

Interim assessment of CEPI-2011

(Using same criteria pollutants as considered by IIT Delhi in 2009)

S.N	Name of State (no. of CPAs)	Name of Area / Cluster	Parameter	EPI/ CEPI as per latest monitoring data (2011) with same criteria pollutants as considered by IIT Delhi
1	Gujarat (6)	Vapi	Air	76.50
			Water	79.50
			Land	71.75
			Overall	90.75
		Bhavnagar	Air	55.25
			Water	40.50
Land	61.00			
Overall	69.73			
Junagarh	Air	58.25		
	Water	40.00		
	Land	57.50		
	Overall	67.85		
Ankleshwar	Air	74.00		
	Water	72.75		
	Land	68.75		
	Overall	85.75		
Ahmedabad	Air	64.25		
	Water	64.00		
	Land	60.50		
	Overall	78.09		
Vatva	Air	67.25		
	Water	80.00		
	Land	55.50		
	Overall	87.46		
2	Uttar Pradesh (6)	Ghaziabad	Air	65.75
			Water	72.25
			Land	48.75
			Overall	81.14
Agra	Air	82.25		
	Water	69.50		
	Land	49.50		
Overall	88.36			
Varanasi- Mirzapur	Air	49.50		
	Water	50.00		
	Land	65.00		
Overall	73.66			
		Noida	Air	73.00

			Water Land Overall	65.00 45.00 80.90
		Singrauli	Air Water Land Overall	68.00 76.00 66.00 86.77
		Kanpur	Air Water Land Overall	81.00 68.00 60.50 88.82
3	Haryana (2)	Panipat	Air Water Land Overall	57.75 64.00 45.50 73.46
		Faridabad	Air Water Land Overall	51.50 67.25 42.50 74.42
4	Orissa(3)	Angul-Talcher	Air Water Land Overall	78.75 83.50 48.00 89.74
		Jharsuguda	Air Water Land Overall	58.00 48.00 47.00 67.48
		Ib Valley	Air Water Land Overall	50.50 50.50 60.00 65.68
5	Maharashtra (5)	Chandrapur	Air Water Land Overall	72.25 47.00 75.50 83.82
		Aurangabad	Air Water Land Overall	73.75 70.50 50.50 83.10
		Navi Mumbai	Air Water Land Overall	70.00 66.00 43.00 78.51
		Tarapur	Air Water Land Overall	79.75 63.00 43.00 85.24

		Dombivalli	Air Water Land Overall	76.25 79.50 58.50 88.64
6	Tamil Nadu (4)	Cuddalore	Air Water Land Overall	43.00 50.00 72.50 78.41
		Coimbatore	Air Water Land Overall	46.38 35.00 41.50 54.16
		North Arcot/ Vellore	Air Water Land Overall	76.75 71.50 48.00 84.73
		Manali	Air Water Land Overall	78.50 67.50 71.50 88.88
7	Kerala (1)	Greater Kochi	Air Water Land Overall	48.00 42.00 43.00 57.39
8	Andhra Pradesh (1)	Patancheru- Bollaram	Air Water Land Overall	41.00 68.75 45.50 74.58
		Vishakhapatnam	Air Water Land Overall	48.00 42.00 43.00 57.39
9	Punjab (2)	Mandi Gobindgarh	Air Water Land Overall	58.00 67.00 63.00 79.06
		Ludhiana	Air Water Land Overall	64.00 50.00 51.25 73.23
10	Madhya Pradesh (1)	Indore	Air Water Land Overall	50.50 68.00 43.00 74.95
11	Karnataka (2)	Bhadravathi	Air Water	54.38 34.50

			Land Overall	52.50 62.64
		Mangalore	Air Water Land Overall	65.75 57.75 41.00 73.86
12	West Bengal(3)	Howrah	Air Water Land Overall	62.50 63.00 74.00 84.24
		Haldia	Air Water Land Overall	65.75 70.50 47.50 79.71
		Asansole	Air Water Land Overall	64.38 43.00 43.00 70.96
13	Jharkhand (1)	Dhanbad	Air Water Land Overall	50.50 47.00 74.00 80.17
14	Chhattisgarh (1)	Korba	Air Water Land Overall	77.50 50.50 47.00 82.84
15	Rajasthan(3)	Bhiwadi	Air Water Land Overall	71.75 46.00 46.00 77.73
		Jodhpur	Air Water Land Overall	55.75 50.50 69.00 77.73
		Pali	Air Water Land Overall	57.75 75.50 69.00 85.26
16	Delhi	Nazafgarh basin	Air Water Land Overall	59.38 --- 43.50 ---

Note:

The above exercise is an interim assessment based on the first round of monitoring carried out jointly by CPCB and SPCBs. The calculation of CEPI is a dynamic process; therefore, final assessment of CEPI will be done after implementation of long term action plans.

SUMMARY STATUS

No. of areas where CEPI score is 70 above (Critically Polluted)	34
No. of areas where CEPI score is between 60-70 (Severally Polluted)	05
No. of areas where CEPI score is below 60 (Polluted)	03

AIR

EPIs of various Industrial areas/ clusters for AIR ENVIRONMENT

SN	Industrial Cluster/Area	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D	AIR EPI
1	Agra (Uttar Pradesh)	6.00	5.00	30.00	7.50	3.00	3.00	13.50	5.00	4.75	5.00	28.75	10.00	82.25
2	Ahmedabad (Gujarat)	5.75	5.00	28.75	7.50	3.00	3.00	13.50	3.00	4.00	0.00	12.00	10.00	64.25
3	Angul Talcher (Orissa)	5.75	5.00	28.75	4.00	3.00	3.00	10.00	5.00	4.00	5.00	25.00	15.00	78.75
4	Ankleshwar (Gujarat)	5.50	5.00	27.50	7.50	6.00	6.00	19.50	3.00	4.00	5.00	17.00	10.00	74.00
5	Asansole (West Bengal)	5.75	2.50	14.38	4.00	3.00	3.00	10.00	5.00	4.00	5.00	25.00	15.00	64.38
6	Aurangabad (Maharashtra)	5.75	5.00	28.75	4.00	3.00	3.00	10.00	5.00	4.00	5.00	25.00	10.00	73.75
7	Bhadravati (Karnataka)	5.75	2.50	14.38	4.00	3.00	3.00	10.00	5.00	4.00	0.00	20.00	10.00	54.38
8	Bhavnagar (Gujarat)	5.50	2.50	13.75	7.75	0.00	0.00	7.75	5.00	4.75	0.00	23.75	10.00	55.25
9	Bhiwadi (Rajasthan)	5.75	5.00	28.75	8.00	0.00	0.00	8.00	5.00	5.00	0.00	25.00	10.00	71.75
10	Chandrapur (Maharashtra)	5.75	5.00	28.75	7.50	3.00	3.00	13.50	5.00	4.00	0.00	20.00	10.00	72.25
11	Coimbatore (Tamil Nadu)	5.75	2.50	14.38	7.00	0.00	3.00	10.00	3.00	4.00	0.00	12.00	10.00	46.38
12	Cochin Greater (Kerala)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.00	5.00	10.00	15.00	48.00
13	Cuddalore (Tamilnadu)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.00	5.00	10.00	10.00	43.00
14	Dhanbad (Jharkhand)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.50	5.00	12.50	15.00	50.50
15	Dombivalli (Maharashtra)	6.00	5.00	30.00	7.50	0.00	0.00	7.50	5.00	4.75	0.00	23.75	15.00	76.25
16	Faridabad (Haryana)	6.00	5.00	30.00	4.00	0.00	0.00	4.00	5.00	1.50	0.00	7.50	10.00	51.50
17	Ghaziabad (Uttar Pradesh)	3.00	5.00	15.00	4.00	0.00	3.00	7.00	5.00	4.75	5.00	28.75	15.00	65.75
18	Haldia (West Bengal)	5.75	5.00	28.75	4.00	0.00	3.00	7.00	5.00	4.00	0.00	20.00	10.00	65.75

SN	Industrial Cluster/Area	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D	AIR EPI
19	Howrah (West Bengal)	3.00	5.00	15.00	4.00	3.00	3.00	10.00	5.00	4.50	5.00	27.50	10.00	62.50
20	Indore (Madhya Pradesh)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.50	5.00	12.50	15.00	50.50
21	Ib Valley (Orissa)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.50	5.00	12.50	15.00	50.50
22	Jharsuguda (Orissa)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	3.00	5.00	20.00	15.00	58.00
23	Jodhpur (Rajasthan)	3.00	5.00	15.00	3.00	3.00	3.00	9.00	5.00	4.75	3.00	26.75	5.00	55.75
24	Junagarh (Gujarat)	5.75	5.00	28.75	7.50	0.00	0.00	7.50	3.00	4.00	0.00	12.00	10.00	58.25
25	Kanpur (Uttar Pradesh)	6.00	5.00	30.00	8.00	0.00	3.00	11.00	5.00	5.00	0.00	25.00	15.00	81.00
26	Korba (Chhatisgarh)	5.50	5.00	27.50	4.00	3.00	3.00	10.00	5.00	4.00	5.00	25.00	15.00	77.50
27	Ludhiana (Punjab)	6.00	5.00	30.00	4.00	0.00	0.00	4.00	5.00	4.00	0.00	20.00	10.00	64.00
28	Manali (Tamilnadu)	5.50	5.00	27.50	7.50	3.00	3.00	13.50	5.00	4.50	0.00	22.50	15.00	78.50
29	Mandi Gobind Garh (Punjab)	3.00	5.00	15.00	7.00	3.00	6.00	16.00	3.00	4.00	5.00	17.00	10.00	58.00
30	Mangalore (Karnataka)	5.75	5.00	28.75	4.00	3.00	3.00	10.00	3.00	4.00	0.00	12.00	15.00	65.75
31	Navi Mumbai (Maharashtra)	6.00	5.00	30.00	7.50	0.00	0.00	7.50	5.00	4.50	0.00	22.50	10.00	70.00
32	Nazafgarh drain basin (including Anand Parvat, Naraina, Okhla and Wazirpur), Delhi	5.75	2.50	14.38	7.50	0.00	0.00	7.50	5.00	4.50	5.00	27.50	10.00	59.38
33	Noida (Uttar Pradesh)	6.00	5.00	30.00	7.50	0.00	3.00	10.50	5.00	4.50	0.00	22.50	10.00	73.00
34	Pali (Rajasthan)	3.00	5.00	15.00	4.00	0.00	0.00	4.00	5.00	4.75	5.00	28.75	10.00	57.75
35	Panipat (Haryana)	5.75	5.00	28.75	4.00	0.00	0.00	4.00	5.00	3.00	0.00	15.00	10.00	57.75
36	Patancheru- -Bollaram (Andhra Pradesh)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.00	3.00	8.00	10.00	41.00
37	Singrauli (Uttar Pradesh)	3.00	5.00	15.00	4.00	3.00	6.00	13.00	5.00	4.00	5.00	25.00	15.00	68.00
38	Tarapur (Maharashtra)	5.50	5.00	27.50	7.50	3.00	3.00	13.50	5.00	4.75	5.00	28.75	10.00	79.75

SN	Industrial Cluster/Area	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D	AIR EPI
39	Vapi (Gujarat)	5.75	5.00	28.75	8.00	3.00	3.00	14.00	5.00	4.75	0.00	23.75	10.00	76.50
40	Varansi-Mirzapur (Uttar Pradesh)	6.00	5.00	30.00	2.00	0.00	0.00	2.00	5.00	1.50	0.00	7.50	10.00	49.50
41	Vatva (Gujarat)	3.00	5.00	15.00	7.50	3.00	3.00	13.50	5.00	4.75	5.00	28.75	10.00	67.25
42	Vellore (North Arcot) (Tamilnadu)	5.75	5.00	28.75	4.00	6.00	3.00	13.00	5.00	4.00	5.00	25.00	10.00	76.75
43	Visakhapatnam (Andhra Pradesh)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	3.00	0.00	15.00	10.00	48.00

CEPI (Air Environment) = A+B+C+D

A (Pollutant Score) = A1 x A2; where, A1: Presence of Toxin; A2: Scale of industrial activities

B (Pathway Score) = B1+B2+B3; where, B1: Pollutant Concentration B2: Impact on people; B3: Impact on Eco-geological feature

C (Receptor Score) = C1xC2+C3; where, C1: Potentially affected population; C2: Level of exposure; C3: Risk to sensitive receptors

D= Additional High Risk Element

WATER

CEPIs of various Industrial areas/ clusters for Surface Water

SN	Industrial Cluster/Area	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D	WATER EPI
1	Agra (Uttar Pradesh)	5.50	5.00	27.50	4.00	0.00	3.00	7.00	5.00	4.00	5.00	25.00	10.00	69.50
2	Ahmedabad (Gujarat)	3.00	5.00	15.00	8.00	3.00	3.00	14.00	3.00	5.00	5.00	20.00	15.00	64.00
3	Angul Talcher (Orissa)	5.50	5.00	27.50	7.50	3.00	3.00	13.50	5.00	4.50	5.00	27.50	15.00	83.50
4	Ankleshwar (Gujarat)	5.75	5.00	28.75	8.00	3.00	3.00	14.00	3.00	5.00	5.00	20.00	10.00	72.75
5	Asansole (West Bengal)	3.00	2.50	7.50	2.00	3.00	3.00	8.00	5.00	1.50	5.00	12.50	15.00	43.00
6	Aurangabad (Maharashtra)	5.50	5.00	27.50	7.00	3.00	3.00	13.00	5.00	4.00	5.00	25.00	5.00	70.50
7	Bhadravati (Karnataka)	3.00	2.50	7.50	1.00	3.00	3.00	7.00	5.00	1.00	5.00	10.00	10.00	34.50
8	Bhavnagar (Gujarat)	3.00	2.50	7.50	2.00	3.00	3.00	8.00	5.00	1.00	5.00	10.00	15.00	40.50
9	Bhiwadi (Rajasthan)	No surface water source available. As such Water EPI considered same as Land EPI i.e., 46.00												
10	Chandrapur (Maharashtra)	3.00	5.00	15.00	1.00	3.00	3.00	7.00	5.00	1.00	5.00	10.00	15.00	47.00
11	Coimbatore (Tamil Nadu)	3.00	2.50	7.50	2.00	3.00	3.00	8.00	3.00	1.50	5.00	9.50	10.00	35.00
12	Cochin, Greater (Kerala)	3.00	5.00	15.00	1.00	3.00	3.00	7.00	5.00	1.00	5.00	10.00	10.00	42.00
13	Cuddalore (Tamilnadu)	3.00	5.00	15.00	1.00	6.00	3.00	10.00	5.00	1.00	5.00	10.00	15.00	50.00
14	Dhanbad (Jharkhand)	3.00	5.00	15.00	1.00	3.00	3.00	7.00	5.00	1.00	5.00	10.00	15.00	47.00
15	Dombivalli (Maharashtra)	6.00	5.00	30.00	7.75	0.00	3.00	10.75	5.00	4.75	5.00	28.75	10.00	79.50
16	Faridabad (Haryana)	3.00	5.00	15.00	7.50	3.00	3.00	13.50	5.00	4.75	5.00	28.75	10.00	67.25
17	Ghaziabad (Uttar Pradesh)	5.75	5.00	28.75	7.50	3.00	3.00	13.50	5.00	4.00	0.00	20.00	10.00	72.25
18	Haldia (West Bengal)	6.00	5.00	30.00	7.50	0.00	3.00	10.50	5.00	4.00	0.00	20.00	10.00	70.50

SN	Industrial Cluster/Area	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D	WATER EPI
19	Howrah (West Bengal)	3.00	5.00	15.00	4.00	6.00	3.00	13.00	5.00	3.00	5.00	20.00	15.00	63.00
20	Indore (Madhya Pradesh)	3.00	5.00	15.00	7.00	3.00	3.00	13.00	5.00	4.00	5.00	25.00	15.00	68.00
21	Ib Valley (Orissa)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.50	5.00	12.50	15.00	50.50
22	Jharsuguda (Orissa)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.00	5.00	10.00	15.00	48.00
23	Jodhpur (Rajasthan)	5.50	5.00	27.50	2.00	3.00	3.00	8.00	5.00	1.00	0.00	5.00	10.00	50.50
24	Junagarh (Gujarat)	3.00	5.00	15.00	1.00	3.00	3.00	7.00	3.00	1.00	0.00	3.00	15.00	40.00
25	Kanpur (Uttar Pradesh)	3.00	5.00	15.00	7.50	0.00	3.00	10.50	5.00	4.50	5.00	27.50	15.00	68.00
26	Korba (Chhatisgarh)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.50	5.00	12.50	15.00	50.50
27	Ludhiana (Punjab)	5.50	5.00	27.50	2.00	0.00	3.00	5.00	5.00	1.50	0.00	7.50	10.00	50.00
28	Manali (Tamilnadu)	3.00	5.00	15.00	7.75	3.00	3.00	13.75	5.00	4.75	5.00	28.75	10.00	67.50
29	Mandi Gobind Garh (Punjab)	3.00	5.00	15.00	8.00	3.00	6.00	17.00	3.00	5.00	5.00	20.00	15.00	67.00
30	Mangalore (Karnataka)	5.75	5.00	28.75	7.00	0.00	0.00	7.00	3.00	4.00	0.00	12.00	10.00	57.75
31	Navi Mumbai (Maharashtra)	3.00	5.00	15.00	7.50	3.00	3.00	13.50	5.00	4.50	5.00	27.50	10.00	66.00
32	Nazafgarh drain basin (including Anand Parvat, Naraina, Okhla and Wazirpur), Delhi	Surface water not monitored.												
33	Noida (Uttar Pradesh)	3.00	5.00	15.00	4.00	3.00	3.00	10.00	5.00	4.00	5.00	25.00	15.00	65.00
34	Pali (Rajasthan)	5.50	5.00	27.50	7.00	3.00	3.00	13.00	5.00	4.00	0.00	20.00	15.00	75.50
35	Panipat (Haryana)	5.50	5.00	27.50	3.00	3.00	3.00	9.00	5.00	2.50	5.00	17.50	10.00	64.00
36	Patancheru- -Bollaram (Andhra Pradesh)	3.00	5.00	15.00	7.75	3.00	3.00	13.75	5.00	5.00	5.00	30.00	10.00	68.75
37	Singrauli (Uttar Pradesh)	5.50	5.00	27.50	7.50	3.00	3.00	13.50	5.00	3.00	5.00	20.00	15.00	76.00

SN	Industrial Cluster/Area	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D	WATER EPI
38	Tarapur (Maharashtra)	3.00	5.00	15.00	7.50	0.00	3.00	10.50	5.00	4.50	0.00	22.50	15.00	63.00
39	Vapi (Gujarat)	5.50	5.00	27.50	8.00	3.00	6.00	17.00	5.00	5.00	0.00	25.00	10.00	79.50
40	Varansi-Mirzapur (Uttar Pradesh)	5.50	5.00	27.50	2.00	0.00	3.00	5.00	5.00	1.50	0.00	7.50	10.00	50.00
41	Vatva (Gujarat)	3.00	5.00	15.00	8.00	6.00	6.00	20.00	5.00	5.00	5.00	30.00	15.00	80.00
42	Vellore (North Arcot) (Tamilnadu)	3.00	5.00	15.00	7.50	6.00	3.00	16.50	5.00	4.00	5.00	25.00	15.00	71.50
43	Vishakhapatnam (AndhraPradesh)	3.00	5.00	15.00	1.00	3.00	3.00	7.00	5.00	1.00	5.00	10.00	10.00	42.00

CEPI (Water Environment) = A+B+C+D

A (Pollutant Score) = A1 x A2; where, A1: Presence of Toxin; A2: Scale of industrial activities

B (Pathway Score) = B1+B2+B3; where, B1: Pollutant Concentration B2: Impact on people; B3: Impact on Eco-geological feature

C (Receptor Score) = C1xC2+C3; where, C1: Potentially affected population; C2: Level of exposure; C3: Risk to sensitive receptors

D= Additional High Risk Element

LAND

CEPIs of various Industrial areas/ clusters for Land (Soil & Groundwater)

SN	Industrial Cluster/Area	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D	LAND EPI
1	Agra (Uttar Pradesh)	5.50	5.00	27.50	2.00	0.00	0.00	2.00	5.00	1.00	5.00	10.00	10.00	49.50
2	Ahmedabad (Gujarat)	3.00	5.00	15.00	7.50	3.00	3.00	13.50	3.00	4.00	5.00	17.00	15.00	60.50
3	Angul Talcher (Orissa)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.00	5.00	10.00	15.00	48.00
4	Ankleshwar (Gujarat)	5.75	5.00	28.75	4.00	3.00	6.00	13.00	3.00	4.00	5.00	17.00	10.00	68.75
5	Asansole (West Bengal)	3.00	2.50	7.50	2.00	3.00	3.00	8.00	5.00	1.50	5.00	12.50	15.00	43.00
6	Aurangabad (Maharashtra)	5.50	5.00	27.50	2.00	3.00	3.00	8.00	5.00	1.00	5.00	10.00	5.00	50.50
7	Bhadravati (Karnataka)	3.00	2.50	7.50	4.00	3.00	3.00	10.00	5.00	4.00	5.00	25.00	10.00	52.50
8	Bhavnagar (Gujarat)	3.00	2.50	7.50	7.50	3.00	3.00	13.50	5.00	4.00	5.00	25.00	15.00	61.00
9	Bhiwadi (Rajasthan)	3.00	5.00	15.00	2.00	3.00	6.00	11.00	5.00	1.00	0.00	5.00	15.00	46.00
10	Chandrapur (Maharashtra)	5.50	5.00	27.50	4.00	3.00	6.00	13.00	5.00	3.00	5.00	20.00	15.00	75.50
11	Coimbatore (Tamil Nadu)	3.00	2.50	7.50	4.00	0.00	3.00	7.00	3.00	4.00	5.00	17.00	10.00	41.50
12	Cochin, Greater (Kerala)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.00	5.00	10.00	10.00	43.00
13	Cuddalore (Tamilnadu)	5.50	5.00	27.50	4.00	3.00	3.00	10.00	5.00	3.00	5.00	20.00	15.00	72.50
14	Dhanbad (Jharkhand)	3.00	5.00	15.00	7.50	3.00	6.00	16.50	5.00	4.50	5.00	27.50	15.00	74.00
15	Dombivalli (Maharashtra)	3.00	5.00	15.00	4.00	1.50	3.00	8.50	5.00	4.00	5.00	25.00	10.00	58.50
16	Faridabad (Haryana)	3.00	5.00	15.00	4.00	3.00	3.00	10.00	5.00	1.50	0.00	7.50	10.00	42.50
17	Ghaziabad (Uttar Pradesh)	5.75	5.00	28.75	2.00	0.00	3.00	5.00	5.00	1.00	0.00	5.00	10.00	48.75

SN	Industrial Cluster/Area	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D	LAND EPI
18	Haldia (West Bengal)	5.50	5.00	27.50	2.00	0.00	3.00	5.00	5.00	1.00	0.00	5.00	10.00	47.50
19	Howrah (West Bengal)	3.00	5.00	15.00	8.00	3.00	3.00	14.00	5.00	5.00	5.00	30.00	15.00	74.00
20	Indore (Madhya Pradesh)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.00	5.00	10.00	10.00	43.00
21	Ib Valley (Orissa)	3.00	5.00	15.00	4.00	3.00	3.00	10.00	5.00	3.00	5.00	20.00	15.00	60.00
22	Jharsuguda (Orissa)	3.00	5.00	15.00	1.00	3.00	3.00	7.00	5.00	1.00	5.00	10.00	15.00	47.00
23	Jodhpur (Rajasthan)	3.00	5.00	15.00	8.00	3.00	3.00	14.00	5.00	5.00	5.00	30.00	10.00	69.00
24	Junagarh (Gujarat)	3.00	5.00	15.00	7.50	0.00	3.00	10.50	3.00	4.00	5.00	17.00	15.00	57.50
25	Kanpur (Uttar Pradesh)	3.00	5.00	15.00	7.50	0.00	3.00	10.50	5.00	4.00	0.00	20.00	15.00	60.50
26	Korba (Chhatisgarh)	3.00	5.00	15.00	1.00	3.00	3.00	7.00	5.00	1.00	5.00	10.00	15.00	47.00
27	Ludhiana (Punjab)	5.75	5.00	28.75	2.00	0.00	3.00	5.00	5.00	1.50	0.00	7.50	10.00	51.25
28	Manali (Tamilnadu)	3.00	5.00	15.00	8.00	3.00	3.00	14.00	5.00	4.50	5.00	27.50	15.00	71.50
29	Mandi Gobind Garh (Punjab)	5.50	5.00	27.50	2.00	3.00	6.00	11.00	3.00	1.50	5.00	9.50	15.00	63.00
30	Mangalore (Karnataka)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	3.00	1.00	5.00	8.00	10.00	41.00
31	Navi Mumbai (Maharashtra)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.00	5.00	10.00	10.00	43.00
32	Nazafgarh drain basin (including Anand Parvat, Naraina, Okhla and Wazirpur), Delhi	3.00	2.50	7.50	2.00	3.00	6.00	11.00	5.00	1.00	5.00	10.00	15.00	43.50
33	Noida (Uttar Pradesh)	3.00	5.00	15.00	2.00	0.00	3.00	5.00	5.00	1.00	5.00	10.00	15.00	45.00
34	Pali (Rajasthan)	3.00	5.00	15.00	8.00	3.00	3.00	14.00	5.00	5.00	0.00	25.00	15.00	69.00
35	Panipat (Haryana)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.50	5.00	12.50	10.00	45.50
36	Patancheru- -Bollaram (Andhra Pradesh)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.50	5.00	12.50	10.00	45.50

SN	Industrial Cluster/Area	A1	A2	A	B1	B2	B3	B	C1	C2	C3	C	D	LAND EPI
37	Singrauli (Uttar Pradesh)	5.50	5.00	27.50	2.00	3.00	6.00	11.00	5.00	1.50	5.00	12.50	15.00	66.00
38	Tarapur (Maharashtra)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.00	0.00	5.00	15.00	43.00
39	Vapi (Gujarat)	5.75	5.00	28.75	4.00	3.00	6.00	13.00	5.00	4.00	0.00	20.00	10.00	71.75
40	Varansi-Mirzapur (Uttar Pradesh)	5.50	5.00	27.50	7.50	0.00	0.00	7.50	5.00	4.00	0.00	20.00	10.00	65.00
41	Vatva (Gujarat)	3.00	5.00	15.00	7.50	0.00	3.00	10.50	5.00	4.00	0.00	20.00	10.00	55.50
42	Vellore (North Arcot) (Tamilnadu)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.00	5.00	10.00	15.00	48.00
43	Vishakhapatnam (AndhraPradesh)	3.00	5.00	15.00	2.00	3.00	3.00	8.00	5.00	1.00	5.00	10.00	10.00	43.00

CEPI (Land Environnent) = A+B+C+D

A (Pollutant Score) = A1 x A2; where, A1: Presence of Toxin; A2: Scale of industrial activities

B (Pathway Score) = B1+B2+B3; where, B1: Pollutant Concentration B2: Impact on people; B3: Impact on Eco-geological feature

C (Receptor Score) = C1xC2+C3; where, C1: Potentially affected population; C2: Level of exposure; C3: Risk to sensitive receptors

D= Additional High Risk Element

The CEPI scores for critically polluted industrial Areas/ Clusters (2011)

[On the basis of same criteria pollutants as considered earlier by IIT Delhi in 2009]

S. No.	Industrial Cluster/Area	AIR EPI	WATER EPI	LAND EPI	Overall CEPI
1.	Agra (Uttar Pradesh)	82.25	69.50	49.50	88.36
2.	Ahmedabad (Gujarat)	64.25	64.00	60.50	78.09
3.	Angul Talcher (Orissa)	78.75	83.50	48.00	89.74
4.	Ankleshwar (Gujarat)	74.00	72.75	68.75	85.75
5.	Asansole (West Bengal)	64.38	43.00	43.00	70.96
6.	Aurangabad (Maharashtra)	73.75	70.50	50.50	83.10
7.	Bhadravati (Karnataka)	54.38	34.50	52.50	62.64
8.	Bhavnagar (Gujarat)	55.25	40.50	61.00	69.73
9.	Bhiwadi (Rajasthan)	71.75	46.00	46.00	77.73
10.	Chandrapur (Maharashtra)	72.25	47.00	75.50	83.82
11.	Coimbatore (Tamil Nadu)	46.38	35.00	41.50	54.16
12.	Cochin, Greater (Kerala)	48.00	42.00	43.00	57.39
13.	Cuddalore (Tamilnadu)	43.00	50.00	72.50	78.41
14.	Dhanbad (Jharkhand)	50.50	47.00	74.00	80.17
15.	Dombivalli (Maharashtra)	76.25	79.50	58.50	88.64
16.	Faridabad (Haryana)	51.50	67.25	42.50	74.42
17.	Ghaziabad (Uttar Pradesh)	65.75	72.25	48.75	81.14
18.	Haldia (West Bengal)	65.75	70.50	47.50	79.71
19.	Howrah (West Bengal)	62.50	63.00	74.00	84.24
20.	Indore (Madhya Pradesh)	50.50	68.00	43.00	74.95
21.	Ib Valley (Orissa)	50.50	50.50	60.00	65.68
22.	Jharsuguda (Orissa)	58.00	48.00	47.00	67.48
23.	Jodhpur (Rajasthan)	55.75	50.50	69.00	77.73
24.	Junagarh (Gujarat)	58.25	40.00	57.50	67.85

25.	Kanpur (Uttar Pradesh)	81.00	68.00	60.50	88.82
26.	Korba (Chhatisgarh)	77.50	50.50	47.00	82.84
27.	Ludhiana (Punjab)	64.00	50.00	51.25	73.23
28.	Manali (Tamilnadu)	78.50	67.50	71.50	88.88
29.	Mandi Gobind Garh (Punjab)	58.00	67.00	63.00	79.06
30.	Mangalore (Karnataka)	65.75	57.75	41.00	73.86
31.	Navi Mumbai (Maharashtra)	70.00	66.00	43.00	78.51
32.	Nazafgarh drain basin (including Anand Parvat, Naraina, Okhla and Wazirpur), Delhi	59.38	--	43.50	--
33.	Noida (Uttar Pradesh)	73.00	65.00	45.00	80.90
34.	Pali (Rajasthan)	57.75	75.50	69.00	85.26
35.	Panipat (Haryana)	57.75	64.00	45.50	73.46
36.	Patancheru- -Bollaram (Andhra Pradesh)	41.00	68.75	45.50	74.58
37.	Singrauli (Uttar Pradesh)	68.00	76.00	66.00	86.77
38.	Tarapur (Maharashtra)	79.75	63.00	43.00	85.24
39.	Vapi (Gujarat)	76.50	79.50	71.75	90.75
40.	Varansi-Mirzapur (Uttar Pradesh)	49.50	50.00	65.00	73.66
41.	Vatva (Gujarat)	67.25	80.00	55.50	87.46
42.	Vellore (North Arcot) (Tamilnadu)	76.75	71.50	48.00	84.73
43.	Vishakhapatnam (Andhra Pradesh)	48.00	42.00	43.00	57.39