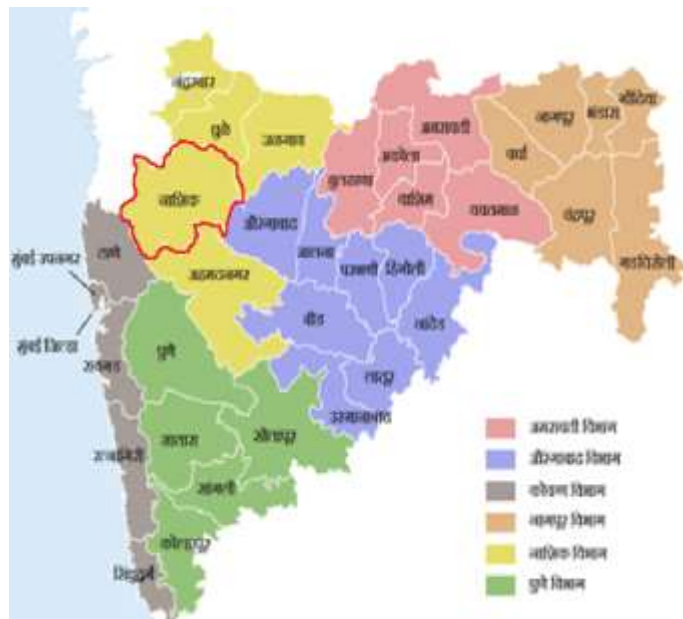




# R-2 Revised Action Plan for Industrial Cluster in Severally Polluted Areas

नासिक Nashik



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

July, 2020

## **A. PREAMBLE:**

In 2009, the Ministry of Environment & Forests (MoEF), Govt. of India in association with Central Pollution Control Board (CPCB), New Delhi and Indian Institute of Technology (IIT), New Delhi have carried out an environmental assessment of industrial clusters across the country named Comprehensive Environmental Pollution Index (CEPI) with the aim of identifying polluted industrial clusters & prioritizing planning needs for intervention to improve the quality of environment in these industrial clusters and the nation as a whole. For this, CPCB has selected 88 industrial clusters in country out of which 43 Nos. of industrial clusters in 16 states.

The industrial clusters/areas having aggregated CEPI scores of 70 and above were considered critically polluted clusters/areas and those with scores above 60 were classified as Severely Polluted; further detailed investigations were carried out in terms of the extent of environmental damage and formulation of appropriate remedial action plan.

Again in year 2017-2018 CPCB carried out monitoring and found that, number of identified polluted areas in country went upto 100. The said number included 38 Critically Polluted (CEPI Score above 70), 31 Severely Polluted (CEPI Score between 60-70) and remaining 31 as Other Polluted (CEPI Score below 60).

In identified 100 polluted areas Maharashtra having 9 Nos. of area namely Tarapur (CEPI Score 93.69), Chandrapur (CEPI Score 76.41), Aurangabad (CEPI Score 69.85), Dombivali (CEPI Score 69.67), Nashik (CEPI Score 69.49), Navi Mumbai (CEPI Score 66.32), Chembur (CEPI Score 54.67), Pimpri-Chinchwad (CEPI Score 52.15) & Mahad (CEPI Score 47.12).

Government of Maharashtra, under Chairmanship of Principal Secretary, Environment Department, GoM constituted State Level Committee and one local committee at Regional Officer level at each regions. Also Member Secretary of Board conducted several review meetings with all stakeholders at a regular interval to review the status of implementation of CEPI action plans.

Board has prepared comprehensive action plan for Nashik CEPI area (Satpur & Ambad MIDC), which help to reduce CEPI score below 60.

## **B. NASHIK:**

### **1. Area details including brief history (background information):**

Nashik is known for its picturesque surroundings and pleasant climate. The Godavari River flows through Nashik. Kumbmela is held in Nashik once in 12 years along with four other cities. Nashik is known for its participation in freedom struggle. Freedom fighter veer Savarkar and Anant Kanhere were born in Nashik is also known as Grape city as Grape is major fruit from Nashik and wine companies are growing in Nashik. Nashik is known for holiest city. Because of Godavari River, good precipitation and mountains, Nashik has pleasant climate. Apart from this, Nashik is also known for its industrial background. 'Nashik' is the 3<sup>rd</sup> largest industrial city of Maharashtra. Other important cities like Mumbai, Pune, Aurangabad and Jalgaon are well connected with this city. Gujarat State boarder is also near to Nashik district. Therefore industries in Nashik district have advantage to transport their materials to these nearby locations. Nashik Ambad, Nashik Satpur, Sinnar, Dindori, Peth and Vinchur are the names of these MIDC areas in Nashik district. District Industrial Centre (DIG) and Udyog Bhawan are also situated near to Nashik Satpur MIDC in Nashik city. Nashik Industries and Manufacturers' Association (NIMA), Ambad Industries and Manufacturers' Association (AIMA), Maharashtra Chamber of

Commerce, Industry & Agriculture (MACCIA) etc. are the names of active industrial associations in Nashik district. Nashik is also known for wine capital of India. Nashik district produces 75 percent wine out of total wine production in India. Vinchur in Nashik district has got recognition of wine cluster. Wine fest, pleasant atmosphere around the winery units, residential facility have given significant status to Nashik district. Establishment of Nashik Municipal Corporation was done in the year 1864. In this year, Nashik was became district of 13 Talukas. At present there are 15 Talukas in Nashik district, total population of Nashik district is 61,09,052 divided into 31,64,216 male population and 29,44,791 female population. Nashik City, Dindori, Peth, Kalvan, Surgana, Devla, Satana, Trimbakeshwar, Chandawad, Malegaon, Nandgaon, Niphad, Yeola, Igatpuri and Sinnar are the 15 Talukas of Nashik district. Nashik District is important avenue for agricultural produce for onion, rice, grapes, vegetables, flowers, and sugarcane. Export of Grapes, Flowers and Onions are done from Nashik district. Land utilized for cultivation is 56%. At present in Nashik district, entrepreneurs are giving preference to wine industry because of its growing profits. Nashik is wine capital of India. More than 30 wineries have been established in Nashik district.



Image-1: Tryambakeshwar



Image-2: Anjaneri, Nashik monsoon waterfall



Image-3: Goda Ghat Nashik



Image-4 Nashik city view from Pandav Leni

## 2. Demographics

Nashik is the fourth largest city in Maharashtra in terms of population after Mumbai, Pune and Nagpur. According to the Census of India, 2011, Nashik had a population of 1,486,053. Males constitute 782,517 of the population and females 703,536. Metropolitan Nashik



population was 1,561,809 in which 821,921 were males and 739,888 were females. Nashik city had an average literacy rate of 89.85%: male literacy was 93.40%, and female literacy was 85.92%.[19]

The sex ratio is 894 per 1,000 males for Nashik city. Child sex ratio is 865 girls per 1,000 boys. In Nashik, 11.42% of the population is under 6 years of age.[20] In census year 2001 the Nashik Urban Agglomeration had a population of 11,52,326. Thus it was the fourth largest urban area of Maharashtra State after Mumbai, Pune and Nagpur. The projected population of Nashik urban agglomeration (which includes abutting urban areas like Deolali) as on 11 November 2012 is 15,62,769.

**Table 1**  
**Population in Nashik (Year 2011)**

<b>Sr. No</b>	<b>Area</b>	<b>Population</b>		
		<b>female</b>	<b>Male</b>	<b>Total</b>
1	Nashik	703,536	782,517	1,486,053

### **3. Geographical Condition of Nashik District**

- a. Geographical Area :- Total Area 15530 Sq KM
- b. Area under Forestry 321000 Hectares
- c. Climate and Rainfall • Average Rainfall in district: 2600 MM
- d. Minimum Temperature: 4.60C
- e. Maximum Temperature: 40.10C
- f. Season Temperature
- g. Summer 13°C to 40°C
- h. Winter 04°C to 32°C
- i. Monsoon 18°C to 31°C

### **4. Satpur and Ambad Industrial Area:**

Being the centre of industrialization, Nashik has the natural gift of suitable atmosphere and ample water. The borders of Nashik district are touched to Dang of Gujrat state, Surat, Jalgaon, Dhule, Aurangabad, Nagar & Thane. Nashik District is fulfilled with the water of Godavari, Darana, Kadwa, Girana, Mosam, Damanganga & Vaitarana rivers. There are oil mills, rice mills & saw mills in Nashik district. Different small and cottage industries were also developed in this district. Nashik City area covers two industrial clusters namely; MIDC Satpur & MIDC Ambad and about 3500 industries including SSI, MSI,



and LSI are in operation. All these industries are basically Engineering industries and No chemical industries are in existence. Even, industries under 17 Category of polluted industry is not in existence. In MIDC Satpur & Ambad area all LSI & MSI industries have provided full fledged Effluent treatment and APC arrangements. Almost all SSI units except some electroplating units are having adequate treatment facility. Now, CETP is proposed for such units. Automobile Industries, foundry, engineering with surface coating activity are major industrial sectors in the area. Also some pharmaceutical formulation, plastic and rubber industries are in existence.

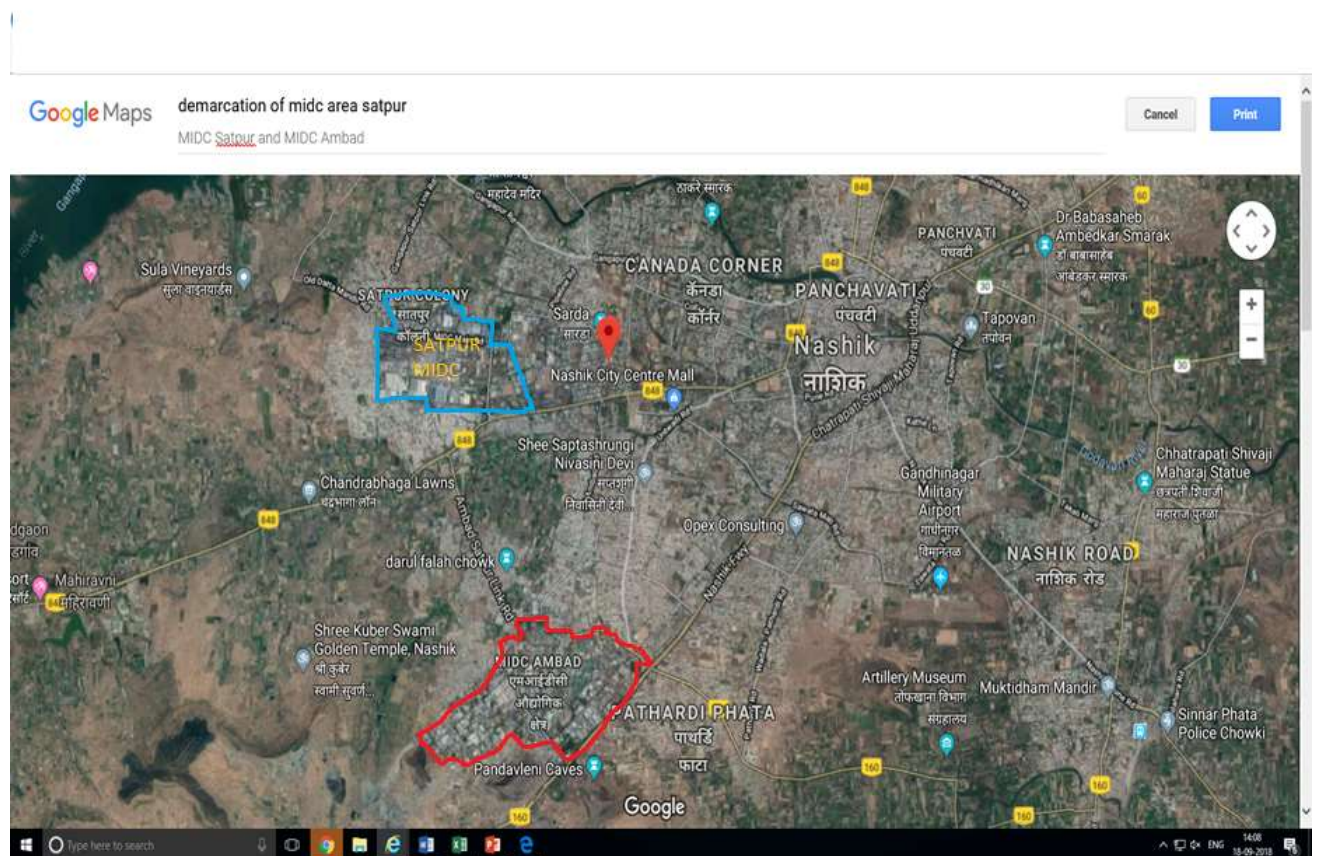


Image-5: MIDC Satpur and Ambad Aerial view-Google image

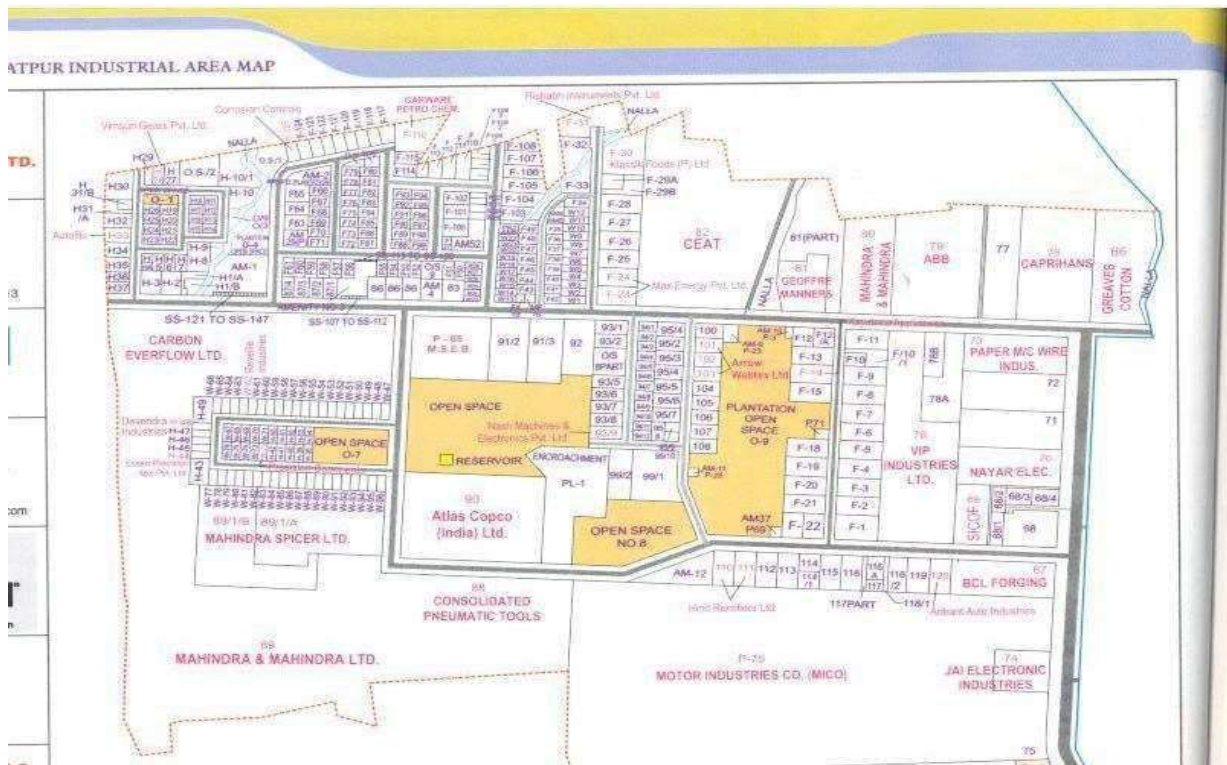
### **a. Satpur Industrial Estate:**

Satpur industrial area is located 7 km away from Nashik to the west. Establishment of Nashik Industrial Cooperative Estate (NICE) in 1962 is called as the revolution in industrial development of Nashik. The founders of the institute Late Babubhai Rathi, Late D.S. Potnis, Late Dadasaheb Andhrukarkar worked hard for the industrial development. State government selected Satpur as the centre for Maharashtra Industrial Development Corporation (MIDC) in 1962. MIDC, Maharashtra State Electricity Board (MSEB), Maharashtra State Finance Corporation (MSFC), Maharashtra Small Scale Industries Development Corporation (MSSIDC) worked & helped in the sectors of land, lease, licence, loan and load. MSEB started National Thermal Power Station (NTPS) at Eklahara near Nashik in 1965. To solve the problems of Big & Small industries Nashik Industrial Manufacturers Association (NIMA) was established in 1972. Nature has blessed good and healthy atmosphere to Nashik and hence NICE tried to bring the different industries such as MICO, Taparia, Blow-Plast, Mahindra, Crompton etc. in Nashik. NICE also tried for Electricity, water, roads, posts, Banks, Hospitals, Buildings, Shops etc. For the information of import and export policies the 'Information Technology Center' has been established. Now Nashik is not only religious city but it is also known as a well developed industrial centre. Satpur is fully developed and it has become

essential to find out other sectors for development. Hence MIDC developed Ambad in 1977. In this sector women are given special opportunities for industry. 'Software Technology Park' is being established by MIDC in this sector.

### MIDC SATPUR AREA-Map

Image-6







**Image-7: Boundary map of MIDC Satpur**

The initial boundary coordinates of the cluster boundary are as follows:

Table:2

Direction	Latitude	Longitude
East	19 <sup>0</sup> 59'57.22"N	73 <sup>0</sup> 42'42.52"E
West	19 <sup>0</sup> 51'51.75"N	73 <sup>0</sup> 45'03.83"E
North	20 <sup>0</sup> 00'35.95"N	73 <sup>0</sup> 43'37.46"E
South	19 <sup>0</sup> 59'22.88"N	73 <sup>0</sup> 43'44.45"E



**Image-7: Boundary map of MIDC Satpur 5Km Impact Zone**

## b. Ambad Industrial Estate:

Satur is fully developed and it has become essential to find out other sectors for development. Hence MIDC developed Ambad in 1977. In this sector women are given special opportunities for industry. 'Software Technology Park' is being established by MIDC in this sector. The central govt, established software technology park in Ambad in 2002. MIDC declared additional Industrial area at Ambad 5 Kms away from Satur, in 1978

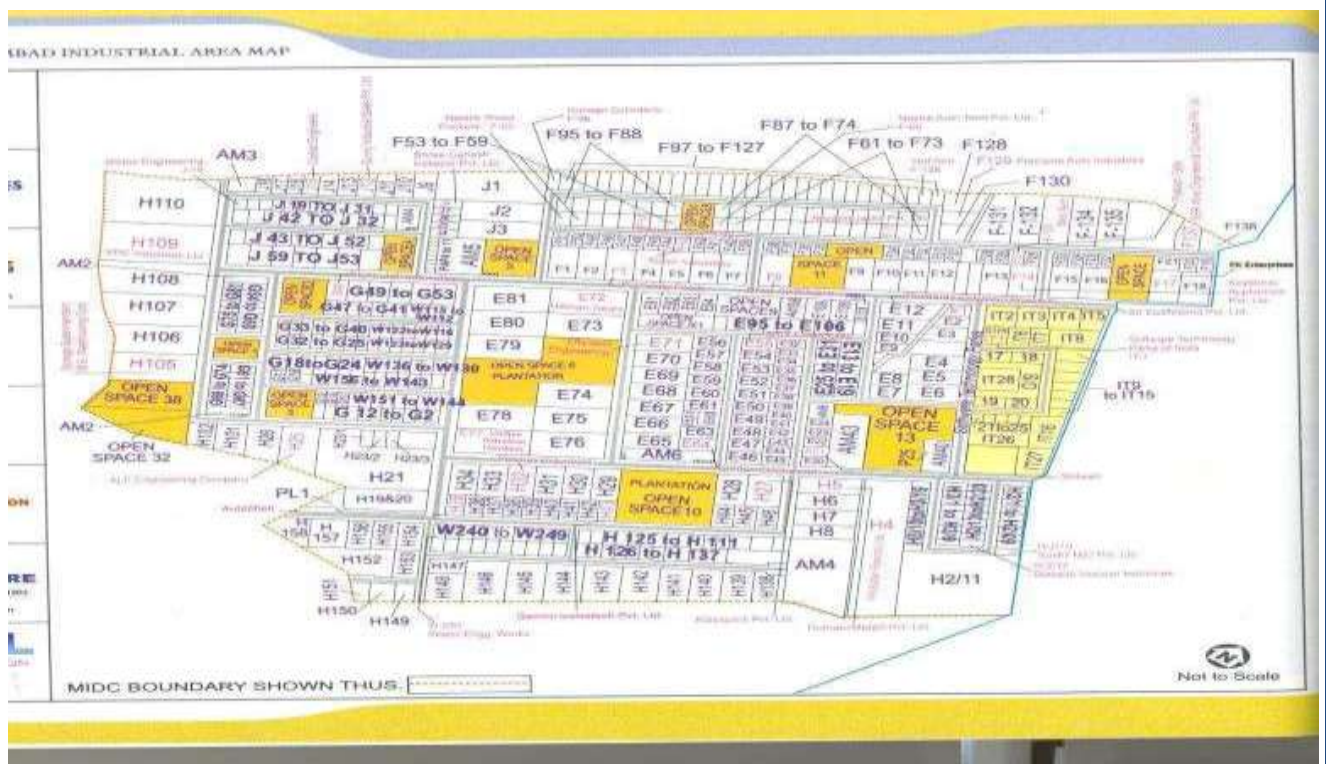


Image-8: MIDC Ambad map





Image-9: Boundary Demarcation of ambad MIDC -Google image

The initial boundary coordinates of the cluster boundary are as follows:

Table-3

Direction	Latitude	Longitude
East	19°56'24.23"N	73°42'33.89"E
West	19°57'25.14"N	73°45'30.61"E
North	19°58'6.81"N	73°44'7.72"E
South	19°56'10.54"N	73°44'5.86"E



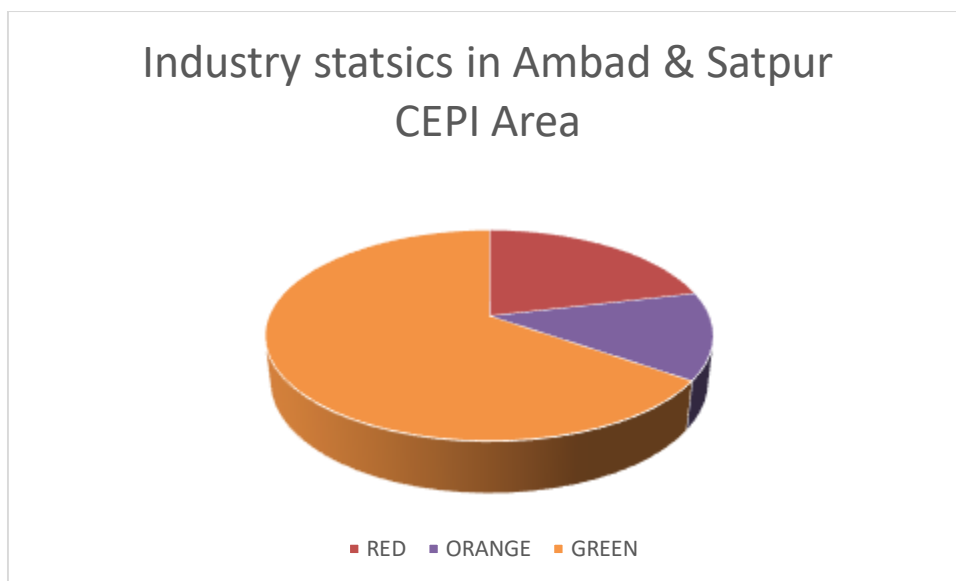
Also, a 5 km Impact zone has been demarcated from the edge of the cluster as shown in the maps below:



Image-9:- 5 Km Impact Zone form core zone of ambad MIDC

## 5. INDUSTRIES IN THE SATPU & AMBAD INDUSTRIAL CLUSTER 17 – CATEGORY:

Sale/ Category	RED	ORANGE	GREEN	Total
Large	44	19	5	68
Medium	28	24	16	68
Small	320	203	1181	1704
Total	392	246	1202	1840



17 category Industries		
	In operation (Unit)	Closed (Unit)
	Nil	

## 6. Ambient Air Quality Monitoring carried out by M.P.C.Board:

M.P.C.Board has carried out ambient air quality monitoring under NAMP & SAMP at various location at Nashik are as below,

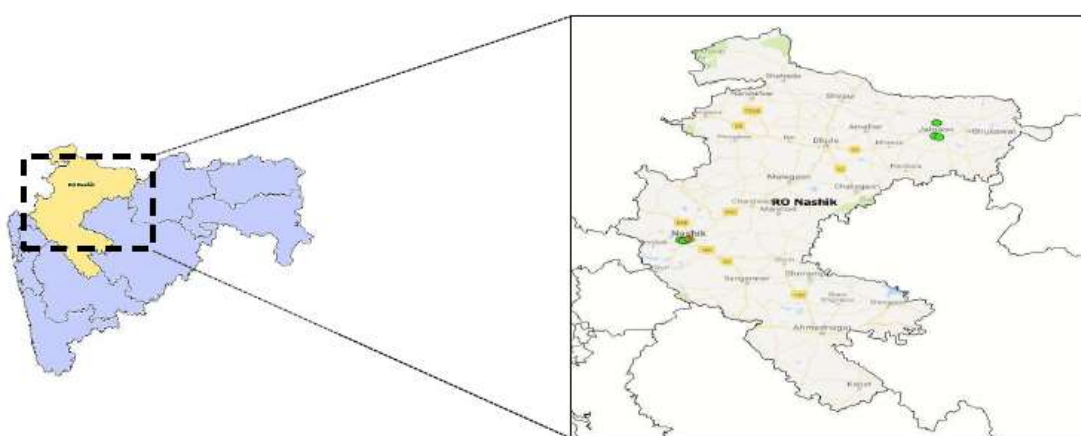


Image-10-: Ambient air quality monitored by MPCB at Nashik

Table : Location of AAQ monitored at Nashik by Borad

Nashik	259	RTO Colony	NAMP	19° 59' 49.038"N	73° 46'35.58"E
Nashik	269	MIDC Satpur - VIP	NAMP	19° 59' 54.37"N	73° 43'41.07"E
Nashik	280	NMC Nashik	NAMP	20° 0' 10.53"N	73° 47'20.22"E
Nashik	710	SRO Office Nashik	NAMP	19° 59' 33.20"N	73° 45'0.75"E
Nashik		Nashik CAAQMS	CAAQMS	20° 00'26.51"N	73° 46' 42.56"E

## 7. Water Quality Monitoring carried out by M.P.C.Board:

M.P.C.Board has carried out water quality monitoring under MINAR/NWMP/SWMP at various location at Nashik are as below,

Sr. No	Location name	Latitude	Longitude
1	Godavari river at U/s of Gangapur Dam, Village Gangapur, Taluka- Nashik, District- Nashik.	20°02.400 ’	20°02.400 ’
2	Godavari river at Ramkund, Village- Panchavati, Taluka Nashik, District- Nashik.	20°00.482’	20°00.482’
3	Godavari river at D/s of Nashik near Amardham, Village GadgebabaMaharaj Nagar, Taluka - Nashik, District Nashik.	20°00.109’	20°00.109’
4	Godavari river near Someshwar Temple, Village Someshwar, Taluka- Nashik, District- Nashik.	20°01.391’	20°01.391’
5	Chikhali nallah meets Godavari river, Village- Chikhali, Taluka- Nashik, District- Nashik.	20°01.022’	20°01.022’
6	Godavari river at Hanuman Ghat, Village- Nashik city,	20°00.546’	20°00.546’

	Taluka- Nashik, District- Nashik.		
7	Godavari river at Tapovan, Village- Tapovan, Taluka Nashik, District- Nashik.	20°00.007'	20°00.007'
8	Bore well at MSW Site, Village-Pathardi ,Taluka- Nashik,District- Nashik.	19°55.386'	73°44.433'
9	Dug well of Mr.Sampat Walunj, near M/s Mahajeet Clayton, Village- Shinde village, Taluka- Nashik, District- Nashik.	19°55.302'	73°54.154'

## 9. MONITORING STATIONS SELECTED BY CPCB: SURFACE WATER, GROUND WATER & AIR QUALITY:

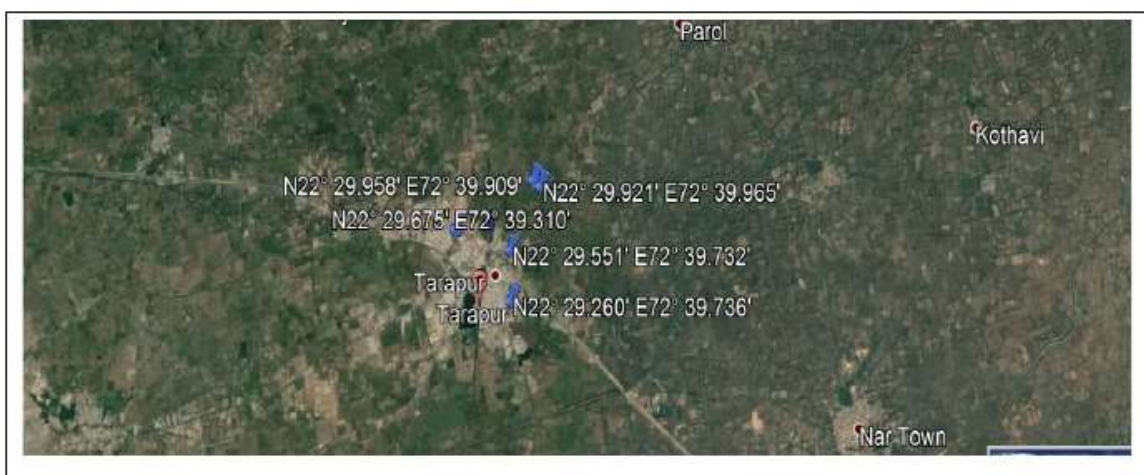
### i. Air Quality Monitoring Station:



<u>Sr. No.</u>	<u>Location Name</u>	<u>Latitude</u>	<u>Longitude</u>
A-1	Vir Electro Engineering Pvt, Ltd, MIDC Ambad	19°56'46.93"N	73°44'20.95"E
A-2	Mahindra CIF Automatic Ltd, MIDC Ambad	19°57'51.39"N	73°44'20.59"E
A-3	ISO Volta India Pvt. Ltd, MIDC Ambad	19°57'36.53"N	73°44'15.04"E
A-4	Sudal Industries Ltd, MIDC Ambad	19°56'56.35"N	73°44'56.76"E
A-5	Mahindra & Mahindra Ltd., Trimbak Road, Satpur	19°59'45.43"N	73°42'58.65"E
A-6	MSL Drive Line System Ltd., MIDC Satpur	19°59'52.14"N	73°43'0.39"E
A-7	AATCO food Ltd, NICE area, MIDC Parijat Naga	20° 0'7.22"N	73°44'30.67"E
A-8	Graphite India Ltd, MIDC Ambad Satpur	20° 0'3.65"N	73°43'0.97"E



ii. **Surface Water Monitoring Station:**

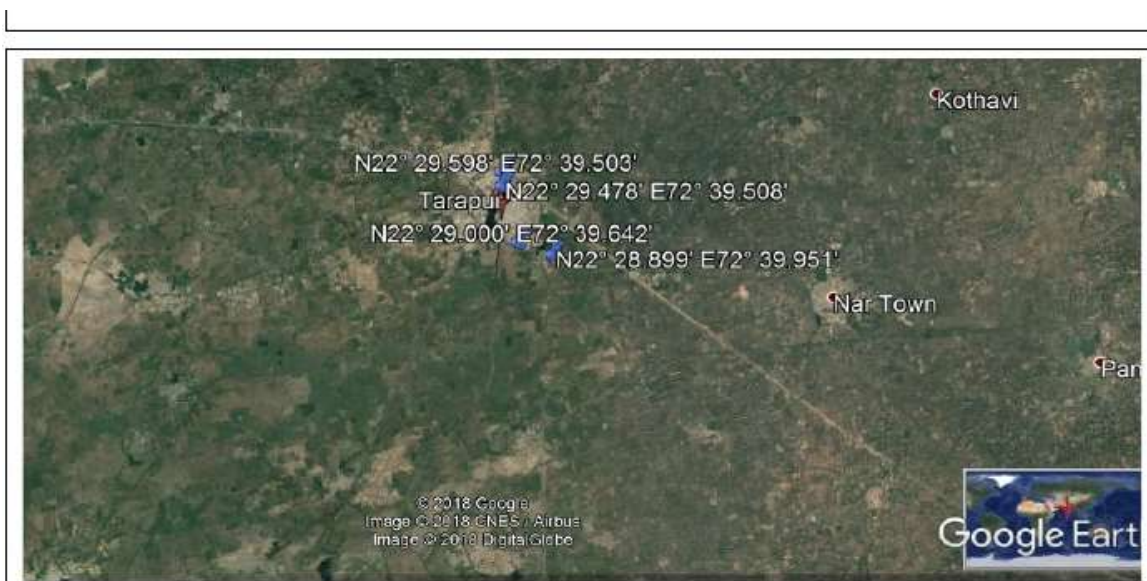


<b><u>Sr. No.</u></b>	<b><u>Location Name</u></b>	<b><u>Latitude</u></b>	<b><u>Longitude</u></b>
SW-1	Bore well water, Hotel Tapovan , Ambad MIDC Near Garware point Nashik	N 19.943786°	N 19.943786°
SW-2	Well water, Shivaji Kacaru Chavan Vilholi Ambad Nashik	N 19.957531°	E 73.754512°
SW-3	Borewell water, Mr. Dashrat Pandit Nikam, Mauli Chowk , Dutta Nagar MIDC	N 19.95724°	E 73.721306°
SW-4	Well Water, Pancharatna farm ,Maratu Sankul , Dutta Nagar , Nashik	N 19.951402°	E 73.728858°
SW-5	Well Water, Mr. Govind Vithoba Shirsat, MIDC Ambad Nashik	N 19.953115°	E 73.73896°
SW-6	Bore well water, Mr. Satish Shuklal lad , Ambad Village MIDC Nashik	N 19.960835°	E 73.75232°
SW-7	Borewell water, Ramesh Ramchandra Kole , Satpur Nashik	N 20.004212°	E 73.717875°
SW-8	Bore well water, Seva Developers pvt ltd Satpur Nashik	N 20.002942°	E 73.715537°
SW-9	Well water, Sevaji Nagar Satpur Nashik	N 20.013084°	E 73.708799°
SW-10	Well water, Shradha Farm House Satpur Nashik	N 19.990166°	E 73.799068°
SW-11	Bore well water, Amit Dilip Yadav, Gansh Nagar Satpur Nashik	N 20.005745°	E 73.738003°



SW-12	Bore well water, Virshab Industries Vanvihar Colony , Satpur Nashik	N 20.003164°	E 73.750641°
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iii. **Ground Water Monitoring Station:**



<b><u>Sr. No.</u></b>	<b><u>Location Name</u></b>	<b><u>Latitude</u></b>	<b><u>Longitude</u></b>
GW-1	Sahid Arun Chitte Pool, Gangapur Rd. Anandvali, Satpur ,Nashik	N 20.025886°	E 73.725815°
GW-2	Nasardi Bridge , Near NIMA Bhavan Satpur Nashik	N 19.986754°	E 73.801205°

## Comprehensive Environmental Pollution Index As per CPCB Monitoring 2017-2018:

CPCB in 2017-2018 carried out monitoring of Nashik for Ambad & Satpur MIDC area. The detailed CEPI score is as below,

Sr. No	Industrial Area	Air	Water	Land	CEPI Score	Rank
1	Nashik	56.50	60.00	42.00	69.49	41

Revised CEPI is comprised of the following components:

Component A	Scale of industrial activity	20 Marks
Component B	Status of Ambient ENV. Quality (Air/SW/GW)	50 Marks
Component C	Health related Statistics	10 Marks
Component D	Compliance of	20 Marks

**a) Air Score:**

- Ambient Air Quality Parameter considered for CEPI calculation: PM<sub>10</sub>, PM<sub>2.5</sub> & BaP.
- Sub Score (A+B+C+D)= (12+39.5+0+5)=56.50

**b) Water Score (Surface Water):**

- Surface Water Parameter considered for CEPI calculation : TN, T. Hardness & Total Phosphate
- Sub Score (A+B+C+D)= (10+35+10+5)=60

**c) Land Score (Ground Water):**

- Ground Water Parameter considered for CEPI calculation : Total Hardness, TN, Iron
- Sub Score (A+B+C+D)= (6+21+10+5)=42

## 10. IMPLEMENTATION OF SHORT TERM AND LONG TERM ACTION PLAN:

With the implementation of long term and short term plan, the impact on Environment pollution have decreased which is visible from the decrease in the CEPI score of the region. Summary of action implementation are given below:

Sr. No.	Action Points (including source & mitigation measures)	Responsible Stake Holders	Present status
1.	Regular Vigilances and timely actions.	MPCB	MPCB has continuously keeping Vigilances on the industrial sector and timely action is taken on defaulters.
2.	Up gradation in existing ETPs	Individual Industries MPCB	Complied. All Large and medium unit of Satpur MIDC and Ambad MIDC has upgraded ETP.
3.	Installation of CETP	MIDC	CETP has obtained EC and tendering work is in final stage
4.	To Promote Multi fuel Boilers –(Use of white coal / Bio fuels etc.)	Individual Industries	MPCB has continuously taking follows for Promote Multi fuel Boilers
5.	Improvement in O & M of the existing pollution control systems.	Individual Industries & MPCB	Complied. All Large and medium unit of Satpur MIDC and Ambad MIDC has improvement in O & M of the existing arrangements.
6.	MIDC-Underground Drainage System for Industrial Area	MIDC/NIMA	CETP has obtained EC and tendering work is in final stage. MIDC & NIMA undertake work.

7.	Use of solar street lights in Industrial area	MIDC/NMC	Presently electrical street lights in Industrial area provided.
8.	Continuous Ambient Air Quality Monitoring Station for both Industrial Zones	MPCB	Presently 1 CAAQMS station installed in Nashik city.
9.	Development of Green Belt on existing open reserved plots in industrial Area and along with the road sides in MIDC area.	Individual Industries & MIDC	Garden department of NMC planted around 11000 trees under AMRUT in 2019-20. "DEVRAI" project executed to plant and maintain the local trees like Pipal and others. 50,000 Trees planted at cost of Rs 6.5 crore, under NDTL 5000 tree plantation in 2 months, Devrai 5000 tree plantation within 4 months, 2000 Bel tree plantation in 1 month, AMRUT 4500 trees to be planted in 2 months.

## **11. EFFORTS TAKEN FOR POLLUTION REDUCTION:**

### **1. Water Environment**

- Encouraging use of waste water obtained from domestic activities i.e. sullage is treated & recycle for toilet flushing & gardening, reducing fresh water requirement by 60%.
- Encouraging rain water collection & using same for non consumptive purpose.
- Mandating both Rain water harvesting & Sullage Recycle for new large complexes.
- Plantation of trees on hilly slopes on a warfutting.
- Educating Industries about water conservation by conducting water audits & Implementing the recycle & Reuse method of water.
- Optimize use of water through recycling.
- Avoiding the discharge of untreated effluents entering the surface water bodies.
- Modifying sewage treatment plants.
- Discouraging mass bathing in the holy river in order to reduce pollution.
- Prohibition of immersing chemicals painted idols in water bodies.
- The eco-friendly and economical red bed system for treatment and recycle of industrial effluent, sewage sullage also provides a solution to increasing problems of pollution & water scarcity.
- NMC has envisaged and is in process to collect and treat more than 95% of total sewage generated in city within next 2 years. Currently, NMC collects and treat 126 MLD of sewage collected through its existing sewerage system. Treatment capacity is likely to be increased in very near future to cater almost 100% sewage generated in the city. Lying of storm water drainage is also underway. Besides, the city sanitation plan being developed by the NMC will positively affect the NMC's vision of keeping the city green and clean.
- Awareness program shall be continued for the community residing alongside the River Godavari to prevent & protect the river pollution.

## **2. Air Environment**

- NMC has satisfactory road infrastructure, however, to execute ongoing projects like lying of sewerage and storm water drainage, some of the roads has been excavated and undergoing repair. All efforts will be made by the NMC to prevent dust pollution in the vicinity of those roads. Besides, NMC, as per its routine, constructs new pakka road and maintains the existing pakka road to prevent dust pollution likely to arise from such roads in windy weather.
- PUC check-up in NMC area to made mandatory in coordination with Regional Transport Officer (RTO).
- Comprehensive Air Quality Monitoring of Nashik Region in coordination with MPCB

## **3. Land Environment**

- NMC has adequate infrastructure to process municipal solid waste generated in its jurisdiction but improvement needs to be done towards operation . Besides, it has acquired adequate land to deal with future requirements. NMC produces compost through its compost processing plant which enhances the essential nutrient content in soil.
- Awareness program shall be launched in relatively comprehensive way for the community to practice segregation at source so as to minimize quantity of waste likely to consume the place in the sanitary landfill.

## **4. Green Belt Development:**

- Conservation of green belts.
- Improvements of Footpaths.
- Developments of Tree plantation on the road side in order to increase beauty.
- Periodic manicure of tree planted on roads.
- Prohibition of Spiting, peeing & throwing waste on the roads.
- Improvement of Traffic island & junctions.
- Awareness to citizens to keep city clean through slogans, messages, media etc.
- Maintenance of public utility buildings and Monuments.
- Increase in number of parks & play grounds for public use.
- Total use of open land for green belt development,



- Arranging the seminar/awareness programme at school & collage levels.

## **5. Municipal Solid Waste Management**

- Segregation of solid wastes into biodegradable and non-biodegradable components in order to undertake composting efficiently.
- Creating more awareness in public for minimizing wastes, non-usage of polythene bags, plastic bags.
- Prohibition on throwing wastes on roadside or in public places.
- Increase in number of mobile garbage collection vehicles, normally cundas places.
- Modernizing method of trash collection.
- Increasing the awareness programme in local people for effective segregation at the source.
- Upgrading the existing MSW Treatment Facilities and Enhance the proposed site for MSW Treatment Technically.

## **Carrying out CEPI Monitoring as per CPCB direction dtd.26/04/2016:**

As per CPCB direction dtd.26/04/2016 Board has selected third party agency (laboratory) recognized under Environmental (Protection) Act, 1986 and accredited under NABL through E-tendering for 3-year Post-monsoon season & Pre-monsoon Season monitoring. The monitoring data with CEPI score were communicated to CPCB and uploaded on public domain. The monitoring score are as below,

Below are the CEPI score from 2017 to Feb 2019 Carried by Board through third party as per CPCB direction:

	Air Index	Water Index	Land Index	CEPI
<b>CEPI score Feb 2019</b>	35.5	42.7	38.5	46.1
<b>CEPI score June 2018</b>	39	31	41.3	46.8
<b>CEPI score February 2018</b>	26.98	31.81	30.1	33.96
<b>CEPI score June 2017</b>	38.8	31.4	31.15	44.78
<b>CEPI score February 2017</b>	48	43.5	42	57.5

## **12. PROPOSED ACTION PLANS FOR 2019 – 2020:**

1. CEPI area for Nashik including MIDC Satpur & Ambad
2. In the Application No. 1038/2018, directions are given by Hon'ble NGT regarding CEPI score for Aurangabad is 69.49 as its rank is 41 as Severally Polluted Industrial Area (SPAs).
3. MPCB with all stakeholders prepared time bound action plan to improve CEPI score as an below,

Sr · N o	Points	Outcomes	Time Target	Concerned Stakeholder
1	To complete the construction and commissioning	The DPR of CETP sent to Govt. for approval: CETP before March 2020	1 year	MIDC and CETP Association.
2	Mechanism to be developed for reduction of CEPI score	Measures for reduction in pollution -	Coming monsoon	Industry/MIDC/N MC
		a) Enhancement in green belt from 33% to 40%.		
		b) Encouragement to switchover to clean cleaner fuel from existing fuel coal.	1 Year	Industry
		c) Permissible limit for TPM to be reduced from 150 ppm to 50 ppm.	1 Year	MPCB & Industry
		d) Zero liquid discharged to be achieved by major polluting units.	1 Year	MPCB & Industry
		e) Action against polluting industries & imposing environmental compensation.	3 Months	MPCB
3	Pollution control measures in	a) Inspection & monitoring of air polluting industries to assess the	3 Months	MPCB & Industry

	MIDC area	compliance status for adequacy of APC system.		
		b) Repair & maintenance of approach & internal roads of industrial area.	6 Months	MIDC & Local Body (Aurangabad Municipal Corporation)
4	MIDC-Underground Drainage System for Industrial Area	MIDC and Municipal Corporation Nashik provide Underground Drainage System for Industrial Area	1 year	MIDC/NMC
5	Development of Green Belt on existing open reserved plots in industrial Area and along with the road sides in MIDC area.	To carry-out the Development of Green Belt on existing open reserved plots in industrial Area and along with the road sides in MIDC area.	Coming monsoon	MIDC/NMC/industry
6	Treatment of sewage generating in MIDC	Municipal Cooperation Nashik for transfer the fund for installation of STP in MIDC area and according MIDC shall construct the STP in MIDC area.	1 Year	MIDC and NMC.
7	100% treatment of sewage effluent generating form city	NMC shall ensure to 100% treatment of sewage effluent generating form city	Continuous	Nashik Municipal Corporation
8	Pollution control measures in MIDC area	Repair & maintenance of approach & internal roads of industrial area.	6 Month	MIDC & Local Body
9	Traffic management in the area	To submit data for traffic management and enforce to discard the old vehicles as per RTO rule	3 month	Regional transport Officer, Nashik
10	CEMS installed for Air and	RO Nashik shall confirm the installation of the CEMS and its	6 Month	MPCB and Industry

	Water in Large and Medium scale RED category industries.	calibration and connectivity		
11	Installation of treatment facility waste water generated from major Hotels, Laundries, Vehicle Service centre, major Marriage Hall and major residential complex	All major Hotels, Laundries, Vehicle Service centre, major Marriage Hall and major residential complex shall Installation of treatment facility waste water generated	6 Month	NMC/MPCB
13	Ban on Biomass burning on open land  (This action point is incorporated in City level action plan under NCAP also sperate follw-up as per Hon'ble NGT order in OA No. 606/2018)	<ol style="list-style-type: none"> <li>1. Launch extensive drive against open burning of bio-mass, crop residue, garbage, leaves, etc.</li> <li>2. Ensure segregation of waste at source</li> <li>3. Regular collection of municipal solid wastes.</li> <li>4. Regular check and control of burning of Municipal Solid waste</li> <li>5. Providing Organic Waste Compost machines, decentralization of processing of Waste,</li> </ol>	Continuo us process	Nashik Municipal Corporation

		<p>dry waste collection centers.</p> <p>6. MPCB already issued direction on 29/08/2019 to Municipal Corporation for complete prohibition on open burning and for violation imposed Environmental Compensation.</p>		
14	Installation of additional 2 nos. CAAQMS of	Installation of Additional 2 CAAQMS within Nashik city at Divisional Commissioner office and Guru Gobind Singh Engineering College	6 Months	MPCB
15	Studying Carrying capacity of Nashik MIDC area	M. P. C. Board is in process to carrying study with coordination of NEERI for further planning of pollution control in Nashik CEPI area.	18 Month	MPCB/NEERI
16	Restoration of polluted water bodies. (Rejuvenation of water bodies and polluted stretches in the country.	1. Environment Dept., Maharashtra Government issued G.R. vide No. NGT 2018/PC-2/TC-3 dtd.13.12.2018. regarding	--	--



	(O.A.No.673/ 20 18)	constitution of River Rejuvenation Committee (RRC).  2. Board has prepared separate action plan for Godavari river and its connected river separately & Submitted to CPCB.		
17	NWMP monitoring stations on Godavari River	Sampling is done monthly under NWMP	Continuo us Monthly activity	MPCB
18	Assessment of probable contaminated site at MIDC Tarapur	M.P.C.Board has undertaken study with coordination of NEERI	1 year	MPCB/NEERI

## **Conclusion:**

State Level Monitoring Committee, under Chairmanship of Principal Secretary, Environment Department constituted vide GR dtd. 31/12/1018.

Till date M.P.C.Board under Chairmanship of Member Secretary conducted various reviews meeting with all stakeholders for effective implementation of action plan and constituted monitoring team at respective Regional Officer for visit.

Also Hon'ble Principle Secretary, Environment Department , GoM and Hon'ble Chief Secretary, GoM has conducted time to time meeting to review progress.

The proposed action plan is comprehensive and each activity under Air, Water and land considered for achieving environmental standards and will help to reduce Air CEPI score below 60. The all stakeholders like MIDC authority, Industrial associations, District administrator and Local body contribution for implementation of action plan will help to achieve reduction of CEPI score.