



सत्यमेव जयते

Ministry of Health & Family Welfare
Government of India



National Centre for
Disease Control
Government of India



राष्ट्रीय स्वास्थ्य मिशन



National Programme
on Climate Change
and Human Health

National Review Meeting

NATIONAL PROGRAMME ON CLIMATE CHANGE AND HUMAN HEALTH

National Center for Disease Control

Ministry of Health and Family Welfare

17th December 2021

India Habitat Centre, New Delhi



सत्यमेव जयते

Government of India
Ministry of Health & Family Welfare



National Programme
on Climate Change
and Human Health

National Review Meeting

The National Programme on Climate Change and Human Health CHANDIGARH (UT)

Dr. INDERPAL SINGH SAHNI
STATE EPIDEMIOLOGIST, IDSP
UT, CHANDIGARH

NPCCHH Activities 2020-21/21-22 & Budget Proposed/Expended for F.Y. 2021-22

S. No	Activities	Sanction in 2020-21	Sanction in 2021-22	Expenditure till date (%)	Reason for less utilisation	Plan of spending by March 31 st 2022	Reason for non proposal
1	3.3.3.3 Training of Panchayati Raj Institutions/ Block level training	0.50					
2	9.5.29.8 a. Training at State level b. Training at District level	0.50	0.50				
3	16.1.2.1.23 State and district level Task force meetings (multi-sectoral)	0.25	0.25				
4	16.1.2.1.24 a. Sensitization workshops/meeting at State level b. Sensitization workshops/meeting at District level	0.25	0.25				
5	5.1.1.2.13 a. Greening of health care facilities b. Climate resilient Healthcare facilities						

Grant not received for specific programme)

NPCCHH Activities 2020-21/21-22 & Budget Proposed/expended for F.Y.2021-22 contd...

S.No	Activities	Sanction in 2020-21	Sanction in 2021-2022	Expenditure till date (%)	Reason for less utilisation	Plan of spending by March 31 st 2022	Reason for non proposal
6	10.2.14 a. Vulnerability Need Assessment (VA) related to Climate Change and Health b. Research on climate variables and impact on human health						
7	11.24.4.4 IEC						
8	12.17.3 Printing	1.50	1.50				
9	16.4.1.5.2 Consultant Climate Change						
10	Other						

(Grant not received for specific programme)

Deliverables

S.No	Major Milestones	Definition	Targets/ Achievement during FY 2020-21	Targets/ Achievements for FY 2021-22
1	Strengthening of State level organizational structure	1.1. Appointed State Nodal Officer-Climate Change (SNO-CC)	Yes	-
		1.2. Constituted Governing Body under Hon'ble Health Ministers of State	-	-
		1.3. Set up multi-sectoral Task Force under Principal Secretary (Health)	Yes	-
		1.4. Established Environment Health Cell (Yes/No)	No (IDSP staff looking after the set up)	Environment Health Cell issue will be taken up

Deliverables contd...

Sl.No.	Major Milestones	Definition	Targets/ Achievement during FY 2020-21	Targets/ Achievements for FY 2021-22
2	Strengthening of District level organizational structure	<p>2.1. How many Districts have appointed District Nodal Officer-Climate Change (DNO-CC)</p> <p>2.2. How many Districts have set up multi-sectoral Task Force under District Collector</p> <p>2.3. How many Districts have established Environment Health Cell (EHC)</p>	Chandigarh as one district.	-
3	Consultant Climate Change and Health	3.1. Whether the State has appointed Consultant Climate Change and Health as per posts approved in ROP 2020-21	Proposed in PIP; Salary @ Rs. 75,000/- per month for one year (under given FMR codes), <u>BUT NOT APPROVED</u>	Will be again taken up

Deliverables contd...

S.No.	Major Milestone	Definition	Targets/ Achievement during FY 2020-21	Targets/ Achievements for FY 2021-22
4	State Action Plan Climate Change and Human Health(SAPCCHH) inclusive of air pollution and heat action plans	Has the State published the SAPCCHH ? If so, shared to NPCCHH programme division at NCDC?	DRAFT VERSION 1; 18/2/2021	Further revision will be done..
5	Task Force meetings with Date of meetings Governing Body Meetings with Date of meetings	How many meetings conducted in the Year 2020-21?	Meetings with stake holders(who are also a part of task force for NPCCHH) under Department of environment UT were conducted .(slide attached)	-

Deliverables contd...

S.No.	Major Milestone	Definition	Targets/ Achievement during FY 2020-21	Targets/ Achievements for FY 2021-22
6	Air pollution & Health	• Has the State identified the priority cities and designated the / sentinel hospitals for initiation of surveillance in context of air pollution?	YES	-
		•How many of these sentinel hospitals have initiated reporting of surveillance data ?	01 [Government Multi Speciality Hospital, Sector -16 (GMSH-16) has been designated as SSH for ARI surveillance] Dr. Honey Sawhney has been designated as Nodal Officer for Reporting. (file number (U.O/No. DMS -19/4337, Date;02/12/19)	-
		Issuance of Health Advisory on Air Pollution (Y/N)	NO	-
		IEC translation /dissemination (Y/N)	YES	-
		Development of Health sector preparedness plan on air pollution. if any	YES	-

Deliverables contd...

S.No.	Major Milestone	Definition	Targets/ Achievement during FY 2020-21	Targets/Achievements for FY 2021-22
7	Heat and Related illness	FY 2020-21 /2021-22		
		•Reporting (Y/N)	-	-
		•Advisory/IEC: (Y/N)	YES	-
		•Heat alerts disseminated (Y/N)	NO	-
		FY 2021-22		
		• To Prepare Heat Preparedness plan	NO	-
•IEC/Meeting/ Hospital preparedness etc. planned	YES	-		

Deliverables contd...

S.No.	Major Milestone	Definition	Achievement during FY 2020-21	Targets for FY 2021-22
8	Awareness Activities	<p>IEC Activities done. Date , Mode (Radio/TV/ Newspaper/Hoardings) Any other activity</p> <ul style="list-style-type: none"> •Sensitization •International Day Celebration 	Yes	
9	Training	<p>Any training conducted for health professionals/workers in the state ?</p> <p>Briefly mention</p>		To be done whenever budget is received
10	Vulnerability Need Assessment	<ul style="list-style-type: none"> • Has the State started the VNA on climate sensitive disease? 		To be done year for VE
11	Green and Climate Resilient Healthcare	<ul style="list-style-type: none"> • Has the State undertaken any assessment for Green and Climate Resilient healthcare facilities and details if any •Whether the State is undertaking/undertaken any Green and Climate Resilient healthcare infrastructures development/retrofitting and details if any • Any further actions: please specify 	Yes	

Meetings

- State Nodal Officer for Environmental Health Issue (Climate Change & Air Pollution) for UT-Chandigarh has attended one day National Consultation on Environmental Health (Climate Change & Air Pollution), Anti-Microbial Resistance, and Patient Safety on **9th January, 2019** at India Habitat Centre, Delhi.
- Review meeting to discuss Action Plan on Climate Change of knowledge management centre and Secretariat for Climate Change Advisory committee along with the departments involved in UT Chandigarh was held on **10th April, 2019**
- Video Conference with GOI was held on **13th May, 2019** regarding climate change and human health related activities under NHM.
- To publicize the new initiatives of MoEF & CC under ENVIS scheme meeting was held on **24.07.2019**.
- Review meeting to discuss Action Plan on Climate Change of knowledge management centre and Secretariat for Climate Change Advisory committee along with the departments involved in UT Chandigarh was held on **4th November, 2019**. In the meeting it was decided that the work of revision of SAPCC for Chandigarh may be awarded to United Nations Environment Programme (UNEP).
- Meeting on **29th October, 2021** at Paryavaran Bhawan, sector 19 for SAPCC with TERI team, MC & other stake holders.

Issue and Challenges

- Budget proposed, approved but not received for activities to be done for financial year 2021-22.
- Chandigarh (UT) is not deploying a separate Consultant (Environment).
- No separate Environment Data Cell



SPECIAL ACHIEVEMENT OF CHANDIGARH (UT)

Road Dust

Procurement of **Mechanical Street Sweepers**

Procurement of **Water Sprinklers**

Footpaths, market areas and road berms are also cleaned/washed with tertiary treated water at fixed intervals.



Outcomes

- **Reducing particulate matter** suspension into the atmosphere
- Utilisation of tertiary treated water
- Reduce the emission load into the environment





Construction & Demolition Waste Processing Plant

C&D Waste Processing Plant is operational in Industrial Area of Chandigarh having processing facility of 160 MT of C&D waste per day. It produces material which can be utilized for **cement concrete roads** such as **washed sand**, **crushed aggregate of 10 mm, 20 mm and 40 mm**. In addition to it plant **manufactures road material** i.e. PCC kerbs, PCC channels, PCC tools, Paver blocks etc. At a relatively low cost.



Dissemination of AQI to general public

The big display boards located in the following locations

Sector 17

PGIMER, Sector 12

Railway Station, Village Daria

ISBT, Sector 43

Sukhna Lake, Sector 6

In addition to this, real time ambient air quality data is also displayed in Paryavaran Bhawan, Sector 19, Chandigarh



Outcomes

- **Awareness** among general public
- Enhances **people participation** in air pollution control activities
- **Sensitizing media** about the prevailing ambient air quality.

PUBLIC AWARENESS ACTIVITIES



Installation of Continuous Ambient Air Quality Monitoring Stations (CAAQMS)

Chandigarh Pollution Control Committee installed **two CAAQMS in Sector 25 and Sector 22**, which monitors **13 parameters** on real time basis along with the prevailing meteorological conditions.

1 more CAAQMS, will soon be commissioned in **Sector 53**. This will upgrade the monitoring network in the city to act wisely while formulating policies in this regard.



Installation of Air Purification Tower in the City

Chandigarh Pollution Control Committee has installed one Air Purification Tower at Transport Chowk, Sector 26, Chandigarh which is one of the busiest chowk to trap the air pollutants which may otherwise contribute to the high AQI in the city.



Vehicles

- More than 200 kms bicycle track were created for encourage the public to use bicycle as their mode of conveyance.
- Administration is publicizing the use of **E-Vehicle**
- More than 100 bicycle stands with bicles & others are in pipeline



Legacy Waste Treatment Plant

Legacy waste plant has been set up in the city by the Municipal Corporation, Chandigarh at Dadu Majra, Chandigarh.

Upto November 2020, **56462.68 MT** has been treated there.



Source Apportionment and Emission Inventory Study

As per the orders of Hon'ble National Green Tribunal (NGT), Chandigarh has to carry out source apportionment study as well as emission inventory. CPCC has called EOIs which are under evaluation phase.

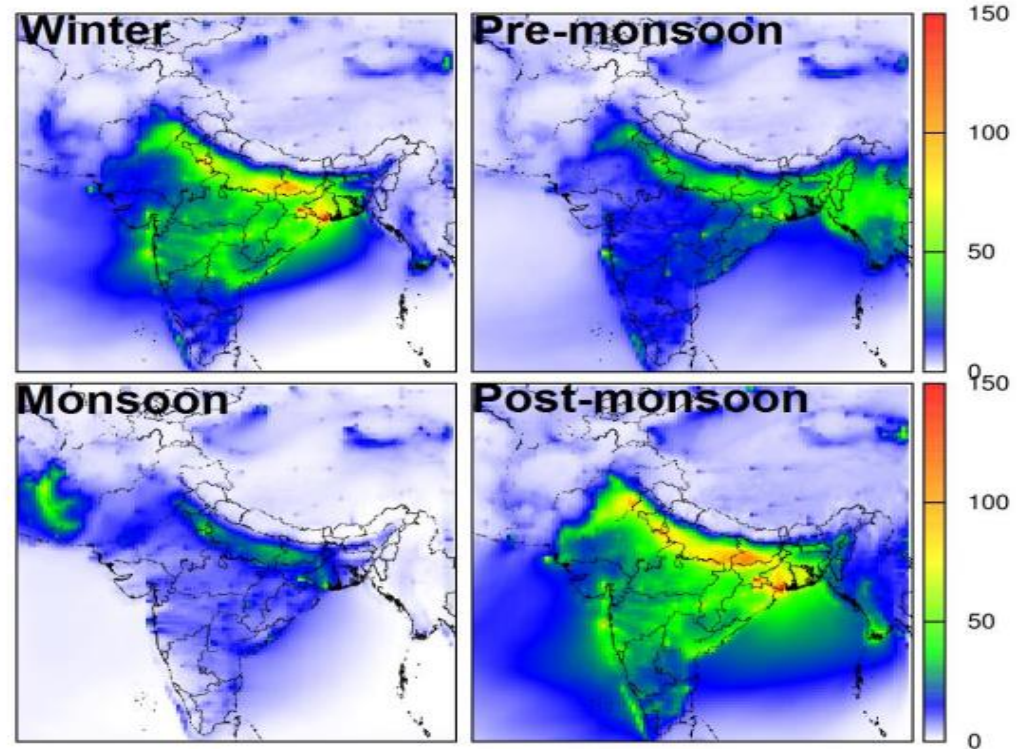


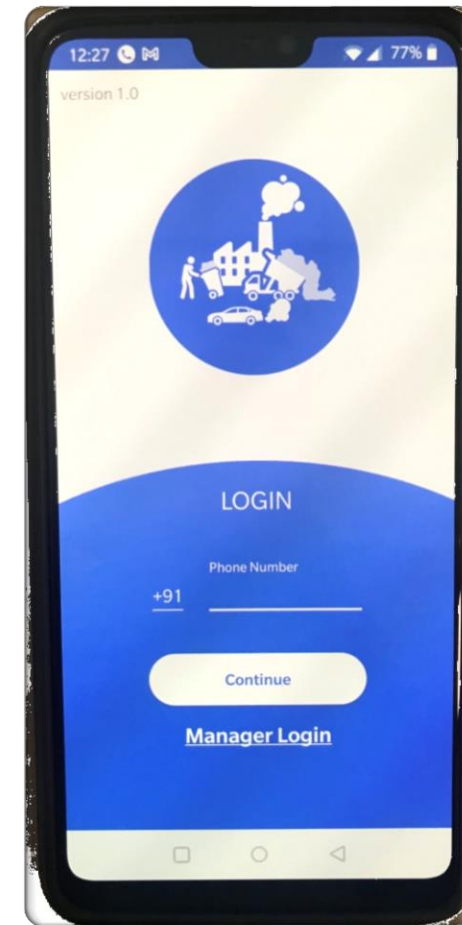
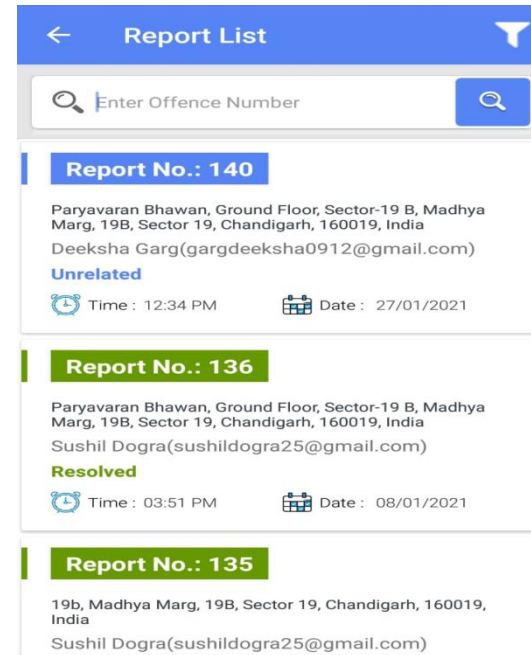
Figure 3. Seasonal variation of predicted $PM_{2.5}$ in India in 2015 (Units are in $\mu g/m^3$).

Expected Outcomes

- Will know the **exact source of the pollutant** in the ambient air.
- Help in **policy formulation**
- Help in addressing the key component



Public Grievance Redressal Portal



CPCC has developed one Public Grievance Redressal Portal for the general public which facilitate them to resolve their issues related to environmental pollution. Soon this will be made available to general public

Maximise Coverage of LPG/PNG for Domestic and Commercial purpose

130 Kms. of high pressure and 300 Kms. of low pressure network of PNG has been laid down.

Low Pressure MDPE Network has been laid in 18 Sectors which have potential of 31000 Dwelling units.

Around **6 CNG** Fuel Station are operational in Chandigarh.

PNG line has also been laid down in the parts of industrial area of Chandigarh.



Monitoring of DG Sets

Chandigarh Pollution Control Committee grants Consent to Diesel Generator Sets operational in Chandigarh. CPCC grants consents to only those generators those are acoustically enclosed and meeting the standards prescribed by CPCB/MoEF&CC. No DG Set is allowed to run beyond 15 years in Chandigarh.



Actions Taken

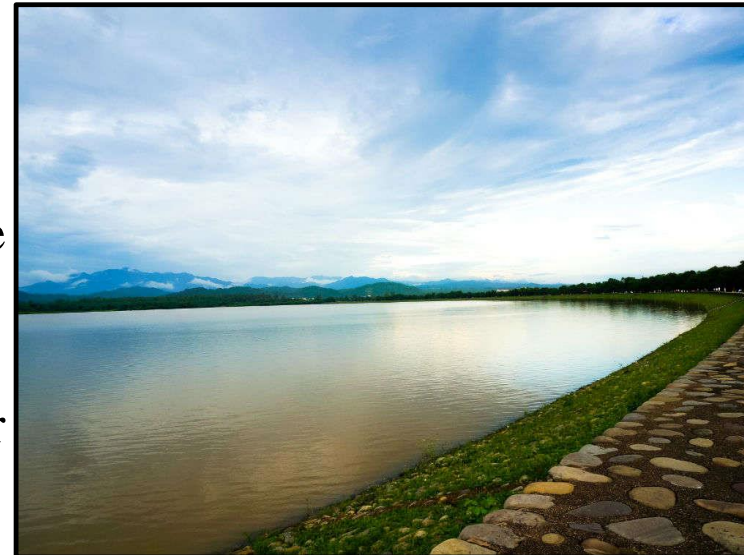
Complete **ban on the Biomass and Garbage Burning** in the U.T. of Chandigarh.

No industry is allowed to run **without Air Pollution Control Device** (if applicable).

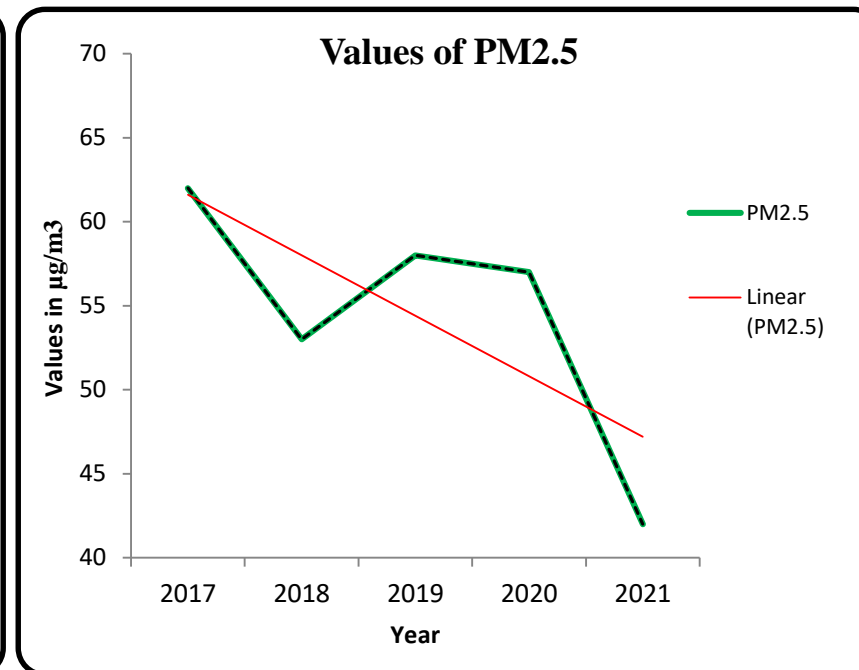
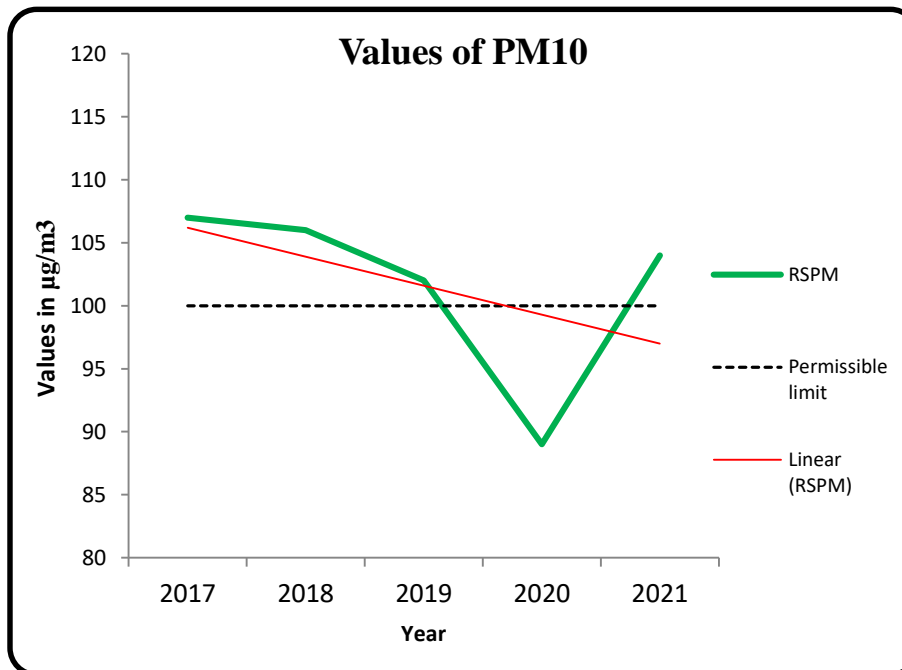
Chandigarh has prepared **Graded Response Action Plan**.

Outcomes

- Reducing particulate matter suspension into the atmosphere
- Reduce the carbon footprints.
- Help in achieving the targets set up under NCAP



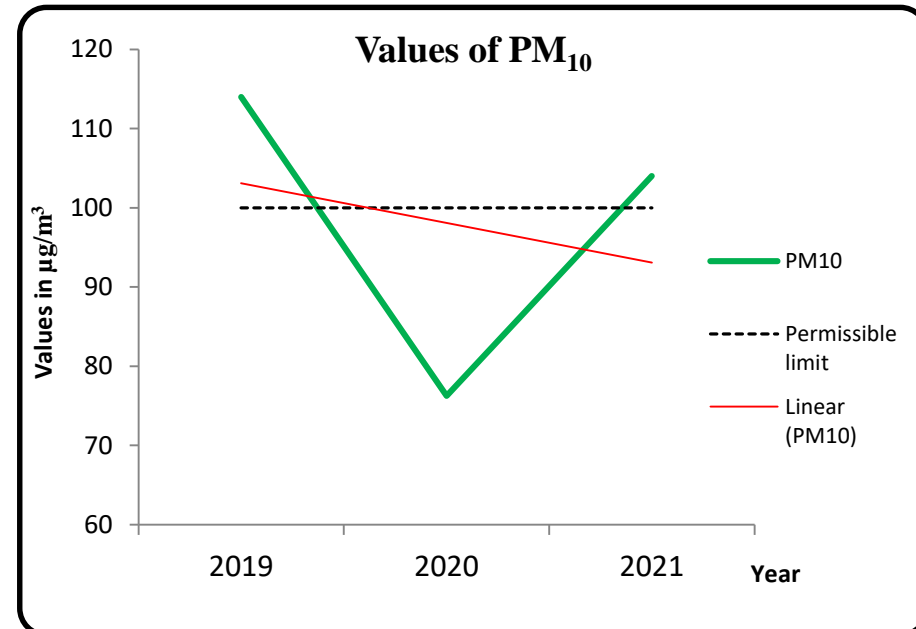
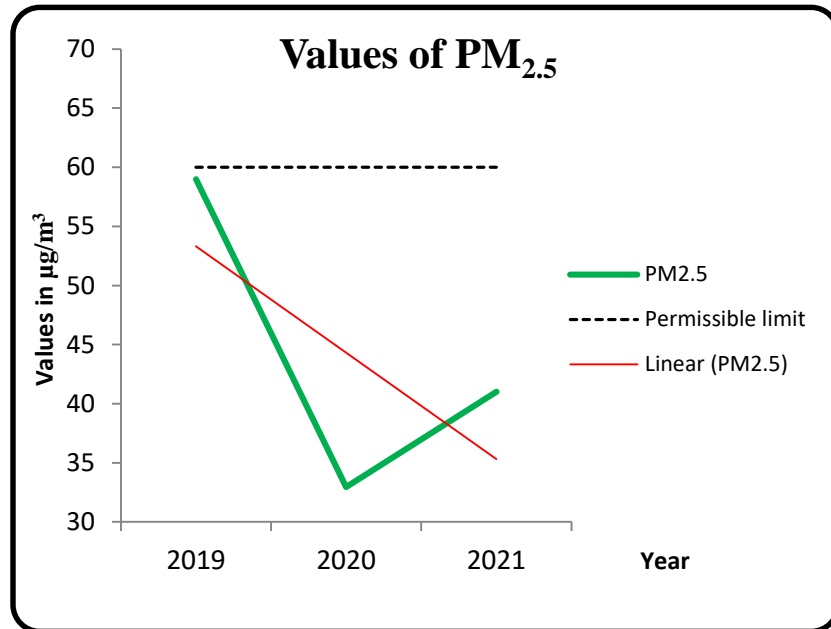
Outcomes of the Implementation of the Nation Clean Air Programme



Year Parameter	2017	2018	2019	2020	2021
PM ₁₀	107	106	102	89	104
PM _{2.5}	62	53	58	57	42



Outcomes of the implementation of the Nation Clean Air programme



Year \ Parameter	2019	2020	2021
PM ₁₀	114	76	104
PM _{2.5}	59	33	41



ANNEXURES

ANNEXURE 1: GREENING AND PAVING ACTIVITIES

CPCC has released 1.5 crores to Municipal Corporation Chandigarh (MCC) under National Clean Air Programme (NCAP) for the greening and paving activities in U.T. of Chandigarh.

MCC has planted small shrubs/plants along the road in many sectors with an aim to reduce air emissions generated out of vehicles pollution by acting as a barrier along the roads.



ANNEXURE-2

Activities being carried out in 2021-2022



Composting pits

Vertical Gardening



LET'S MAKE THE SKIES BLUE AGAIN



THANK YOU