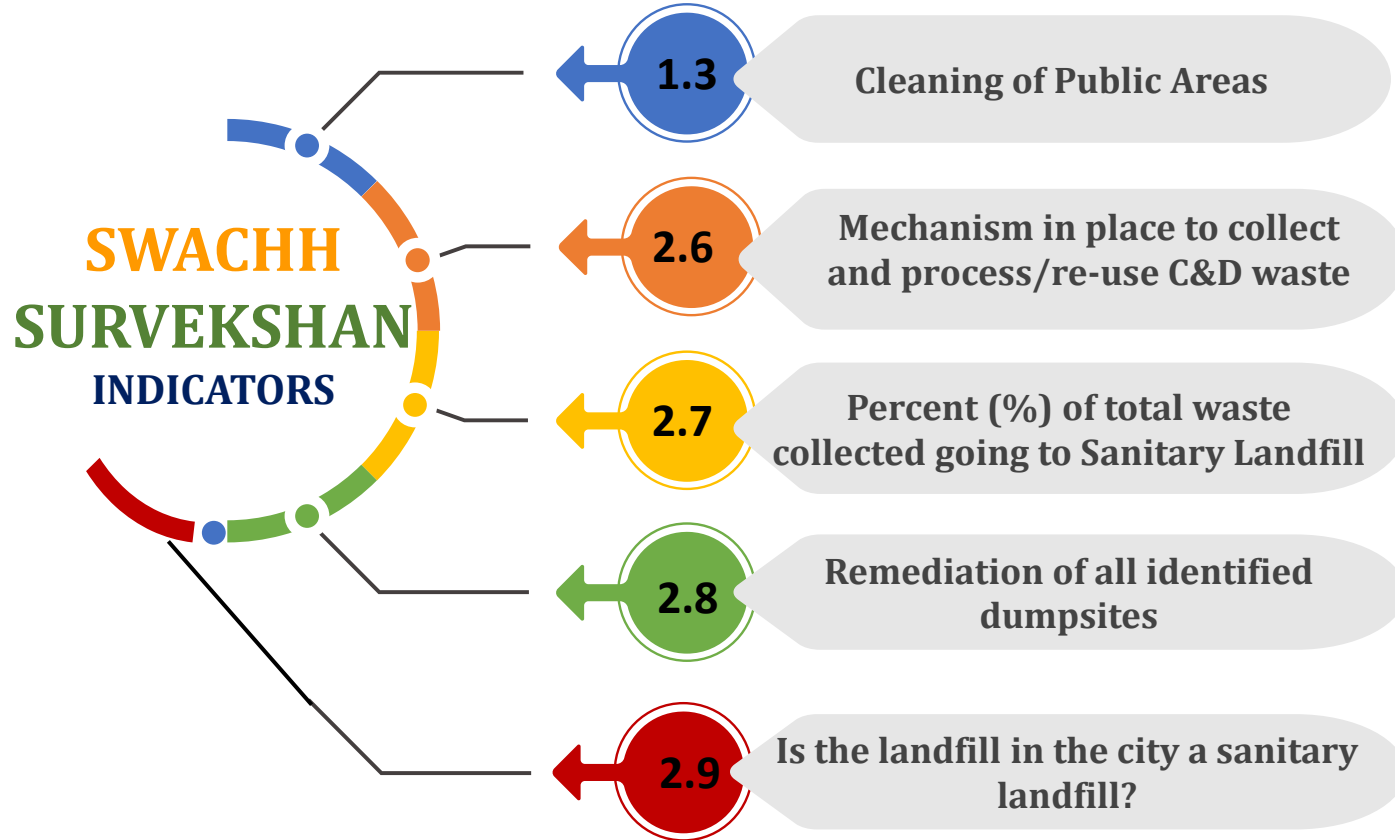
Smart Cities Mission

50 Smart Cities are listed as NCAP 132 non-attainment cities

These 50 NCAP Cities have established the **Integrate Command Control Centers (ICCC)** out of which **17 ICCC** are connected with environmental and air quality monitors.

Assessments and Certifications focused on Clean Air: Strengthening linkages with National Priorities

Swachh Survekshan Indicators



Components

- Door to Door Collection
- Source Segregation
- Sweeping + Litter Bins + Secondary Storage Bins
- C&D Waste- Collection, processing and Recycling
- Plastic Ban
- Dumpsite Remediation
- Waste Processing(Wet & Dry)
- City Beautification

Assessment of NCAP cities-Clean Air Indicators

Swachh Survekshan

Best performing NCAP cities- Top 20

Indore
Badlapur
Varanasi
Meerut
Nashik
Ulhasnagar
Navi Mumbai
Thane
Kadapa
Chandrapur
Jaipur
Jalna
Surat
Noida
Raipur
Vijayawada
Pune
Bhopal
Gwalior
Davanagere

Least performing NCAP cities Bottom 20

Kota
Jalandhar
Raebareli
Akola
Tiruchirappalli
Chennai
Baddi
Thoothukudi
DeraBassi
Rishikesh
Kohima
Silchar
Anantapur
Kashipur
Paonta Sahib
Nalagarh
Sibsagar
Nagaon
Guwahati
Nalbari

Star Rating for Garbage Free City



5 Cities

Vijayawada
Surat
Indore
Navi Mumbai
Noida



10 Cities

Chandigarh
Sagar
Nashik
Rourkela
Angul
Agra
Meerut
Allahabad
Gajraula
Dehradun



25 Cities

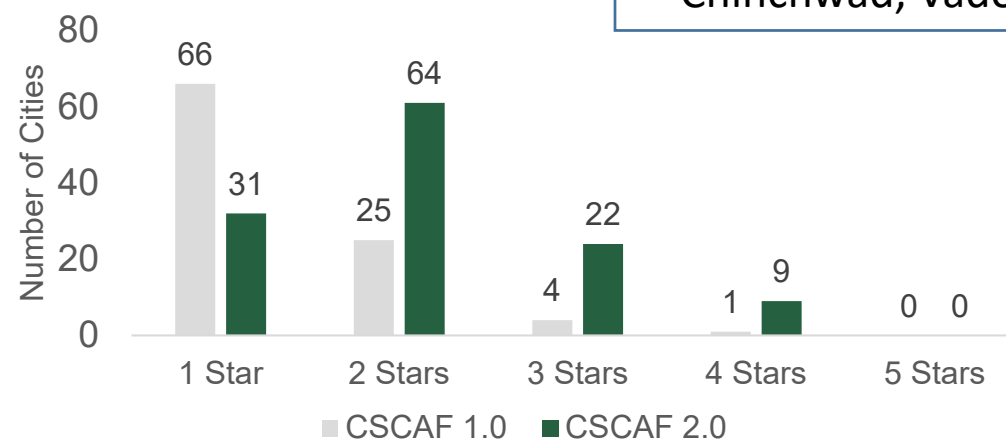
Visakhapatnam
Kadapa
Raipur
Bhilai Nagar
Korba
Ahmedabad
Vadodara
Rajkot
Jamshedpur
Hubli-Dharwad
Bhopal
Gwalior
Ujjain
Dewas
Pune
Thane
Jalgaon
Latur
Chandrapur
Badlapur
Gobindgarh
Greater Hyderabad
Lucknow
Ghaziabad
Jhansi

Climatesmart city assessment framework- assess the smart city on Mobility & Air quality, Waste Management, Water Management, Urban Planning, green cover and biodiversity, Energy & Green buildings



Top Performing Cities

Surat, Indore, Ahmedabad
Pune, Vijayawada, Rajkot,
Vishakhapatnam, Pimpri
Chinchwad, Vadodara



31

1 Star

64

2 Stars

22

3 Stars

9

4 Stars

0

5 Stars



Ministry of Housing and Urban Affairs
Government of India

75
आज़ादी का
अमृत महोत्सव



Thank you



सत्यमेव जयते

MINISTRY OF HEAVY INDUSTRIES

*5th Meeting of Steering Committee
under NCAP*

Status for Deployment of e-buses in Non-Attainment Cities under FAME India Scheme Phase-II

State	Non-Attainment Cities	Target	Buses Deployed
Bihar	Patna	25	25
Gujarat	Ahmedabad	150	150
	Surat	300	49
	Rajkot	150	24
Maharashtra	Navi Mumbai	150	150
	Pune	150	
	Nagpur	40	
	Mumbai	340	340
Chandigarh	Chandigarh	40	40
West Bengal	Kolkata	50	

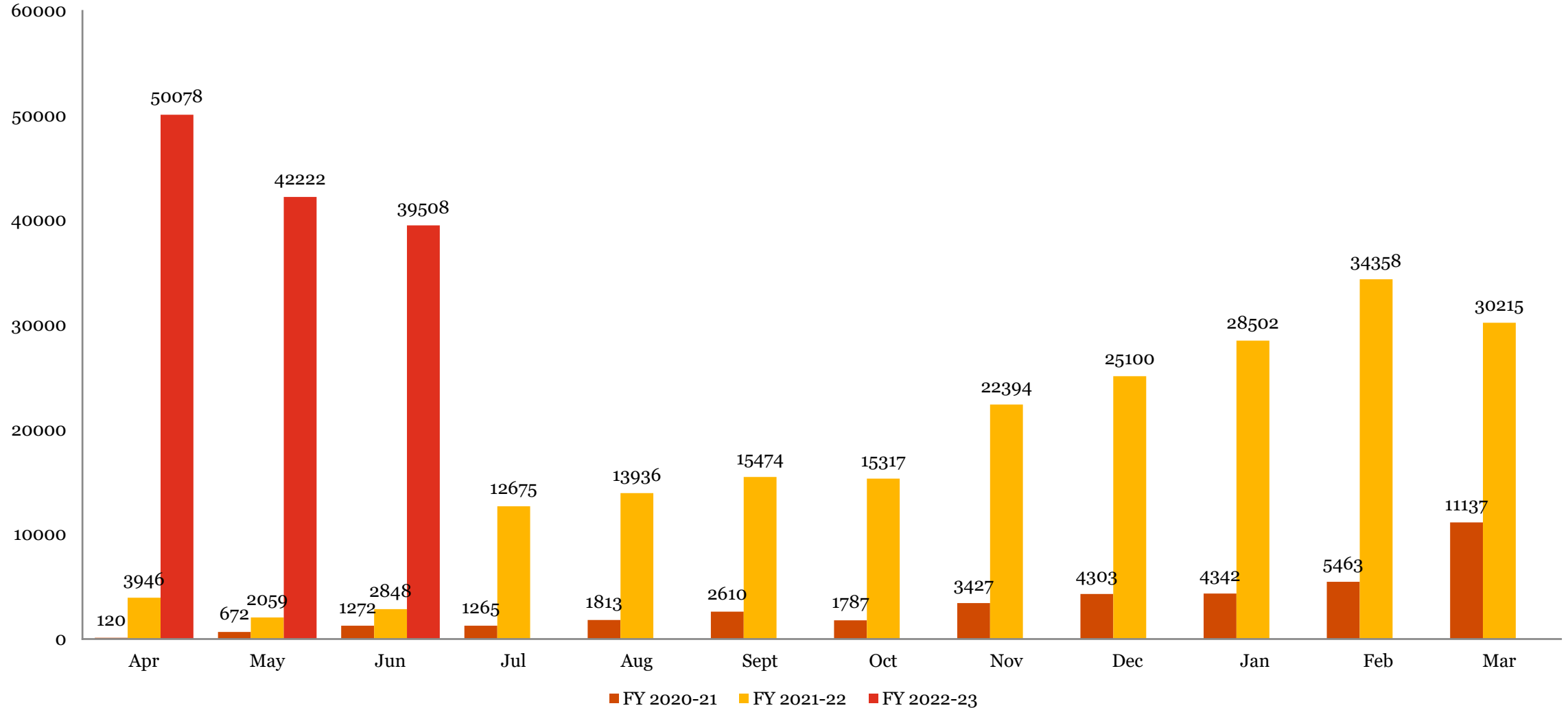
State	Non-Attainment Cities	Target	Buses Deployed
Karnataka	Bangalore	300	
Odisha	Bhubaneswar	50	
Rajasthan	Jaipur	100	
Uttarakhand	Dehradun	30	10
Delhi	DTC & DMRC	400	209
Uttar Pradesh	Lucknow	100	77
	Agra	100	60
	Kanpur	100	58
	Allahabad/Prayagraj	50	24
	Varanasi	50	11
	Ghaziabad	50	30
	Meerut	50	30
	Bareilly	25	15
	Moradabad	25	15
	Jhansi	25	15
TOTAL		2850	1332

Status for Deployment of 2-eW, 3-eW & 4-eW in Non-Attainment Cities under FAME India Scheme Phase-II

Category of Vehicle	Total No. of Vehicles Sold (In No's)	CO ₂ Reduction (In Million Kg)	Fuel Savings (In Million Ltr)	Fund Utilized as on 08 th July, 2022 (Rupees In Crs)
E-2W	207100	137.18	187.25	778.00
E-3W	24815	83.37	577.47	121.72
E-4W	1921	10.38	111.00	42.78
Total	233836	230.93	875.72	942.50



Sale of e-2W:Trend (Figures in 000's)



THANK YOU



Greening and Modernizing Public Transit

Status of national plan for the deployment of 50k e-buses

29th July, 2022

FAME-II refocused e-bus incentives to 9 cities with 4-million plus population

- In June 2021, DHI revamped FAME-II allocation for e-buses on cities with 4 million plus population
- CESL (wholly owned subsidiary of EESL) appointed to aggregate demand from 9 cities under OPEX basis
- A “Grand Challenge” for demand aggregation was managed by CESL, wherein 5 participating cities subscribed to 5450 e-buses
- A unified tender with standardized terms and conditions and different lot types (bus size and type) was carried out after a fully consultative process with the participating cities.
- Discovered prices in the Grand Challenge are **27% lower than diesel** (without subsidy) and **23% less than CNG**.
- FAME-II subsidy to be provided for 3550 e-buses, demand incentives for e-buses exhausted under the challenge

Experience from Grand Challenge:

- Demand aggregation is effective: cities are better off putting their demand in a larger bucket than tendering alone
- Price of e-bus operations lower than ICE bus operations
- Large scale bus electrification will decarbonize public transport and improve financial sustainability for State Transport Undertakings (STU)

NITI Aayog nominates CESL as program manager for a scale up program of 50,000 e-buses

- Based on the success of the “Grand Challenge”, NITI Aayog has nominated CESL for demand aggregation of 50,000 e-buses in India
- Program will be run and tendering done in sizable lots - 5k average size
- An implementation plan for phase wise procurement and deployment of 50,000 e-buses by 2030 recognizing the demand for public transport and manufacturing scale-up required has been prepared.
- High impact of 50k e-bus Program
 - Reduction in CO₂ emissions: 30M CO2 tonnes/yr
 - Reduction in air pollution: 147,000 tonnes of CO and NO
 - Additional and/or optimization of green power: 3300MW
- Scrapping demand from 25 STUs and other cities/states collected.
- Expression of Interest (EoI) for next round of procurement shared with cities/STUs



But many things have to fall into place for an effective program

- The Grand Challenge is not done yet.
- STUs have very little capacity
 - A lot of capacity building, hand-holding and support is needed at least until contracts are signed and stabilized
 - Many States don't have STCs
- Depot and electrical infrastructure could be the Achilles heel
 - costs
- Routes, locations of charging stations
- Financing needs are massive
 - Financial health of STCs is of serious concern – contracts cannot be securitized. Need risk mitigation instruments



Significant capital investment needed for readying depots (1/2)

- Average cost per depot: 5.6 Crores – assumes 100 buses per depot

Total nos. of e-BUS to be installed under GCC	50,000
Type of buses (12,500 each)	Midi AC- 9 m Midi Non AC- 9 m Standard AC 12 m Standard Non AC 12 m
Buses per depot	100
Ratio of buses per charger	1:5
Total number of depots where upstream infra needs to build	500
Charger per depot	20
Estimated no. of Chargers to meet energy demand	10000
Proposed Capacity of Charger(kW) 9 m	120 kW
Proposed Capacity of Charger(kW) 12m	240 kW
Total Charger load/ Bus Depot (kVA)	4500
Rs.Per kVA cost considered for Upstream Infra	12500
Cost of Upstream Infrastructure including civil works per depot	5.62 Cr.
Total cost required to build the upstream infrastructure for 500 buses	2810 Cr.

High capital investment for readying depots for 50k e-buses (2/2)

Total cost required to build the upstream infrastructure for 500 buses

2810 Cr.

Note: This is the exclusive cost required for building charging infrastructure in depots. Cost of chargers is not considered

There is no dedicated fund allocated for building charging infrastructure for buses under FAME-II

Major challenge with STU will be to raise funds for building upstream infrastructure

Tentative Price breakup of upstream Infrastructure	Cost in Cr.	Percentage Share
•Electricity connection (8,000 per kVA)	3.6 Cr	64%
•Security Deposit (2500 per kVA)	11.25 Cr	20%
•Civil Infrastructure (2000 per kVA)	0.9 Cr	16%

Many Ministries now involved in this National Program.

Ministry of Heavy Industries (MHI)

- Allocation – Contracting – Subsidy disbursement.
- Coordination with two schemes: FAME and PLI

Ministry of Housing and Urban Affairs (MoHUA)

- Synergy with proposed scheme of bus augmentation
- Supporting infrastructure

Ministry of Road Transport and Highways (MoRTH)

- 40,000 STU buses due to be scrapped
- Securing demand of fleet replacement by e-buses
- Capacity building of STUs

Ministry of Power (MoP)

- Charging infrastructure – costs and power connections

Ministry of Env, Forests and Climate Change

- Charging infrastructure – costs
- (maybe: pilot program under the Paris Agreement for monetization of the carbon asset)

Ministry of Finance, DPIIT

- Risk mitigation instruments – backstops – more bus production, etc

Current WIP on scale-up

- Addressing depot preparedness
- Enabling finance
 - Designing financial solutions: **Working Group**
 - **14th September** with the World Bank – Green Credits
 - **15th and 16th September 2022**, New Delhi. INSIGHT Conference
- Potential implementation plan:
 - 10k – 10k – 15k – 15k
 - Next 5-7 years



Thank you

Status of bus operations in the million plus cities (1/5)

S No	Name: UA/City	UA/City	City Size	State	Population (2011)	Authority	Authority Type	Operation Model (GCC/ NCC/ Public/ Private)	MoEFCC	MoRTH	MoHUA
1	Mumbai	City	more than 40L	Maharashtra	1,24,42,373	BEST	Municipal Undertaking	Public; GCC	Y	Y	Y
2	Delhi	City	more than 40L	Delhi	1,10,34,555	DTC & DIMTS	Multiple	Public; GCC	Y	Y	Y
3	Bengaluru	UA	more than 40L	Karnataka	84,99,399	BMTC	State Undertaking	Public; GCC	Y	Y	Y
4	Hyderabad	UA	more than 40L	Andhra Pradesh	77,49,334	TSRTC	State Undertaking	Public; GCC	Y	N	Y
5	Ahmedabad	UA	more than 40L	Gujarat	63,52,254	AMTS	Municipal Undertaking	GCC	Y	N	Y
6	Chennai	UA	more than 40L	Tamil Nadu	86,96,010	MTC	State Undertaking	Public	Y	Y	Y
7	Kolkata	UA	more than 40L	West Bengal	1,41,12,536	WBTC	State Undertaking	Public	Y	N	Y
8	Surat	UA	more than 40L	Gujarat	45,85,367	SITILINK	SPV	GCC	Y	N	Y
9	Pune	City	more than 40L	Maharashtra	50,49,968	PMPML	Municipal Undertaking	Public; GCC	Y	Y	Y
10	Jaipur	City	20 to 40 L	Rajasthan	30,73,350	JCTSL	SPV	GCC	Y	Y	Y
11	Lucknow	UA	20 to 40 L	Uttar Pradesh	29,01,474	LCTSL	SPV	Public; GCC	Y	N	Y
12	Kanpur	UA	20 to 40 L	Uttar Pradesh	29,20,067	KCTSL	SPV	Public; GCC	Y	N	Y
13	Kozhikode	UA	20 to 40 L	Kerala	20,30,519			Private	N	N	Y
14	Nagpur	UA	20 to 40 L	Maharashtra	24,97,777	NMPL	Municipal Corporation	GCC	Y	N	Y
15	Kochi	UA	20 to 40 L	Kerala	21,17,990			Private	N	N	Y
16	Indore	UA	20 to 40 L	Madhya Pradesh	21,67,447	AICTSL	SPV	GCC; NCC	Y	N	Y
17	Coimbatore	UA	20 to 40 L	Tamil Nadu	21,51,466	TNSTC	State Undertaking	Public	N	N	Y
18	Ghaziabad	UA	20 to 40 L	Uttar Pradesh	23,58,525	GMC	Municipal Corporation	GCC	Y	N	Y
19	Patna	UA	20 to 40 L	Bihar	20,46,652	BSRTC	State Undertaking	Public	Y	N	Y
20	Malappuram	UA	10 to 20 L	Kerala	16,99,060			Private	N	N	Y
21	Thrissur	UA	10 to 20 L	Kerala	18,54,783			Private	N	N	Y
22	Thane (MC)*	City	10 to 20 L	Maharashtra	18,86,941				Y	Y	Y
23	Bhopal	UA	10 to 20 L	Madhya Pradesh	18,83,381	BCLL	SPV	NCC	Y	N	Y
24	Thiruvananthapuram	UA	10 to 20 L	Kerala	16,87,406			Public	N	N	Y
25	Vadodara	UA	10 to 20 L	Gujarat	18,17,191	VMC	Municipal Corporation	NCC	Y	N	Y

Status of bus operations in the million plus cities (2/5)

S No	Name: UA/City	UA/City	City Size	State	Population (2011)	Authority	Authority Type	Operation Model (GCC/ NCC/ Public/ Private)	MoEFCC	MoRTH	MoHUA
26	Agra	UA	10 to 20 L	Uttar Pradesh	17,46,467	AMCTSL	SPV	Public	Y	N	Y
27	Visakhapatnam	City	10 to 20 L	Andhra Pradesh	17,30,320	APSRTC	State Undertaking	Public	Y	N	Y
28	Kannur	UA	10 to 20 L	Kerala	16,42,892			Private	N	N	Y
29	Nashik	UA	10 to 20 L	Maharashtra	15,62,769	NMPML	Municipal Undertaking	GCC	Y	N	Y
30	Vijayawada	UA	10 to 20 L	Andhra Pradesh	14,91,202	APSRTC	State Undertaking	Public	Y	N	Y
31	Ludhiana	City	10 to 20 L	Punjab	16,13,878	LMC	Municipal Corporation	NCC	Y	N	Y
32	Rajkot	UA	10 to 20 L	Gujarat	13,90,933	RRL	SPV	GCC	Y	N	Y
33	Madurai	UA	10 to 20 L	Tamil Nadu	14,62,420	TNSTC	State Undertaking	Public	Y	N	Y
34	Howrah*	City	10 to 20 L	West Bengal	10,77,075				Y	N	Y
35	Meerut	UA	10 to 20 L	Uttar Pradesh	14,24,908	MCTSL	SPV	Public	Y	N	Y
36	Varanasi	UA	10 to 20 L	Uttar Pradesh	14,35,113	VCTSL	SPV	Public	Y	N	Y
37	Jamshedpur	UA	10 to 20 L	Jharkhand	13,37,131	JNAC	Municipal Corporation	NCC	Y	N	Y
38	Kollam	UA	10 to 20 L	Kerala	11,10,005			Private	N	N	Y
39	Faridabad	City	10 to 20 L	Haryana	14,04,653	HR	State Undertaking	Public	Y	N	Y
40	Srinagar	UA	10 to 20 L	Jammu & Kashmir	12,73,312	JKRTC	State Undertaking	Public	Y	N	Y
41	Raipur	UA	10 to 20 L	Chhattisgarh	11,22,555	RUPTS	SPV	GCC; NCC	Y	N	Y
42	Aurangabad	UA	10 to 20 L	Maharashtra	11,93,167	ASCD SCL	SPV	NCC	Y	N	Y
43	Jabalpur	UA	10 to 20 L	Madhya Pradesh	12,67,564	JCTSL	SPV	NCC	Y	N	Y
44	Asansol	UA	10 to 20 L	West Bengal	12,43,008			Private	Y	N	Y
45	Prayagraj	UA	10 to 20 L	Uttar Pradesh	12,16,719			Public	Y	N	Y
46	Jodhpur	UA	10 to 20 L	Rajasthan	11,37,815	JBSL	SPV	NCC	Y	N	Y
47	Ranchi	UA	10 to 20 L	Jharkhand	11,26,741	RMTL	Municipal Corporation	NCC	Y	N	Y
48	Amritsar	UA	10 to 20 L	Punjab	11,83,705	AMC	Municipal Corporation	NCC	Y	N	Y
49	Dhanbad	UA	10 to 20 L	Jharkhand	11,95,298	DMC	Municipal Corporation	NCC	Y	N	Y
50	Gwalior	UA	10 to 20 L	Madhya Pradesh	11,01,981	GCTSL	SPV	GCC	Y	N	Y

Status of bus operations in the million plus cities (3/5)

S No	Name: UA/City	UA/City	City Size	State	Population (2011)	Authority	Authority Type	Operation Model (GCC/ NCC/ Public/ Private)	MoEFCC	MoRTH	MoHUA
51	Vasai-Virar	City	10 to 20 L	Maharashtra	12,21,233			NCC	Y	N	Y
52	Kota	City	10 to 20 L	Rajasthan	10,01,365	KBSL	SPV	NCC	Y	N	Y
53	Kalyan-Dombivali	City	10 to 20 L	Maharashtra	12,47,327			Public	N	N	Y
54	Durg-Bhillai Nagar	UA	10 to 20 L	Chhattisgarh	10,64,077			NCC	Y	N	Y
55	Chandigarh	UA	10 to 20 L	Chandigarh	10,26,459	CTU	State Undertaking	Public	Y	N	Y
56	Tiruchirappalli	UA	10 to 20 L	Tamil Nadu	10,21,717			Public	Y	N	Y
57	Tiruppur	UA	05 to 10 L	Tamil Nadu	9,62,982				N	N	Y
58	Mira Bhayander (MC)*	City	05 to 10 L	Maharashtra	8,14,655				N	N	Y
59	Bareilly	UA	05 to 10 L	Uttar Pradesh	9,79,933				Y	N	Y
60	Mysore	UA	05 to 10 L	Karnataka	9,83,893				N	N	Y
61	Aligarh	UA	05 to 10 L	Uttar Pradesh	9,09,559				N	N	Y
62	Guwahati	UA	05 to 10 L	Assam	9,68,549				Y	N	Y
63	Moradabad	City	05 to 10 L	Uttar Pradesh	8,89,810				Y	N	Y
64	Hubli-Dharwad	City	05 to 10 L	Karnataka	9,43,857				Y	N	Y
65	Bhubaneswar	UA	05 to 10 L	Orissa	8,81,988				Y	N	Y
66	Salem	UA	05 to 10 L	Tamil Nadu	9,19,150				N	N	Y
67	Solapur	City	05 to 10 L	Maharashtra	9,51,118				Y	N	Y
68	Jalandhar	UA	05 to 10 L	Punjab	8,73,725				Y	N	Y
69	Gurgaon	UA	05 to 10 L	Haryana	9,01,968				N	N	Y
70	Saharanpur	City	05 to 10 L	Uttar Pradesh	7,03,345				N	N	Y
71	Warangal	UA	05 to 10 L	Telangana	7,59,594				N	N	Y
72	Siliguri	UA	05 to 10 L	West Bengal	7,01,489				N	N	Y
73	Dehradun	UA	05 to 10 L	Uttarakhand	7,14,223				Y	N	Y
74	Bhiwandi	UA	05 to 10 L	Maharashtra	7,37,411				N	N	Y
75	Guntur	UA	05 to 10 L	Andhra Pradesh	6,73,952				Y	N	Y

Status of bus operations in the million plus cities (4/5)

S No	Name: UA/City	UA/City	City Size	State	Population (2011)	Authority	Authority Type	Operation Model (GCC/ NCC/ Public/ Private)	MoEFCC	MoRTH	MoHUA
76	Puducherry	UA	05 to 10 L	Puducherry	6,54,392				N	N	Y
77	Gorakhpur	UA	05 to 10 L	Uttar Pradesh	6,92,519				Y	N	Y
78	Bikaner	City	05 to 10 L	Rajasthan	6,47,804				N	N	Y
79	Firozabad	City	05 to 10 L	Uttar Pradesh	6,03,797				Y	N	Y
80	Ulhasnagar (MC)*	City	05 to 10 L	Maharashtra	5,06,098				Y	N	Y
81	Amravati	City	05 to 10 L	Maharashtra	6,46,801				N	N	Y
82	Cuttack	UA	05 to 10 L	Orissa	6,58,986				Y	N	Y
83	Jammu	UA	05 to 10 L	Jammu & Kashmir	6,51,826				Y	N	Y
84	Noida	CT	05 to 10 L	Uttar Pradesh	6,42,381				Y	N	Y
85	Belgaum	UA	05 to 10 L	Karnataka	6,10,189				N	N	Y
86	Mangalore	UA	05 to 10 L	Karnataka	6,19,664				N	N	Y
87	Nellore	UA	05 to 10 L	Andhra Pradesh	5,64,148				Y	N	Y
88	Bhavnagar	UA	05 to 10 L	Gujarat	6,06,282				N	N	Y
89	Malegaon	UA	05 to 10 L	Maharashtra	5,76,425				N	N	Y
90	Durgapur	UA	05 to 10 L	West Bengal	5,81,409				Y	N	Y
91	Jamnagar	UA	05 to 10 L	Gujarat	6,00,411				N	N	Y
92	Nanded - Waghala	City	05 to 10 L	Maharashtra	5,50,564				N	N	Y
93	Gulbarga	UA	05 to 10 L	Karnataka	5,41,617				Y	N	Y
94	Bokaro Steel City	UA	05 to 10 L	Jharkhand	5,63,417				N	N	Y
95	Jhansi	UA	05 to 10 L	Uttar Pradesh	5,49,391				Y	N	Y
96	Kolhapur	UA	05 to 10 L	Maharashtra	5,61,841				Y	N	Y
97	Raurkela	UA	05 to 10 L	Orissa	5,52,970				Y	N	Y
98	Ajmer	UA	05 to 10 L	Rajasthan	5,51,360				N	N	Y
99	Erode	UA	05 to 10 L	Tamil Nadu	5,21,776				N	N	Y
100	Ujjain	City	05 to 10 L	Madhya Pradesh	5,15,215				Y	N	Y

Status of bus operations in the million plus cities (5/5)

S No	Name: UA/City	UA/City	City Size	State	Population (2011)	Authority	Authority Type	Operation Model (GCC/ NCC/ Public/ Private)	MoEFCC	MoRTH	MoHUA
101	Sangali	UA	05 to 10 L	Maharashtra	5,13,862				N	N	Y
102	Kurnool	UA	Spl. Cities	Andhra Pradesh	4,78,124				Y	N	Y
103	Imphal	UA	Spl. Cities	Manipur	4,14,288				N	N	Y
104	Agartala	City	Spl. Cities	Tripura	3,99,688				N	N	Y
105	Shillong	UA	Spl. Cities	Meghalaya	3,54,325				N	N	Y
106	Gandhinagar*	Notified Area	Spl. Cities	Gujarat	2,92,167				N	N	Y
107	Aizawl	City	Spl. Cities	Mizoram	2,91,822				N	N	Y
108	Kohima	City	Spl. Cities	Nagaland	2,67,988				Y	N	Y
109	Daman	City	Spl. Cities	Dadara & Nagar Haveli, Daman and Diu	1,91,173				N	N	Y
110	Gangtok	City	Spl. Cities	Sikkim	2,19,450				N	N	Y
111	Shimla	UA	Spl. Cities	Himachal Pradesh	1,71,817				N	N	Y
112	Panaji	UA	Spl. Cities	Goa	1,14,405				N	N	Y
113	Leh	City	Spl. Cities	Ladakh UT	1,33,487				N	N	Y
114	Amravati	City	Spl. Cities	Andhra Pradesh	1,03,000				N	N	Y
115	Port Blair	City	Spl. Cities	Andaman & Nicobar Islands	1,00,608				N	N	Y
116	Itanagar	City	Spl. Cities	Arunachal Pradesh	59,490				N	N	Y
117	Kavaratti	City	Spl. Cities	Lakshwadweep	11,210				N	N	Y

National Clean Air Programme (2019)

Action Plan by Ministry of Road Transport & Highways

July 2022



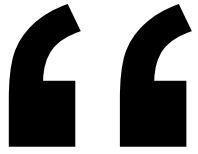
सत्यमेव जयते

सड़क परिवहन और राजमार्ग मंत्रालय
MINISTRY OF ROAD TRANSPORT & HIGHWAYS

भारत सरकार

Government of India

(आईएसओ 9001:2008 प्रमाणित मंत्रालय) (An ISO 9001:2008 Certified Ministry)



Contents

- **Action Plan by MoRTH in NCAP**
 - **Phasing out older vehicular population through the vehicle scrapping policy.**
 - **Decongestion of cities by diverting commercial traffic outside the city, in the form of constructing bypass, ring roads, lane expansion, flyovers, etc.**
 - **Use of Construction and Demolition (C&D) waste for road laying and construction of paver blocks and other construction materials.**



Action Plan by MoRTH in NCAP



MoRTH has envisioned macro-level action plans for implementation of key initiatives in the transport sector for reduction of particulate matter in affected cities.

Vision of MoRTH:

MoRTH's focus has been primarily on creating regulatory frameworks to promote initiatives related to transition to cleaner fuels, improvement in vehicles, improving public transportation and reducing traffic congestion, at a Pan-India level.

Regulatory Frameworks to reduce air pollution by MoRTH as on date

- ❑ Improving performance and efficiency of vehicles by regulating & enforcing emission standards –
 - ❑ **Implementing BS VI emission standards (April 2020)**
 - As compared to BS IV vehicles, there is a reduction in NOx emissions from diesel vehicles by up to **68%** and from gasoline vehicles by up to **25%**. Also, the emission of particulate matter is restricted to **4.5 mg/km** for both diesel and gasoline vehicles.
 - ❑ **Notified Corporate Average Fuel Efficiency (CAFE) norms (August 2017)**
 - The CO2 emission target for **Phase I (2017-2022)** is set at **130 gm/km** and for **Phase II (1st April 2022 onwards)**, it is planned to be **113 gm/km**.
- ❑ Enabling adoption of alternate fuels, blended fuels, cleaner technologies, etc. to reduce vehicular pollution
 - ❑ **Notified standards for 18% blend of Hydrogen with CNG (HCNG) (September 2020)**
 - **70%** reduction in COx emissions, **15%** reduction in total hydrocarbon,
 - **4-5%** improvement in fuel economy.



To achieve the objectives of NCAP, MoRTH has envisioned a comprehensive approach to address the sources of emissions in a holistic manner.

Regulatory Frameworks to reduce air pollution by MoRTH as on date (contd.)

- ❑ Enabling adoption of alternate fuels, blended fuels, cleaner technologies, etc. to reduce vehicular pollution
 - ❑ **Creating enabling framework to increase the use of alternate sustainable pollution-free flex fuel**
 - India has set targets to achieve **20% ethanol blending by 2025**, resulting in **30% less COx emissions** when used in a 4-wheeler vehicle.
 - MoRTH has notified various levels of ethanol blends (E10/E12/E15/E20/E85/E100)
 - AIS-171 indicating safety requirements for type approval of Anhydrous Ethanol & Ethanol Blended Motor Gasoline (EBMG) Vehicles (for Blends $\geq 20\%$)
 - ❑ **Formulated standards to enable manufacturing and adoption of Electric Vehicles (EVs)**
 - AIS standards for aspects related to safety, range, power, CMVR type approval, etc. for electric vehicles.
- ❑ **MoRTH issued GSR notification 575(E) dated August 2021**, for Electronic Monitoring and Enforcement of Road safety, at high density corridors and critical junctions in major cities with more than a million population, including **132 non-attainment cities under NCAP**.



Initiatives of MoRTH under NCAP

- 1. Phasing out older vehicular population through the vehicle scrapping policy.**
- 2. Decongestion of cities by diverting commercial traffic outside the city, in the form of constructing bypass, ring roads, lane expansion, flyovers, etc.**
- 3. Use of Construction and Demolition (C&D) waste for road laying and construction of paver blocks and other construction materials.**

Phasing out older vehicles – Priority implementation of Scrapping Policy

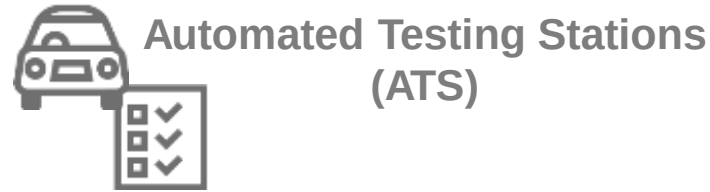
Vision of MoRTH:

- ❑ The Voluntary Vehicle-Fleet Modernization Program (V-VMP) or “Vehicle Scrapping Policy” is primarily aimed at creating an eco-system for phasing out of unfit and polluting vehicles in an eco-friendly manner.

Sl. No.	Scrapping Policy Implementation	To be effective from
1	G.S.R. 652 (E) dated 23.09.2021 regarding rules for recognition, regulation and control of automated testing stations	25 Sep 2021
2	G.S.R. 653 (E) dated 23.09.2021 regarding registration and functions of vehicle scrapping facility rules, 2021	
3	G.S.R. 714 (E) dated 04.10.2021 regarding upward revision of registration, fitness certificate and fitness testing fee on old vehicles (≥ 15 years)	01 April 2022
4	G.S.R. 720 (E) dated 05.10.2021 regarding concession in motor vehicle tax for vehicles bought against “certificate of deposit”	
5	Mandatory automated fitness testing for heavy commercial vehicles from 1st April 2023 and for medium and light commercial vehicles from 1st June 2024	01 April 2023



- ❑ Environment friendly & safe scrapping of vehicles as per CPCB & SPCB guidelines.
- ❑ Access to NCRB for vehicle verification & integration with VAHAN for vehicle de-registration



- ❑ ATS to automate testing of vehicles and improve transparency, vehicle finally rendered unfit by ATS to be scrapped.
- ❑ Linkage with RTOs, online portal for booking test slots, results publication and appeal for re-test.

14

State Investor Summits conducted

70

RVSFs required over next 5 years

* Status as on date. 6

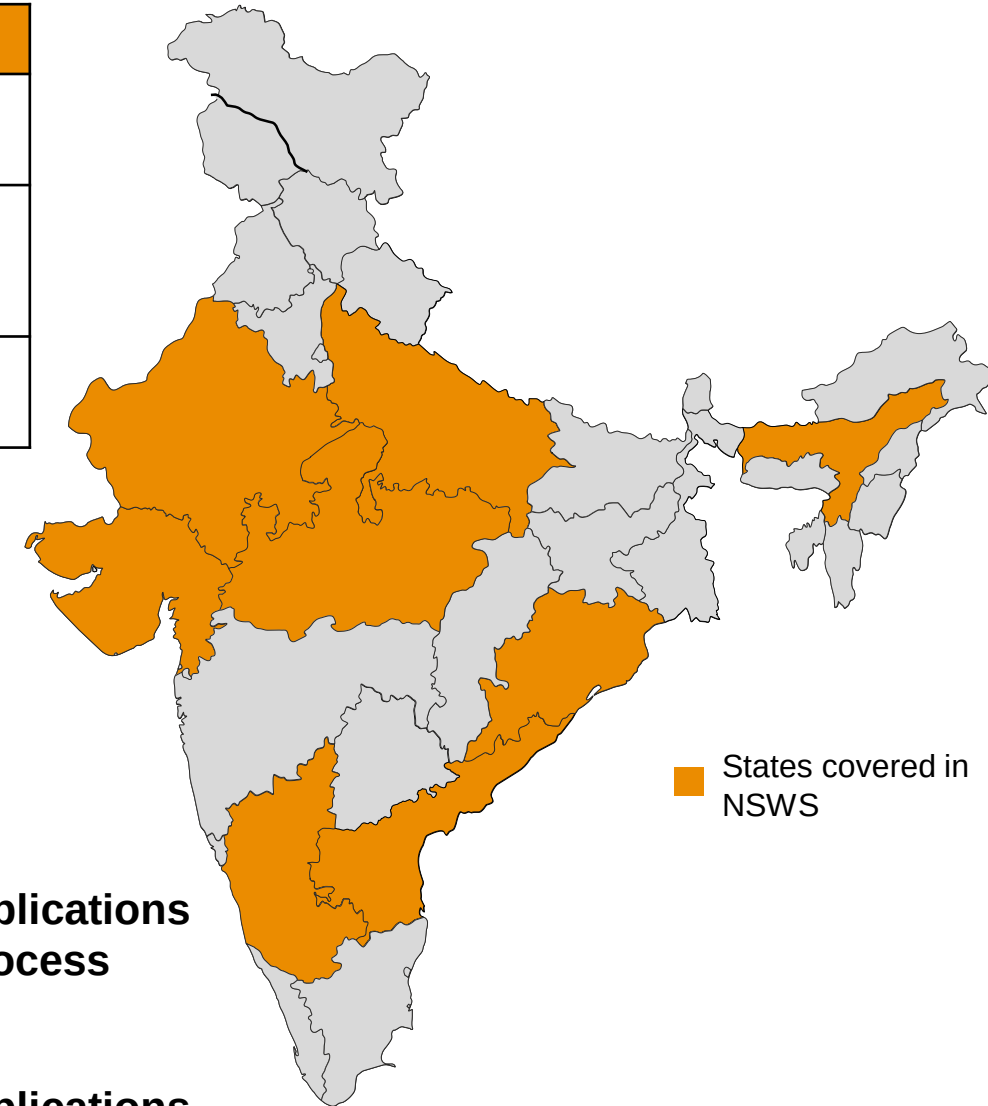
Phasing out older vehicles – Priority implementation of Vehicle Scrapping Policy

RVSFs operational under Vehicle Scrapping Policy

Sl. No.	Private Entity / Owner	City	State / Union Territory
1	CMR Kataria	Kheda	Gujarat
2	Cero	Kheda	
3	Maruti Suzuki Toyotsu India (MSTI)	Noida	Uttar Pradesh
4	Cero	Greater Noida	
5	Abhishek Group	Fatehpur	Haryana
6	India Motors	Near Gurugram	

Integration of States in NSWS Portal

Sl. No.	State / Union Territory	Integration with NSWS
1	Gujarat	Live for ATS and RVSF
2	Uttar Pradesh	Live for RVSF
3	Karnataka	Live for ATS and RVSF
4	Madhya Pradesh	Live for ATS and RVSF
5	Odisha	Live for ATS and RVSF
6	Assam	Live for ATS and RVSF
7	Rajasthan	Live for ATS and RVSF
8	Chandigarh	Live for ATS and RVSF
9	Andhra Pradesh	Live for ATS and RVSF



83

RVSF applications under process

26

RVSF applications approved

* Status as on date. 7

Decongestion of urban traffic – Construction of bypass, ring roads, lane expansion, flyovers, etc.

Vision of MoRTH:

- ❑ MoRTH has prepared a list of **191** congestion points across cities, where suitable roadwork interventions are being undertaken under the **Bharatmala Pariyojana**.
- ❑ **82** of these congestion points, have been identified within **61** non-attainment cities, which are intended to reduce congestion within these cities.
- ❑ Action plans under purview of **NHAI**, **NHIDCL** and **state PWDs**.

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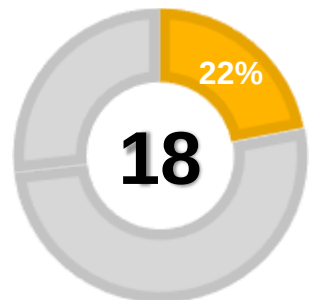
States and Union Territories covered

61

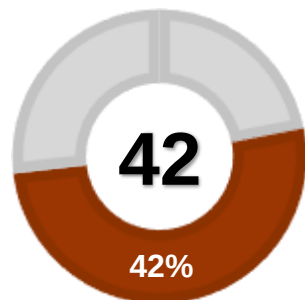
Non-attainment Cities covered under the initiative

82

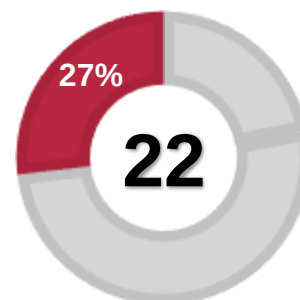
Congestion points being addressed within the non-attainment cities



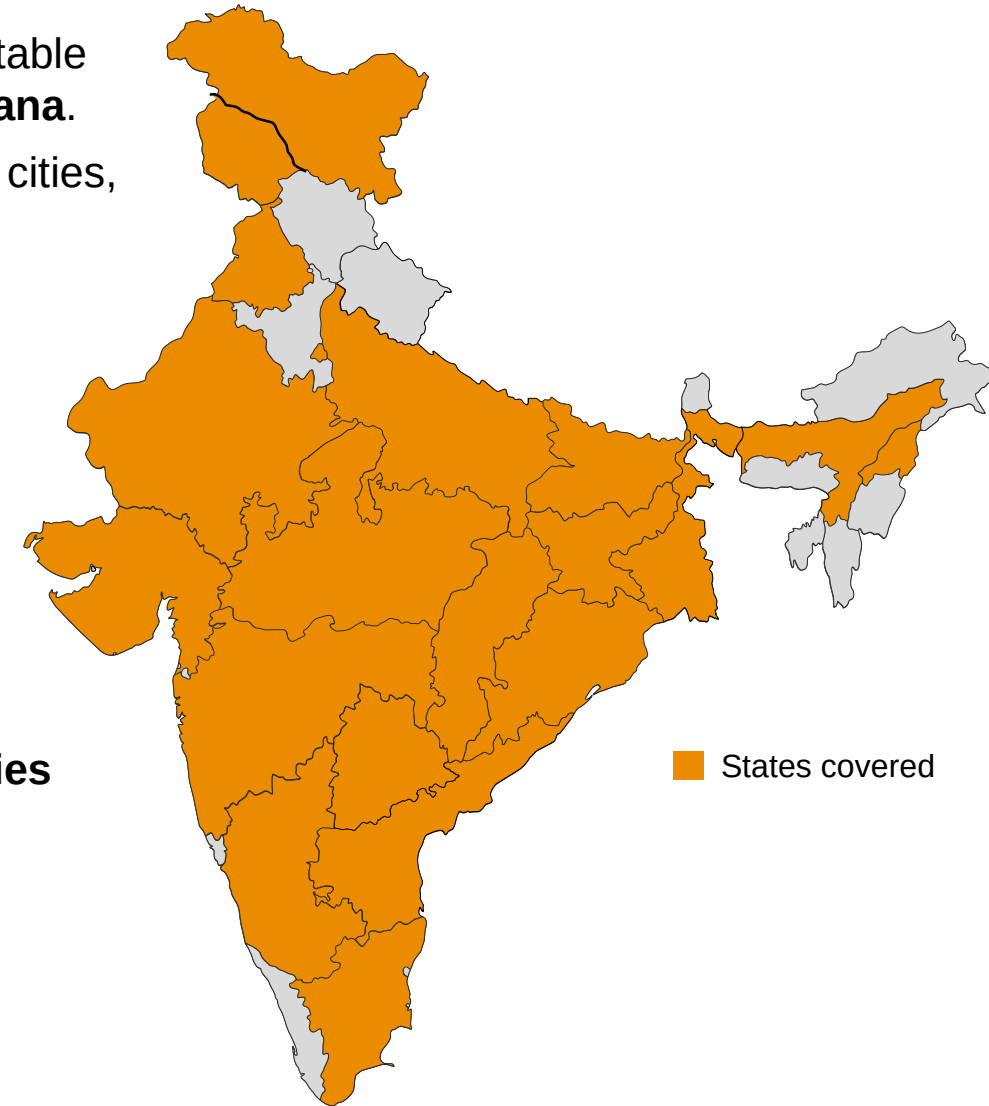
Completed Projects



Under construction



At DPR Stage



Use of Construction and Demolition (C&D) waste for road laying and construction of paver blocks and other construction materials

Vision of MoRTH:

- ❑ The principal sources for generation of construction and demolition waste are **building construction/ renovation/ demolition sites**.
- ❑ However, authentic data is not available about the quantum of C&D waste generation in India.
- ❑ MoRTH envisions to deploy C&D waste effectively in **road construction** and related activities in the Roadways sector in India following the timeframe of **2020 – 2025**.

Guidelines Document



IRC: 121-2017

(Guidelines for Use of Construction and Demolition Waste in Road Sector)

Initiatives taken by MoRTH:

- ❑ C&D waste can be used in **National Highways** projects, provided relevant specification requirements are met, as per the “**Specifications for road and bridge works**” of MoRTH.
- ❑ Executing Agencies (like State PWD, NHAI, NHIDCL, BRO etc.) will ascertain the availability of C&D waste from the Municipal Corporations / Municipalities and its suitability for use on NH works, either alone or blended with natural mineral aggregates.
- ❑ Contractors are being insisted upon to use C&D waste in all the NH projects to be taken up in the years **2020 to 2025** as per the stipulation of **IRC 121:2017**, subject to the provision that C&D recycled waste is made available by these cities / Municipal Corporation, and it meets all the necessary technical requirements.
- ❑ RFPs for new works are being suitably modified to use C&D waste for NH projects.

Thank you

Presentation on Improvement of Air Quality in 132 non attainment-cities

MoP&NG



Improvement of Air Quality in 132 non attainment cities

- In order to improve air quality, Government of India has been encouraging use of Natural gas in industry, vehicles and as a cooking fuel.
- Further, Government has also been promoting bio-fuels like ethanol under the Bioethanol policy 2018 and Ethanol blended petrol programme, biodiesel, Compressed biogas (CBG) under the SATAT policy etc.
- Government has also launched PMUY (Pradhan Mantri Ujjwala Yojna) in 2016 for providing clean cooking fuel to the households.
- Further, Government is also promoting electric vehicles.
- Existing CGD entities have capex plan of Rs 12,712 Crs for the FY 2022-23 and of Rs 11,780 Crs for the FY 2023-24 for development of CGD infrastructure in their the GAs of 105 cities authorized by PNGRB earlier.

Current Status of 132 Cities- CGD Infrastructure

- [128 Cities](#) have already been authorized by PNGRB/Govt. of India for development of CGD network.
- Out of the 128 cities, [23 cities](#) have been authorized by PNGRB in the recently concluded 11/11A CGD bidding round.
- 4 cities (Dimapur, Kohima, Srinagar & Byrnihat) will be offered for development of CGD network subject to demand and feasibility.

105 cities already by PNGRB earlier

- Out of the 105 cities authorized by PNGRB earlier, CGD activity has already commenced in 93 cities.
- In the balance 12 cities, upstream natural gas pipeline is still in progress.
- Till such time, CGD entities are making efforts to commence CGD activities through cascade/LCNG.

Status of CGD, SATAT, PMUY and EV charging

CGD Infrastructure Status as on 30.06.2022 (in 93 cities)

PNG Connections	CNG Stations	Industrial Connections	Commercial Connections
67.31 Lakhs	2,120	6,765	25,918

CBG Status	Number of Plants (Cities)	CBG Production capacity (TPD)
CBG Plants Operational	18 (14 Cities)	86.1
CBG Plants Planned	21 (13 Cities)	171.56

PMUY (Connections)	EV Stations
2 Cr	1,289

[Details](#)

Support Solicited from Government

- Adoption of Draft CGD policy launched in CGD conclave dated 23.01.2020
- Single Window Permission system to CGD entity for laying of Gas pipelines/CNG Stations
- Compulsory conversion of Public Transport/ Taxi/ Autos to run only on CNG.
- Use of alternate polluting Fuel Like Furnace Oil, Pet Coke etc
- Allocation of Land/Plot for opening additional CNG Stations either at nominal rates or on long-term lease basis.
- Rationalization of taxes such as VAT, State Taxes etc. so as to make CNG prices at par among Cities.
- Continuation of Central financial Assistance from MNRE
- Market Development Assistance on sale of FOM, Fixing of benchmark price and mandatory offtake of FOM by fertilizer companies.
- Extension activities on Bio-manure (FOM/LFOM) by Dept. of Agriculture / Agricultural Universities .
- Establishment of Biomass supply chain at a reasonable price on long term basis.
- Resolving issue of double taxation on CBG blended with CNG.
- Promotion of CNG/ CBG vehicles as well as tractors.

Support required from State Pollution Control Board

- State Pollution Control Board (SPCBs) may consider to come out with the notification of List of Approved Fuel and adequate Enforcement to be implemented
- SPCBs could incentivize Industrial Units to switch over to PNG supply in line with the DPCC.
- Complete ban on diesel sets (and not just during winters).
- To complete last mile connectivity in expeditious manner, PNG work (digging activities) may be allowed even during NGT Ban/other restrictions like monsoons, etc.



THANK YOU

List of 132 Cities

Anantapur	Nagaon	Vadodara	Gulburga	Jalna	Kohima	Ludhiana	Agra	Meerut	Madurai
Chitoor	Nalbari	Rajkot	Hubli-Dharwad	Kolhapur	Angul	NayaNangal	Allahabad	Varanasi	Faridabad
Eluru	Sibsagar	Baddi	Bhopal	Latur	Balasore	Patiala	Anpara	Gorakhpur	Jamshedpur
Guntur	Silcher	Damtal	Dewas	Mumbai	Bhubneshwar	Alwar	Bareily	Dehradun	Ranchi
Kadapa	Gaya	Kala Amb	Gwalior	Nagpur	Cuttack	Jaipur	Firozabad	Kashipur	Jabalpur
Kurnool	Muzzaffarpur	Nalagarh	Indore	Nashik	Kalinga Nagar	Jodhpur	Gajraula	Rishikesh	Vasai Virar
Nellore	Patna	Paonta Sahib	Sagar	Navi Mumbai	Rourkela	Kota	Ghaziabad	Asansol	
Ongole	Chandigarh	Parwanoo	Ujjain	Pune	Talcher	Udaipur	Jhansi	Barrackpore	
Rajahmundry	Durg Bhillainagar	Sunder Nagar	Akola	Sangli	Amritsar	Trichy	Kanpur	Durgapur	
Srikakulam	Korba	Jammu	Amravati	Solapur	Dera Baba Nanak	Tuticorin	Khurja	Haldia	
Vijaywada	Raipur	Srinagar	Aurangabad	Thane	DeraBassi	Hyderabad	Lucknow	Howrah	
Vishakhapatnam	Delhi	Dhanbad	Badlapur	Ulhasnagar	Gobindgarh	Nalgonda	Moradabad	Kolkata	
Vizianagaram	Ahmedabad	Bangalore	Chandrapur	Byrnihat	Jalandhar	Patencheru	Noida	Raniganj	
Guwahati	Surat	Devangere	Jalgaon	Dimapur	Khanna	Sangareddy	Raebareli	Chennai	



SNo	City	State	Remarks
1	Nagaon	Assam	11th Round
2	Nalbari	Assam	11th Round
3	Damtal	Himanchal Pradesh	11th Round
4	Akola	Maharashtra	11th Round
5	Amravati	Maharashtra	11th Round
6	Guntur	Andhra Pradesh	11th Round
7	Kurnool	Andhra Pradesh	11th Round
8	Ongole	Andhra Pradesh	11th Round
9	Durg Bhillainagar	Chhattisgarh	11th Round
10	Raipur	Chhattisgarh	11th round
11	Sunder Nagar	Himanchal Pradesh	11th Round
12	Jammu	J&K	11th Round
13	Sagar	Madhya Pradesh	11th Round
14	Chandrapur	Maharashtra	11th Round
15	Jalgaon	Maharashtra	11th Round
16	Jalna	Maharashtra	11th Round
17	Nagpur	Maharashtra	11th Round
18	Trichi	Tamil Nadu	11th Round
19	Tuticorin	Tamil Nadu	11th Round
20	Gajraula	Uttar Pradesh	11th Round
21	Haldia	West Bengal	11th Round
22	Madurai	Tamil Nadu	11th Round
23	Jabalpur	Madhya Pradesh	11th Round



		CBG Projects in NCAP Cities				PMUY	CGD Infra		EV Stations
S.NO.	City Name	Existing plants		Upcoming plants		No of Connections	CNG Stations	PNG Connections	Nos
		No.	Capacity (TPD)	No.	Capacity (TPD)				
1	Anantapur					25,970	11	1,554	11
2	Chittoor					6,111	5	175	1
3	Eluru					0	2	104	3
4	Guntur					9,696	0		15
5	Kadapa	1	3			32,594	7	1,806	27
6	Kurnool					48,944	0		2
7	Nellore					32,128	10	508	21
8	Ongole					0	0		0
9	Rajahmundry					0	3	445	1

		CBG Projects in NCAP Cities				PMUY	CGD Infra		EV Stations
S.NO.	City Name	Existing plants		Upcoming plants		No of Connections	CNG Stations	PNG Connections	Nos
		No.	Capacity (TPD)	No.	Capacity (TPD)				
10	Srikakulam					82,362	0	0	3
11	Vijaywada					0	34	48,658	25
12	Vishakhapatnam	1	2			25,985	9	0	2
13	Vizianagaram					1,17,888	0	0	2
14	Guwahati					0	0	0	19
15	Nagaon					3,23,991	0	0	2
16	Nalbari					1,80,821	0	0	0
17	Sibsagar					92,854	0	5,142	0
18	Silcher					0	0	413	3

		CBG Projects in NCAP Cities				PMUY	CGD Infra		EV Stations
S.NO.	City Name	Existing plants		Upcoming plants		No of Connections	CNG Stations	PNG Connections	Nos
		No.	Capacity (TPD)	No.	Capacity (TPD)				
19	Gaya					3,84,162	8	0	1
20	Muzzaffarpur					5,05,993	3	0	8
21	Patna					2,76,653	28	50,431	7
22	Chandigarh					92	8	22,871	14
23	Durg Bhillainagar					0	0	0	3
24	Korba					1,52,535	0	0	2
25	Raipur					1,46,742	0	0	36
26	Delhi			3	15	1,753	457	12,94,279	75
27	Ahmedabad					1,69,529	78	4,78,940	42

		CBG Projects in NCAP Cities				PMUY	CGD Infra		EV Stations
S.NO.	City Name	Existing plants		Upcoming plants		No of Connections	CNG Stations	PNG Connections	Nos
		No.	Capacity (TPD)	No.	Capacity (TPD)				
28	Surat	2	4.3			88,820	37	5,69,819	15
29	Vadodara	1	2	1	3	85,556	34	2,03,025	6
30	Rajkot					1,32,324	16	2,32,131	38
31	Baddi					0	1	0	0
32	Damtal					0	0	0	0
33	Kala Amb					0	0	0	0
34	Nalagarh					0	1	0	0
35	Paonta Sahib					0	1	0	0
36	Parwanoo					0	0	0	0

		CBG Projects in NCAP Cities				PMUY	CGD Infra		EV Stations
S.NO.	City Name	Existing plants		Upcoming plants		No of Connections	CNG Stations	PNG Connections	Nos
		No.	Capacity (TPD)	No.	Capacity (TPD)				
37	Sunder Nagar					0	0	0	0
38	Jammu					75,210	0	0	5
39	Srinagar					96,456	0	0	1
40	Dhanbad					2,30,770	8	1,11,58	0
41	Bangalore			1	10	27,026	69	2,28,566	69
42	Devangere					1,32,617	3	220	0
43	Gulburga					2,21,557	7	1,194	1
44	Hubli-Dharwad					0	6	16,462	2
45	Bhopal					1,00,593	24	15,843	37

		CBG Projects in NCAP Cities				PMUY	CGD Infra		EV Stations
S.NO.	City Name	Existing plants		Upcoming plants		No of Connections	CNG Stations	PNG Connections	Nos
		No.	Capacity (TPD)	No.	Capacity (TPD)				
46	Dewas					1,17,100	3	17,062	0
47	Gwalior					1,28,705	25	38,709	3
48	Indore	2	20.4			71,199	58	79,762	19
49	Ujjain	1	2			3,32,011			3
50	Sagar					1,39,801	0	0	2
51	Akola					1,19,709	0	0	0
52	Amravati					1,46,172	0	0	0
53	Aurangabad			1	10	1,52,317	5	4,083	13
54	Badlapur					0	5	45,633	0

		CBG Projects in NCAP Cities				PMUY	CGD Infra		EV Stations
S.NO.	City Name	Existing plants		Upcoming plants		No of Connections	CNG Stations	PNG Connections	Nos
		No.	Capacity (TPD)	No.	Capacity (TPD)				
55	Chandrapur					1,22,817	0	0	0
56	Jalgaon					2,50,528	0		3
57	Jalna					99,421	0		1
58	Kolhapur	1	6			2,00,804	14	19,647	3
59	Latur					1,32,931	3	470	2
60	Mumbai					2,146	146	10,54,448	12
61	Nagpur			1	3.36	1,09,766	0	0	16
62	Nashik					2,33,888	48	1,05,051	7
63	Navi Mumbai					0	31	1,51,445	18

		CBG Projects in NCAP Cities				PMUY	CGD Infra		EV Stations
S.NO.	City Name	Existing plants		Upcoming plants		No of Connections	CNG Stations	PNG Connections	Nos
		No.	Capacity (TPD)	No.	Capacity (TPD)				
64	Pune	1	14	5	50	1,49,723	100	4,10,025	19
65	Sangli	2	12	1	2	1,12,824	1	14,400	7
66	Solapur	1	7			1,55,512	6	3	10
67	Thane					47,219	23	1,87,820	3
68	Ulhasnagar					0	2		0
69	Byrnihat					0	0		0
70	Dimapur					6,548	0		4
71	Kohima					8,377	0		1
72	Angul					1,59,303	0	250	9

		CBG Projects in NCAP Cities				PMUY	CGD Infra		EV Stations
S.NO.	City Name	Existing plants		Upcoming plants		No of Connections	CNG Stations	PNG Connections	Nos
		No.	Capacity (TPD)	No.	Capacity (TPD)				
73	Balasore					2,76,735	7	0	0
74	Bhubneshwar					0	19	37,735	22
75	Cuttack					2,73,385	11	16,446	1
76	Kalinga Nagar					0	0	0	0
77	Rourkela					0	9	7,339	1
78	Talcher					0	0	0	0
79	Amritsar					96,604	14	14,621	7
80	Dera Baba Nanak					0	1	0	0
81	DeraBassi					0	2	0	1

		CBG Projects in NCAP Cities				PMUY	CGD Infra		EV Stations
S.NO.	City Name	Existing plants		Upcoming plants		No of Connections	CNG Stations	PNG Connections	Nos
		No.	Capacity (TPD)	No.	Capacity (TPD)				
82	Gobindgarh					0	8	1,851	0
83	Jalandhar					71,022	3	0	12
84	Khanna					0	2	46	0
85	Ludhiana	1	5			79,594	3	0	13
86	NayaNangal					0	2	1,600	0
87	Patiala					96,056	5	0	2
88	Alwar					3,24,021	6	0	3
89	Jaipur					3,34,792	23	0	45
90	Jodhpur					2,94,905	19	12,227	35

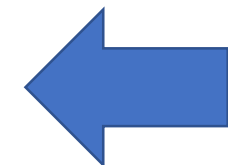
		CBG Projects in NCAP Cities				PMUY	CGD Infra		EV Stations
S.NO.	City Name	Existing plants		Upcoming plants		No of Connections	CNG Stations	PNG Connections	Nos
		No.	Capacity (TPD)	No.	Capacity (TPD)				
91	Kota					92,864	9	18,903	23
92	Udaipur					3,77,143	15	0	32
93	Trichy					1,32,641	0	0	12
94	Tuticorin					95,590	0	0	6
95	Hyderabad	2	4			1,258	88	1,60,234	90
96	Nalgonda					70,598	6	2,100	5
97	Patencheru					0	9	0	0
98	Sangareddy					49,423			4
99	Agra					2,88,575	29	93,459	15

		CBG Projects in NCAP Cities				PMUY	CGD Infra		EV Stations
S.NO.	City Name	Existing plants		Upcoming plants		No of Connections	CNG Stations	PNG Connections	Nos
		No.	Capacity (TPD)	No.	Capacity (TPD)				
100	Allahabad					5,49,149	9	13,306	10
101	Anpara					0	0	0	0
102	Bareilly					3,91,624	19	49,334	9
103	Firozabad					2,06,091	36	19,178	0
104	Gajraula					0	0	0	0
105	Ghaziabad	1	2.4			63,589	62	2,86,748	3
106	Jhansi					2,06,079	8	11,758	3
107	Kanpur			1	2	1,68,718	47	1,14,898	27
108	Khurja					0	7	12,242	0

		CBG Projects in NCAP Cities				PMUY	CGD Infra		EV Stations
S.NO.	City Name	Existing plants		Upcoming plants		No of Connections	CNG Stations	PNG Connections	Nos
		No.	Capacity (TPD)	No.	Capacity (TPD)				
109	Lucknow					2,23,365	43	64,336	18
110	Moradabad					2,64,191	7	14,745	5
111	Noida					0	20	1,75,253	2
112	Raebareli					2,63,103	17	0	0
113	Meerut			2	7	1,73,546	19	53,101	6
114	Varanasi	1	2			2,287,29	29	55,841	18
115	Gorakhpur			1	28	2,73,988	11	198	15
116	Dehradun					49,397	13	26,060	17
117	Kashipur					0	9	12,401	0

		CBG Projects in NCAP Cities				PMUY	CGD Infra		EV Stations
S.NO.	City Name	Existing plants		Upcoming plants		No of Connections	CNG Stations	PNG Connections	Nos
		No.	Capacity (TPD)	No.	Capacity (TPD)				
118	Rishikesh					0	0	0	3
119	Asansol					0	4	0	5
120	Barrackpore					0	0	0	0
121	Durgapur					0	9	0	17
122	Haldia					0	0	0	0
123	Howrah					2,40,320	0	0	0
124	Kolkata					38,635	7	0	22
125	Raniganj					0	2	0	0
126	Chennai			2	11.2	29,424	41	0	41

		CBG Projects in NCAP Cities				PMUY	CGD Infra		EV Stations
S.NO.	City Name	Existing plants		Upcoming plants		No of Connections	CNG Stations	PNG Connections	Nos
		No.	Capacity (TPD)	No.	Capacity (TPD)				
127	Madurai					1,42,117	0	0	18
128	Faridabad					16,314	28	75,935	5
129	Jamshedpur					0	13	22,357	0
130	Ranchi			1	5	1,74,807	21	35,550	10
131	Jabalpur					1,75,202	0	0	52
132	Vasai Virar			1	25	0	9	8,530	0
	Total	18	86.1	21	171.56	1,36,40,147	2,120	67,30,884	1289





NAGAR VAN/VATIKA YOJANA (NVY)

Cost – Rs. 895.00 Crore

Duration – 5 years (2020-21 to 2024-2025)



Objectives

- Developing **400 Nagar Vans** and **200 Nagar Vatikas** across the country in cities having Municipal Corporation/Municipal Council/Municipalities/ULBs
- Creating green space in an urban set up
- Contributing to environmental improvement of cities by pollution mitigation, providing cleaner air, noise reduction, water harvesting and reduction of heat islands effect
- Helping cities become climate resilient



Scheme Guidelines

- Nagar Vatika – upto 10 ha within city limits
- Nagar Van – 10-50 Ha, within 5 km limit
- Forest/Non forest Public Land
- Municipalities/ULBs can be Implementing Agencies
- University/NGO/ULB on their land



Scheme Guidelines

- One time grant of Rs 4 lakhs/ha – upto maximum Rs. 2 Cr
- Convergence mode with CSO/NGO/Industries
- Proposals through State Forest Department
- KML file and Management Plan
- Guidelines available on Ministry's website under Schemes and Programmes section
- <https://moef.gov.in/wp-content/uploads/2017/06/Implementation-Guidelines-Nager-Van-Yojana.pdf>



Total 48 Nagar Van/Vatika approved in 20 States of the country

State	Nagar Van/Vatika approved	Nagar Van/Vatika pending
Andhra Pradesh (13)	Kurnool	Nellore
	Anantapur	Vijayawada
	Chitoor	Vishakhapatnam
		Guntur
		Eluru
		Kadapa
		Ongole
		Rajahmundry
		Srikakulam
		Vizianagaram
Assam (05)	Guwahati	Nagaon
		Nalbari
		Sibsagar
		Silchar
Bihar (03)	Gaya	Patna
	-	Muzaffarpur
Chandigarh (01)	Chandigarh	-
Chhattisgarh (03)	Raipur	Bhilai
	-	Korba
Delhi (01)	-	Delhi



State	Nagar Van/Vatika approved	Nagar Van/Vatika pending
Gujarat (04)	Surat	Vadodara
	Ahmedabad	-
	Vadodara	-
	Rajkot	-
Himachal Pradesh (7)	-	Baddi
	-	Damtal
	-	Kala Amb
	-	Nalagarh
	-	Paonta Sahib
	-	Parwanoo
	-	Sunder Nagar
Jammu & Kashmir (2)	Jammu	Srinagar
Jharkhand (03)	Dhanbad	Jamshedpur
	Ranchi	-
Karnataka (04)	Bangalore	Devanagere
	Hubli-Dharwad	Gulbarga



State	Nagar Van/Vatika approved	Nagar Van/Vatika pending
Madhya Pradesh (07)	Bhopal	-
	Dewas	-
	Indore	-
	Sagar	-
	Ujjain	-
	Gwalior	-
	Jabalpur	-
Maharashtra (19)	Nagpur	Akola
	Pune	Amravati
	Jalgaon	Aurangabad
	-	Badlapur
	-	Chandrapur
	-	Jalna
	-	Kolhapur
	-	Latur
	-	Mumbai
	-	Nashik
	-	Navi Mumbai
	-	Sangli
	-	Solapur
	-	Ulhasnagar
	-	Thane
	-	Vasai-Virar



State	Nagar Van/Vatika approved	Nagar Van/Vatika pending
Meghalaya (01)	-	Byrnihat
Nagaland (02)	Kohima	Dimapur
Orissa(05)	Bhubaneswar	Talcher
	Cuttack	Kalinga Nagar
	Rourkela	
Punjab (09)	Pathankot	Dera Bassi
	Patiala	Gobindgarh
	-	Jalandhar
	-	Khanna
	-	Ludhiana
	-	Naya Nangal
	-	Amritsar
Rajasthan(05)	Jaipur	Alwar
	Jodhpur	
	Kota	
	Udaipur	



State	Nagar Van/Vatika approved	Nagar Van/Vatika pending
Tamil Nadu(04)	Trichy	Thoothukudi
	Chennai	Madurai
Telangana(04)	Nalgonda	Hyderabad
	Sangareddy	Patancheruvu
	Agra	Allahabad
Uttar Pradesh (17)	Jhansi	Anpara
	Kanpur	Bareilly
	Raebareli	Firozabad
	Varanasi	Gajraula
	Gorakhpur	Ghaziabad
	-	Khurja
	-	Lucknow
	-	Moradabad
	-	Noida
	-	Meerut
Uttarakhand (03)	Dehradun	Kashipur
		Rishikesh
West Bengal(07)	Kolkata	Asansol
		Barrackpore
		Durgapur
		Haldia
		Howrah
		Raniganj
Haryana(01)	Faridabad	-
Total (24)	48	84



THANK YOU !!

Annexure VI

Allocation of funds under NCAP for the FY 2022-23

S. No.	States/ UTs	City	1st instalment (60%) (A)	2nd instalment due to the city (40%)	Actual allocated amount of 2nd instalment*1 (B)	Incentive Amount*2 (C)	Total amount allocated (A+B+C)
1	Andhra Pradesh	Chitoor	1.03	0.69	0.69	0.09	1.81
2	Andhra Pradesh	Srikakulam	1.09	0.74	-	-	1.09
3	Andhra Pradesh	Ongole	1.41	0.95	0.95	0.16	2.53
4	Andhra Pradesh	Eluru	1.82	1.22	-	-	1.82
5	Andhra Pradesh	Vizianagaram	1.84	1.24	-	-	1.84
6	Andhra Pradesh	Kadapa	1.84	1.24	-	-	1.84
7	Andhra Pradesh	Anantapur	2.32	1.56	1.56	0.64	4.52
8	Andhra Pradesh	Rajahmundry	2.51	1.69	-	-	2.51
9	Andhra Pradesh	Kurnool	3.03	2.03	-	-	3.03
10	Andhra Pradesh	Nellore	4.28	2.87	2.87	1.15	8.30
11	Andhra Pradesh	Guntur	4.35	2.92	-	-	4.35
12	Assam	Nalbari	0.50	0.16	-	-	0.50
13	Assam	Sibsagar	0.50	0.21	0.21	-	0.71
14	Assam	Silchar	0.50	0.59	-	-	0.50
15	Assam	Nagaon	1.47	0.99	-	-	1.47
16	Assam	Guwahati	11.65	7.83	7.83	0.90	20.38
17	Bihar	Gaya	4.22	2.84	-	-	4.22
18	Bihar	Muzaffarpur	5.56	3.74	-	-	5.56
19	Chandigarh	Chandigarh	10.24	6.88	-	-	10.24
20	Chhattisgarh	Korba	2.16	1.45	-	-	2.16

21	Delhi	Delhi	25.01	16.80	-	-	25.01
22	Himachal Pradesh	Kala Amb	0.50	0.00	-	-	0.50
23	Himachal Pradesh	Damtal	0.50	0.01	-	-	0.50
24	Himachal Pradesh	Parwanoo	0.50	0.04	0.04	-	0.54
25	Himachal Pradesh	Nalagarh	0.50	0.09	0.09	0.04	0.63
26	Himachal Pradesh	Sunder Nagar	0.50	0.13	0.13	0.12	0.74
27	Himachal Pradesh	Paonta Sahib	0.50	0.15	-	-	0.50
28	Himachal Pradesh	Baddi	0.50	0.30	0.08	-	0.58
29	Jammu and Kashmir	Jammu	10.87	7.30	-	-	10.87
30	Jammu and Kashmir	Srinagar	17.68	11.88	11.88	4.40	33.96
31	Karnataka	Devanagere	3.12	2.10	2.10	0.88	6.10
32	Karnataka	Gulburga	4.97	3.34	3.34	-	8.31
33	Karnataka	Hubli-Dharwad	8.19	5.50	5.50	1.38	15.07
34	Madhya Pradesh	Dewas	2.95	1.98	1.98	0.33	5.26
35	Madhya Pradesh	Sagar	3.02	2.03	-	-	3.02
36	Madhya Pradesh	Ujjain	5.18	3.48	-	-	5.18
37	Maharashtra	Jalgaon	2.96	1.99	-	-	2.96
38	Maharashtra	Jalna	3.09	2.07	0.52	-	3.60
39	Maharashtra	Akola	3.27	2.19	2.19	0.09	5.55
40	Maharashtra	Chandrapur	3.29	2.21	-	-	3.29
41	Maharashtra	Latur	3.57	2.40	2.40	1.31	7.27
42	Maharashtra	Sangli	3.82	2.57	2.57	1.02	7.41
43	Maharashtra	Kolhapur	5.72	3.85	3.85	0.79	10.36
44	Maharashtra	Amravati	6.47	4.35	4.35	1.54	12.36

45	Maharashtra	Solapur	9.34	6.28	6.28	4.73	20.35
46	Meghalaya	Byrnihat	0.50	0.00	-	-	0.50
47	Nagaland	Kohima	0.90	0.60	0.60	0.23	1.73
48	Nagaland	Dimapur	1.17	0.79	0.79	0.03	1.99
49	Odisha	Angul	0.50	0.32	-	-	0.50
50	Odisha	Talcher	0.50	0.33	0.33	0.19	1.03
51	Odisha	Kalinga Nagar	0.50	0.39	-	-	0.50
52	Odisha	Balasore	1.41	0.95	0.95	0.19	2.55
53	Odisha	Rourkela	6.90	4.63	1.16	-	8.06
54	Odisha	Cuttack	7.61	5.12	5.12	0.91	13.64
55	Odisha	Bhubneshwar	9.80	6.59	6.59	0.14	16.53
56	Punjab	Dera Bassi	0.50	0.20	-	-	0.50
57	Punjab	Naya Nangal	0.50	0.37	0.37	0.26	1.13
58	Punjab	Gobindgarh	1.19	0.80	0.80	0.07	2.05
59	Punjab	Pathankot/Dera Baba	1.27	0.85	0.85	-	2.12
60	Punjab	Khanna	1.55	1.04	-	-	1.55
61	Punjab	Patiala	4.99	3.35	-	-	4.99
62	Punjab	Jalandhar	11.70	7.86	-	-	11.70
63	Rajasthan	Alwar	4.85	3.26	3.26	0.40	8.51
64	Rajasthan	Udaipur	7.04	4.73	4.73	-	11.78
65	Tamil Nadu	Tuticorin	2.28	1.53	1.53	0.79	4.59
66	Telangana	Sangareddy	0.50	0.47	0.47	-	0.97
67	Telangana	Nalgonda	1.04	0.70	-	-	1.04
68	Uttar Pradesh	Anpara	0.50	0.24	0.24	0.01	0.74

69	Uttar Pradesh	Gajraula	1.32	0.89	0.89	0.29	2.51
70	Uttar Pradesh	Raebareli	3.30	2.22	2.22	0.56	6.07
71	Uttar Pradesh	Khurja	3.83	2.57	2.57	0.79	7.19
72	Uttar Pradesh	Jhansi	5.89	3.96	-	-	5.89
73	Uttar Pradesh	Firozabad	14.11	9.48	9.48	3.85	27.44
74	Uttar Pradesh	Noida	14.84	9.97	7.48	-	22.32
75	Uttar Pradesh	Bareilly	19.88	13.36	13.36	0.32	33.56
76	Uttar Pradesh	Gorakhpur	21.43	14.40	14.40	4.73	40.56
77	Uttar Pradesh	Muradabad	25.01	16.80	16.80	6.30	48.11
78	Uttarakhand	Rishikesh	1.56	1.05	1.05	0.16	2.77
79	Uttarakhand	Kashipur	1.75	1.17	0.88	-	2.63
80	Uttarakhand	Dehradun	10.85	7.29	7.29	1.23	19.38
81	West Bengal	Haldia	1.63	1.09	-	-	1.63
82	West Bengal	Durgapur	8.56	5.75	-	-	8.56
			390.00		165.60	41.00	596.60

*1 The amount of second instalment is calculated on the basis of performance factor of air quality determined by CPCB.

*2 Incentives are calculated as per guidelines for release and utilisation of funds under NCAP.