

COMPREHENSIVE ENVIRONMENT POLLUTION ABATEMENT

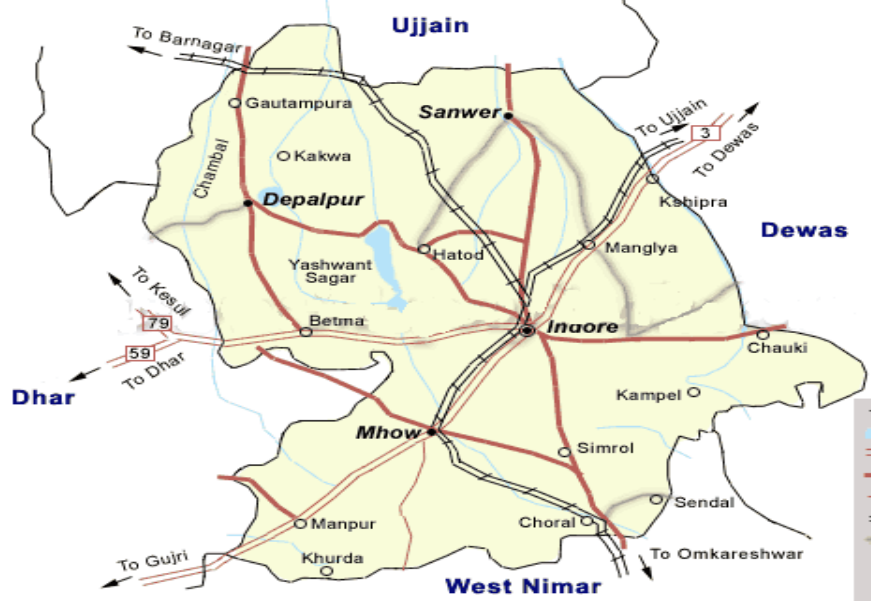
ACTION PLAN

For

CRITICALLY POLLUTED AREA

INDORE

**Indore
(Madhya Pradesh)**



M. P. POLLUTION CONTROL BOARD

ACTION PLAN FOR CRITICALLY POLLUTED INDUSTRIAL AREAS/CLUSTERS OF INDORE

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LIST OF ABBREVIATIONS USED

MOEF	Ministry of Environment & Forest
CPCB	Central Pollution Control Board
MPPCB	Madhya Pradesh State Pollution Control Board
CEPI	Comprehensive Environmental Pollution Index
IDA	Indore Development Authority
RTO	Regional Transport Authority
NHAI	National Highway Authority of India
MCI	Municipal Corporation Indore
AKVN	Audhyogik Kendra vikas nigam
PHED	Public Health Engineering Department
HWTSDf	Hazardous Waste Treatment Storage and Disposal Facility
MSW	Municipal Solid Waste
BMW	Bio Medical Waste
ETP	Effluent Treatment Plant
STP	Sewerage Treatment Plant
CETP	Common Effluent Treatment Plant
CNG	Compressed Natural Gas
BOD	Bio Chemical Oxygen Demand
COD	Chemical Oxygen Demand
ET	Equalization tank
RT	Reaction tank
PST	Primary Settling Tank
AT	Aeration Tank
SST	Secondary Settling Tank
SDB	Sludge Drying Bed
PSF	Pressure Sand Filter
ACF	Activated Carbon Filter
RO	Reverse Osmosis
O&G	Oil & Grease,

INTRODUCTION

1. INTRODUCTION

1.1.1 Area Details including brief history (background information)

Govt. of India ministry of Environment & forest vide their office memorandum dated 15th march 2010 has identified boundaries of critically polluted industrial clusters/area of Indore (Madhya Pradesh) which are as follows:-

- **Indore city**
- **Sanwer road Industrial areas/clusters**
- - **Shivaji nagar Industrial areas/clusters**
- - **Polo ground Industrial areas/clusters**
- - **Laxmibai nagar Industrial areas/clusters**
- - **Sch. No. 71 Industrial areas/clusters**
- - **Navlakha Industrial areas/clusters**
- - **Pipaya rao Industrial areas/clusters**
- - **Palda Industrial areas/clusters**
- - **Rau Industrial areas/clusters**
- **Mangliya Industrial areas/clusters**
- **Rajoda Industrial areas/clusters**
- **Barlai Industrial areas/clusters**
- **Asrawad Industrial areas/clusters**
- **Tejpur Gadbadi Industrial areas/clusters**

Indore city

Indore city is the largest city in Madhya Pradesh state in central India and is situated on the Malwa plateau at an altitude of 553 m above sea level, on the banks of two small rivulets-the Saraswati and the Khan. They unite at the centre of the city where a small 18th century Temple of Sangamnath or Indreshwar exists. The name Indore is due to this deity. The population of Indore is 15.06 lakhs as 2001 census and present population is around 20 lakhs. It is the commercial capital of the state of Madhya Pradesh. Indore city presents a happy blend of historical past and promises of rapid future modernization. Indore is well linked by roads, railways and airways to the rest of the country. The city lies on the

Western Railway line and is connected with all major cities of India. The NH-3 (Agra-Mumbai) passes through the city. The city is connected by Air with its Airport (Devi Ahilya airport) located in the western part of the city. The soil profile found here mainly consists of typical black clay soil having depth of 5 meters. The yellow Murram is visible black clay soil. Due to its location in central India far from the sea, Indore has a moderately extreme climate. In winter (November to February), the night low temperature is around 10°C . at the peak of winter, it can be as low as 2 to 3°C . the record low as $+1.5^{\circ}\text{C}$. Winter temperatures are generally around 18 to 20 Degrees Centigrade. During summer (April-June), the days are hot (35 - 40°C) with the peak summer (May) day temperature sometimes touching 45°C . However, unlike other places in central India, the summer nights in Indore are something special. Due to its location on the southern edge of the Malwa plateau, however hot it may be during the day, in the late evening, cool breeze starts, which make the evenings quite pleasant, referred to as Shab-e-Malwa.+ Indore gets moderate rainfall of 80 cms during July-September due to S.W. Monsoon. The district enjoys the salubrious climate of Malwa region with above 1050 mm rainfall.

1. Sanwer road industrial area

Sanwer road industrial area is a biggest industrial area of 77 hectares in North West side of Indore. There are 6 sectors in this area i.e. Sector A, B, C, D, E and Sector F. This is a mix type of industrial cluster, predominantly having Rolling mills, foundries, lead reprocessing, Electroplating, Drugs & Pharmaceuticals, Chemical, Textile processing, Galvanizing, vegetable Oil refineries etc.

2. Shivaji Nagar

Shivaji Nagar Industrial area is a oldest Industrial area in Indore. This ward having 57 hectare of land. Maximum land area covered by closed textile industrial Land. It was started to establish from the time of Holkers. Between the 1950 to 1990 this area was a cluster of textile mills. Initially this area was outside of the town. Gradually by civilization this area becomes full of residential and commercial activities. All the textile units become closed in previous 20 years, the land of these industries are still vacant.

3. Pologround

Pologround industrial area is a small industrial area. Situated in mid of the town, is a part of Ban ganga ward. There are so many types of industries in this area. Maximum units are fabrication industries. Some are anodizing, foundry, textile and other type of industries. Only one basic drug unit is running.

4. Laxmibai nagar

Laxmibai nagar industrial area is a small industrial area, Situated in the west side of town. This ward area is 145 hectares, there is some part is covered for industrial activity. This is a mix type industrial area. Maximum units are food industries. Some are small foundry, Pharmulation, plastic and other type of industries. Only one big wire making unit is running.

5. Sch. No. 71

Scheme No. 71 industrial area is a very small industrial area. Situated at south-west side of the town. Sirpur ward area is 342 hectares, there is a very few part is covered for industrial activity. This is a mix type industrial area. Maximum units are food confectionary industries. Some are small printing, plastic, fabrication and other type of industries.

6. Nawlakha

Nawlakha industrial area is a small industrial Area. Situated in heart of the town. Nawlakha ward area is 361 hectares, there is a small part is covered for industrial activity. Maximum part is developed as residential / commercial zone. This industrial area is a Pulls mill cluster. This area is surrounded by residential & commercial area in present scenario.

7. Pilpliya rao

Pipliya rao industrial area is a very small industrial Area. Situated in heart of the town near Bhanwer kuan and Pipliya pala park. Dwarkapuri ward area is 526 hectares, small part of which is covered for industrial activity. Maximum part is developed as residential / commercial zone. This industrial area is a covered by agriculture pipe

manufacturing units. Only one unit is food ind. except food unit all are non polluting units.

8. Palda

Palda industrial area is basically a mix zone of commercial / industrial uses. This area having viajy industrial area, R.D. udhyog nagar, Khandelwal compound, Samta nagar, Dhanlakmi udhyog nagar, Agarwal udhyog nagar, Mangal udhyog nagar and pathhar mudla road. These are all private industrial areas. Major number of industries in this area is food Industries Like flore mill, masala udhyog, dall mill etc

9. Rau

Rau industrial area is developed by AKVN. This is also mix type industrial area. Maximum fabrication units are established in this area. Some other polluting or Non polluting industries are food, confectionary/bakery, Pharma, Recyclers, Pesticide pharmulation, battery assembling etc.

10. Mangliya

Mangliya industrial area is a industrial area, situated beside A.B. Road near mangliya village 13 km away from Indore. In this area mainly medium major industries are established like dairy plant, solvent extraction, vegetable oil refinery, vanaspati plant and Storage of petroleum product.

11. Rajoda

Rajoda is a small village at sanwer road 14 Km. away from Indore. This is not a industrial area. Two major industry of M/s Rama Phosphate group are situated in this village jurisdiction.

12. Barlai

Barlai is a small village at Indore Dewas road 15 Km. away from Indore. This is not a industrial area. Only one major closed industry M/s Barlai sugar mill is situated in this village jurisdiction. This is a closed sugar manufacturing unit since long time.

13. Asrawad

Asrawad is a small village at Nemawer road 08 Km. away from Indore. This is not a industrial area. Only one major industry M/s PDPL is situated in this village jurisdiction.

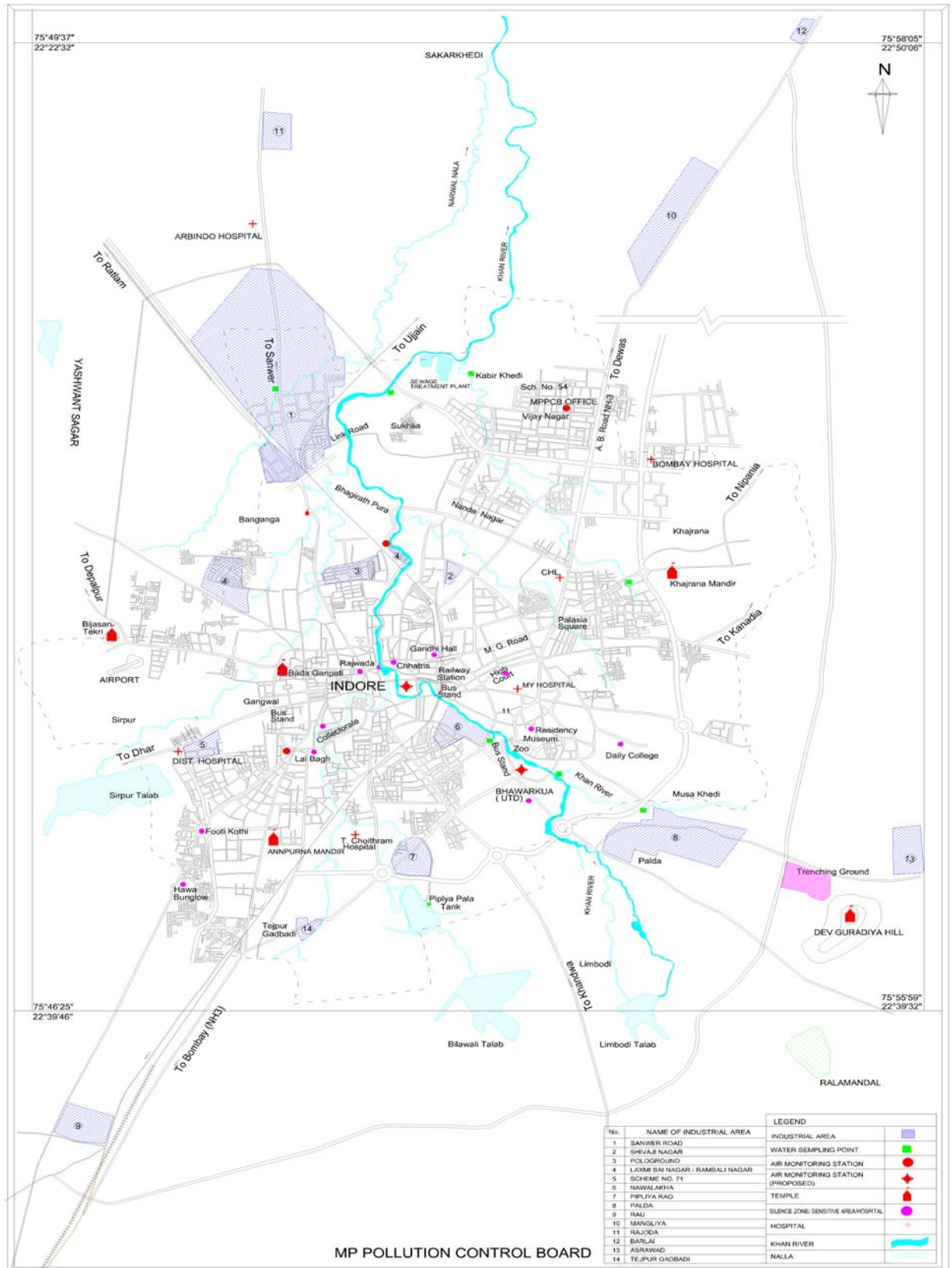
14. Tejpur Gadbad

Tejpur gadbad is not a industrial area. This area is in middle of the town at Indore mhow road near choithram sabji mandi. Only two small scale industries, steel casting & rolling mills are running in this area.

1.2 Location

Indore is located geographically between 22°37'29.66''N 75°46'86''E and 22°48'34''N 75°56'32''E at an average altitude of 553 Meters from the Sea Level. It is located 190 KM away from the State Capital, Bhopal on NH - 3. The Indore District is spread in an area of 3898 KM². The Indore city area is 13717 hectare.

1.3 Digitized Map with Demarcation of Geographical Boundaries and Impact Zones



1.4 CEPI Score (Air, Water, Land and Total)

The Central Pollution Control Board carried out Comprehensive Environmental Pollution Index Assessment (CEPI) Study in association with Indian Institute of Technology, Delhi. Based on the study, 43 Industrial Clusters out of 88 listed have been declared as Critically Polluted areas having CEPI of more than 70, which includes Indore City and its industrial clusters at the 38th place. The CEPI scores of Indore are listed below:

- Air 59.00
- Water 57.50
- Land 52.00

Overall CEPI Score 71.26

1.5 Total Population and sensitive receptors (hospitals, educational institutions, courts, etc.) residing in the area comprising of geographical area of the cluster and its impact zone (minimum 2 km)

The Indore Municipal Corporation population was 15.06 lakhs in year 2001. Present estimated population is 20 lakhs. The Indore city area is 13717 hectare and it comprises of 69 wards. Out of 15 notified clusters, 7 industrial cluster falls within the city limits, these are Sanwer Road, Shivaji Nagar, Pologround, Laxmibai Nagar, Scheme No. 71, Navlakha, Pipliya rao and Tejpur gadbadi.

Status of population of Indore city

Year	Population in Lakhs	Decadal Growth Rate
1971	5.37	
1981	8.25	44.73
1991	10.9	31.63
2001	15.06	37.97
2011 (projected)	21.79	
2021 (projected)	31.17	

Population details of the other notified area are as under

Cluster	Area in Hectare	Population in 2001
Palda	460.00	9848
Rau	462.50	20855
Mangaliya	663.34	5950
Rajoda	344.52	1811
Barlai	348.55	1011
Asrawad	343.56	2054

The Sensitive Receptors located in Indore are listed below:

- | | | |
|---------------------------------------|---|-----|
| i) Hospitals (Above 500 Beds) | - | 2, |
| ii) Health care facility | - | 301 |
| iii) Educational Institutions (Major) | - | 17 |
| iv) Court | - | 2 |

Location of major sensitive receptors are shown in the map at annexure-A

1.6 Eco-geological features Impact Zones the area comprising of geographical area of the cluster and its impact zone (minimum 2 km)

1.6.1 Major Water Bodies (Rivers, Lakes, Ponds, etc.)

Khan river is the main water body of the study area. The drainage of the city is provided by two small rivers, Khan and Sarswati. Khan river, a tributary of Shipra river emerges near Umaria village 11 km South of Indore and flows through heart of city. traveling of distance of around 50 km, it confluences in to Shipra river at Ujjain.

There are no major lakes exist in the study area. Bilawali Tank, Sirpur talav and Pipliya pala talav are important ponds in the impact zone area.

1.6.2 Ecological parks, Sanctuaries, Flora and Fauna or any eco-sensitive zones

There is no Ecological park, wild life and Bird sanctuary and any eco sensitive zone exist in Indore city and its impact zone of 2 km.

Ralamandal wild life sanctuary on ralamandal hills is situated at a distance of 7 km away from Indore city limit.

Ralamandal wildlife Sanctuary was established in the year 1989 and covers an area of only 2.34 sq Km. However, it has a fair amount of dense teak and its associated plant species such as Saja (*Terminalia alata*), Bamboo (*Dendrocalamus stictus*), Sandalwood (*Santalum album*), and Babuls (*Acacia nilotica*). Leopard, Black Buck, Sambhar and Barking Deer are the other mammalian species reported to found in the sanctuary. The proposed project area located neither within an existing nor any proposed ecological sensitive zone known for providing habitat and movement corridor for any kind of animals.

Deoguradia pahad which enjoys the status of a protected forest (P.F.) is the only nearby forested area 6 Km away from the city near Dudhia village. The hillock and the surrounding jungle which was once having dense vegetation of *Tectona grandis*, *Anogeissus pendula*, *Butea monosperma* and other associated species of southern tropical deciduous forest type, now reduced to highly degraded and denuded rocky pasture land for cattle grazing. This is because of the number of people visiting the Gutkeshwar Mahadev temple located on the hillock, which is an important religious place of the area. In addition to that Municipality Corporation of Indore dumps all the garbage of the city in a place close to the hillock.

During the intensive floristic survey non-teak bearing mixed forest type vegetation was found. The listed plant species include *Acacia nilotica*, *Prosopis juliflora*, *Acacia catechu* besides scattered species such as *Anogeissus latifolia*, *Azadirachta indica*, *Butea monosperma*, *Terminalia Arjuna*, *Boswellia serrata*, *Diospyros melanoxylon*. The ground cover is mainly dominated by *Themeda*, *Desmostachya*, and *Saccharum* species.

Grass species such as *Themeda quadrivalvis*, *Saccharum spontaneum* and *Cynodon* sp. had high frequency and diversity, the tree species like *Acacia nilotica*, *Prosopis juliflora*, *Butea monspesia* and *Azadirachta indica* were also recorded but their numbers were quite negligible.

The Deoguradia jungle is a non-teak bearing mixed vegetation type of forest. The scattered and stunted growth of *Anogeissus latifolia*, *Diospyros melanoxylon*, *Azadirachta indica*, *Acacia leucophloea* is equally distributed. The ground vegetation cover is mostly represented by grass species such as *Themeda*, *Pennisetum*, and *Saccharum*. At the lower strata of the hillock, high frequency of thorny plant species such as *Prosopis juliflora* and *Acacia nilotica* were observed, which were planted extensively under government schemes.

As far as ecological point of view the area comes within thickly populated area and has not any significant wildlife values. The majority animals are Cow, Buffalo, Horse, Donkey, Goat, Pig, and Dog.

During a walk through survey and observation, total of 13 bird species were recorded in the area. These include Pariah kite (*Milvus migrans*), Red-wattled Lapwing (*Vanellus indicus*), Spotted dove (*Streptopelia chinensis*), White breasted king fisher (*Halcyon smyrensis*), Indian roller (*Coracias benghalensis*), Hoopoe (*Upupa epops*), Common green bee eater (*Merops orientalis*), common myna (*Acridotheres tristis*) and black drongo (*Dicrurus adsimilis*).

1.6.3 Buildings or Monuments of Historical / archaeological / religious importance

The main places are as below:-

1. Krishnapura Chhatris'
2. Lalbaug Palace,
3. Khajrana Temple,
4. Rajwada,
5. Annapurna Temple,
6. Geeta Bhavan
7. Kanch Mandir
8. Bada Ganpati

1.7 Industry classification and distribution (no. of industries per 10 sq.km area or fraction)

1.7.1 Highly Polluting Industries (17 Categories)

Medium/Major - 02

Small Scale Industries - 12

1.7.2 Red Category Industries (54 Categories)

Medium/Major - 19

Small Scale Industries - 225

1.7.3 Orange and Green Category Industries - 695

1.7.4 Grossly Polluting Industries - Nil

Large and Medium Units	30
Small Scale Units	923
Total operating units	953

WATER ENVIRONMENT

2. WATER ENVIRONMENT

2.1 Present status of water environment supported with minimum one year analytical data.

Total generation of sewage in Indore city is 200 MLD on the basis of present population. Indore Municipal Corporation is treating only 90 MLD of sewage, the rest is disposed without treatment into Khan river. The said STP is located near Kabitkhedi. water bodies.

There are 163 units which are water polluting. Out of industries Industries generate industrial effluent more than 2000 CMD. Total quantity of industrial effluent generated from industrial area is 2.2 MLD and total domestic effluent generated is 200 MLD.

All the large and medium scale industries generating industrial effluent have provided ETPs.

Also most of the small scale cottage type water polluting industries is unable to provide full-fledged treatment due to lack of finance, thereby causing ground water pollution by discharging substandard effluent on land. To overcome this problem CETP is necessary for industrial clusters.

2.1.1 Water bodies/effluent receiving drains in the area important for water quality monitoring

The main water body, receiving domestic and trade effluent is Khan river. The Khan river passes from Indore city and traveling a distance of 50 Km., confluences into Shipra river at Ujjain. Following are the important point and drains of Khan river which are important for water quality monitoring.

- (I) Khan river near Pologround.
- (II) Khan river at Kabitkhedi, before STP
- (III) Khan river at Shakkarkhedi, down stream of STP
- (IV) Vijay Nagar / Sukhlia Nala, before 12 MLD STP
- (V) Khan river near Sanwer town.

Sanwer Road industrial area is the main industrial area of the Indore. Trade and domestic effluent of the Sanwer Road Industrial area is discharged into the Narvar Nala, presently wastewater in the drain is not reaching upto confluence point with Khan river. The above drain is important for monitoring purposes, near MR-10, Bridges to assess water quality of the Nala.

Pologround industrial area drain is to be monitored before its confluence into, the local Nala.

Other industrial cluster does not any common out fall.

2.1.2 Present levels of pollutants in water bodies/effluent receiving drains / ground water (routine parameters, special parameters and water toxics relevant to the area in three categories – known carcinogens, probable carcinogens and other toxics).

Water quality monitoring is being carried out on river Khan. Routine parameters are being monitored at all locations through regular monitoring stations.

(I) Khan river water quality results at different locations are shown as below :-

A) Water Quality of Khan River at Kabitkhedi

S. No.	Parameters	Unit	Sample -1	Sample -2	Sample -3	Sample -4	Sample -5	Sample -6
1	Colour	Pt-Co Sca	01	01	01	01	01	01
2	Odour	--	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless
3	pH	pH Unit	8.5	8.1	7.36	7.0	8.0	8.2
4	Total Solids	mg/L	1204	1503	1558	1365	1266	1043
5	Total Dissolved Solids	mg/L	1033	1343	1380	1176	1117	955
6	Suspended Solids	mg/L	171	160	178	189	149	88
7	Chloride (as Cl)	mg/L	295	240	300	350	215	245
8	B.O.D. (3 days at 27°C)	mg/L	78	44	50	120	62	58
9	C.O.D.	mg/L	300	220	240	410	180	170
10	Sp. Conductivity	µhos/cm	2359	1866	2124	2319	2040	1435
11	Amm. Nitrogen (as N)	mg/L	26.72	4.93	18	24.34	18.94	32.43
12	Nitrite Nitrogen (as N)	mg/L	0.114	0.102	0.15	0.064	0.163	0.041
13	Nitrate Nitrogen (as N)	mg/L	6.57	4.185	2.84	7.66	3.108	4.22
14	Phosphate (as PO ₄)	mg/L	4.87	3.69	3.0	4.94	3.69	3.63
15	Alkalinity	mg/L	520	552	712	680	640	650
16	T. Hardness (as CaCO ₃)	mg/L	320	364	360	550	400	510
17	Ca. Hardness (as CaCO ₃)	mg/L	210	196	192	330	280	330
18	Mg. Hardness(as CaCO ₃)	mg/L	110	168	168	220	120	180
19	Sulphate (as SO ₄)	mg/L	59.69	42.5	24.84	36.5	29.75	32.36
20	Sodium (Na)	mg/L	149	45	111	158	113	158
21	Potassium (K)	mg/L	61	7	33	69	24	48

B) Water Quality of Khan River at Shakkarkhedhi

S. No.	Parameters	Unit	Sample -1	Sample -2	Sample -3	Sample -4	Sample -5	Sample -6
1	Colour	Pt-Co Scale	01	01	01	01	01	01
2	Odour	--	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless
3	pH	pH Unit	8.0	8.0	7.22	8.0	7.5	7.5
4	Total Solids	mg/L	1213	1431	1578	1400	1445	1159
5	Total Dissolved Solids	mg/L	1103	1308	1398	1155	1280	1029
6	Suspended Solids	mg/L	110	123	180	245	135	130
7	Chloride (as Cl)	mg/L	410	275	325	420	225	315
8	B.O.D. (3 days at 27°C)	mg/L	48	52	65	70	58	68
9	C.O.D.	mg/L	260	270	260	250	220	210
10	Sp. Conductivity	µhos/cm	2435	1806	2308	2431	2326	1689
11	Amm. Nitrogen (as N)	mg/L	23.88	4.60	20	21.54	22.14	36.33
12	Nitrite Nitrogen (as N)	mg/L	0.18	0.023	0.042	0.046	0.088	0.043
13	Nitrate Nitrogen (as N)	mg/L	5.07	4.31	3.64	6.06	3.54	4.11
14	Phosphate (as PO ₄)	mg/L	4.06	3.78	3.4	4.81	3.89	3.40
15	Alkalinity	mg/L	580	584	820	710	740	620
16	T. Hardness (as CaCO ₃)	mg/L	390	392	476	310	400	450
17	Ca. Hardness (as CaCO ₃)	mg/L	220	204	200	240	270	320
18	Mg. Hardness(as CaCO ₃)	mg/L	170	188	276	70	130	130
19	Sulphate (as SO ₄)	mg/L	47.52	19.90	34.88	47.95	38.34	45.64
20	Sodium (Na)	mg/L	142	42	115	166	120	170
21	Potassium (K)	mg/L	70	6	36	82	49	140

C) Water Quality of Khan River at Sanwer , Indore

S. No.	Parameters	Unit	Sample -1	Sample -2	Sample -3	Sample -4	Sample -5	Sample -6
1	Colour	Pt-Co Sca	01	01	01	01	01	01
2	Odour	--	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless
3	pH	pH Unit	8.08	8.0	7.52	7.82	8.06	7.5
4	Total Solids	mg/L	1004	1466	1436	1444	892	834
5	Total Dissolved Solids	mg/L	880	1357	1380	1385	872	762
6	Suspended Solids	mg/L	124	108	56	59	20	72
7	Chloride (as Cl)	mg/L	200	375	260	270	225	280
8	B.O.D. (3 days at 27°C)	mg/L	3.4	21	2.2	2.4	2.0	10
9	C.O.D.	mg/L	76.8	60	30	32	50	160
10	Sp. Conductivity	µhos/cm	1204	2369	2460	2490	1188	1439
11	Amm. Nitrogen (as N)	mg/L	27.74	21.95	2.08	2.12	1.46	28.38
12	Nitrite Nitrogen (as N)	mg/L	0.475	0.036	0.47	0.498	0.004	0.043
13	Nitrate Nitrogen (as N)	mg/L	2.910	3.58	7.83	7.91	4.21	4.52
14	Phosphate (as PO ₄)	mg/L	1.98	2.38	0.34	0.34	0.064	3.60
15	Alkalinity	mg/L	520	830	424	450	320	580
16	T. Hardness (as CaCO ₃)	mg/L	492	520	360	370	380	400
17	Ca. Hardness (as CaCO ₃)	mg/L	324	340	192	190	250	240
18	Mg. Hardness(as CaCO ₃)	mg/L	168	180	168	180	130	160
19	Sulphate (as SO ₄)	mg/L	65.24	54.76	41.02	41.8	42.5	53.68
20	Sodium (Na)	mg/L	58	82	18	19	28	152
21	Potassium (K)	mg/L	23	36	4	4	3	36

CRITICAL PARAMETERS ANALYSIS

Surface water of river Khan and nallas of Indore

Parameters	Unit	Khan River Kabit -Khedi	Khan River Shakkar- Khedi	Sukhlia Nallah near Toll naka	Khan River near Polo ground Bhagirathpura
pH	pH unit	8.1	8.0	7.9	7.06
BOD	Mg/l	44	52	48	55
COD	Mg/l	220	270	200	240
DO	Mg/l	1.8	2.9	Nil	Nil
Oil & Grease	Mg/l	5	5	8	10
Phosphate	Mg/l	3.69	3.7	3.2	2.24
Sulphate	Mg/l	42.5	19.9	32.5	63.4
Ammonia	Mg/l	4.93	4.6	4.25	22.9
TKN	Mg/l	33.61	47.6	38.5	47.6
Chromium	Mg/l	0.085	0.05	ND	ND
Mercury	Mg/l	ND	ND	ND	ND
Zinc	Mg/l	0.91	0.74	0.81	0.69
Nickel	Mg/l	0.0015	ND	ND	ND
Copper	Mg/l	0.02	0.032	BDL	BDL
Lead	Mg/l	0.2	0.32	ND	ND

Water quality of different nalla/drains of Indore city

S.No.	Parameter	Sanwer road industrial nallah,	Nallah near Krishnapur	Nallah near Pologround	Nallah near Karbala Maidan	Palasiya nallah,	Khajrana Road Nallah,
1	pH	8.1	7.60	7.42	7.68	7.5	7.5
2	Suspended Solid-mg/l	810	87	124	90	162	26
3	Dissolved solids –mg/l	3370	878	1036	858	1627	937
4	Chloride mg/l	2750	150	215	140	135	225
5	BOD mg/l	430	72	78	62	170	130
6	COD - mg/l	2000	260	290	200	900	310
7	Cadmium- mg/l	----	----	----	----	ND	ND
8	Chromium - mg/l	-----	-----	-----	-----	0.024	0.031
9	Copper - mg/l	----	----	----	----	ND	ND
10	Lead- mg/l	-----	-----	-----	-----	ND	ND
11	Nickel- mg/l	----	----	----	----	ND	ND
12	Zinc- mg/l	-----	-----	-----	-----	0.026	0.048
13	Iron - mg/l	----	----	----	----	ND	ND
14	Manganese- mg/l	-----	-----	-----	-----	0.257	0.233

Water quality of different nalla/drains of Indore city

S.No.	Parameter	Nallah at Shukhliya,	Nallah at Scheme no 71	Nallah at Teen Imli,	Nallah at Azad Nagar,	Nallah at Navlakha,	Nallah at Shivaji Nagar,
1	pH	7.5	7.5	7.5	7.5	7.5	7.63
2	Suspended Solid-mg/l	110	130	258	50	22	95
3	Dissolved solids –mg/l	1561	1024	7383	1105	586	943
4	Chloride mg/l	440	140	235	125	250	130
5	BOD mg/l	160	105	120	34	32	44
6	COD - mg/l	550	430	350	80	90	180
7	Cadmium- mg/l	ND	ND	ND	ND	0.001	ND
8	Chromium - mg/l	ND	ND	0.002	0.005	0.037	0.027
9	Copper - mg/l	ND	ND	ND	ND	ND	ND
10	Lead- mg/l	ND	ND	ND	ND	ND	ND
11	Nickel- mg/l	ND	ND	ND	ND	ND	ND
12	Zinc- mg/l	0.055	0.052	0.033	0.015	0.038	0.038
13	Iron - mg/l	ND	ND	ND	ND	ND	ND
14	Manganese- mg/l	0.075	0.0199	0.0294	0.293	0.396	0.487

Water quality of different nalla/drains of Indore city

S.No.	Parameter	Nallah at Pologround,	Nallah at Sanwer roa industrial area	Nallah at PipliaRa
1	pH	7.5	6.9	7.5
2	Suspended Solid-mg/l	148	186	239
3	Dissolved solids –mg/l	968	8822	955
4	Chloride mg/l	185	2250	255
5	BOD mg/l	54	160	64
6	COD - mg/l	200	600	210
7	Cadmium- mg/l	ND	ND	ND
8	Chromium - mg/l	0.01	0.021	ND
9	Copper - mg/l	0.038	ND	ND
10	Lead- mg/l	ND	0.043	0.468
11	Nickel- mg/l	ND	ND	ND
12	Zinc- mg/l	0.038	0.698	0.022
13	Iron - mg/l	0.1	32.76	ND
14	Manganese- mg/l	0.27	1.656	0.237

Surface water quality of various tanks/ponds of Indore

(A) Water Quality of Pipliyapala Talab, Indore

S. No.	Parameters	Unit	Sample -1	Sample -2	Sample -3	Permissible Limit IS : 10500
1	Colour	Pt-Co Scale	01	01	01	
2	Odour	--	Odourless	Odourless	Odourless	
3	pH	pH Unit	7.5	8.5	7.82	6.5 to 8.5
4	Total Solids	mg/L	390	428	432	
5	Total Dissolved Solids	mg/L	367	380	380	2000
6	Suspended Solids	mg/L	23	48	50	
7	Chloride (as Cl)	mg/L	45	50	75	1000
8	B.O.D. (3 days at 27°C)	mg/L	0.9	577	1.2	
9	C.O.D.	mg/L	20	1.2	20	
10	Sp. Conductivity	μhos/cm	598	20	580	
11	Amm. Nitrogen (as N)	mg/L	0.26	0.589	0.18	
12	Nitrite Nitrogen (as N)	mg/L	0.006	0.011	0.047	
13	Nitrate Nitrogen (as N)	mg/L	1.78	1.12	1.55	100
14	Phosphate (as PO ₄)	mg/L	0.18	1.58	0.18	
15	Alkalinity	mg/L	208	100	260	600
16	T. Hardness (as CaCO ₃)	mg/L	196	240	250	600
17	Ca. Hardness (as CaCO ₃)	mg/L	136	128	130	
18	Mg. Hardness (as CaCO ₃)	mg/L	60	112	120	
19	Sulphate (as SO ₄)	mg/L	29.98	44	61	400
20	Sodium (Na)	mg/L	16	36	35	
21	Potassium (K)	mg/L	3	4	4	
22	Cadmium (as Cd)	mg/L				0.01
23	Chromium (Total)	mg/L				
24	Copper (as Cu)	mg/L				1.5
25	Lead (as Pb)	mg/L				0.05
26	Nickel (as Ni)	mg/L				
27	Zinc (as Zn)	mg/L				1.5
28	Iron (as Fe)	mg/L				1.0
29	Manganese (as Mn)	mg/L				0.3
30	Cobalt (Co)	mg/L				

(B) Water Quality of Sirpur Talab, Indore

S. No.	Parameters	Unit	Sample -1	Sample -2	Sample -3	Sample -4	Sample -5	Permissible Limit IS : 10500
1	Colour	Pt-Co Scale	01	01	01	01	01	
2	Odour	--	Odourless	Odourless	Odourless	Odourless	Odourless	
3	pH	pH Unit	8.0	7.6	7.5	8.7	7.51	6.5 to 8
4	Total Solids	mg/L	216	198	188	304	345	
5	Total Dissolved Solids	mg/L	191	180	170	268	307	2000
6	Suspended Solids	mg/L	25	18	18	36	38	
7	Chloride (as Cl)	mg/L	35	25	35	30	25	1000
8	B.O.D. (3 days at 27°C)	mg/L	1.0	1.2	1.1	1.1	1.0	
9	C.O.D.	mg/L	10	20	20	20	18	
10	Sp. Conductivity	µhos/cm	310	295	240	301	320	
11	Amm. Nitrogen (as N)	mg/L	0.05	0.18	0.056	0.746	ND	
12	Nitrite Nitrogen (as N)	mg/L	0.001	0.003	0.005	0.008	0.018	
13	Nitrate Nitrogen (as N)	mg/L	0.9	1.029	0.55	0.856	1.327	100
14	Phosphate (as PO ₄)	mg/L	NIL	0.001	1.20	0.009	0.179	
15	Alkalinity	mg/L	130	136	120	104	170	600
16	T. Hardness (as CaCO ₃)	mg/L	110	116	86	152	150	600
17	Ca. Hardness (as CaCO ₃)	mg/L	70	84	48	80	80	
18	Mg. Hardness (as CaCO ₃)	mg/L	40	32	38	72	70	
19	Sulphate (as SO ₄)	mg/L	12	18.12	6.35	22.5	22.4	400
20	Sodium (Na)	mg/L	13	14	6	44	42	
21	Potassium (K)	mg/L	2	2	3	5	4	
22	Cadmium (as Cd)	mg/L						0.01
23	Chromium (Total)	mg/L						
24	Copper (as Cu)	mg/L						1.5
25	Lead (as Pb)	mg/L						0.05
26	Nickel (as Ni)	mg/L						
27	Zinc (as Zn)	mg/L						1.5
28	Iron (as Fe)	mg/L						1.0
29	Manganese (as Mn)	mg/L						0.3
30	Cobalt (Co)	mg/L						

(C) Water Quality of Bilawali Talab, Indore

S. No.	Parameters	Unit	Sample -1	Sample -2	Sample -3	Sample -4	Sample -5	Permissible Limit IS : 10500
1	Colour	Pt-Co Scale	01	01	01	01	01	
2	Odour	--	Odourless	Odourless	Odourless	Odourless	Odourless	
3	pH	pH Unit	9.0	8.0	7.82	8.25	8.42	6.5 to 8.5
4	Total Solids	mg/L	327	171	348	250	336	
5	Total Dissolved Solids	mg/L	229	156	323	218	298	2000
6	Suspended Solids	mg/L	98	15	25	32	38	
7	Chloride (as Cl)	mg/L	25	20	60	30	40	1000
8	B.O.D. (3 days at 27°C)	mg/L	0.8	0.7	1.4	1.6	1.7	
9	C.O.D.	mg/L	20	10	20	20	18	
10	Sp. Conductivity	µhos/cm	330	226	538	292	325	
11	Amm. Nitrogen (as N)	mg/L	0.008	0.08	1.83	0.9	0.486	
12	Nitrite Nitrogen (as N)	mg/L	0.004	0.002	0.036	0.019	0.01	
13	Nitrate Nitrogen (as N)	mg/L	0.08	0.792	1.03	2.32	4.48	100
14	Phosphate (as PO ₄)	mg/L	1.36	0.6	1.93	0.15	0.17	
15	Alkalinity	mg/L	120	124	152	123	128	600
16	T. Hardness (as CaCO ₃)	mg/L	110	108	198	200	184	600
17	Ca. Hardness (as CaCO ₃)	mg/L	80	80	104	92	108	
18	Mg. Hardness (as CaCO ₃)	mg/L	30	28	94	108	76	
19	Sulphate (as SO ₄)	mg/L	8	7.108	13.37	25.3	38.8	400
20	Sodium (Na)	mg/L	24	12	16	16	20	
21	Potassium (K)	mg/L	6	2	3	7	8	
22	Cadmium (as Cd)	mg/L						0.01
23	Chromium (Total)	mg/L						
24	Copper (as Cu)	mg/L						1.5
25	Lead (as Pb)	mg/L						0.05
26	Nickel (as Ni)	mg/L						
27	Zinc (as Zn)	mg/L						1.5
28	Iron (as Fe)	mg/L						1.0
29	Manganese (as Mn)	mg/L						0.3
30	Cobalt (Co)	mg/L						

2.1.3 Predominant sources contributing to various pollutants

The Indore city sewage is the main source of pollutant in Khan river. 200 MLD sewage is discharge into Khan River, 20, 000 kg/day BOD load is discharge at domestic effluent

Around 2.2 MLD of trade effluent is generated it accounts of 220 Kg. per day of BOD Load

2.2 Sources of water pollution

2.2.1 Industrial

There are 163 trade effluent generating industries in Indore district. and the total effluent generated is to the tune of 2.2 MLD. The break up is as below:

Cluster name	No. effluent gene-rating industries	Quantity of effluent in MLD
Sanwer Road	106	0.622
Shivaji Nagar	03	0.004
Pologround	09	0.052
Laxmibai Nagar	07	0.077
Sc. No. 71	02	0.012
Navlakha	00	0.009
Piplia Rao	04	0.013
Palda	15	0.179
Rau	08	0.111
Mangliya	06	0.952
Rajoda	02	0.109
Barlai	00	0.0
Asrawad	01	0.053
Tejpur Gadbad	00	0.0
Total	163	2.199

2.2.2 Domestic

Around 200 MLD of domestic waste generated from Indore city only 90 MLD of sewage is treated and the rest is disposed without treatment into Khan river.

Khan river water at down stream from kabitkhedi to Sanwer is being used for growing vegetables and irrigating the crops by the Farmers. It poses the high risk of contaminating food chain.

2.2.3 Others (Agricultural runoff, leachate from MSW dump, illegal dump site etc.)

With overuse of fertilizers and pesticides being a significant issue, percolates/seepages/runoffs cause pollution hazards in areas.

2.2.4 Impact on surrounding area (outside the CEPI Area) on the water courses/drainage system of the area under consideration

The Khan river is of E quality river from origin to confluence. Major part of the untreated domestic waste of Indore city flow into Khan river. Water Khan river at down stream is use for growing vegetables by the Farmers poses the risk of contaminating food chain. Khan river becomes dry before confluencing into Shipra. But during monsoon season its water reaches up to Shipra and effects its quality at Ujjain city.

2.3 Details of Water Polluting Industries in the area/cluster

1. Sanwer road industrial area

Sanwer road industrial area is a biggest industrial area of 77 hectares in North West side of Indore. There are 6 sectors in this area i.e. Sector A, B, C, D, E and Sector F. This is a mix type of industrial cluster, predominantly having Rolling mills, foundries, lead reprocessing, Electroplating, Drugs & Pharmaceuticals, Chemical, Textile processing, Galvanizing, vegetable Oil refineries etc.

Total No. of industries registered in the board 477 out of which red category units are 188, orange are 67 and green are 222. In the industrial area Sanwer Road there are 106

water polluting industries total quantity of industrial effluent generated from Sanwer road industrial area is 0.622 MLD.

Following are the industries located in the area

S.No	Name of Industries / Unit	Address	Category
	Medium major		
1	M. P .Beer Product P. L.(Beer Plant)	P.No. 60A,62A, Sector-A, I/A Sanwer road Indore	R-27
2	Metalman Industries Ltd.	Plot No. 17,18,19 Sector-B,I/A, Sanwer road,Indore	R-39
3	Jas engineering	Sector-C	R-38
4	Innox Air Products	P.No.-14 sector-D-1, I/A sanwer road Indore	R-36
5	Indore soya	Sector-D	R-63
	Small Scale Industry		
6	Sunita Chemicals	Sec. A Sanwer road I/A P. no 24	R-12
7	Sears Phytochem Ltd.	Sec. b Sanwer road I/A P. no 36e	R-12
8	Panchsheel Organics Ltd.	Sec. C Sanwer road I/A P. no B6, B7	R-12
9	Chinmai Chemicals	Sec. D Sanwer road I/A P. no D-2-1, 64	R-12
10	Amay Drugs	Sec. E Sanwer road I/A P. no 149	R-12
11	Cytochem Industries Pvt. Ltd.	Sec. E Sanwer road I/A P. no 49/C	R-12
12	Unidrug Innovative Pharma Tech. Ltd.	Sec. E Sanwer road I/A P. no 6C	R-12
13	Univive Health Care Pvt Ltd.	323-A Sector-E Sanwer Road	R-12
14	Vindhya paper	Sec. F Sanwer road I/A Indore P. no 80	R-13
15	Omatek Laboratories pvt. Ltd.	178,Sector-F,I/A Sanwer Road	R-12
16	P & R Chemicals	81, Sector-A, Sanwer Road	R-21
17	Sarvottam Vegitable Refinery Pvt. Ltd.	34-A, Sector-A, Sanwer Road	R-63
18	Advance F.R.P. Product	P.No-1, Sector-A, I/A, Sanwer road	R-29
19	Advance Fiber product	P. No.-7, Sector-A, I/A Sanwer Road	R-29
20	Anurag Metal Forms Pvt. Ltd.	14-A, Sector-A, Sanwer Road	R-43
21	Govind Industries	Plot no. 54-55, Agarbatti Complex, Behind Sector-A,I/A sanwer road	R-57
22	J.K. Soap & cosmetic	Shade No. -7 Sector-A Sanwer Road	R-57
23	Kalyan Enterprises	16A, 16B, Sector-A, Sanwer Road	R-46
24	Nanak Steel Industries	Sec. A Sanwer road I/A P. no 44,C&B	R-38
25	Navjeevan dying & Printing	Plot No- 1, Sector-A, Industrial Area Sanwer Road	R-64
26	Navyug cement Product	Sec. A Sanwer road I/A P. no 6B	R-18
27	Quality Steel	Sec. A Sanwer road I/A P. no 15B	R-38
28	Sai Machin tools	23-D Sec-A I/A sanwer road	R-37
29	Sanghavi Ispat Industries	Sec. A Sanwer road I/A P. no 5B	R-38

30	Sethi Metal Industries	Sec. A Sanwer road I/A P. no 15-A	R-38
31	Shobha Metal Industries	38, Sector-A, Sanwer Road	R-38
32	Sunderlal Moolchandra Jain Toboconis	P.N. 9, Sector-A,I/A sanwer road	R-61
33	Tirupati Steel Rolling Mill	Sec. A Sanwer road I/A P. no 67	R-38
34	Universal Refractories & Allied Const. Company	P.No.-6C,Sector-A, Sanwer road I/A	R-20
35	Vora Chemicals	E-4, Sector-A, Sanwer Road	R-39
36	Vora Wires Industries India Ltd.	Sec. A Sanwer road I/A P. no D1,D2	R-39
37	Well Come Industry	Sector-A,P.No. 10-A, I/A sanwer road	R-38
38	Nirvana Steel	Plot No. 6, Sector-B, Sanwer Road	R-38
39	Alfa Steel Industries	107-D, Sector B, Industrial Area	R-38
40	Dasmesh Industries	Plot No. 109-C, Sector-B, Sanwer Road	R-39
41	Deepak Engineerig Works	21/D, Sec.-B I/A Sanwer Road	R-38
42	Indore Agro Industries	Plot No. 96/D, Sector-B, Industrial Area, Sanwer Road	R-38
43	Jaitu Steel	Sec. B Sanwer road I/A P. no 6,9,10,11	R-38
44	Mahalaxmi Industries	Plot No. 109-C, Sector-B, Sanwer Road	R-39
45	N.G. Enterprises	Sec. B Sanwer road I/A Indore P. no 108	R-38
46	New India Chemicals	28C,Sector -B, Sanwer Road,	R-21
47	Pragati India	Sec. B Sanwer road I/A P. no 13/A,12,B	R-38
48	Shimla Industries Pvt. Ltd.	Plot No. 32-D, 33-B, Sector-B, Sanwer Road	R-61
49	Texpro Industries	P.No. 37-B,Sector-B, I/A, Sanwer road	R-64
50	Vandana Industries	98-B Sector-B Sanwer Road	R-40
51	Vishal Fabricators	Sec. B Sanwer road I/A P. no 14E	R-37
52	Jay Shri ram Dhali works	P.No.-56B/1, Sector-C, I/A Sanwer road	R-38
53	Mini Industries	46-B-2, Sec-C, Industriel Area, Sanwer Road	R-38
54	Shri Ram Casting Works Shop	P.No. 56-B/4, Sector-C I/A Sanwer road	R-38
55	A.B. Metals	Plot No. E-45, Sec-C, I/A, Sanwer Road	R-40
56	Bagani Soap Industries	P.No. B/5/B Sector-C, I/A sanwer road	R-57
57	Chirag india	P.No.A- 37/ A, Sect-C, I/a Sanwar road	R-57
58	Chouhan Steel Works	Sec. C Sanwer road I/A P. no B-1A	R-38
59	Continental Refractories Pvt. Ltd.	P.No-71Sector-C, I/A,Sanwer road	R-20
60	Deepak Allied & Chemical Industries	P.No. B/4/A, Sector-C, I/A, Sanwer road	R-21
61	Electro Battery	E16,E17, Sector-C, Sanwer Road	R-40
62	Forbos Industries	P.No. E-49/A,D-44/A,Sector-C,I/A,Sanwer road	R-38
63	J. S. Steel Industries	Sec. C Sanwer road I/A P. no 55	R-38
64	Jash Textile Mill Pvt. Ltd	E-9A, Sector-C, Sanwer Road	R-64
65	K.D.M.Textiles proc. & Consultants	P.No. 14,15&16 Sector-C I/A sanwer road	R-64
66	Khumani Steels Pvt.Ltd	Plot No. 36-E, SeC-C, Industrial Area	R-38
67	Kumar Industries (Unit-II)	Sec. C Sanwer road I/A P. no 21/A	R-38

68	Lucky Soap Factory	Sec-C, P.No. 26-A, I/a Sanwer road	R-57
69	M.P. Bright Bars Mfg.	Sec. C Sanwer road I/A P. no A-13	R-39
70	Mahamaya Batteries	Sector-C, P. No. 32,I/A sanwer road	R-40
71	Manoj Industries	Sec. C Sanwer road I/A P. no D16-17	R-40
72	Mark Metal Company	Sec. C Sanwer road I/A Indore P. no B-38/B, B-39/I	R-40
73	Mohammed Rafiq Scrape Trd. & Rolling Mill	P.No. D-35/D, 36/AE38/B E39/A,Sector-C,I/A,Sanwer road	R-38
74	Mundra Rerolling Mills	P. No. D-45/A-B, E-50/A-B, Sector-C, I/A, Sanwer road	R-38
75	New Malwa Steel Industries	45/A, Sector-C, Sanwer Road,	R-38
76	New Shri Dhalai Work	Sector-C, P. No. 56-B/2,I/A sanwer road	R-38
77	P. R. Enterprises	Sec. C Sanwer road I/A P. no 12B	R-38
78	Pioneer Dying & Printing work	P.No. 58-B, Sector-C, Industrial area, I/A,	R-64
79	Prem Textile (Internation) pvt. Ltd.	46-B, Sector-C, Sanwer Road	R-64
80	Quality Fabrics	Plot No. 47-48, Sector-C, Sanwer Road	R-64
81	Rajasthan Steel Industries	Sec. C Sanwer road I/A Indore P. no 33-35	R-38
82	Reliable Steel	P.No.-8B,9C,Sector-C,I/A,Sanwer road	R-38
83	Samaria Processing Co.	Sec.-C,P. no 21C, Sanwer road I/A	R-64
84	Shaft Industries	P.No.71-C, Sector-C, I/A sanwer road	R-38
85	Shankar Threads pvt. Ltd.	Plot. No. E-28,29 Sector-C, I/A sanwer road	R-64
86	Shri Ram Engineering Works	P.No.-56-B/3,Sector-C I/A sanwer road	R-38
87	Shri Ram Metals	Sector-C, P. No. 56-B/2,I/A sanwer road	R-38
88	Shrijee Dyeing	Plot No. 18-B, Sector-C, Sanwer Road	R-64
89	Steelshri Industries	Sec. C Sanwer road I/A P. no 59D	R-38
90	Supreem soap products	Sec-C plot no. B/10 Industrial area Sanwer road	R-57
91	Termal industries Expansion	13, Sector-C Sanwer Road	R-38
92	Termal ind.(Al Burhan Steel Traders)	13, Sector-C Sanwer Road	R-38
93	Ujjawal Soya & Chemicals	Sec. C Sanwer road I/A P. no E43-B, E44-B	R-21
94	Vikas Florochem Pvt. Ltd.	Sec- C, Sanwer road, I/A, P. no B-27/C&D	R-21
95	Balaji Dying	B-3, Sector -C, Ind, Area. Sanwer rd.	R-64
96	Adarsh Oxygen Pvt. Ltd.	P. No. 42-43, Sec- D-2, I/A, Sanwer road	R-36
97	Alankar Polymers	Shade No. 10 Sector-D, I/A, sanwer Road	R-39
98	Gurjar Chemical Pvt. Ltd.	145, Sector-D, Sanwer Road	R-53
99	Prem Soap Industries	Sec. D Sanwer road I/A P. no 27-28	R-57
100	Pushpnath Oversies Pvt. Ltd.	Sec-D, P.No.D-10,D-11-C,I/A,Sanwer road	R-64
101	Raj & Raj Industries	Sec. D-2 Sanwer road I/A P. no 22	R-38
102	Shakti meta cam Industry	Sec. D-2 Sanwer road I/A P. no D	R-21
103	Shri Kailash Chemical	P.No. 110,Sector-D,I/A, Sanwer road	R-57
104	Vidyut Electroplaters	Sec. D-2 Sanwer road I/A P. no 32	R-39
105	Ruchi Febrics	32,33,34, Sector D-2, Ind. Area, Sanwer Road	R-64

106	Agarwal Metal Industries	Plot No. 251/A, Sector-E, Sanwer Road,	R-40
107	Agwan steel Industries	Plot No. 9-A, Sector-E, Industrial Area, Sanwer Ro	R-38
108	Akshat Textiles	Plot No. 53/B, & 54, Sector-E, Sanwer Road	R-64
109	Akshay Toughened International	P. No. 132, Sec-E, I/A, Sanwer Road	R-29
110	Aman Enterprises	P. No. A-10, Sec- E, Sanwer road, I/A	R-40
111	Arihant milk product	Sec-E, P. no. 182, I/A Sanwer road	R-43
112	Bindra Chemicals	Sec. E Sanwer road I/A P. no 42A 43C	R-21
113	Citizen Steel Industries	P.No. 281&282-A, Sectar-E, I/A sanwer road	R-38
114	Dev Alums & Chemicals	Sec. E Sanwer road I/A P. no 166	R-21
115	Dev steel Industries	Sector –E –199, Industrial aria Sanwer road	R-38
116	Ganpati Structures Pvt. Ltd.	Plot N0.-8,Sector-E I/A	R-38
117	Garg Soap Factory	Sec-E,P.No. 41-A,42-B,I/A Sawer road	R-57
118	Gaurav Steel Industries	Sec. E Sanwer road I/A Indore P. no 79	R-38
119	Good Luck Dying and Printing	Plot N0.-104,105 Sector-E I/A	R-64
120	Govind Steel Works	P.No. 26-a,27-c,Sector-E, Sanwer Road I/A	R-38
121	H. D. Wires Pvt. Ltd.	Sec. E Sanwer road I/A P. no 17-20	R-39
122	Hariram Uttamchandra Ashish Udyog	Plot No. 29-A/2/3, Sec- E, I/A, Sanwer road,	R-38
123	Herbo Chem	Plot No. 67/A, Sector-E, Sanwer Road	R-21
124	Jain batteries	310-A Sector-E I/A Sanwer Road	R-40
125	Madhyanchal Steel Pvt. Ltd.	Plot No. 6-7, Sec. E, Sanwer road I/A	R-38
126	Malwa Chemoplast	Sec. E Sanwer road I/A P. no 246B,247,248,249B	R-21
127	Mungad Aluminium	Sec. E Sanwer road I/A Indore P. no 190-191A	R-38
128	Narmada Chemical	P.No.-170,Sector-E, I/A, sanwer road	R-21
129	Natraj Industreis.	P.No. 40-B, Sector-E, I/A,sanwer road	R-38
130	Novkar Iron & Steel (P) Ltd.	Sector -E, plot no. -27-A,28-B, Sanwer road	R-38
131	Panther Tyre	148,/B Sector-E sanwer Road	R-62
132	Paramount Chemicals	Sec. E Sanwer road I/A P. no 194	R-21
133	S. & H. Hardware	Sec. E Sanwer road I/A P. no 96/1	R-18
134	S. G. Aerochem Industries	Sec. E Sanwer road I/A P. no 75C	R-21
135	S.P. Metals	39-B, Sector-E Industrial Area Sanwer road	R-38
136	Shalom Sales	P.No. 255,Sector-E,I/A sanwer road	R-21
137	Shnidha Basic Chemical	31- Sectot-E I/A Sanwer Road	R-21
138	Soyachem Industries	Sec. E Sanwer road I/A P. no 24-C	R-59
139	Sun Shine rang rasayan Pvt. Ltd.	P.No.285, Sector-E, I/A sanwer road	R-21
140	Supreme Casting	Sec. E Sanwer road I/A P. no 158A,159B	R-38
141	Varun Enterprises	Plot No. 290- D 303, 304, Sec-E, Sanwer Road	R-40
142	Vinay Textiles	Sec. E Sanwer road I/A P. no 277	R-64
143	Vishal Fabricators Pvt. Ltd.(Unit-2)	Plot No. 13-14, Sector-E, Sanwer Road,	R-37
144	Zapplen Mobile System India Ltd	Plot No. 97, 116, Sector -E, Sanwer Road	R-39

145	Vyankatesh Metals & Alloys Pvt. Ltd.	Plot No. 203-A, Sec-E, Ind. Area, Sanwer Road	R-38
146	Ishan Synthetic (P) Ltd.	140-B, Sector-F, Sanwer Road	R-36
147	Shardha chemical	Sector-F Plot no. 31-A I/A sanwer road	R-21
148	Gaffar Steel Industries	332A, Sec-F, Industrial Area, Sanwer Road	R-38
149	A. P. Chemicals	P. no. A-3, Sec-F, I/A, Sanwer road	R-21
150	A.M. Industries	96-B, Sector-F, Sanwer Road,	R-40
151	Arpana chemicals	213-c, Sector-F, Industrial	R-21
152	Bal Balaji Udyog	213-B, Sector-F, Sanwer Road	R-21
153	Dhanlaxmi Starch Starch products.	Plot No. 113, 114, 117, Sec- F, Industrial Area, Sanwer road	R-21
154	Dhanlaxmi Textiles Processing	P.No. 43-B,Sector-F,I/A,Sanwer road	R-64
155	Durga Industries	A/2, Sector-F, Industrial Area, Sanwer Road	R-38
156	Ellora Tobacco Co. Ltd.	P.No. 14-B, Sector-F, I/A, Sanwer road	R-61
157	Garurang Metal ltd	Set-F I/A Sanwer road plot no. 30	R-21
158	Harsh Batteries	P.No. 281-B, Sector- F,I/A sanwer road	R-40
159	Hemal Industries	299, Sector-F, Sanwer Road	R-40
160	Hoswin Incinerator Pvt. Ltd.	Sec. F Sanwer road I/A P. no 196/A 197/B	R-34
161	Indore steel Casting pvt. Ltd.	Sector -F plot no. 27,28, Sanwer road	R-38
162	Jaishree Starch Chem Allied Pvt. Ltd.	Sec. F Sanwer road I/A P. no 137/AB	R-21
163	K.K. Inustries(Sanjay machine tools)	206/B, Sector-F, Industrial area Sanwer road	R-38
164	Kabir Industries	Shed No. 28, Sector-F,Sanwer road	R-40
165	Krishna Soap Factory	Plot No. 319, Sector-F, Sanwer Road	R-57
166	Lokpriya Engineering Works	289-B, Sector-F, Industrial Area I Sanwer road	R-38
167	M. S. Metal (Unit-I)	Sec. F Sanwer road I/A P. no 300	R-40
168	M. S. Metals (Unit-II)	Sec. F Sanwer road I/A P. no 297A	R-40
169	Mandi Govindgarh Steel Pvt. Ltd.	Sec. F Sanwer road I/A Indore P. no 61/1	R-38
170	Metmin Industries	Sec-F,P.No.169-B,I/A Sanwer road	R-38
171	National Steel Iron Works	Sec. F Sanwer road I/A P. no 92B	R-38
172	Neha Industries	Sector -F, plot no. 327-328, Sanwer road	R-40
173	Noble Industries	P.No. 296-B, Sector-F, I/A,Sanwer road	R-40
174	Om Steel Industries	95-B, Sector-F, Sanwer Road	R-39
175	Paliwal Metals	P. No. 235B,236, Sec-F, I/A, Sanwer Road	R-40
176	Pratik Industries	P. No. 249, Sec- F, I/A, Sanwer Road	R-40
177	Priti Industries	Sector -F, plot no. 95/A,-96/C, Sanwer road	R-40
178	Raghav Casting	P.No.-326, Sector-F, I/A, sanwer road	R-38
179	Rajat Manufacturing Co.	136/C-2 136-B Sector-F I/A Sanwer Road	R-40
180	S. N. Chemicals	Sec. F Sanwer road I/A P. no 70A	R-21
181	S.P. Industries	Plot No. 70/A-2, Sec-F, Industrial Area, Sanwer Road	R-57
182	Sameer Industries	Sec. F Sanwer road I/A P. no 131	R-40

183	Sandeep Soap Works	P.No. A-1, Sector-F,I/A,Sanwer road	R-57
184	Sanna Steel Industries	37-A, Sector-F, Sanwer Road	R-38
185	Shiv Tube mfg. Co.	Sec-F, P.No.255 ,I/A Sanwer Road	R-62
186	Singhi Metals pvt. Ltd.	65,Sector-F, Industrial Area Sanwer road	R-38
187	Tiara Metals Pvt. Ltd.	Plot No.62A/63/64, Sector-F,Sanwer Road	R-38
188	Tapaswi Falalen	Sector -F, Ind. Area, Sanwer Road	R-64
189	Asth Vinayak Enterprises	Sect-A, P.No.63-D,I/A Sanwe road	O-25
190	Bokadia wire	49-B Sector-A I/a Sanwer Road	O-25
191	Kabra Drugs Pvt. Ltd. (Unit-I)	Sec. A Sanwer road I/A P. no 26	O-19
192	Mittal Food Product (India) Industry	Plot No. 55, Sector-A, Sanwer Road	O-6
193	Monarch Pharmaceuticals (India) P.L.	Sec. A Sanwer road I/A Indore P. no 47C	O-19
194	Narendra & Co.	Sec. A Sanwer road I/A P. no 48/1	O-4
195	Nyati Pharma Pvt. Ltd.	P. No-16-A-B, & 21-A, Sec-A, Industrial Area, Sanwer Road	O-19
196	Jain Shri Food	Plot No. 14/B, Sector-B, Sanwer Road	O-21
197	Orient Wire Ropes	30-B, Sector-B, Sanwer Road	O-25
198	Wellchem Pharmaceuticals	Sec. B Sanwer road I/A P. no 14/4/1	O-19
199	Trend Chemicals	P.No. 9/A, Sector-C,I/A, Sanwer road	O-18
200	A.D.R. Food Pvt. Ltd	P.No.32-E, Sec-C, I/A, Sanwer road	O-6
201	Home Product corporation	10-A, I/A, Sector -C Sanwer road	O-21
202	M. P. Mineral Industries	P.No.-D13,Sector-C,I/A,Sanwer road	O-21
203	Vishwakarma Grih Udhog	Secor-C, P.No. 20I/A sanwer road	O-21
204	Greatest Food	Plot No. 135 & 147, Sector D2, Sanwer Road	O-6
205	Modern Vetcare Labs	Sec. D-2 Sanwer road I/A Indore P. no 46	O-19
206	Mahalaxmi Industries	165 Sector,D-2 I/A Sanwer road	O-6
207	Modern Laboratories	Sec. D-2 Sanwer road I/A Indore P. no45	O-19
208	R.R. laboratories	P.No.166, Sector-D-2, I/A sanwer road	O-19
209	Rishabh Chemicals Industries	Shade Noo 4 D-2 Sanwer road	O-19
210	Tulsi Amrit Pvt. Ltd.	Sec. D-2 Sanwer road I/A P. no 18	O-19
211	Adman Formulation Pvt. Ltd.	P. No 43/1, 44/B, Sec- E, I/A, Sanwer road	O-19
212	Akpash Pharmaceutical Pvt. Ltd.	P.No. 275, Sector-E, Sanwer Road	O-19
213	Aman Trading Co.	Sec. E Sanwer road I/A P. no 187/A	O-4
214	Anil Industries	Sec. E Sanwer road I/A P. no 95-96	O-4
215	Bapu Industries	44-A, 45-B, Sector-E, Sanwer Road	O-21
216	Biofil Chemicals & Pharmaceuticals Pvt. Ltd.	Sec. E Sanwer road I/A P. no 11/12	O-19
217	Italia Pharmaceuticals Pvt. Ltd.	Sec. E Sanwer road I/A P. no 57	O-19
218	Jairam Foods Industries	214, Sector-E, Sanwer Road	O-6
219	Joshi Industry	Plot no. 314-B,Sector-E, I/A sanwer road	O-21
220	Kilplay Pesticides	Sec. E Sanwer road I/A P. no 254	O-18

221	Malwa Wires Pvt. Ltd.	Sec. E Sanwer road I/A P. no 1,2,15,16	O-25
222	Maria Pharmaceuticals	Sec. E Sanwer road I/A Indore P. no 38A/B	O-19
223	MCW Health Care Pvt. Ltd.	286, Sector-E, Sawer Road	O-19
224	Mukesh Proteins	P. No. 96/A-2, Sector-E, Sanwer road I/A	O-4
225	New Ganesh Enterprises	Sec. E Sanwer road I/A P. no 258-B	O-21
226	Noble Drugs Pvt. Ltd.	Sec-E Sanwer road I/A P. no 309	O-19
227	Parshwanath fertilizer & chemical pvt. Ltd.	Sector -E, plot no. 242, Sanwer road	O-16
228	Reyman Lab Pvt. Ltd.	Sec. E Sanwer road I/A P. no 69	O-19
229	Risiga Agro (Indore) P. Ltd.	Sec.-ESanwer road I/A P. no 249A , 250B	O-18
230	Roopak Enterprises Pvt. Ltd.	Indore 27 Press Complex FF Saniwar Darpan	O-11
231	Sandhya chemical	Sec-E, 5B I/A sanwer road	O-11
232	Sellwell Pharmaceuticals Ltd.	Sec. E Sanwer road I/A P. no 92	O-19
233	Sovereign Remedies Pvt. Ltd	P.No.10B,11C, Sector-E, I/A, Sanwer road	O-19
234	Vishal Pharmaceuticals Laboratories	Sec. E Sanwer road I/A P. no 101A 100B	O-19
235	Welpure Pharma Pvt. Ltd.	Plot No. 241, Sector-E, Sanwer Road,	O-19
236	Dayal Food Product	33-34, Sector-E, Industrial Area, Sanwer Rd.	O-5
237	Ark Agro Foods	185-A, Sector-F, I/A sanwer road	O-6
238	Kisan Agro Chemicals	203-B, Sector-F, Sanwer Road	O-18
239	Arc Pharmaceuticals	Sec. F Sanwer road I/A P. no 216	O-19
240	Ashish Traders	A-76, Sector-F, I/A Sanwer road	O-6
241	Bio Medica Laboratories	254, Sector-F I/A Sanwe road	O-19
242	Deva Pesticides	41/B/2, Sector-F, Sanwer Road	O-18
243	Garima Health Care Pvt. Ltd.	Sector -F, plot no. 272, Sanwer road	O-19
244	Munimji & Sons	Sec. F Sanwer road I/A Indore P. no 284A	O-21
245	Nikem Drugs Pvt. Ltd	Sector -F, Plot no. -245, Sanwer road	O-19
246	Om Industries	70, Sector-E, Sanwer Road	O-6
247	Ordeal Laboratory	Sec-F,P.No-133-B,I/A Sanwer road	O-19
248	Pal & Pal Industries	Sec. F Sanwer road I/A P. no 40	O-25
249	Sudarshan Pharmaceuticals Pvt. Ltd.	Sec. F Sanwer road I/A P. no 17-B,18-A	O-19
250	Sudhir Mineral Mining Industry	Plot No. 10, Sector-F, I/A sanwer road	O-21
251	Sun Aj pharma	P.No. 119B, Sector-F, I/A sanwer road	O-19
252	Syndicate Pharma	Sec. F Sanwer road I/A P. no 188	O-19
253	Upzone Drug Pvt. Ltd	MPLUN Shed-No-32 Sector-F I/A sanwe road	O-19
254	Zest Pharma	Sec.F Sanwer road I/A P. no 275	O-19
255	Sudarshan Pharmaceuticals Pvt. Ltd.	17,18-A, Sector -F, Sanwer road	O-19
256	M. P. Beer Products (Bottling Plant)	P.No. 60A,62A, Sector-A, d	G-Other
257	Adroit Industries (I) Ltd.	P. No. 44-49, Sector-D2,	G-28
258	Indo-German Tool Room Ltd.	P. No. 29/B,302-A, Sector-E,	G-28

259	Recycle Waste	Plot No. 25-C, Sec-A, Industriel Area, Sanwer Road	G-39
260	Sagar Enterprises	Shed No. 3 & 4, Sector-A, Agarbatti Complex	G-Other
261	Agrawal Wire	P. No. 49-D, Sec- A, I/A, Sanwer road	G-39
262	Atharva Packaging	32-A, Sector-A, Sanwer Road	G-41
263	Bhama Enterprises(I) Pvt. Ltd.	Plot No. 51, Sector-A, Sanwer Road	G-39
264	Chokani Enterprises	331-D, Sector-A, Sanwer Road	G-39
265	D.& H.Welding Electrode (I) ltd.	P. No.-A Sector –A Sanwer Road I/a	G-Other
266	Globe Printing Inks	Sector-A, P.no. 16 I/A, sanwer road	G-36
267	J.B. Plastic	Plot No. E-3, Sector-A, Sanwer Road	G-39
268	M.B. Bakers	P.No. 27-33, Sector-A, I/A sanwer road	G-6
269	M.B. Food pvt. Ltd.	Sector-A,Plot. No. –2 industrial area, Sanwer road	G-6
270	M.P.Dyechem Industries	Sec. A Sanwer road I/A Indore P. no 59-63	G-Other
271	Malwa Goli Udyog	Plot No. 29-B, Sector-A, Sanwer Road	G-39
272	Modern Paints & Chemicals	51-B, Sector-A, Sanwer Road	G-36
273	Naughty Food Pvt. Ltd.	Plot No. A-1, Sector-A, Sanwer Road	G-6
274	Omega Rubber Industries	63, Sector-A, Sanwer Road	G-45
275	Pradeep Plastic Product	Sec. A Sanwer road I/A P. no 44-A/2	G-39
276	Pratap plastic Industry	44-A Sector-A I/A Sanwer Road	G-18
277	Prestige Feed Mills (Unit-I)	Sec. A Sanwer road I/A Indore P. no10B/11A	G-Other
278	Rajput Industries	Sec-A,P. no. 47-B, I/A Sanwer road	G-18
279	Ramesh Industries (Indore)	39/B Sector-A Sanwer Road I/A	G-39
280	Ravi Plastic Industry	15-C, Sector-A, Sanwer Road	G-39
281	Sai Plastic	47-A/2 Sector-A sanwer Road I/A	G-39
282	Sharma Rubber Industries	F-2, Sector-A, Industrial Area	G-18
283	Vinayak Print Product	4-E-1, Sector-A, Sanwer Road	G-41
284	Nandan Enterprises	Sec. B Sanwer road I/A P. no 108C	G-28
285	Aditya Agro International	Plot No. 92/A, Sector-B, Sanwer Road	G-28
286	Annapurna Industries.	Plot No.104-D, 105-A, Sector-B, Industrial Area	G-39
287	Capital Plastic Industries	Sector -B, plot no. 21-B, Sanwer road	G-18
288	Deepak Enterprises	Sec. B Sanwer road I/A P. no 36/A	G-38
289	Indian Rubber & Reclaims	Sec. B Sanwer road I/A P. no 1&2	G-34
290	Jain Engineering Works	Sec. B Sanwer road I/A P. no 109D	G-38
291	Khanwalkar Industries	Plot No. 36, Sector-B, Sanwer Road	G-28
292	Maa sunder shakti food Product	P.No.-15-A,Sector-B, I/A sanwer road	G-50
293	Neha Industries	Sector -B, plot no. 327-328, Sanwer road	G-38
294	Pahwa Rubber Industries	13-B, Sector-B, Industrial Area Sanwer road	G-45
295	Parshwanath Polymers Pvt. Ltd.	36-B, Sector-B, Sanwer Road	G-39
296	Prabhat Barrels	104, Sector-B, Sanwer Road	G-Other
297	Roshan Wornish Works	PlotNo. 14-C Sec-B, Industrial aria	G-36

298	Sagar Industries	103-C, Sector-B, Sanwer Road	G-18
299	Shakti Industries	Sec. B Sanwer road I/A P. no 105B	G-18
300	Shankar chemicals	15-B, Sector-B, Sanwer Road	G-34
301	Shri ji Corporation	Sec. B Sanwer road I/A P. no 108B	G-Other
302	Shri tiles & pipe industries	Sec-B, P.No. 12-A, I/A, sanwer road	G-Other
303	Suresh Chand & Company	112-B, 123-A, Sector-E, Sanwer Road	G-Other
304	Swastik Plastic Industries	Sec. B Sanwer road I/A P. no 33	G-38
305	Unique Printing Inks	105-D, Sector-B, Sanwer Road	G-36
306	Vijay Foot Ware Industries	Sec-B, P.No. 107-C, I/A, sanwer road	G-39
307	Vinayak Rubber Industries	36-G, Sector-B, Sanwer Road	G-45
308	Warsi sandal oil factory	93-Sector-B I/A Sanwe road	G-34
309	J.K. Plastic	P.N. 14-D, sec.- B, Industrial area sanwer road	G-39
310	Ryder trans International Pvt. Ltd.	P.No. 108-A, Sector-B Industrial area sanwer road	G-45
311	Bombay Scrap	Plot No. D-8, Sector-C, Sanwer Road	G-28
312	Lal Sai Industries	Plot No. 36-B, Sector-C, Sanwer Road	G-6
313	Agro Pipes	P. No. 34/A, Sec-C, I/A, Sanwer Road	G-39
314	Amrapali Handicraft	P.no.59-A Sector-C,I/A sanwer road	G-41
315	Anand Products	Plot No. 69C, Sector-C, Sanwer Road	G-6
316	Apurva agro product	39-C, Sector-A I/A Sanwe road	G-Other
317	Asha food Products	P.No. D-32, Sector-C, I/A sanwer road	G-6
318	Asha Udyog	16-B, Sector-C, Sanwer Road	G-39
319	Choksey Plastic	34-A, Sector-C, Sanwer Road	G-39
320	Gurunanak Plastic	E-48, Sector-C, Sanwer Road	G-18
321	Hindustan Equipment Pvt. Ltd.	Sec. C Sanwer road I/A P. no D-15	G-28
322	Indian Plastic Industry	37B, Sector-C, Sanwer Road	G-38
323	Jai kishan Agro Products	Sec. C Sanwer road I/A P. no C-3/4	G-Other
324	Khandelwal Sheet Processors	Plot no.C/44-5, Sector-C, I/A anwer road	G-28
325	Maheshwari Plastic	P.No. 72/B, sector-C, I/A sanwer road	G-39
326	Malav feed & fertilizers	P.No.C-44, Sector-C, I/A, Sanwer road	G-Other
327	Mohini plastic Industries	P.No.46/C&54/D, Sector-C, I/A sanwer road	G-38
328	Naaz Products	Sec. C Sanwer road I/A P. no E-59-A, E60-B, D-56	G-39
329	Pinlax	Sec. C Sanwer road I/A Indore P. no 24/B	G-39
330	Plasto Pack Industries	D/17/B- Sector-C sanwer Road I/a	G-39
331	R.k. Industries	P.No.D-5, Sector-C, I/A sanwer road	G-39
332	Rainbow Polymers	Plot No. B-2B/3, Sector-C, Sanwer Road	G-39
333	Salman Traders	Sec-C, P.No. D-19-B,I/A, sanwer Road	G-39
334	Sanjay Fabric	B-39, Sector-C, Sanwer Road	G-Other
335	Shri Kamla Industries	B-38/A, Sector-C, Odyogic Kshetra, Sanver Road,	G-15
336	Shri Sumati Agritrade & refineries	P.No. 40, Sector-C, I/A sanwer road	G-34

337	Sumati Plastic	40,I/4, Sector-C, Sanwer Road,	G-39
338	Sunny Paint & Tar Product	A/72 Sector-C I/A sanwr Road	G-36
339	Super Chem	P.No. D-34/B, Sector-C, Industrial area Sanwer road	G-36
340	Super Sam Industries	Plot. No. 56-A, Sec-C, I/A, Sanwe road	G-36
341	Vardhaman plastic	2/5B Sector-C Sanwer Road I/A	G-39
342	Varun Ice & Food Factory	E-42, B-8, 43-A, Sector-C, Sanwer Road	G-26
343	Veeson Plastic	Sector-C,P.no.-32/C,I/A sanwer road	G-39
344	A.K. Industries	Shade No. 41, Sec-D-2, I/A, Sanwer road	G-18
345	Aditya Agro Industries	Plot No. 14-C, Sector-D-2, Sanwer Road, I/A	G-28
346	Color N Colorants Pvt. Ltd.	17, Sector-D1, Sanwer Road	G-36
347	Cosco Industries	Sector -D-1, plot no.-14-B, Sanwer road	G-39
348	Jamboo plastic	P.No. 105-A,108-B, Sect-D I/A, sanwer road	G-39
349	Manoram paint	D-2/13 I/A Sanwer Road	G-36
350	Paras Udyog	Sec. D Sanwer road I/A P. no 102-105	G-39
351	Pooja Rubber Industries	Sector -D plot no. -B Sanwer road	G-18
352	Power Batteries(Transformer div.)	Sector -D-2, plot No. 156-157,Sanwer road	G-4
353	Power Electric & Electronics	Sector -D-2, plot No. 34,Sanwer road	G-4
354	Prafful Paint and Chimiical Product	16, Sector D-1 Indore Sanwer Road I/A	G-36
355	Prashant Udyog	Sec. D Sanwer road I/A P. no 125-126	G-18
356	Shantikung Pipe Industries	Sec-D, Shed No. 24,I/A Sanwer road	G-39
357	Shri nathji Industries	Sec. D Sanwer road I/A P. no 30/D-2	G-38
358	Shubra products	Sector -D-2, Shed No.-8,Sanwer road	G-39
359	Flexible Packaging	Plot No. 74/A-1 & Shed No. 26, Sec-D, Ind. Area, Sanwer Road	G-38
360	Innovative packaging	Plot No. 162-B, Sec-D, Industrial Area, Sanwer Road	G-Other
361	Avantika Gas Limited	247/1, 248/2, Sector-E, Sanwer Road	G-Other
362	Indore Tools Pvt. Ltd.	A-4, B, Ind. Area, Sanwer Road	G-28
363	Radiant Container Pvt. Ltd.	Plot No. 124/A, Sector-E, Sanwer Road	G-38
364	The Varun Industries	290/A, Sec-E, Industrial Area, Sanwer Road	G-6
365	Agrawal Traders	A-2, Sector-E, Sanwer Road,	G-15
366	Ambaji Industry	97-A, Sector-E, Sanwer Road,	G-39
367	Ankur Industries	P.No. 35-A,34-C,Sector-E,Industrial area, sanwer road	G-Other
368	Apex Plastic	Plot No. 306A, Sector-E, Sanwer Road	G-39
369	Blosam paint product	91, Sector-E I/A sanwer Road	G-36
370	Bright plastic	260, Sector-E, Industrial Area Sanwer road	G-18
371	Dewda Agro Industry	Plot No. 198, Sector-E, Sanwer Road	G-39
372	Diamond Paints	35-B, Sector-E, Sanwer Road	G-36
373	Harsh Plastic Industries	Sec. E Sanwer road I/A P. no 200	G-38
374	J.P. Industry	180-181 Sector-E I/A Sanwer Road	G-Other

375	Jai Laxmi Plastic Industries	220, Sector-E, Sanwer Road	G-39
376	Jai Mata Enterprises	A-8, B-9, Sector-E, Sanwer Road	G-39
377	Kartikeyan Industries	259, Sector-E, Sanwer Road	G-Other
378	Kedia Industries	Sec. E Sanwer road I/A P. no 81/C	G-18
379	Laxmi plastic	Plot. No. 77-B, Sector-E, I/A sanwer road	G-39
380	Malwa & Company	Plot No.5-B, Sector-E, Sanwer Road	G-36
381	Mamleshwar Trading Comp.	P.No.60, Sector-E, I/A, Sanwer road	G-Other
382	Mayur paint	Plot No. 30 Sector -E I/A Sanwer Road	G-36
383	Mehtab Tiles	Plot No.325/A, Sector-E, Sanwer Road	G-Other
384	Millennium Structure (I) Ltd.	Plot No. 53, Sector-E, Sanwer Road	G-28
385	National Paints & Chemicals Ind.	Plot No. 47/A, Sector_E, Sanwer Road	G-36
386	New Mayur Industries	A-6 B Sector -E sanwe rod I/A	G-39
387	New Shiv Shakti Industries	Sec. E Sanwer road I/A P. no 13	G-44
388	New Wander plastic	140-141 Sector-E Sanwe road I/A	G-18
389	P.J. Industries	P.No.-47B, Sector-E, I/A sanwer road	G-39
390	P.sons Polymers pvt ltd (unit-2)	Sec-E I/A sanwer road plot no. 282 B/2	G-18
391	Polytuff Industry	Plot No. 205, Sector-E, Sanwer Road	G-39
392	Poonam plastic Pvt. Ltd.	Sec-E, P.No. 209/A, sanwer road I/A	G-38
393	Precision Polymers pvt ltd	P.No.304-A,305-B, Sec-E I/A	G-39
394	Prime Plastic Industries	140, Sector-E, Sanwer Raod	G-18
395	Prime Products	105/A, Sector-E, Sanwer Road	G-38
396	Puja Industries	178/179 Sector-E sanweRoad	G-38
397	R.S. Industries	93-A, 93-C, Sector-E, Sanwer Road	G-39
398	Rahul Packaging Industries	Sec. E Sanwer road I/A P. no 206	G-39
399	Rajasthan Transfarmer & Electronic	225-B,226-A, Sector-E, Sanwer Road	G-4
400	Rajesh Plastic Industries	P.No.200, Sector-E, I/A sanwer road	G-39
401	Real soya product pvt. Ltd.	Sec-E, plot. No. 44-C, Industrial area S. R.	G-Other
402	Royal Ind.	Plot No.126 Sector-E I/A sanwer Road	G-36
403	S.P. Industries	Plot No. A-33, Sector-E, Sanwer Road	G-39
404	Sagosem Industries	C/E-7, E-8, Audyogic Kshetra, Sanver Road	G-15
405	Samrat plastic Industries	Sector -B, plot no.-31, Sanwer road	G-39
406	Samriddhi Bio Culture Pvt. Ltd.	Sec. E Sanwer road I/A P. no 263B 264A	G-Other
407	Shiv plastic	Sec-E, P.No.289 I/A sanwer road	G-39
408	Shri Arihant Industries	168,169, Sector-E, Sanwer Road,	G-39
409	Shri Balaji Resin Works	Sector-E, P.no.60, I/A sanwer road	G-Other
410	Shri ji plastic Industry	A-11/A Sector -E I/A Sanwer Road	G-18
411	Shri Mahaveer Industries	Plot no. 204, Sector-E, I/A Sanwer road	G-38
412	Shri Metals	P.No.46-A, Sector- E, I/A sanwer road	G-39
413	Shri plastic Industry	324-B Sector-E Sanwe road I/a	G-39

414	Shri Poly Industry	324/A Sector-E Sanwer road I/A	G-39
415	Singhal Industries	A-1-6, Sector-E, Audyogikl Kshetra	G-15
416	Sonic Industries	Sec. E Sanwer road I/A P. no 256	G-39
417	Sunita Pulses & Oil Mills	121-B/122-A, Sector-E, Audyogik Kshetra.,	G-15
418	Supreme Shoe Industry	187-A, 188-B, Sector-E, Sanwer Road	G-39
419	Three Star Industries	Sector-E, P. No.143,I/A, sanwer road	G-39
420	Vijay Industries	A-7/C Sector-E Sanwer road I/A	G-39
421	Virdi Metal Industries	Sec-E,P.No.202&209, I/A sanwer road	G-39
422	Vishal Industries	Plot No. 90-A, Sector-E, Sanwer Road	G-39
423	Vishkarma Trading Company	278, Sector-E, Sanwer Road,	G-Other
424	Wonder Polymers	Plot No. 139, Sector-E, Sanwer Road	G-18
425	Rajesh Steel	279-A, Sec-E, I/A, Sanwer Road	G-Other
426	Indore Metal Section	234, Sector-F, Sanwer Road	G-28
427	Acme Industries	P. No. 7-A, Sec-F, I/A, Sanwer road	G-39
428	Aditi Metal Casting & Pressing P. L.	P. No. 214, Sec- F, I/A, Sanwer road	G-Other
429	Arthav Polymers	Shed No. 25, MPLUN Sector-F, Sanwer Road	G-39
430	Arun Industry	13-B Sector-F Sanwer Road I/A	G-39
431	Cherry Paint & Polymers	Sec. F Sanwer road I/A P. no 23-A	G-Other
432	Devansh Industry	110-111, Sector-F, Sanwer Road	G-38
433	Dhan Laxmi Industries	Plot No. A-303, 304, 305, Sector-F, S. R.	G-18
434	Disisive Engineering Pvt. Ltd.	131A-1, Sector-F, Sanwer Road	G-28
435	Faisal Plast Industries	Sec. F Sanwer road I/A P. no 343	G-39
436	Global Packaging Technocrafts	Plot No. 317, Sector-F, Sanwer Road	G-28
437	Gokul Agro Products	Sec. F Sanwer road I/A P. no 117/B 118	G-Other
438	Gorani Industries Ltd	Plot No. 323, Sectpr-F, Sanwer Road	G-28
439	Hari Om Plastic	72-A, Sector-F I/A Sanwer Road	G-18
440	Himalya Food product	169/A-1 Sector-F, Sanwer Road	G-6
441	India Bottle House	Plot No. 309, Sec-F, Sanwer Road, Ind. Area	G-39
442	K.K. Pipe & Products Pvt. Ltd.	Plot No. 85/A, Sec-F, Industrial Area, S. R.	G-38
443	Kalpana Plastic & Chemicals	Plot No. 212A, 213 A, Sector-F, Sanwer Road	G-38
444	Mahalxmi plastic Ind	338, Sector-F I/A Sanwer Road	G-18
445	Majer Foot wair	76-77 Sector-F Sanwer Road	G-18
446	Nisha Fabrics	Plot No. 69-B, Sector-F, Sanwer Road	G-Other
447	Koyal Paper & Board Industries	Sec. E Sanwer road I/A P. no 28,29A	G-Other
448	Shagoon Paper & Board Mf. Co.	Sec. F Sanwer road I/A P. no 335,336A 344,345A	G-Other
449	Shri Yogesh Paper Industries	Sec-B, P.No. 12-A, I/A, sanwer road	G-Other
450	Jain Paper & Board Mill	Sec. F Sanwer road I/A P. no 267,268	G-Other
451	Jayesh Industries	P.No296-B,Sector-F, I/A sanwer road	G-Other
452	Om Industries	192-A, Sector-F, Sanwer Road	G-38

453	Paras Industries	71/A, Sector-F, I/A, Sanwer road	G-39
454	Pashupati Plywood Industries	Sec. F Sanwer road I/A Indore P. no 7,8,9	G-Other
455	Patel Chemical	Sector -F, plot no. -324 Sanwer road	G-36
456	Polite plastic product Unit-2	130B/2 Sector F saanwer Road I/A	G-39
457	Prakesh Industries	Sect-F, P.No. 24,25 I/A Sanwer road	G-39
458	R.S. Plastic	73-A, 74B, Sector-F, Sanwer Road	G-39
459	Rajkamal Industries	Sector -F, plot no. 289-A, Sanwer road	G-39
460	Rajshri plastic Industries	Sector -F, plot no. 101/B,102A, Sanwer road	G-18
461	Rayband Chemicals	Sec. F Sanwer road I/A P. no 22-23	G-36
462	Reliable Industries	303, Sector-F, Sanwer Road	G-36
463	Sainath fastnars And Engineers	185-A, 186-A Sector-F, I/A sanwer Road	G-28
464	Salewell Polymers	Sec. F Sanwer road I/A P. no 112B 115/A	G-45
465	Sanmati Udyog	Sec. F Sanwer road I/A P. no 148/A	G-Other
466	Shivman Polymers	Sec. F Sanwer road I/A P. no 237A, 246B	G-39
467	Siddharth Industries	Sec. F Sanwer road I/A Indore P. no 283	G-36
468	Sona Enterpries	P.No.339, Sector-F, I/A, Sanwer road	G-18
469	Sontex Rolled Bandage Works	15/-C, Sector-F, Sanwer Road	G-Other
470	Surya Tent & Furnitures	Sec. F Sanwer road I/A Indore P. no 273	G-21
471	Usha industries	P.No.277,278-279, Sector-F, I/A sanwer road	G-39
472	Vidhi Industries	Plot No. 184/A, Sec-F, Indusrirel Area, S. R. oad	G-38
473	Vinayak Shree Plastic Industries	137/A, Sector-F, Sanwer Road	G-39
474	Vinod Plastic Industries	Sec. F Sanwer road I/A P. no 106	G-18
475	Yogi Plastic	94-A, Sector-F, Sanwer Road	G-39
476	Rupam Industries	Plot No. 78/79/A, 80/A, Sector-F,	G-39
477	Kalpana Industry	214-A, Sector-F Ind. Area, Sanwer Rd.	G-38

2. SHIVAJI NAGAR-

Shivaji Nagar Industrial area is a oldest Industrial area in Indore. This ward having 57 hectare of land. Maximum land area covered by closed textile industrial Land. It was started to establish from the time of Holkers. Between the 1950 to 1990 this area was a cluster of textile mills. Initially this area was outside of the town. Gradually by civilization this area becomes full of residential and commercial activities. All the textile units become closed in previous 20 years, the land of these industries are still vacant. Some SSI was also in this area but at present only 10 industries is left in scattered manner.

Total No. of industries registered in the board 10 out of which red category units are 5, and green are 5. In the industrial area Shivaji nagar there are 9 water polluting industries total

quantity of industrial effluent generated from Shivaji Nagar industrial area is 0.004 MLD.

Details are as follows:-

S.No.	Name of Industries / Unit	Address	Category
	Small scale industries		
1	Archit Udyog	Plot No. 41, Shilnath Camp, Opp. Kalyan Mill	R-21
2	Atulit chemical products Pvt. Ltd.	41,shilnath Camp open Kalyan Mill	R-21
3	Bhagwan das harkishan & Comp.	P.No. 339 Shivaji Nagar	R-64
4	Mittal Udyog	Indore 15 Shivaji Nagar	R-39
5	Vidyut Metalics	49, Shilnath Camp	R-64
6	CIL TextilePvt. Ltd.	Plot No. 35/2, 35/3, Shilnath Camp	G-21
7	Goyal Varnishs	Plot No. 1/11, Shivaji Nagar	G-36
8	Shri Shakti Rice & Pulse Mills	44, Shilnath Camp	G-34
9	Unimac Industry	1/5-Shivaji Nagar	G-18
10	United Metals (India)	Shilnath Camp Indore 42	G-28

3. POLO GROUND

Pologround industrial area is a small industrial area. Situated in mid of the town, is a part of Ban ganga ward. There are so many types of industries in this area. Maximum units are fabrication industries. Some are anodizing, foundry, textile and other type of industries. Only one basic drug unit is running having well equipped ETP.

Total No. of industries registered in the board are 41 out of which red category units are 18, Orange 06 and green are 17. In the industrial area Pologround there are 9 water polluting industries total quantity of industrial effluent generated from Pologround industrial area is 0.052 MLD. Details are as follows:-

S.No.	Name of Industries / Unit	Address	Category
	Medium major		
1	Ipca Laboratories Ltd.	P.No.89A-B/90/91Ind. state Ploground, Indor	R-12
	Small scale industries		
2	Chandan Garments	100/101,Pologround Industrial state	R-64
3	Diamond Ffinishing	Pologround I/A A-3/D, I/A	R-39

4	H.K. Manufacturing Cimpany	F-5-A I/A pologround	R-39
5	Jash Precision Tools Ltd.	P.No.-87,Polo ground I/A	R-38
6	M.P. Metal Industries	22, Industrial Area Pologround	R-39
7	Malwa Foundry & Steel works	4,2,10,Blok-D Industrial Area Pologround	R-38
8	National Metal Industries	Bhagirath Pura Indore 314	R-38
9	Perfect powder Coting	Shade No. B-11, Industrial Area Pologround	R-39
10	Quality Electroplaters pvt ltd	P.No.17-A Pologround	R-37
11	Raj Machinery Industries	G-2C & G-3C, Pologround Industrial Area	R-38
12	S.K. Metal Works	F-1-A, Pologround Industrial Estate	R-38
13	Satisfaction Product Ltd.	Pologround I/A P No	R-39
14	Supreme Chemicals Industries	Pologround I/A P No 55,56	R-21
15	The Premier Engineering Works	Plot No. G-6(B&C), Pologround Industrial Area	R-37
16	Tirupati Alloy & Steel Pvt. ltd	40, I/A Ploground	R-38
17	Raghav Industry	P.No.31/1 & 31/A-1, Pologround	R-38
18	Ramesh Dhali Centre	31-B, PoloGround	R-38
19	Arya Pharmaceuticals	Polo ground I/A P No 111-C	O-19
20	ASPI and Co.	6,ABCD/1,Pologroud I/A area	O-15
21	Dave Masala Pvt. Ltd.	Plot No. 21, Industrial Estate, Pologround	O-6
22	Kalpana Lamp Components Industries	Polo ground I/A P No 8B4/A	O-25
23	Pure Pharma Ltd.	Pologround I/A P No 41-42,44	O-19
24	Cyano Pharma Pvt. Ltd.	P.No. 115-C,Industrial Estate pologround	O-19
25	Asian Metal Industries	Ploground , G-2/DI/A	G-39
26	Banners	Plot No. 11/B-1, Pologround Industrial Area	G-41
27	Crown Plastic Industry	A-1/D Pologround I/A	G-39
28	Jawahar ice factory & Cold Storage	P.No.103,104 Industrial Estate Pologround	G-26
29	Kohinoor Elastic Pvt. Ltd.	50,51,60,61, Pologround Industrial Area	G-Other
30	M. P. Transfarmer	115-A I/A Ploground	G-4
31	M.P. Transfarmer Pvt. Ltd.	Plot No. 115/A, Industrial Area, Pologround	G-4
32	Malwa Confectionary	85-A Pologround Industrial area	G-6
33	Polymech	G-3/A, I/A, Pologround	G-39
34	Precision Gears(Unit-I)	B-16, Pologround	G-28
35	Raunak Paint Works	Pologround I/A Indore P No D110	G-36
36	Shakuntal Enterprises	A/10, Pologround	G-39
37	Sharda textile	P.No.34-A, polo groud, I/A	G-Other
38	Super Rubber Industries	69-D, Pologrond Industrial Area	G-45
39	Varun Enterprises	Plot No. 27 & 34/B, Industrial Area, Pologround	G-6
40	Madhya Pradesh Transfarmer	74-71/1,Pologround	G-4
41	V.G. Buiscut & Bread Factory	88, Pologround	G-6

4. LAXMI BAI NAGAR

Laxmibai nagar industrial area is a small industrial area, Situated in the west side of town. This ward area is 145 hectares, there is some part is covered for industrial activity. This is a mix type industrial area. Maximum units are food processing industries. Some are small foundry, Pharmulation, plastic and other type of industries.

Total No. of industries registered in the board are 51 out of which red category units are 10, Orange 08 and green are 33. In the industrial area Laxmibai nagar there are 7 water polluting industries, total quantity of industrial effluent generated from Laxmibai nagar industrial area is 0.077 MLD. Details are as follows:-

S.No	Name of Industries / Unit	Address	Category
	Medium major		
1	Tata steel	Near fort, Kila Maidan , Indore	R-39
2	D. & H. Secheron Electrodes	44,46 Ind.Area Kila madian,	G-Other
	Small Scale Industry		
3	Manish Electronic	33/B/A/1, Laxmibai Nagar	R-40
4	Mridul Laundry	Plot No-333/A/1, Laxmibai Nagar	R-64
5	Krishna Enterprises	Fort I/A Laxmibai Nagar P No 21	R-38
6	Satyam Eletroplater	57-A Rambali Nager	R-37
7	Savitri enterprises	22-B, laxmibai Nagar Kila Maidan	R-38
8	Shri jai Maata ki Udhyog	47-C, laxmibai Nager Kila Maidan	R-38
9	Shri Ratan Metal Industries	48-B laxmi Bai nager	R-38
10	Sunita Electroplaters	Rambali Nagar P No 7/A	R-37
11	Unic industrial product	19, Ram bali nag	R-38
12	Amsar Private Limited	Fort I/A Laxmibai Nagar P No 47	O-19
13	Arya Aushadhi Pharmaceutica	35-A/5, Laxmibai Bagar, Ind. Estate	O-19
14	Malwa Agro Food P. Ltd.	35-B, Laxmibai Nagar	O-4
15	Maru Enterprises	28, Rambali Nagar	O-21
16	Promed Laboratories Pvt. Ltd.	Fort I/A Laxmibai Nagar P No 35-A/4,35-B/2	O-19
17	Radha Krishna flour milling corporation	Plot no. 79/A New Industrial area	O-4
18	Shah Khubaji Achalchand Jain	34-D, Industrial Area Laxmi Bai nager	O-21
19	Shilpa Chem Industries	Fort I/A Laxmibai Nagar P No 47-D	O-19
20	Ad Plast	50-B, Rambali Nagar	G-38
21	Adroid Ind.	50-A, Laxmibai Nager	G-28
22	Anand Industries	12-Rambali nager	G-41
23	Blow Pack Industries	RambaliNnager, 20-A	G-39

24	Classic Plastic	21 Rambali Nagar	G-39
25	Commercial paint & Chemical Work	48,-C Laxmibai Fort	G-36
26	Jai kishan Agro Products	3,Rambali Nagar	G-Other
27	Kamal Plastic Ind.	45, Rambali Nagar	G-39
28	M.P. Polymers	33/B,A, Laxmibai Nagar	G-39
29	Methodex System Ltd	35-A, Laxmibai Nagar, Industrial Area	G-28
30	Nagda Electricals Pvt. Ltd.	Fort I/A Laxmibai Nagar P No 33/A/1	G-16
31	Nakoda Poli Pack	63 Ram bali Nager	G-39
32	Pact Plast	Sector -F, Shed no-16., Sanwer road	G-39
33	Parul plastic	Rambali nager ,12	G-39
34	Perfact Packaging	24/11 LUN Campous Kila Madian	G-41
35	Populer bread & food products	30,I/A Laxmibai nager	G-6
36	Prakash Namkeen Udyog	P.No. 33-B, Industrial area Laxmibai nagar	G-6
37	Precision Gears(Unit-II)	8-1, Laxmibai Nagar, Industrial Area	G-28
38	Pushpraj Enterprises	Plot No. 31-B, Rambali Nagar	G-4
39	Quality Packaging	Rambali nager ,2/3,	G-41
40	Shri Mahavir Ind	27-A Laxmibai nager	G-36
41	Siddharth Plastic	41, Rambali Nagar	G-39
42	Siddharth Polymers	15, Rambali Nagar	G-39
43	Solar Battery Manufacturing Company	Rambali Nagar P No 11B	G-38
44	Sona Confectionary	10, Rambali Nagar	G-6
45	Sonotronics (India)	13-A ,Laxmi bai nager I/A fort	G-38
46	Sunny Industry	33/B, A-3, Laxmibai Nagar	G-18
47	Vijay Industries	Fort I/A Laxmibai Nagar 24/3 MPLUN	G-16
48	Vijay Poly Plast Industries	48-B, Ram Bali Nagar	G-39
49	Vishal bravaries Pvt ltd	43-A Laxmibai Nager I/A	G-38
50	Vishal paint	48/C Laxmi Bai Nfoart	G-36
51	Vishal Wire Industries	Fort I/A Laxmibai Nagar 31/16 MPLUN	G-16

5. Sch. No. 71-

Scheme No. 71 industrial area is a very small industrial area. Situated at south-west side of the town. Sirpur ward area is 342 hectares, there is a very few part is covered for industrial activity. This is a mix type industrial area. Maximum units are food confectionary industries. Some are small printing, plastic, fabrication and other type of industries.

Total No. of industries registered in the board are 22 out of which all are of green category. In the industrial area Scheme No.-71, there are 2 water polluting industries, total quantity of industrial effluent generated from Sch, No. 71 industrial area is 0.012 MLD. Details are as follows:-

S.No.	Name of Industru/Unit	Address	Category
	Small scale industries		
1	Ashok Kumar Mohanlal Jain	267-268, KA, Schime No-71, Mechenic Nagar, Dhar Road	G-Other
2	Mona Cosmetic Pvt. Ltd.	Plot No. 20-H-1, Scheme No.71, Sector-A, Dhar Road	G-Other
3	N.S. Traders	Plot No. 17-A, 32, S, Schme No-71, Dhar Road	G-38
4	Advance Packaging	P. No- 20, E-1, K, Scheme No. 71 Dhar Road	G-39
5	Alka Industries	1A/A, Scheme No. 71, Dhar Road,	G-15
6	Ashok Neel Manufacturers Pvt.ltd.	P.NO.2-A Scheme No. 71, Near Chandan Nagar	G-13
7	Goodluck Plastic Industries	Plot No. 1/1, Mechanic Nagar, Scheme No. 71, Dhar Road	G-39
8	Hi tech Plastic	Dhar Rd I/A Scheme 71 Sec A P No 12-E	G-39
9	Jai Ambe Flexo Print	13-B, Scheme No. 71, Dhar Road	G-41
10	Kaka Confectionary	17, Scheme No.71, Dhar Road	G-6
11	Mahalaxmi Plastic	Dhar Road Indore Scheme 71 P no B-1-B1	G-39
12	Marvi Packaging	2D, Scheme No. 71 Dhar Road	G-41
13	Mohit Pulses	1-A,/A-Sch. no. 71, Audyogic Kshtra, Dhar Rd	G-15
14	Narayanji Shankerlal Garg	Scheme No. 71, Sector-A, Plot No. 10/B/1	G-15
15	Naughty Food Products	16, H-1, Sector-A, Dhar Road	G-6
16	New Food Packaging	1-B-1, Sector-A, Scheme no. 71, Dhar Road	G-38
17	Newton Food Products	D1-12, Scheme No.71	G-6
18	Newton Food Products	8-H/1, Scheme No. 71	G-6
19	Paraspar Marriage Garden	Scheme No. 71, Sector-C	G-Other
20	Roto Printers	6-E, Scheme No. 71, Dhar Road	G-41
21	Shri Hari Pulses	Plot No.-1, Scheme No. 71, Audyogic Kshetra, Dhar Road,	G-15
22	Advans Roto flex	P. No. 24-25-D-1, sector -A, Scheme No. 71, dhar road	G-41

6. NAVLAKHA

Nawlakha industrial area is situated in heart of the town. Nawlakha ward area is 361 hectares, there is a small part is covered for industrial activity. Maximum part is developed as residential / commercial zone. This industrial area is a Pulse mill cluster. So

there is no industrial waste discharging to public sewage. Mostly domestic waste is generating from this area.

Total No. of industries registered in the board are 19 out of which all are of green category. In the industrial area Navlakha, there is no water pollutin, so no Industrial water discharges from units. Details of existing units are as follows:-

S.No.	Name of Industru/Unit	Address	Category
	Small Scale Industry		
1	Shri Girish Dall Mill	20/21, Udyog Nagar, Navlakha	G-15
2	Agrawal Bandhu Trading Co.	83, Navlakha, 18, New Dewas Road,	G-15
3	Agrawal Pulses & Polyshers	T.S.-41, Navlakha Main Road,	G-15
4	Amrit Dall Mill	78-79 Shankar Bagh, Navlakha,	G-15
5	Aysuh Industries	Plot No. 80, Navlakha	G-39
6	Bramha Shakti Dall Mill	12-A, Navlakha	G-15
7	Damodar Murlilal Agrawal	P.S.- 25, Navlakha	G-15
8	Devi Traders	80, Shankar Bagh, Navlakha	G-15
9	Dinesh Dall Mill	7-B, Navlakha	G-15
10	GhanshyamPulses	14-A, Navlakha,Indore 82,Agrawal Nag	G-15
11	Govind Dall Mill	7-B, Navlakha	G-15
12	J. Omprakash & Brothers	15-A, Navlakha	G-15
13	Mahalxmi dall mill	83, Navlkha main road	G-15
14	Maheshwari Pulses	80, Navlakha Main Road	G-15
15	Punjab Oil Mills	Indore Navlakha Rd 30	G-34
16	Shivnarayan Kanhailal Dall Mill (Mohanlal Ganeshilal)	3, Navlakha	G-15
17	Shri Girish Dall Mill	7-B, Navlakha	G-15
18	Shri Janak Industries	78-79, Shanker Bagh, Navlakha	G-15
19	Suraj Dal & Oil Mill	80, Navlakha	G-15

7. PIPLIYA RAO

Pipliya rao industrial area is a small ind. Area. Situated in heart of the town near Bhanwer kuan and Pipliya pala park. Dwarkapuri ward area is 526 hectares, small part of which is covered for industrial activity. Maximum part is developed as residential / commercial zone. This industrial area is a covered by agriculture pipe manufacturing units. Only one unit is food processing industry except food unit all are non polluting units.

Total No. of industries registered in the board are 17 out of which red category units are 01, Orange 01 and green are 15. In the industrial area Pipliyarao, there are 4 water polluting industries, total quantity of industrial effluent generated from Pipliyarao industrial area is 0.013 MLD. Details are as follows:-

S.No	Name of Industries / Unit	Address	Category
	Small scale industry		
1	Sudha Organics	Vill. PipalyaRao A. B. Road	R-12
2	Hello Indo food products Pvt. Ltd.	118/5, Pipliyarao	O-6
3	BCC Realtors Pvt. Ltd.	Pipliya rao A.B. road	G-Other
4	Agro Plast	174/3, Piplyarao,	G-39
5	Aman Metals	Vill. PipalyaRao A. B. Rdoad	G-39
6	Arya-o-Plast	282/3, Pipyarao	G-39
7	Ashoka Plastic Industries	Vill. PipalyaRao A. B. Rd	G-39
8	Choudhry Pipe	279/1, Piplyarao	G-39
9	Gurukripa Industries	169/3, Pipyarao	G-39
10	Narmada Pipe	118, Pipliyarao	G-39
11	Raj Ratan Technique & Technology Pvt. Ltd., Indore	11/1, Piplyarao, Bholaram Ustad Marg	G-39
12	Rubi Polythene Product Pipe	176, Pipyarao	G-39
13	Sangam Palace Garden	Pipliya rao,P.No.180/1,A.B. Road	G-Other
14	Sonam Plastic Industries	Vill. PipalyaRao A. B. Road	G-39
15	Suresil packaging Pvt. Ltd.	Vill. PipalyaRao A. B. Road	G-39
16	Swapnil Engg. & Agro Products	Plot No. 282, Piplyrao. A.B. Road	G-39
17	Swastic Enterpries	269/1, Pipliya rao	G-50

8. PALDA

Palda industrial area is basically a mix zone of commercial / industrial uses. This area having viajy industrial area, R.D. udhyog nagar, Khandelwal compound, Samta nagar, Dhanlakmi udhyog nagar, Agarwal udhyog nagar, Mangal udhyog nagar and pathhar mudla road. These are all private industrial areas. Major number of industries in this area are food proceesing indutry Like flour mill, masala udhyog, dall mill etc. Some waste water generation food processing industries like confectionary and pharma having own

facilities of treatment. Infra structure of these areas are very poor like kaccha road, damage sewer line, lacking of green area causing dust pollution in whole area.

Total No. of industries registered in the board are 237 units, out of which red category units are 10, Orange 32 and green are 195. In the industrial area Palda, there are 15 water polluting industries, total quantity of industrial effluent generated from Palda, industrial area is 0.179 MLD. Details are as follows:-

S.No	Name of Industries / Unit	Address	Category
	Medium major		
1	Pratap snex	Khasra No. 378/1/4/3-4, Palda, Indore	O-6
2	Prakash sneks	Khasra No. 378/1/4/3-4, Palda, Indore	O-6
	Small Scale Industry		
3	Iconic Bituminous Pvt. Ltd.	Godown No. 45/1, Nayta Mundla	R-32
4	Super Developers	Patwari Halka No. 25, Malikhedi, Newawar Road	R-32
5	Tiveni Udyog	Khara No. 336/1, Gram -Palda	R-57
6	Diamond Crystal P. Ltd.	Gram Kapaliya Khedi, Nemawar Road	R-29
7	Highway Enterprises	Patwari halka no. 13, Gram Mundla Nayata	R-32
8	Krish Enterprises	309/A-1, Udyog Nagar, Palda	R-21
9	New Bharat Radiater	44, Industrial Area, Palda (Behind Tata Steel)	R-37
10	Renu Industries	Palda Indore R D Udyog Nagar P No	R-40
11	Sanjay manufacturing company	44, Sajjan Nager	R-39
12	Sears Chemicals	Palda Indore sanjay gandhi Nagar pathar mundla	R-21
13	Abil Health Care Pvt. Ltd	Plot No. 311, Palda, Nemawar Road	O-19
14	Adcon Lab	50-B, Khandelwal Compound	O-19
15	Banwari Agro Industries	32-Mangal Udyog Nagar, Palda	O-4
16	Hightech Pharma	49, Khandelwal Compound, Palda	O-19
17	P.R.K. Commodities Pvt. Ltd.	Survey No. 87/5, Himmat Nagar Road, Gram-Palda	O-21
18	Pallavi Food Products	Halka No. 26, Survey No. 333/42, Behind Agrawal Toll Kata,	O-6
19	Pride Wires Pvt. Ltd.	269/1, Palda, Pathar Mundla Road	O-25
20	Vinayk Home Industries	310/4/2, Gram Palda	O-21
21	Shree Radha Gopal Flour Mills	Khasra no. 212/1, Pathar Mundla Road, Palda	O-4
22	Gaurav Products	P. No. 26, Survey No. 332/2/9, Palda	O-6
23	Bagdi Agro	304/3, Palda Udyog Nagar	O-6
24	Goyal Industries	Plot No. 11- Mangal, Udhog Nagar, Palda	O-4

25	J.K. Formulation	Survey No. 204/3/3, Gram- Palda	O-19
26	Nandini Medical Laboratories Pvt. Ltd.	Nemabar Rd indore Vill Bicholi Hapsi	O-19
27	Narmada Agro	Khasra No.213/1, Palda, Near Tejaji Chowk	O-4
28	Prem Pharmaceuticals	Nemabar Rd indore Osan Bag	O-19
29	S.M.S. Labs	Khasra No. 327, Plot No. 53A, Palda	O-19
30	Salin Stone Plast	356/2Nemaber Road Udoge Nager	O-21
31	Sanjay Traders	Survey No. 356/2, Nemawar Road, Palda	O-21
32	Shri balaji Agro industries	32, Mangal Udyog nager , palda	O-4
33	Shri Kailash Grain Mill Pvt. Ltd.	Survey No. 6/2/1, North Musa Khedi	O-4
34	Shri Shri Dwarka Ji Foods Pvt. Ltd.	K.No. 335/1/2/2 Palda Nemawar road	O-6
35	Shri Tirupati Agritech Pvt. Ltd.	Plot No. 26, Survey No. 306/2/1, Udyog Nagar	O-4
36	Sita Shree Food Product Ltd	332/4/2, R.D. Udyog Nagar	O-4
37	Sunita Atul	Gram - Tillore Khurd	O-22
38	Swastik Agency	Khasra No. 204/3/2, Samta Nagar, Palda	O-21
39	Yash Enterprises	Khasra No. 313-6-C, Patwari Halka No. 26, Gram Palda	O-6
40	Krishna Trading Company	P.No.24 Vijay Udoge Nagar	O-21
41	Max Chemicals (India)	S.No. 334/1/1/18 & 334/2/10 Gram Palda	O-19
42	Vijaay Masala Bhandare	Gram -Palda, Bholaram compound	O-21
43	Ankit Enterprises	370/4,Mushakhedi, Nemawar road	G-39
44	Ashok Marble Udyog	Survey No. 333, Nemawar Road, Gram-Palda	G-Other
45	B.K. Agrawal Warehouse Pvt. Ltd.	Survey No. 4/1/1, Nemavar Road Gram- Mundla Nayta	G-49
46	Balaji Oils Pvt. Ltd.	Survey No. 363/1/2/4/2, Gram- Asrawad Bujurg	G-34
47	Balaji Plastic	Survey No. 314, Palda, Nemawar road	G-39
48	Bhagya Shree Industries	338/1-1, Agrawal Udyog Nagar	G-34
49	D.M. Pulses	21, R.D. Udyog Nagar	G-15
50	Dhanlaxmi Enterprises	310/4/2, Gram Palda	G-Other
51	Dinesh Dall Mill	108- Chitavad Road, Near Palda Naka	G-15
52	Hariom Steels	Shade No. 361, Musakhedi, Nr. Kumudani Petro Pump,	G-28
53	Indison Agro Food Ltd (Unit-2)	336/2, Gram Palda	G-15
54	Jadgamba Ice & cold Storage Pvt. Ltd.	Nemawar Road, Palda	G-13
55	Kedia Enterprises	Patwari Halka No. 25, Survey No. 366/3/2, Village Palda	G-49
56	Lakhani Foot Care Pvt. Ltd.(unit-II)	39, 38/A, Udyog Nagar, Devguradia	G-18
57	M.S. Corporation Agro Marketing	300,331,332, R.D. Udyog Nagar	G-15
58	Mark Food Product	Survey No. 366/2, New Agrawal Udyog Nagar,	G-6
59	Monty Confectionary	Survey No. 366/2, New Agrawal Udyog Nagar,	G-6
60	Nidhi Traders (Unit-2)	29A, 33A, R.D. Udyog Nagar	G-15
61	R.J. Pulses	12, R.D. Udyog Nagar	G-15
62	R.R. Roto Industries	Survey No. 2 & 3, Naya Mundla, Nr. Jairam	G-38

		Tolkanta,	
63	Sukhmani Industries	338/1-1, Palda	G-34
64	Suresh Chand Ramesh Chand	1/367, Palda	G-15
65	Suresh Chand Ramesh Chand	6-7, Udyog Nagar	G-15
66	Vardhaman Dal Mill	48-B, Udyog Nagar, Devguradia Road	G-15
67	Vijay Pulses	349/350, Udyog Nagar	G-15
68	Wood Craft Manufacturing Co.	Survey No. 305/2, Gram-Palda, Udyog Nagar	G-Other
69	Suprimo Tube Pvt. Ltd.	Patwari Halka No. 26-Naya, Gram- Palda,	G-39
70	Teen Ekka Foods Pvt. Ltd.	Patwari Halka No. 26, Survey No. 323/6/9, Gram Palda	G-15
71	Grasim Industries, Ltd.	Patwari Halka No. 370/1/5/2, Palda	G-Other
72	Indison Agro Food Ltd(Unit-3)	17 sajan Nagar,	G-15
73	Adarsh Agritech pvt. Ltd.	40, Udhog nager, Devguradia	G-15
74	Advance BioTech Industries & Research Inputs India	35/2, Vijay Nagar, Nemawar Road	G-Other
75	Agrawal Industries	34/2, R.D Udhog Nager	G-15
76	Agroha Enterprises Pvt. Ltd.	374/2, Dhanlaxmi Udyog Nagar,	G-15
77	Alien Laboratory	184-M, COC Compound, Pathar Mundla Road, Palda	G-6
78	Ambar Confectionary Pvt. Ltd.	365/5, New Agrawal Udyog Nagar	G-6
79	Anand Latex	296/1, Pathar Mundla Road, Palda	G-45
80	Anand Pulses	Khasra No. 204/3/6, Village Palda	G-15
81	Anish Industries	366/3 Agrawal udoge nager	G-15
82	Ankit Food	8/2 Dhanlakshmi Udyog Nagar,	G-15
83	Apsara Pulses	19, Udyog Nagar, Devguradiya	G-15
84	Apurva Pulses	22, Udyog nager	G-15
85	Archan Flexo Art	30, R.D. Udyog Nagar,	G-39
86	Ashish pulses	23/2 Sajan Nagar	G-15
87	Asiad Paints	45, Mangal Compound	G-36
88	Avhinandan Pulse Mill	178/1/3, Palda	G-15
89	Balkrishna ramkaran Goyal	Musakhadi	G-Other
90	Bansal Food Industries	35R.D Udoge Nagar	G-15
91	Bhagvet pulses	Pthermulda road Survey No. 200/1	G-15
92	Bhagy shali traders	108- Devguradia Road, Palda	G-Other
93	Bhuru cutters	Survey No. 334/1/41 Palda, Nemawar road	G-28
94	Creative Packaging	2104/2, Khandelwal Compound, Palda	G-39
95	Dhanlaxmi Industries (Raj Laxmi)	Palda R D Udyog Nagar P No 41	G-Other
96	Dinesh kumer govindlal dall mill	35/A, Udoge nager Navlakha	G-15
97	Durga Industries	Plot No. 23, Mangal Udhog Nagar, Nemawar Road	G-Other
98	Emar Poly Pack Industries	Plot No. 24, Vijay Udyog Nagar	G-38
99	G.D.M. food	329/2 Nemawar road	G-15

100	G.J. Traders (Natraj Corporation)	8, Udyog Nagar, Nemawar Road	G-15
101	Ganesh pulses pvt. Ltd.	336/2 gram palda	G-15
102	Ghanshayam Dall mill	K. no. 366/2 Gram palda Agrwal udoge nager	G-15
103	Ghanshyam Udoge	11-A, Udoge nager navlakha	G-15
104	Goyal Foods	5, R.D. Udyog Nagar	G-15
105	Grasim Industries Ltd.	Khasra No. 370/1/5, Palda	G-Other
106	Gurukripa Polymers	Palda Indore R D Udyog Nagar P No 329/1	G-38
107	Hanuman Industries	366/3 Agrawal udoge nager	G-15
108	Hindustan Polymers	Plot No. 8, Khandelwal Compound, Palda	G-36
109	Hot melt packaging p. ltd.	Shidarshan Nagar Nemaver Road	G-38
110	Indisan agro food Oils	310 Puther mulda road	G-15
111	Indrasan Cement product	Survey no. 243/6,245/4&246/7 gram Nayta mundla	G-Other
112	Ishwar Industries	Survey No. 310/1/1/1, Gram Palda	G-Other
113	J.K. Pulse Manufacturing Pvt. Ltd.	140 Devguradia	G-15
114	Jagannath Ramgopal Dall Mill	3/A, Vijay Udyog Nagar, Palda Road	G-15
115	Jagdish Industries	2, Udyog Nagar, Devguradiya Road	G-15
116	Jagnnath Mangilal Goyal	33 R.D. Udyog Nagar	G-15
117	Jai Industries	8, R.D. Udyog Nagar, Devguradiya Road	G-15
118	Jai Shri Pulses	15, Udyog Nagar, Nemawar Road	G-15
119	Japica paint	4-Hani farm House Namaver Road	G-36
120	Jindal Inustries	38, Udoge nager Devguradia road	G-15
121	Jitendra Udyog	7-B, Dhanlaxmi Udyog Nagar	G-15
122	K.S. Industries	Plot No. 30/P/D, RDA Udyog Nagar	G-6
123	Kaluram Surajmal	204/3/4, Samta nagar	G-15
124	Kastur Pulses Mill	336/5, Agrawal Udyog Nagar, Nemawar Road, Palda	G-15
125	KNK Beverages	311, Khandelwal Ufyog Compound. Palda	G-32
126	Krishn mohan overses(india) pvt. Ltd.	1, Dhanlaxmi Devduradia road Udoge nager	G-15
127	Lakhani Foot Care Pvt. Ltd.	Nemavar Road, 5/2 Mile Stone	G-18
128	Lala Pulses	108- Chitavad Road, Near Palda naka	G-15
129	Laxmi grah udoge	310/1/1/5 Tajaji choke gram palda	G-15
130	M.G. Food Product	Survey No. 335/1/2/2, New Agarawal Udyog Nagar	G-6
131	Madan Oil Ind.	3, Vijay Udoge Nagar	G-34
132	Madhur Pulses	310/1/2/4, Tejaji Chowk, Gram-Palda	G-15
133	Madhuram Pulses	249,250 Moosakhedi	G-15
134	Mahak Industries	329/3/4/, Mangal Udyog Nagar	G-34
135	Maharaja Cable	5, Vijay Udyog Nagar	G-39
136	Mahendra Industries	46, Vijay Udoge PladaNager	G-6
137	Mangal Pulses	8, Udyog Nagar, Devguradiya Road,	G-15

138	Manish Enterprises	179, Patthar Mundla Road, Palda, Inn	G-15
139	Maya Oil Industry	21, Mangal Udyog Nagar	G-34
140	Mayank Pulses (Sainath Ind.)	108- Devguradia Road, Palda	G-15
141	Mehul Pulses	23/2, Sajan Nagar	G-15
142	Mittal Grah Udyog	29, R.D. Udoge Nagar, Palda	G-15
143	Mohan Lal Vijay Kumar Dal Mill	310, Patthar Mundla Road	G-15
144	Monika Industries	23/2, Sajan Nagar,	G-15
145	Moral Fiber Pvt. Ltd.	Plot No. 4, Agrawal Udyog Nagar, Palda	G-38
146	N.K.V. Ind	7- V.R. Compound Palda Namaver Road	G-36
147	Nanak Overseas	30-A, Udyog Nagar, Devguradiya Road	G-15
148	Narayan Plastic	45, Vijay Udyog Nagar	G-39
149	Narendra Dall Mill	38, R.D. Udyog Nagar, Devguradiya Road,	G-15
150	Natraj Dall Mill	159, Sajan Nagar	G-15
151	Natraj Tiles	Survey No. 309/1/1, Gram Palda	G-Other
152	Natrue Fresh Storage Pvt. Ltd.	Survey No. 205-210, Palda	G-13
153	Navjeevan Dall Mill	13-14-B, Udyog Nagar,	G-15
154	Neelam Industries	52-C, Udyog Nagar, Devguradiya Road,	G-15
155	Nidhi Traders	29, A.R.T. Udyog Nagar	G-15
156	Om Industries	6, Udyog Nagar, Devguradiya Road, Ind	G-15
157	Orient Agro Foods & Feeds	5, Udyog Nagar, Bholaram Compound	G-Other
158	Paras Udyog	23/2 Sajan Nagar,	G-15
159	Parul trading	Plot no. 10 of 320/2 Udhog nager, palda, Nemawer road	G-Other
160	Pavan Dall Mill	30, Navlakha,	G-15
161	Pavan Industries	7B,Navlakha Road	G-15
162	Prashant electrode (old name Sagar meta	44-B, Mangel Udog nager Palda	G-Other
163	Premasukh Indorilal	28, R.D. Udyog Nagar, Palda	G-15
164	Prime Foods	159, Chitawad Road	G-15
165	Priya Industries	Nemabar Rd indore udyog Nagar P No 31	G-34
166	Purushottam Ganeshi Lal	2-B, Udyog Nagar	G-15
167	R.k. pulses	20,udog Nager	G-15
168	Radheshyam Vijay Kumar Dall Mill	23/2, Chitawad Road, Sajan	G-15
169	Raja agro Industries	P.No. 179/4, Palda	G-15
170	Rajat Agro Comodities Pvt. Ltd.	Khasra No. 90/1/1 & 89, Gram-Palda, Near Shakti toul kanta,	G-15
171	Rama Agro Industries	367/1, Agrawal Udyog, Palda	G-15
172	Ramniwas Jagdish Chandra	3, R.D. Udyog Nagar, Devguradiya Road,	G-15
173	Ramswarpoop Shivnarayan Goyal	25 A.T.N., Navlakha Nagar	G-15
174	Rathi Pulses Mills	32, R.D. Udyog Nagar, Devguradiya	G-15
175	Riddhi Industries	Palda Indore R D Udyog Nagar P No	G-34

176	Ridhi-Sidhi Food Product,	Dhanlaxmi Udyog Nagar, Plot-1,	G-15
177	Sachin Pulses	48-E, Devguradiya Road	G-15
178	Sachin Udyog	48-E, Devguradiya Road	G-15
179	Sampat Pulses	Nemawer road Devguradiaya road	G-15
180	Sangeeta grah udhyog	36, R.D. Udyog Nagar, Devguradiya Road	G-15
181	Santosh Udyog	34/2, R.D. Udyog Nagar, Devguradiya Road	G-15
182	Satish Industries	2/1, Navlakha Main Roa	G-15
183	Satish Industries Pvt.Ltd.	310/1 Gram-Palda	G-15
184	Satrita Traders	80, Shankar Bagh, Navlakha	G-15
185	Shalin Overseas	356/2, Mukesh Khedi, Nemawar Road	G-15
186	Sharad Trading Corporation	336/7, New Agrwal Udyog Nagar	G-15
187	Sharad Udhyog	366/3 Agrawal udyog nagar	G-15
188	Shatish trading corp.	310/1/3 Pather mulda road Near tajaji choke	G-15
189	Sheetal Industries	29-A, Udyog Nagar, Nemawar Road	G-15
190	Shiv Kripa Entrprises	Agrval Udog Nager Nemaber Muthraval Calony Road	G-38
191	Shiv shanker Pulse Mill	30/6, Navlakha	G-15
192	Shiv shanker Udyog	Sajan Nagar	G-15
193	Shri Balaji Industries	369/1/7-8, Udhhyog nager, Nemawer road	G-34
194	Shri Kalpana Dall Mill	20-21-B, Udyog Nagar	G-15
195	Shri Laxmi Niwas Exports Pvt. Ltd.	Halka No. 26, Survey No. 366/3/2, Agrawal Udhhyog Nagar,	G-49
196	Shri Mangal Udyog	8 B, Udyog Nagar Devguradia	G-15
197	Shri Nath Trading Corporation	203-k, Palda, Indore	G-15
198	Shri Ram Industries	336/3, Agrawal Udyog Nagar	G-15
199	Shri Ram Pulse Mill	4, Udyog Nagar, Devguradiya Road	G-15
200	Shri Sadhu Dall Mill	Khasara 334/2,/4, Agrawal Udyog Nagar, Palda	G-15
201	Shri Sanjay Dall Mill & Besan Mill	336/7, Palda	G-15
202	Shri Vijay Dal Udyog	1, R.D. Udhhyog Nagar	G-15
203	Shrichand Idandar	323/6/1/1, Gram Palda, Nemawar Road	G-49
204	Sidharth Agro Industries	7/A, Dhanlaxmi Udyog Nagar, Musakhedi, Nemawar Road,	G-15
205	Sidhi Vinayak Food Pvt. Ltd.	Survey No. 363, Moosakhedi, S.D.A. Udyog Nagar	G-15
206	Sonal Industris	2, R.D. Udyog, Devguradiya Road	G-15
207	Sourabh Polyplast	Vill. Moosa Kheri	G-39
208	Sudarshan Pulses	249-250, Musakhedi, Devguradiya Road	G-15
209	Sumit Pulses	362/1/1 Musakhadi Namaver road	G-15
210	Sunil Industries	11, Udhhyog Nagar	G-15
211	Surendra Dall Mill	23/2, Sajan Nagar	G-15
212	Swagat udhyog	Udyog 310, Tejaji Chowk Gram-Palda.	G-15
213	Swastik Dal & Besan Mill	Sanjay Gandhi Nagar, pathar Mundla Road,	G-15

214	Swastik Dal Mill	T.S 15 A, Navlakha	G-15
215	Tanay ind.	27,R.D. Udhog nagar	G-15
216	Tirupati Chemical	Shade No.4 Bhlaram Pehlavan Compound Plada Udoge Nager	G-36
217	Totla Brothers	323/3, Palda	G-34
218	Usha Dall Mill	108- Chitavad Road, Near Palda Naka	G-15
219	Uttam Dall Mill	179/1,Palda	G-15
220	Varun Foods	31-32, Marbal Colony, R.D. Udyog Nagar	G-15
221	Varun Industries	Khasra No. 322, Gram Palda	G-39
222	Vasrha Aqua Industries	178/1, Pathar Mudla Road, Palda	G-32
223	Vinay Industries	21, Udyog Nagar, Devguradiya Road	G-15
224	Vishnu Agro Industries	369/7, Musakhedi,Udyog nagar, Nemawar Road	G-15
225	Vyanktesh Industries	7, Udyog Nagar,	G-15
226	Yash Enterprises	11, Vijay Udyog Ngar	G-39
227	Anand Pulses	310, Tejaji Chouk, Gram Palda,	G-15
228	Maa Mansa Industries	310/1/1/1, Patthar mundla Road, Palda	G-15
229	Dharamdas Mahboobmal	Plot No. 11, R.D. Udhog Nagar	G-15
230	Agrawal Overseas	334/214, Agrawal Udhog Nagar, Palda	G-15
231	Evergreen Paints	P.No. 334/1-2, R.D. Udoge Nagar Nemawaar road	G-36
232	Mahadev Confectionary	333/47/34/4, Gram Palda	G-6
233	Parash Food Product	P.No. 360/1, Musakhadi	G-6
234	Polite Paint	K.No. 310/4/2, Tajai choke Gram Palda	G-36
235	Shri Ganesh Enterprises	1/3, Vijay Udyog Nagar , palda	G-Other
236	Shriram Traders	24-25, Vijay Udhog Nagar	G-Other
237	Vinayak Paint	360/1, Rakhodi, Nemawer Road	G-36

9. RAU

Rau industrial area is developed by AKVN. This is also mix type industrial area. Maximum fabrication units are established in this area. Some other polluting or Non polluting industries are food, confectionary/bakery, Pharma, Recyclers, Pesticide pharmulation, battery assembling etc.

Total No. of industries registered in the board are 58 out of which red category units are 12, Orange 13 and green are 33. In the industrial area Rau, there are 15 water polluting industries, total quantity of industrial effluent generated from Rau, industrial area is 0.111 MLD. Details are as follows:-

S.No.	Name of Industries / Unit	Address	Category
	Medium major		
1	Indira Export P. Ltd.	Rau A.B. road, Dist. -Indore	R-64
	Small Scale Industry		
2	Apolo Pharmachem	25, Rau Industrial area	R-12
3	Aman Industries	P. No. 86-B, Ind. Area, Rau,	R-38
4	Shanti Ganga Industries	Khasra No. 478/1, Rau Industrial Area	R-40
5	Shri Ganga Industries	1/A-2, Rau Industrial Area	R-40
6	ACE Engineering & Chemicals Pvt. Ltd.	Plot No. 48, Rau Industrial Area	R-29
7	Amar Manufacturing Works	17,18, Rau Industrail Area	R-38
8	GulmoharChemicals pvt. Ltd.	Rangwasa Road I/A Rau	R-21
9	J.P. Techno Plast (p.J.)	P.No. 106,110 I/A Rau	R-40
10	K.K. Industries	115, Rau Industrail Area	R-38
11	Real Anodizer	41-42, Industrial Area, Rau,	R-18
12	Satpal Industries	7/A, Rau Industrial Area	R-38
13	Abinav Industries	A-1,Rau Industrial Area	O-6
14	Dextrin Remedies	32, Industrial Area, Rau	O-19
15	Advance Cropcare (India) Pvt. Ltd.	Plot No. 20,21,24,25 Industrial Area Rangwasa road, Rau,	O-18
16	Atul Agro & Food Product	P. No.- 12, I/A, Rau	O-4
17	Bhardwaj Pharmaceutical works	Survey No. 538/1, T.B. Sanitorium Road, Ra	O-19
18	Lordsons Agro Overseas Pvt. Ltd.	Survey no. 648/5, Gram Rangvawasa	O-18
19	Mahalaxmi Pure Food	37-38, Rau Industrial Area	O-4
20	Nakrali Dhani (Rau)	Rau Industrial Area, Rau	O-8
21	Satyam Biotech	Plot No. 74-A, Industrial Area, Rau	O-18
22	Shakuntala Laxminarayan Chohan	Khasra No.1/2/6, 1/2/10, Rangawasa	O-22
23	Shakuntala Nagori	Survey No. 47/738/3/2 & 47/738/3 Rangwasa	O-22
24	Vital Crop Science Pvt. Ltd.	1-C, Rau Industrial Area, Extention	O-18
25	Zenith drugs p. lt.	P.No. 35-A,36, I/A, Rau	O-19
26	Bharti Airtel Ltd	9/30, Ram Rahim Nagar, Rau	G-Other
27	Bharti Airtel Ltd	239, A.B. Road, Rau	G-Other
28	R.D.C. Concrete(India) Ltd.	Survey No. 75/1,-5-A, Village Rau, A.B. Ro	G-Other
29	Wireless T.T. Info Service Ltd.	12.35, Senotrym Road, Ram Rahim Color Rau	G-Other
30	Shree Vinayaka Oackaging Solution	Plot No. 81, Rau, Industrial Area	G-39
31	Adarsh Sheet Grih	Rau Sanatorium Road, Rau	G-13
32	Bee Plast	37-38, Industrial Area, Rau	G-39

33	Dhanuka Cold Storage Pvt. Ltd.	K.No. 358,359 Gram Pigdamber Rau	G-13
34	Ezzy Paints	Rau I/A P No 2/B	G-36
35	Golden Cold Storage & Vegetables	K.No. 514/2 Village-Rau	G-13
36	Indore Biotech Inputs & Research	Rau Indore Cooperative Cold storage campu	G-Other
37	Kag Batteries	B-3, AKVN Industrial Area, Rangwasa	G-38
38	Kag Enterprises	B-4, AKVN Industrial Area, Rangwasa	G-38
39	Kissan Sheet Grih(rao) Pvt. Ltd.	K.No. 748/1,751 Vilage Rao	G-13
40	Kripal Industries	9-A, Industrial Area, Rau	G-36
41	Maa Annapurna Ice & Cold Storage	K.No. 257, Gram Rau, Rau Mandi ro Behind Shramik Colony	G-13
42	National Power Reasearch Laboratories	74-B, 78-A, Rau Industrial Area	G-16
43	Nimbus foods limited	Rau, Plot no. 86-A,87 I/A(Ext) Cat road	G-6
44	Sai poli printers	P. No. 44,I/A near nakhrali dhani Rau	G-41
45	Sanjana Cold Storage Pvt. Ltd	Near Sanjay road CAT road Village-Rau	G-13
46	Shri Arika Foods	Vill. Sonvay Teh. Mahu	G-6
47	Shri Jashna Plast Pack	Industrial Area, Rau, Plot no. 49	G-39
48	Shri Shyam Enterprises	139, Industrial area Rau	G-38
49	Shyam Oil Product	Rau I/A P No 12	G-34
50	Signet Rubber Industry	Rau I/A(New) P No 113-114	G-45
51	Spil Industries	25,26,27, Rau Industrial Area	G-45
52	Suley Cold Storage	Khasra No. 478/1/2, Rau Pithampur Road	G-13
53	Super cable Ind.	104-105 Rau Ext. I/A Rau	G-39
54	Tender Sips	Rau I/A P No 29B	G-Other
55	Toyo Plast pack (p) Ltd.	45, Industrial Area Rau	G-39
56	Varsha packaging Industries	Rau Plot no. 29-A,30-A Industrial Area	G-39
57	Western Organics	Khasra No. 204/4 Gram Dehari,	G-Other
58	Hiren Plastic	Plot No. 29-A/1 & 30-A/1, Industrial Area	G-39

10. Mangliya

Mangliya industrial area is situated beside A.B. Road near mangliya village 13 km away from Indore. In this area mainly medium major scale industries are established like dairy plant, solvent extraction, vegetable oil refinery, vanaspati plant and Storage of petroleum product.

Total No. of industries registered in the board are 13 out of which red category units are 11 and green are 02. In the industrial area Mangliya, there are 6 water polluting industries, total quantity of industrial effluent generated from Mangliya, industrial area is 0.952 MLD. Details are as follows:-

S.No	Name of Industries / Unit	Address	Category
	Medium major		
1	Indore Dugdh Sangh mydt.(Cattle Feed Factory)	Chanda Talawali Mangliya. Dist. -Indore	G-Other
2	Bharat Petroleum Corporation Ltd. Bulk depo	Mangliya Installation, Mangliya Sanwer road Mangliya Distt.-Indore	R-46
3	Bharat Petroleum Corporation Ltd. installation	Mangliya Installation, Mangliya Sanwer road Mangliya Distt.-Indore	R-46
4	Ruchi soya location - II	Village-Mangliya gaon.A.B. road Indore Distt. Indore	R-63
5	Ruchi soya G & F divi	A.B. Road Mangliya. Distt. Indore	R-63
6	Ruchi soya location -III	A.B. Road Mangliya. Distt. Indore	R-63
7	Ruchi Soya Industries Ltd. (V. & F.)	Talawalichanda,A.B. Road Mangliya Dist.-Indore	R-63
8	Ruchi Soya Industries Ltd. (Export Divn.)	Talawalichanda,A.B. Road Mangliya Dist.-Indore	R-63
9	Hindustan Petroleum Corporation (Bulk division)	Opp. Railway Station Mangliya, Indore	R-46
10	Hindustan Petroleum Corporation (LPG Bottling)	Opp. Railway Station Mangliya, Indore	R-46
11	Indian Oil Corporation Ltd. Bulk Petroleum Depot.)	A.B. Road Mangliya. Distt. Indore	R-46
12	Indore Dugdh Sangh mydt.	Chanda Talawali Mangliya. Dist. -Indore	R-43
	Small Scale Industry		
13	Bharti Airtel Ltd	Patwari Halka No. 20/1, Village Mangliya	G-Other

11. Rajoda

Rajoda is a small village at sanwer road 14 Km. away from indore. This is not a industrial area. There are two major industry M/s Rama Phosphate is a chemical fertilizer and Rama Phosphate, solvent extracting and refinery unit, are located.

Total No. of industries registered in the board are 05, Red category unit are 2, orange 2 and 1 is green category unit.

In this area Rajoda, there are only 2 water polluting industries of a group, total quantity of industrial effluent generated from these industries is 0.109 MLD. Details are as follows:-

S.No.	Name of Industries / Unit	Address	Category
	Medium major		
1	Rama Phosphate Ltd. (S.S.P.-Sulphuric Acid)	20/6 Km stone Dharmपुरी Ujjain Road Indore	R-7
2	Rama Phosphate Ltd. (Oil Division)	20/6 Km stone Dharmपुरी Ujjain Road Indore	R-63
3	Swastik Spintex Ltd.	Gram - rajoda, sanwer road, Indore	O-2
	Small Scale Industry		
4	Rama Phosphate Fertilizer Ltd. (NKP Div)	20/4, Mile Stone, Indore Ujjain Road, Gram-Dharmपुरी	O-16
5	Shrivastav Cold Storage	Khasra No. 327/1, Village Rajaoda	G-13

12. Barlai

Barlai is a small village at Indore Dewas road 15 Km. away from indore. This is not a industrial area. Only one major closed industry M/s Barlai sugar mill was situated in this village jurisdiction. This is a closed sugar manufacturing unit since last 10 years.

13. Asrawad

Asrawad is a small village at Nemawer road 08 Km. away from Indore. This is not a industrial area. Only one major industry M/s PDPL is situated in this village jurisdiction. Total No. of industries registered in the board is only 1 orange category unit.

In this area Asrawad area, there is only 1 water polluting industry is situated, total quantity of industrial effluent generated from this unit is 0.053 MLD.

S.No.	Name of Industru/Unit	Address	Category
	Medium major		
1	Parantral Drug (I) Ltd.	Gram- Asraved Bjurgh, Nemaver road , Dist. Indor	O-19

14. Tejpur Gadbad

Tejpur gadbad is not a industrial area. This area is in middle of the town at indore mhow road near choithram sabji mandi. Only two small scale industries are rolling mills and other steel castin unit are running in this area others are non polluting units. One solvent plant is closed since long back.

Total No. of industries registered in the board of this area are 02 out of which red category units is 01 and other is green.

S.No.	Name of Industries / Unit	Address	Category
	Small scale industy		
1	Sardar Ispat / Ram Darshan Rolling Mill Pvt. Ltd.	Indore Tejpur Gadbad	R-38
2	Devi Shree Ahilya Shakari Vipan & Prakri Maryadit	S.No. 281/2,284/2,&283 A.B.road	G-13

2.4 Effluent Disposal Method- Recipient water bodies etc.

Discharge of treated trade effluent is not permitted into the water bodies. All the industries are directed to apply treated trade effluent with specific standards to land for agriculture/ gardening purpose. Stringent standards of 30 BOD for the treated effluent applied for gardening is imposed in the consent granted by the Board. However due to non availability of effluent, SSI units are discharging the effluent into the near by nala.

2.5 Quantification of wastewater pollution load and relative contribution by different sources viz. industrial/domestic

The major source of wastewater pollution is untreated sewage disposed from Indore municipal corporation area and adjacent pockets of habitation. 200 MLD of sewage is generated and only 90 MLD is treated. The industrial pollution generated from the industrial sector is as follows

Cluster name	No. effluent gene-rating industries	Quantity of effluent in MLD
Sanwer Road	106	0.622
Shivaji Nagar	03	0.004

Pologround	09	0.052
Laxmibai Nagar	07	0.077
Sc. No. 71	02	0.012
Navlakha	00	0.009
Piplia Rao	04	0.013
Palda	15	0.179
Rau	08	0.111
Mangliya	06	0.952
Rajoda	02	0.109
Barlai	00	0.0
Asrawad	01	0.053
Tejpur Gadbadi	00	0.0
Total	163	2.199

2.6 Action Plan for compliance and control of pollution

2.6.1 Existing infrastructure facilities – water quality monitoring network, ETPs, CETP, Sewage Treatment Plant of industry (STPs), surface drainage system, effluent conveyance channels/outfalls, etc.

Large and medium scale industries are having own treatment facility consists of primary, secondary and tertiary treatment. Most of these industries have adequate land for the disposal of their treated effluent, but the disposal of treated effluent is not in a scientific manner in many cases. Small scale industries have provided primary treatment facility and are inadequate to treat the effluent to prescribed standards. The substandard effluent generated from such industries is being disposed in the environment. Most of the small scale cottage type water polluting industries are unable to provide full-fledged treatment due to lack of finance, thereby causing water pollution by discharging substandard effluent on land or outside of the premises. To overcome this problem CETP is necessary. A common effluent treatment plant is essential to overcome this scenario Specially for Sanwer Road.

Present Status of CETP

No CETP is existing The CETP for Sanwer Road industrial area is under planning stage.

2.6.2 Pollution control measures installed by Industries

Details of major water polluting units and control measures are as follows:-

S.No.	Name	Area	Category	Product	W/W in KLD	ETP Detail
1	M. P .Beer Product Pvt. Ltd.(Beer Plant)	Sector-A	Red	Bear	185	ET,PST,AT,SST,SDB
2	M. P. Beer Products (Bottling Plant)	Sector-A	Green	Bottling of IMFL	15	ET,PST,AT,SST,SDB
3	Metalman Industries Ltd.	Sector-B	Red	Steel Pipe Tube, Black & Galvanising	10	ET
4	Indian soya	Sector-D	Red	Veg. oil refinery	25	ET,PST,AT,SST,SDB
5	Indo-German Tool Room Ltd.	Sector-E	Green	Machine job work	2.5	Septic tankSoak pit
6	Recycle Waste	Sector-A	Green	Polythene Bags & Other Plastic Item	0.2	ET,RT,PST,SDB
7	Sagar Enterprises	Sector-A	Green	Drum Washing	1.5	Nil
8	Sarvottam Vegetable Refinery Pvt. Ltd.	Sector-A	Red	Refined Oil	30	ET,PST,AT,SST,SDB
9	Anurag Metal Forms Pvt. Ltd.	Sector-A	Red	Soya Milk, Paneer	1	ET
10	Kabra Drugs Pvt. Ltd. (Unit-I)	Sector-A	Orange	Pharmaceutical Item, Anesthetic Chemicals, Surgical Sprit for Tool Washing	0.5	ET,RT,PST,SDB
11	Mittal Food Product (India) Industry	Sector-A	Orange	Pickle (Murabba, Chatni, Tomato Sos)	0.8	ET
12	Monarch Pharmaceuticals (India) Pvt. Ltd.	Sector-A	Orange	Pharmaceutical Tablet, Chlorine Tablet, Pharmaceutical powder, Pharmaceutical Capsule	0.6	ET
13	Navjeevan dying & Printing	Sector-A	Red	Color, Water Softener, Salt	0.5	Soak pit/Septic tank
14	Navyug cement Product (Nakoda Anodizing Center)	Sector-A	Red	Aluminum section Anodizing	1.5	ET,RT,PST,SDB

15	Sai Machin tools	Sector-A	Red	Plastic prosising plant & Mansary Production, Crom Plating	1.5	ET
16	Sunita Chemicals	Sector-A	Red	Basic drug	5.5	ET,RT,PST,SDB
17	Vora Chemicals	Sector-A	Red	Metal Salt, Reactivation of activated carbon	0.5	Soak pit/Septic tank
18	Vora Wires Industries India Ltd.	Sector-A	Red	G.I. Wire, G.I.State wire	13	ET,RT,PST,SDB
19	Nyati Pharma Pvt. Ltd.	Sector-A	Orange	Herbal Product	0.1	ET
20	Dasmesh Industries	Sector-B	Red	Job Work of Galvanizing	0.15	ET
21	Mahalaxmi Industries	Sector-B	Red	Job Work of Galvanizing	0.15	ET
22	Prabhat Barrels	Sector-B	Green	Drum Washing	1.5	ET,RT,PST,SDB
23	Sears Phytochem Ltd.	Sector-B	Red	Pyrophsporical Chloride, Ninhydrine	0.5	ET
24	Texpro Industries	Sector-B	Red	Cavas dying(Job work)	5	ET,RT,PST,SDB
25	Vishal Fabricators	Sector-B	Red	components of Electrical Equipment with plating & Awwmbly	1	ET,RT,PST,SDB
26	Wellchem Pharmaceuticals	Sector-B	Orange	Pharmaceuticals Drug & Food Nutrients, Tablet	0.3	ET
27	Lal Sai Industries	Sector-C	Green	All Type of Confectionary, Toffe	0.5	Soak pit/Septic tank
28	A.D.R. Food Pvt. Ltd	Sector-C	Orange	Jam Jelly & Juice Flavored water Mouth freshner	0.5	Soak pit
29	Jash Textile Mill Pvt. Ltd	Sector-C	Red	Readymade Cloth Dying/Washing	4.5	ET,RT,PST,SDB
30	K.D.M.Textiles processors & Consultants	Sector-C	Red	Bleaching & Dying of cloth	10	ET,RT,PST,SDB
31	M.P. Bright Bars Mfg.	Sector-C	Red	Bright Brass	0.5	ET,RT,PST,SDB
32	Mohini plastic Industries	Sector-C	Green	Filament roap	1.5	ET,RT,PST,SDB
33	Panchsheel Organics Ltd.	Sector-C	Red	Basic Drug	3	ET,RT,PST,SDB
34	Pioneer Dying & Printing work	Sector-C	Red	Bleaching & Dying	5	ET,RT,PST,SDB
35	Prem Textile (Internation) pvt. Ltd.	Sector-C	Red	Sizing of Yarn	1.5	ET

36	Quality Fabrics	Sector-C	Red	Dying & Wagter Proofing Cloth	3.5	ET,RT,PST,SDB
37	Samaria Processing Co.	Sector-C	Red	Cotton Cloths,Cloth dying& bleaching work, Printing Work	60	ET,PST,AT,SST,SDB
38	Sanjay Fabric	Sector-C	Green	Fallolene Cloth	0.2	ET,RT,PST,SDB
39	Shankar Threads pvt. Ltd.	Sector-C	Red	Bleaching & Dying of yarn	3.5	ET,RT,PST,SDB
40	Shrijee Dyeing	Sector-C	Red	Dyieng of Fallen Cloth (Job Work)	0.3	ET,RT,PST,SDB
41	Varun Ice & Food Factory	Sector-C	Green	Ice	0.5	Soak pit/Septic tank
42	Vikas Florochem Pvt. Ltd.	Sector-C	Red	Sodium Silica fluride	0.3	ET,RT,PST,SDB
43	Balaji Dying	Sector-C	Red	Falane Dying	3	ET,RT,PST,SDB
44	Greatest Food	Sector-D	Orange	Namkeen	0.1	Soak pit/Septic tank
45	Chinmai Chemicals	Sector-D	Red	Bromhexine, Ninhydrine, Hydroxyl amine, Dexamethasone, Betmehason, Betamethasone di propionate. Silver sulphadiazine USP, Cltrimazlc I.P.	0.5	ET
46	Gurjar Chemical Pvt. Ltd.	Sector-D	Red	Mercuric Choloride, Mercurous Chloride, Ammoniated Mercuric Chloride, Mercuric Oxide	0.1	Soakpit
47	Mahalaxmi Industries	Sector-D	Orange	Parmal Nirman	1	Soak pit/Septic tank
48	Modern Laboratories	Sector-D	Orange	All types of injaction/ drops, Liquid Oral, capsule	0.7	ET,RT,PST,SDB
49	Pushpnath Oversies Pvt. Ltd.	Sector-D	Red	Cloth processing & Dying	6	ET,RT,PST,SDB
50	R.R. laboretories	Sector-D	Orange	Injection & Eye drop	0.5	ET
51	Tulsi Amrit Pvt. Ltd.	Sector-D	Orange	Harbel Extraction	0.5	ET
52	Vidyut Electroplaters	Sector-D	Red	Electroplating Job Work	0.5	ET,RT,PST,SDB
53	Ruchi Febrics	Sector-D	Red	Canwas Dying	0.2	ET
54	The Varun Industries	Sector-E	Green	Confectionary	0.5	Soak pit/Septic tank
55	Adman Formulation Pvt. Ltd.	Sector-E	Orange	Pharmaceutical Liquid, Pharmaceuticals ointment	0.2	ET
56	Akpash Pharmaceutical Pvt. Ltd.	Sector-E	Orange	Tablet, Capsule, Liquid, powder	1	ET,RT,PST,SDB
57	Akshat Textiles	Sector-E	Red	Sizing	0.3	Soak pit/Septic tank

58	Amay Drugs	Sector-E	Red	Dexamthasan Sodium Sulphat, Bitamathasone sodium phosphate, Herbal Product	0.2	Soak pit/Septic tank
59	Ankur Industries	Sector-E	Green	Drum washing	1.5	ET,RT,PST,SDB
60	Arihant milk product	Sector-E	Red	Ghee	4	ET
61	Biofil Chemicals & Pharmaceuticals Pvt. Ltd.	Sector-E	Orange	Injatibale, Capsule, Dry Syrup, Eye Drop, Powder	3	ET,RT,PST,SDB
62	Cytochem Industries Pvt. Ltd.	Sector-E	Red	Erythromycin Stear pate	0.3	ET
63	Dewda Agro Industry	Sector-E	Green	Plastic Granules by Plastic Waste Recycling	0.1	Septik tank
64	Good Luck Dying and Printing	Sector-E	Red	Dying&Printing of Cloth Job work	0.2	ET
65	H. D. Wires Pvt. Ltd.	Sector-E	Red	G.I. Wires, PicklingM.S. Wires, Welded Mesh, Ruffing Nail	8	ET,RT,PST,SDB
66	Jai Mata Enterprises	Sector-E	Green	P.V.C. Granule	0.2	Soak pit/Septic tank
67	Jairam Foods Industries	Sector-E	Orange	Pickle(Murabba, Chatni, Tomato Sos.	0.7	Soak pit/Septic tank
68	Koyal Paper & Board Industries	Sector-E	Green	Gray Paper Board	0.5	ET
69	MCW Health Care Pvt. Ltd.	Sector-E	Orange	Syrup, Tablets	1.5	ET,RT,PST,SDB
70	Noble Drugs Pvt. Ltd.	Sector-E	Orange	Tablet, Capsule , Liquid	0.6	ET
71	Polytuff Industry	Sector-E	Green	Plastic Granule & Other Plastic Product	0.2	Soak pit/Septic tank
72	Reyman Lab Pvt. Ltd. (Rajesh Laboratories)	Sector-E	Orange	Tablet, Capsule, liquid	0.3	ET
73	Roopak Enterprises Pvt. Ltd.	Sector-E	Orange	Organic Synthesis, Analytical ,Davelpment& TencoNeal	1.6	ET,RT,PST,SDB
74	S. & H. Hardware	Sector-E	Red	Aluminum anodizing	1.5	ET
75	Sellwell Pharmaceuticals Ltd.	Sector-E	Orange	Tablet , Eye/ear drop, Injection, powder, capsules	1.5	ET,RT,PST,SDB
76	Sovereign Remedies Pvt. Ltd	Sector-E	Orange	Capsule, Ointment, suspension/Solution, Lotion/ Elelixir, Powder/Dry Syrup/Premix	0.5	ET,RT,PST,SDB
77	Unidrug Innovative Pharma Technologies Ltd.	Sector-E	Red	Basic Drug	3	ET,RT,PST,SDB

78	Univive Health Care Pvt Ltd.	Sector-E	Red	Basic Drug	2	ET,RT,PST,SDB
79	Vinay Textiles	Sector-E	Red	Pressing of cloth	1	ET
80	Vishal Fabricators Pvt. Ltd.(Unit-2)	Sector-E	Red	Electric & Electronic Components, sub assemblies and assemblies	0.3	ET,RT,PST,SDB
81	Vishal Pharmaceuticals Laboratories	Sector-E	Orange	Tablet, Capsule, Liquid, powder	0.5	ET
82	Welpure Pharma Pvt. Ltd.	Sector-E	Orange	Formulation of Tablets, Formulation of hard gelatine capsule	1.2	ET,RT,PST,SDB
83	Zapplen Mobile System India Ltd	Sector-E	Red	Transmission Tower & Hot Deep Galvanizing	2.5	ET,RT,PST,SDB
84	Shri Yogesh Paper Industries	Sector-F	Green	Paper Board & Gray Board	0.2	Soak pit/Septic tank
85	Arc Pharmaceuticals	Sector-F	Orange	Syrup	0.4	ET
86	Arthav Polymers	Sector-F	Green	Plastic Granules by Plastic Waste Recycling	0.2	Soak pit/Septic tank
87	Bio Medica Laboratories	Sector-F	Orange	Eye/year Drop, Injection, Ointment	0.4	ET
88	Dhanlaxmi Textiles Processing	Sector-F	Red	Gray cloth Dying, Processing & printing(Job Work)	3.5	ET,RT,PST,SDB
89	Garima Health Care Pvt. Ltd.(Old Name-Dyochem laboratories)	Sector-F	Orange	Syrup Allergers solutions Suspension Emulsion,Dye ethylphthalat ethyl ethyl Alcohol Lab & Analytical reagent ethyl Alcohol Dena chard	3	ET,RT,PST,SDB
90	Jain Paper & Board Mill	Sector-F	Green	Paper Board	0.5	ET
91	Jayesh Industries	Sector-F	Green	Paper Board	1	ET
92	Nikem Drugs Pvt. Ltd (Old name- uniken Drug)	Sector-F	Orange	Pharmaceutical tablet,Pharmaceutical Capusle, Pharmaceutical Power pouch	2	ET,RT,PST,SDB
93	Om Industries	Sector-F	Orange	Potata Chips & Namkeen	0.4	ET,RT,PST,SDB
94	Om Steel Industries	Sector-F	Red	Nut, Bolt, Hooks, Riverts, Nails & Wire Drawing	0.6	ET
95	Omatek Laboratories pvt. Ltd.	Sector-F	Red	Ascorbic Acid&(etc)	0.5	ET
96	Ordeal Laboratory	Sector-F	Orange	Injectable Item, Ointment, Liquid	0.4	ET
97	Prakesh Industries	Sector-F	Green	Plastic granules	3.5	ET
98	Shagoon Paper & Board Manufacturing Co.	Sector-F	Green	Gray Board	0.5	ET

99	Sudarshan Pharmaceuticals Pvt. Ltd.	Sector-F	Orange	Liquid/syrup, Powder, Tablet, Capsule	1.3	ET,RT,PST,SDB
100	Sun Aj pharma	Sector-F	Orange	Syrup, Pharmaline chamber	0.5	ET
101	Syndicate Pharma	Sector-F	Orange	Liqued Syrup & Tonic, Ors Powder	1	ET
102	Upzone Drug Pvt. Ltd	Sector-F	Orange	Ointment, Liquid	0.5	ET
103	Vindhya paper ind.	Sector-F	Red		5	ET,RT,PST
104	Zest Pharma	Sector-F	Orange	Tablet, Liquid, Mix powder, Capsule	2	ET
105	Sudarshan Pharmaceuticals Pvt. Ltd.	Sector-F	Orange		4.5	ET,RT,PST,SDB
106	Tapaswi Falalen	Sector-F	Red	Falane Dying	1.5	ET
107	Bhagwan das harkishan & Comp.	Shivaji Nagar	Red	Sizing	0.5	Soak pit/Septic tank
108	Mittal Udyog	Shivaji Nagar	Red	Aluminum untisial	2.5	ET,RT,PST,SDB
109	Vidyut Metalics	Shivaji Nagar	Red	Sized Yarn	0.5	Soak pit/Septic tank
110	Ipcalaboratories Ltd.	Polograund	Red	Choloroquine Phosphate , 4,7,Dichloro quinoline, CholoroquineSulphate,Amodiaquine Base/Hcl, Probenecid, B.C.F.I., Chlorinated Compound, Dimethyl compound, D.G. set	364	ET,PST,AT,SST,SDB,PSF,ACF, RO
111	Arya Pharmaceuticals	Polograund	Orange	Tablet	0.4	ET,RT,PST,SDB
112	Chandan Garments	Polograund	Red	Readymade Garments	0.8	ET,RT,PST,SDB
113	M.P. Metal Industries	Polograund	Red	Aluminium Utensil, Alumium Utensils	0.5	Soak PIT
114	Pure Pharma Ltd.	Polograund	Orange	Tablet, Liquid Oral, Capsule, Liqued, Powder/ Granule, Ampoules, Liquid Vials, Dry Powder	7	ET,PST,AT,SST,SDB
115	Quality Electroplaters pvt ltd	Polograund	Red	Electroplating Job work	0.3	ET,RT,PST,SDB
116	Satisfaction Product Ltd.	Polograund	Red	Wood Brash Steel furniture	1	ET,RT,PST,SDB
117	The Premier Engineering Works	Polograund	Red	Anneling &Surface Coating(Electroplating & Electrolus)	0.5	Nil
118	Cyano Pharma Pvt. Ltd.	Polograund	Orange	Liquid,Tablet Capsule, Ointment, Oreal Dehydration, Chlorin tablet	1.5	ET,RT,PST,SDB
119	Tata steel	laxmibai Nagar	Red	High Carbon (Steel Wire)	40	ET,RT,PST,SDB
120	Mridul Laundry	laxmibai Nagar	Red	Dying Of Cloth	8	Soak pit/Septic tank

121	Amsar Private Limited	laxmibai Nagar	Orange	Extracted Hards, Pwoder, Gleanicals	8	ET,RT,PST,SDB
122	Promed Laboratories Pvt. Ltd.	laxmibai Nagar	Orange	Capsule, Tablet, liquid,	2	ET,PST,AT,SST,SDB
123	Satyam Eletroplater	laxmibai Nagar	Red	Electroplating Job work	2	ET
124	Shilpa Chem Industries	laxmibai Nagar	Orange	Capsule, Oinement, Powder, Tablet, Liqued, Injection, Eye/year Drop	1	ET
125	Sunita Electroplaters	laxmibai Nagar	Red	Electroplating Job Work	0.6	ET,RT,PST,SDB
126	Ashok Kumar Mohanlal Jain	Sch. No. 71	Green	Plastic & Iron Drums	1.5	Nil
127	Wel fed	Sch. No. 71	Red	Washing of cloth	5	ET,RT,PST,SDB
128	Hello Indo food products Pvt. Ltd.	Piplyarao	Orange	Pataro Chips & Kurkure	17	ET,RT,PST,SDB
129	Sudha organics	Piplyarao	Red	Basic drug	0.8	ET,RT
130	Raj Ratan Technique & Technology Pvt. Ltd., Indore	Piplyarao	Green	Dry Powder for Manufacturing Ink, Primer & Paints, Different item made of non-hazardous material Like plastic Paper & aluminium Files	0.5	Soak pit/Septic tank
131	Swatik Enterprises	Piplyarao	Green	Supari cutting	0.2	ET
132	Pratap snex	palda	Orange	Kurkure	50	ET,PST,AT,SST,SDB,ACF
133	Prakash sneks	palda	Orange	Potato chips	67	ET,PST,AT,SST,SDB,ACF
134	Abil Health Care Pvt. Ltd	Palda	Orange	Pharmaceutical Tablets, Pharmaceutical Capsule	4.5	ET
135	Adcon Lab	Palda	Orange	Capsule, Ointment	2.4	ET
136	Hightech Pharma	Palda	Orange	Tablet, Capsule	2.6	ET
137	Mark Food Product	Palda	Green	Sugar, Glucose, Oil, Milk Powder	2.3	Soak pit/Septic tank
138	Monty Confectionary	Palda	Green	Sugar, Glucose, Oil, Milk Powder	3	Soak pit/Septic tank
139	Pallavi Food Products	Palda	Orange	Kurkure & Namkeen	12	Septik tank
140	J.K. Formulation	Palda	Orange	Phenyl, Gumpaste	3.2	Soak pit/Septic tank
141	Nandini Medical Laboratories Pvt. Ltd.	Palda	Orange	Injatables	5	ET,RT,PST,SDB
142	New Bharat Radiater	Palda	Red	Auto Vehicle Radiator	2	ET
143	Prem Pharmaceuticals	Palda	Orange	Salin Bottles	18	ET,RT,PST,SDB

144	Sanjay manufacturing company	Palda	Red	Bright bar	0.9	ET
145	Shri Ganesh Enterprises	Palda	Green	Drum Washing	6	ET,RT,PST,SDB
146	Shriram Traders	Palda	Green	Drum Washing	5	ET,RT,PST,SDB
147	Indira Export P. Ltd.	Rau	Red	Readymade garments	60	ET,RT,PST,SDB,PSF
148	Abinav Industries	Rau	Orange	Poha (Food Product)	2	ET
149	Dextrin Remedies	Rau	Orange	Pharmaceutical Liquid (Preparation)	0.4	ET
150	Apolo Pharmachem	Rau	Red	Tinidazol/, Silver Sulphadizen	1.5	ET,RT,PST,SDB
151	Bhardwaj Pharmaceutical works	Rau	Orange	Ayurvedic Powder,Ayurvedic Chatni,AyurvedicTablets,Ayurvedic Capsule, Ayurvedic oil,AyurvedicGhee, Ayurvedic Syrup	0.3	ET
152	Nakrali Dhani (Rau)	Rau	Orange	Carrying Hotel Buisness & Village Restaurant	30	Soak pit/Septic tank
153	Real Anodizer	Rau	Red	Anodizing & Electro Coloring of Aluminium Section (Job Work)	1.5	ET,RT,PST,SDB
154	Zenith drugs p. lt.	Rau	Orange	Syrup(Liquid), Ointment(Tube)	2	ET
155	Ruchi soya location - II	Mangaliya	Red	Soya seed crushing, Refined Vegetable Oil	93	O&G trap,ET,PST,AT,SST,SDB
156	Ruchi soya G & F divi	Mangaliya	Red	Solvent ext. Soya oil	105	O&G trap,ET,PST,AT,SST,SDB
157	Ruchi soya location -III	Mangaliya	Red	Refinery vegetable oil	93	O&G trap,ET,PST,AT,SST,SDB
158	Ruchi Soya Industries Ltd. (V. & F.)	Mangaliya	Red	Solvent Ex. OF Seed, Refined oil, Vanaspati	120	O&G trap,ET,PST,AT,SST,SDB
159	Ruchi Soya Industries Ltd. (Export Divn.)	Mangaliya	Red	IV fluids large valium , IV fluids small valium, Tablet capsule , Opthlmo logic solution ½ ml pouch	137	O&G trap,ET,PST,AT,SST,SDB
160	Indore Dugdh Sangh mydt.	Mangaliya	Red	Milk & milk Product	400	ET,PST,AT,SST,SDB
161	Rama Phosphate Ltd. (Oil Division)	Rajoda	Red	S. E. From soya Seed, Refined Edible Oil	1	O&G trap,ET,PST,AT,SST,SDB
162	Rama Phosphate Ltd. (S.S.P.- Sulphuric Acid)	Rajoda	Red	Sulphuric Acid, SSP	0.7	ET,RT & Recirculation

163	Parantral Drug (I) Ltd.	Asrawad	Orange	IV fluids large valium , IV fluids small valium, Tablet capsule , Opthlmo logic solution ½ ml pouch	53	ET,RT,PST,SDB
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ET- Equalization tank, RT- Reaction tank, PST-Primary Settling Tank, AT-Areation Tank, SST- Secondary Settling Tank, SDB-Sludge Drying Bed, PSF-Pressure Sand Filter, ACF-Activated Carbon Filter, RO-Reverse Osomosis, O&G-Oil & Grease,

2.6.3 Technological Intervention

2.6.3.1 Inventorisation of prominent industries with technological gaps

Small scale textile, dying & processing plant requires improved technology.

2.6.3.2 Identification of low cost and advanced cleaner technology for pollution control

- (I) Recovery of starch in potato processing units is recommended to reduced water pollution load.
- (II) In solvent extraction oil industries, recirculation of treated effluent cooling tower is recommended.

2.6.4 Infrastructure Renewal

2.6.4.1 Details of existing infrastructural facilities

- (I) Absence of effluent conveyance system in all industrial clusters.
- (II) Absence of storm water drainage system in all industrial clusters.

Three water quality monitoring stations are fixed on river Khan by MPPCB. The Regional Office, Indore has a full fledged laboratory for analysis of water samples collected. Large industries have provided laboratories for self analysis of their samples.

2.6.4.2 Need of up gradation of existing facilities

Of the 200 MLD of trade effluent generated in Indore city, only 90 MLD is treated and the rest is discharged without treatment into river. There is a need to lay underground sewerage lines and provision of STP at the earliest for whole city. An additional 4 stations for water quality monitoring need to be set up at following locations near confluence points of sewerage and industrial waste stream.

1. Narvar Nala near Over bridge
2. Khan river before confluence of Banganga Nala.
3. Khan river at distance 100m, confluence of Banganga Nala.
4. Khan river near Manglia village.

Need for effluent conveyance system (Sewer network) and common effluent treatment for all industrial clusters.

2.6.4.3 De-silting of water tanks, drains, rivulets, etc.

De-silting of Khan river and Narvar Nala can be carried.

2.6.4.4 Construction of lined drains/connection

Old sewerage system of corporation to be replaced and to provide sewerage system for ET of entire sewage generated from the area. Palasia nala, Vijay Nagar nala and Narwar nala and Khan river stretch, passing through city may be considered, for side pitching, winding of channel for easy conveyance of storm water/sewage. Storm water drainage system in all industrial clusters is essential.

2.6.4.5 Treatment and management of contaminated surface water bodies

Khan river is polluted in its entire stretch. Sewage treatment plant needs to be provided for treatment of sewage effluent. The treated water may be used for irrigation purpose. This will drastically reduce the pollution load into Khan river.

2.6.4.6 Rejuvenation/Management Plan for important eco-geological features.

Presently no plan for rejuvenation, management plan for ecological features is envisaged.

2.6.4.7 Carrying of effluent from industrial units located in non-industrial locations to CETP facilities by lined drains/pipelines only and prevention of their disposal into city sewage/surface drains

NA

2.6.4.8 Installation of Gen sets at CETPs

NA

2.6.5 Managerial and Financial aspects.

2.6.5.1 Cost and time estimates

Short Term and Long Term Action Plan & Cost Estimates.

Sr. N	Description of Action Point	Implementing Agency	Cost in Lac Rs.	Proposed Time Frame
	Water Pollution measures on available information			
1	Completion of conveyance system for sewage of Indore city	MCI	400,00	2 years
2	Construction of STP for Indore city	MCI	200,00	getting land 3 years.
3	Construction of effluent conveyance system & Common effluent treatment plant for Sanwer Road, Industrial Area	Sanwer Road Industrial Area CETP Pvt.Ltd., Industries, Govt. Assistance	25,00	For CETP construction company has registered & two Director appointed
4	Up gradation of effluent treatment plant of which are not meeting prescribed standard in water polluting units	Industries, MPPCB	#	One year
5	Laying of storm water line & sewer line in whole area for Pologround industrial area	MCI, DIC & Industries	1200	Two year
6	Laying of storm water line & sewer line in whole area Laxmibai Nagar industrial area	MCI, DIC & Industries	1000	Two year
7	Laying of storm water line & sewer line in whole area Sc. No. 71 industrial area	MCI, Industries	275	Two year
8	Laying of storm water line & sewer line in whole area Palda industrial area	MCI, Industries	3350	Two year
9	Laying of storm water line & sewer line in industrial area Rau	NP Rau, DIC & Industries	1550	Two year
10	Installation of treatment facility for waste waters generated from major hotels, laundries, vehicle service center, commercial complex, major residential project, major marriage hall etc.	MPPCB, Local bodies & Concerned Establishment	#	3 Years
11	Strengthening of water quality network and its linkage to websites.	CPCB, MPPCB	300	1 years
12	Strengthening of MPPCB for surveillance, inspections & monitoring and infrastructure facility of vehicles, equipment, Building etc.	MPPCB/CPCB/Govt.	500	3 Year

To be borne by individual industries / commercial centers.

2.6.5.2 Identified Private/Public sector potential investors & their contribution/obligation

Construction of effluent conveyance system & Common effluent treatment plant for Sanwer Industrial Area as a project through Private Public Participation.

2.6.5.3 Government Budgetary support requirement

Budgetary support will be required from the government for CETP as per Govt. norms.

For strengthening of Water Quality Monitoring network.for strengthening MPPCB for surveillance & working

2.6.5.4 Hierachical and structured managerial system for efficient implementation

MPPC Board along with the industrial associations and CETP association along with AKVN, DIC will work in co-ordination for efficient implementation of the action plan.

2.6.6 Self monitoring system in industries (ETPs etc.)

Large and medium scale industries do carry out analysis of the effluent on regular basis.

2.6.7 Data linkages to SPCB/CPCB (of monitoring devices)

Online monitoring system for major water polluting units is planned to link it to MPPCB and CPCB websites.

AIR ENVIRONMENT

2. AIR ENVIRONMENT

3.1.1 Present status of Air environment supported with minimum one year analytical data

3.1.1.1 Critical locations for air quality monitoring

Critical locations for air quality monitoring for special parameters and air toxins are identified as below:-

- A. Sanwer Road Industrial Area - as this is the largest cluster of industry in Indore.
- B. Kothari Market Indore - as it is at heart of city & centre of commercial activities of Indore..
- C. Vijay Nagar Indore – as it represent residential area for Indore.
- D. Near Trenching Ground, Devguradia, Indore – as its adjacent to the MSW dumping site for Indore city.
- E. Locations near main traffic, roads like Bhanvarkuan, Vijay Nagar, Palasia, M.G. Road, at Regal square, Mhownaka, near Collectrorate Sensitive places like M.Y. Hospital, High Court,

Under NAAQAM Scheme, board is regularly monitoring Air quality at 3 stations – Sanwer Road Industrial area, Kothari Market & at Vijay Nagar for other places monitorig is done selectively, sampling point location are shown in map at annexure-A

3.1.1.2 Present levels of pollutants in air (routine parameters, special parameters and air toxics relevant to the area in three categories – known carcinogens, probable carcinogens and other toxics) for the period September-2009 to June-2010.

Ambient air quality value for different locations are as follows:-

Ambient air quality at three permanent location in Indore

SAMPLING STATION	SPM	RSPM	SO ₂	NO _x
Average results in (μ gm/m ³)				
VIJAY NAGAR (RESIDENTIAL AREA)	158	129	06	12
KOTHARI MARKET (COMMERCIAL AREA)	321	215	12	22
POLOGROUND (INDUSTRIAL AREA)	351	238	11	21

Ambient air quality, near important roads of Indore.

SAMPLING STATION	SPM	SO ₂	NO _x	RSPM	NH ₃	O ₃
	Average results in (μ gm/m ³)					
A.B. Road Near bhanwar kuan thana	1418.79	16.62	27.52	---	-----	-----
A.B. Road Near Palasia thana	1338.0	14.4	23.69	333.91	26.67	250.7
A.B. Road Near Vijay Nagar circle	1677.7	19.58	27.43	408.08	56.67	333.54
RING Road Near Malviya petrol Pump	650.2	12.5	19.8			
DHAR ROAD Mhow Naka Circle circle	1248.18	15	21.34	269.03	44.16	298.88
RING ROAD Near Bangali Circle	611.11	31.25	44.46	----	-----	-----

Ambient air quality, at critically polluted areas of Indore.

SAMPLING STATION CRITICAL ZONE	RSPM	SO ₂	NO _x	NH ₃	O ₃	Lead
Average results in ($\mu\text{gm}/\text{m}^3$)						
SANWER ROAD	507.49	21.15	57.07	17.17	236.12	BDL
POLOGROUND	238	11.	38.32	---	---	BDL
LAXMIBAI NAGAR	860.12	11.93	22.42	24.75	174.22	BDL
PALDA	226.42	14.81	37.03	14.55	204.3	BDL
RAU	277.08	7.6	10.24	8.05	122.0	BDL
MANGLIYA	184.72	12.71	28.86	11.12	109.23	BDL
SHIVAJI NAGAR	170.59	7.7	18.4	ND	178.97	BDL
ASRAWAD	126.13	7.9	9.9	ND	171.34	BDL

3.1.2 Predominant sources contributing to various pollutants

- (I) Vehicular emission from 10.79 lakh registered vehicles in Indore.
- (II) Air born dust, due to plying of vehicle on roads of very poor quality, having unpaved shoulders, lot of pet holes etc. Emission from the stack, e.g. 210 Number of air polluting units.
- (III) Almost all medium/major industries have provided air pollution control devices, but some are inadequate and some are not operated scientifically, leading to higher values of pollutants in the surrounding ambient air.
- (IV) Unauthorized burning of MSW at Devguradia, Trenching Ground

3.2 Source of Air Pollution viz industrial, domestic (Coal & Biomass burning), natural and Transport & Heavy Earth Movers

There are a total of 210 air polluting industries in Indore industrial clusters. Most of the pupils use L.P.G. as domestic fuel

Load due to vehicular emissions -

Load due to plying of vehicles on the road

Petrol consumption = 6360 KL/month

Diesel consumption = 5140 KL/month

Kerosene consumption = 250 KL/month

Load due to burning of coal in industrial area

Coal consumption = 562.42 MT/day

F.O./LDO consumption = 75 KL/day

On going road and building construction activity, transportation of crushed stones and sand in open trucks leads to high levels of SPM and RSPM.

3.3 Air Polluting Industries in the area/cluster

Air polluting industries in Indore are as below:

Air polluting industries

Cluster name	No. of air polluting industries	Quantity of fuel MT/D
Sanwer Road	127	47.675
Shivaji Nagar	6	1.717
Pologround	13	32.27
Laxmibai Nagar	13	24.74
Sc. No. 71	04	06
Navlakha	00	00
Piplia Rao	01	02
Palda	23	10.735
Rau	12	5.585
Mangliya	08	385
Rajoda	02	26.9
Barlai	00	00
Asrawad	01	19.8
Tejpur Gadbad	00	00
Total	210	562.42

The major types of air polluting industries are

1. Lead reprocessing units
2. Rolling mill and casting units
3. Boiler based units.
4. Solvent Extraction & Vegetable Oil Refinery
5. Fertilizer Plant

3.4 Impact of activities of nearby area on the CEPI Area

Nil

3.5 Quantification of the air pollution load and relative contribution by different sources

Sr. No.	Type of Fuel	Quantity in MT/D	SO ₂ emission in T/D
1	Petrol/Diesel in Indore City due to vehicles	284	0.198
2	Coal	562.4	5.624
3	F.O./LDO	75	1.5
4	Wood	3.25	0.55

3.6 Action Plan for compliance and control of pollution

3.6.1 Existing infrastructure facilities – Ambient air quality monitoring network

Air quality is monitored at 3 locations in Indore on a regular basis. Three stations are being funded through National Ambient Air Quality Monitoring Program. The parameters monitored at these stations are SO₂, NO_x, SPM and RSPM. Ambient air quality monitoring is also carried out randomly by the Board's officers in the industrial clusters. Large and medium scale industries are directed to carry out ambient air quality monitoring and submit the report to the Board regularly.

Stack monitoring of process stack and boiler stacks is regularly carried out by the Board. It is mandatory for the industries to monitor stack emissions and submit report to the Board.

Parameters such as VOCs, benzene, PAH, metals etc. are not monitored in ambient air quality.

3.6.2 Pollution control measures installed by the individual sources of pollution

The Board has laid down specific conditions to all industries like:

- To provide specific height to their boilers on the basis of fuel consumption.
- To provide dust ET system like dust collectors, cyclone dust collectors, bag house filters, electrostatic precipitators etc on a case to case basis.
- To provide adequate scrubbing system for process emissions on case to case basis.

Details of APC installed by the air polluting units are as follows :-

S.No.	Name of Industru/Unit	Area	CATEGRY	Product	TYPE OF FUEL	Qty of fuel MT/K / day	DETAILS OF APCE
	M/M/SSI & Red/Orange/Green						
1	Jas engineering	sector-C	Red	Foundry operation	Coal	7.5	Hood, Stack
2	Govind Industries	Sector-A	Red	hand made Washing Soap	Wood	0.05	Chimny
3	M.B. Bakers	Sector-A	Green	Biscuit	LDO	0.08	Chimny
4	M.B. Food pvt. Ltd.	Sector-A	Green	Biscuit	FO	0.05	Cyclone, Dust Collector
5	M.P.Dyechem Industries	Sector-A	Green	Syntic rasine, Stad oil, Dihydrad casrtial , Dublewinding seed oil, Plas syzer, Refined vigetable oil, Vigetable oil falic acid	Coal	1.5	Chimny. Cyclone
6	Nanak Steel Industries	Sector-A	Red	Re rolling	Coal	0.4	Chimny, water scrubber
7	Naughty Food Pvt. Ltd	Sector-A	Green	Confectionary Items	Coal	1	Chimny, Dust Collector
8	Omega Rubber Industries	Sector-A	Green	Retreating Material	Coal	0.1	Chimny
9	Pratap plastic Industry	Sector-A	Green	Havai Chapple	Coal	0.15	Chimny
10	Quality Steel	Sector-A	Red	R. Rolling	Coal	0.5	Chimny, water scrubber
11	Sanghavi Ispat Industries	Sector-A	Red	Re rolling	Coal	0.45	Chimny, water scrubber
12	Sethi Metal Industries	Sector-A	Red	CI casting	Coal	0.4	Chimny, Scrubtr
13	Shobha Metal Industri	Sector-A	Red	C.I. Casting	Coal	0.2	Chimny

14	Tirupati Steel Rolling Mill	Sector-A	Red	Re rolling	Coal	0.35	Chimny, water scrubber
15	Universal Refractories & Allied Const. Company	Sector-A	Red	Refractories Materials	Coal	0.3	Chimny
16	Well Come Industry	Sector-A	Red	Anneling & coil Cutting, Anneling of Iron sheet	LDO	0.06	Chimny
17	Nirvana Steel	Sector-B	Red	Rerolling of steel	Coal	0.6	Chimny, water scrubber
18	Aditya Agro International	Sector-B	Green	How(Phawda) & Agriculture Implements	Coal	0.2	Chimny
19	Alfa Steel Industries	Sector-B	Red	Re- rolling of steel	Coal	0.3	Chimny, water scrubber
20	Deepak Engineerig Works	Sector-B	Red	Agriculture equipment,C.I. casting	Coal	0.5	Chimny, water scrubber
21	Indore Agro Industries	Sector-B	Red	Axes Hamour, Crowbar, Kudali	Coal	0.25	Chimny
22	Jain Engineering Wor	Sector-B	Green	Tractulral Item, RubbberV & fan belt	Coal	1.2	Chimny,dust collector
23	Jaitu Steel	Sector-B	Red	R. Rolling	Powder Coting	0.6	Chimny, water scrubber
24	N.G. Enterprises	Sector-B	Red	C.I.Casting	Coal	0.2	Chimny, water scrubber
25	Pragati India	Sector-B	Red	CI Pipe fitting, Main Hol Cover CI Joints	Coal	0.75	Chimny, water scrubber
26	Vandana Industries	Sector-B	Red	Lead Ingots, Lead Powder, Battery Plate	Coal	0.14	Cyclone, Bag House, Chimny
27	Vinayak Rubber Industries	Sector-B	Green	Rubber Molded & Extreted Parts Job Work Recoating d rubber & Ebonite Rollers	Wood	0.07	Chimny
28	Ryder trans International Pvt. Ltd.	Sector-B	Green	Canver Belt& Transmissiun Belt	Coal	1.5	Chimny
29	Jay Shri ram Dhali works	Sector-C	Red	C.I.Casting	Coal	0.15	Chimny
30	Mini Industries	Sector-C	Red	Re rolling of steel	Coal	1	Chimny, water scrubber
31	Shri Ram Casting Works Shop	Sector-C	Red	C.I.Casting	Coal	0.1	Chimny

32	Anand Products	Sector-C	Green	Confectionary Items	Coal	0.2	Chimny
33	Chouhan Steel Works	Sector-C	Red	R. Rolling	Coal	0.4	Chimny, water scrubber
34	Continental Refractory Pvt. Ltd.	Sector-C	Red	Fire Bricks Standard, Fire bricks H.A. Stay Shape, Fire clay powder, Castable refractories, fire cement, fire clay Insulation bricks & shapes	F.O.	0.35	Chimny
35	Deepak Allied & Chemical Industries	Sector-C	Red	Acrylic emulsion for textile leather, Silicon emulsion for textile & non textile, Step richual waste on organic solvent	Coal	0.05	Chimny
36	Electro Battery	Sector-C	Red	Lead Ingots, Lead Oxide, Battery Plate	Coal	0.14	Cyclone, Bag House, Chimny
37	Forbos Industries	Sector-C	Red	Iron re rolling mill	Coal	0.3	Chimny, water scrubber
38	J. S. Steel Industries	Sector-C	Red	Round Bars, Angles, Flats	Coal	0.3	Chimny, water scrubber
39	Khandelwal Sheet Processors	Sector-C	Green	M.S. Sheet cutting, M.S. sheet Heating	LDO	0.4	Chimny
40	<i>Khumani Steels Pvt. Ltd.</i>	Sector-C	Red	Re-Rolling of Steel	Coal	0.5	Chimny
41	Kumar Industries (Unit II)	Sector-C	Red	Pick axe	FO	0.1	Chimny
42	Lucky Soap Factory	Sector-C	Red	Soap & Soap Gad	Wood	0.3	Chimny
43	Mahamaya Batteries	Sector-C	Red	Lead Ingots & Lead Allied Product	Coal	0.15	Cyclone, Bag House, Chimny
44	Manoj Industries	Sector-C	Red	Lead Ingots/Plates	Coal	0.14	Cyclone, Bag House, Chimny
45	Mark Metal Company	Sector-C	Red	Auto Battery, Lead Plate, Reclaimed Lead	Coal	0.3	Cyclone, Bag House, Chimny
46	Mohammed Rafiq Scrape Traders & Rolling Mill	Sector-C	Red	Re rolling of steel	Coal	0.5	Chimny, water scrubber
47	Mundra Rerolling Mill	Sector-C	Red	Re rolling	Coal	0.3	Chimny, water scrubber

48	New Malwa Steel Industries	Sector-C	Red	Re-Rolling of Steel	Coal	0.3	Chimny, water scrubber
49	New Shri Dhalai Wor	Sector-C	Red	C.I.Casting	Coal	0.2	Chimny
50	P. R. Enterprises	Sector-C	Red	R. Rolling	Coal	0.4	Chimny, water scrubber
51	Rajasthan Steel Industries	Sector-C	Red	R. Rolling	Coal	0.15	Chimny, water scrubber
52	Reliable Steel	Sector-C	Red	R. Rolling	Powder Coal	0.8	Chimny, water scrubber
53	Shaft Industries	Sector-C	Red	Re rolling of Steel	Coal	0.6	Chimny, water scrubber
54	Shri Ram Engineering Works	Sector-C	Red	C.I.Casting	Coal	0.2	Chimny
55	Shri Ram Metals	Sector-C	Red	C.I.Casting	Coal	0.2	N.A.
56	Steelshri Industries	Sector-C	Red	Re rolling mill	Powder Coal	0.25	Chimny, water scrubber
57	Supreem soap product	Sector-C	Red	Hand made washing soap	Coal	0.1	Chimny
58	Termal industries	Sector-C	Red	Re-Rolling of Steel	Coal	1.0	Chimny, water scrubber
59	H.D. Wires Pvt. Ltd	Sector-E	Red	Wire Drying	Coal	0.0	Fume Extractio System
60	Ujjawal Soya & Chemicals	Sector-C	Red	Copper sulfate, Copper Powder	Wood	0.05	Chimny
61	Aditya Agro Industrie	Sector-D	Green	Genti, How(Phawda)	Coal	0.3	Chimny
62	Pooja Rubber Industri	Sector-D	Green	hawai chappal	Coal	0.5	Chimny
63	Raj & Raj Industries	Sector-D	Red	Aluminum untiseal	Coal	0.15	Chimny
64	Agarwal Metal Industries	Sector-E	Red	Lead Ingots	Coal	0.2	Cyclone, Bag House, Chimny
65	Agwan steel Industries	Sector-E	Red	Re rolling of steel	Coal	0.2	Chimny, water scrubber
66	Aman Enterprises	Sector-E	Red	Lead ingots (Reclaimed Lead) & Grey Oxide	Coal	1	Cyclone, Bag House, Chimny
67	Bindra Chemicals	Sector-E	Red	Sodium Nitrat,Calsium Nitrat, Calsium Sulphat, Niasin feed Gread	Wood, Coal	0.15	Chimny, water scrubber
68	Citizen Steel Industrie	Sector-E	Red	Re rolling of steel	Coal	1	Chimny, water scrubber

69	Dev Alums & Chemicals	Sector-E	Red	Ferric Ammonia Alum, Nor Ferric & Potas Alum	Woo	0.1	Chimny
70	Dev steel Industries	Sector-E	Red	Rolling Steel	Coal	0.8	Chimny, water scrubber
71	Ganpati Structures Pvt Ltd.	Sector-E	Red	Re rolling of steel	Coal	1	Chimny, water scrubber
72	Gaurav Steel Industries	Sector-E	Red	R. Rolling	Coal	0.2	Chimny, water scrubber
73	Govind Steel Works	Sector-E	Red	Rerolling of Steel	F.O. Coal	0.3	Chimny
74	Hariram Uttamchand, Ashish Udyog	Sector-E	Red	Aluminum Unties	F.O.	0.1	Chimny
75	Herbo Chem	Sector-E	Red	Ferrous Sulphate	Wood	0.1	N.A.
76	J.P. Industry	Sector-E	Green	Tharmocol Sheet	Coal	0.6	Chimny
77	Kedia Industries	Sector-E	Green	Hawaii Chapel, M.C. Rubber sites	Coal	0.25	Chimny
78	Madhyanchal Steel Pvt Ltd.	Sector-E	Red	Re. Rolling of Steel	Coal	0.6	Chimny, water scrubber
79	Malwa Chemoplast	Sector-E	Red	Epoxidesed vigetable oil, sinthatic emnlson, modif starch, Dexren, Dom and adisev Salulass powder, Sulder wire Stricks and bluck	L.D.O.	0.1	Chimny
80	Mungad Aluminium	Sector-E	Red	Aluminum untisial	Coal	0.2	Chimny
81	Natraj Industreis.	Sector-E	Red	Nat & Volt-U Volt	Coal	0.2	Chimny
82	Novkar Iron & Steel (Ltd.	Sector-E	Red	M.S. Flat & bars, M.S. Ang & chanals	Coal	0.5	Chimny, water scrubber
83	P. sons Polymers pvt lt (unit-2)	Sector-E	Green	Havai Chapple	Coal	0.15	Chimny
84	Panther Tyre	Sector-E	Red	Alltype off Tyre & Tube	Coal	0.15	Chimny
85	Parshwanath fertilizer & chemical pvt. Ltd.	Sector-E	Orange	NPK Mixed fertilizer GSSP fertilizer	LDO	0.5	Cyclone, Dust collector, Chimny
86	Real soya product pvt. Ltd.	Sector-E	Green	Soya Lacitine	Coal	0.15	Chimny
87	S.P. Metals	Sector-E	Red	CI Casting	Coal	0.15	Chimny Scrubber
88	Shalom Sales	Sector-E	Red	Dextrin gum , Corru starch gum	Wood	0.1	Chimny
89	Soyachem Industries	Sector-E	Red	Soya lasithen	Coal	0.05	Chimny
90	Supreme Casting	Sector-E	Red	C.I. Casting	Coal	0.1	Chimny, water scrubber
91	Varun Enterprises	Sector-E	Red	Battery Plates, Lad Ingots	coal	0.8	Cyclone, Bag House, Chimny

92	Shardha chemical	Sector-F	Red	Calcium nitrated, Sodium nitrated, Pasts nitrated, Niyasine	F.O.	0.015	Chimny
93	Gaffar Steel Industries	Sector-F	Red	Rerolling	Coal	0.3	Chimny
94	A.M. Industries	Sector-F	Red	Lead Ingots	Coal	0.2	Cyclone, Bag House, Chimny
95	Aditi Metal Casting & Pressing Pvt. Ltd.	Sector-F	Green	Block Board, Plywood	Coal/Wood	0.1	Chimny
96	Bal Balaji Udyog	Sector-F	Red	Distillation Extraction of Solvents of Chemicals Herbal(I.P.A., Toulene, Acetone)	Wood	0.3	Chimny
97	Cherry Paint & Polymers	Sector-F	Green	Raisin, Paint Varnish	LDO	0.2	Chimny
98	Dhanlaxmi Starch Starch products.(old name-Dhanlaxmi Calendering Works)	Sector-F	Red	Dextrin White, Dextrin Yellow	LDO	0.07	Chimny
99	Durga Industries	Sector-F	Red	C.I. Casting	Coal	0.05	Chimny
100	Garurang Metal ltd	Sector-F	Red	Low Carbon Metal, Silicate Welding Electrode & Flux	Wood	0.25	Chimny, Dust Collector
101	Hemal Industries	Sector-F	Red	Lead Ingots	Coal	0.14	Cyclone, Bag House, Chimny
102	Himalya Food product	Sector-F	Green	Sivaia, Biscuits	LDO	0.1	Chimny
103	Hoswin Incinerator Pvt. Ltd.	Sector-F	Red	Treatment and Disposal of Biomedical Waste	LPG	0.4	Ventury Scrubber, Chimny
104	Indore steel Casting pvt. Ltd.	Sector-F	Red	Steel & alloy steel casting and Ingots	F.O.	0.45	Chimny
105	Jaishree Starch Chem Allied Pvt. Ltd.	Sector-F	Red	Dextrin	Wood	0.03	Chimny
106	K.K. Industries(Sanjay machine tools)	Sector-F	Red	Re-Rolling of Steel	Coal	0.3	Chimny, water scrubber
107	Krishna Soap Factory	Sector-F	Red	Hand Made Soap	Wood	0.05	Chimny
108	Lokpriya Engineering Works	Sector-F	Red	CI Casting	Coal	0.15	Chimny, water scrubber
109	M. S. Metal (Unit-I)	Sector-F	Red	Reclaimed Lead	Coal	0.18	Cyclone, Bag House, Chimny
110	M. S. Metals (Unit-II)	Sector-F	Red	Red Oxide, Litharge	Coal	0.2	Cyclone
111	Mandi Govindgarh Steel Pvt. Ltd.	Sector-F	Red	Re rolling	F.O.	0.1	Chimny, water scrubber
112	National Steel Iron Works	Sector-F	Red	Re rolling	Coal	0.15	Chimny, water scrubber

113	Neha Industries	Sector-F	Red	lead ingots, Battery Plats, Plastic Granule	Coal	0.2	Cyclone, Bag House, Chimny
114	Noble Industries	Sector-F	Red	Lead ingots, Lead Oxide	Coal	0.14	Cyclone, Bag House, Chimny
115	Paliwal Metals	Sector-F	Red	Reclaimed Lead	Coal	0.5	Cyclone, Bag House, Chimny
116	Pashupati Plywood Industries	Sector-F	Green	Ply Wood & Board	Coal/Wood	0.5	Chimny
117	Pratik Industries	Sector-F	Red	Lead Ingots, Battery Plate, Lead Oxide, P.V.C. Granule	Coal	0.14	Cyclone, Bag House, Chimny
118	Priti Industries	Sector-F	Red	Lead Ingots, Battery Plate, Plastic Granules	Coal	0.2	Cyclone, Bag House, Chimny
119	R.S. Plastic	Sector-F	Green	Thermocole Sheet	Coal	0.5	Chimny
120	Raghav Casting	Sector-F	Red	CI Casting	Coal	0.1	No Stack
121	Salewell Polymers	Sector-F	Green	Moulded rubber parts	F.O.	0.15	Chimny
122	Sameer Industries	Sector-F	Red	Lead Ingots	Coal	0.1	Cyclone, Bag House, Chimny
123	Sandeep Soap Works	Sector-F	Red	Washing soap ,Soap Stock	Wood	0.08	Chimny
124	Sanna Steel Industries	Sector-F	Red	Re-Rolling of Steel	Coal	0.5	Chimny, water scrubber
125	Shiv Tube mfg. Co.	Sector-F	Red	Cycle tube, two wheeler tube, four wheeler tube, animal Driven Vehicle tube, Rubber part	Coal	0.4	Chimny,Bag filter
126	Singhi Metals pvt. Ltd	Sector-F	Red	C.I.Casting	Coal	0.2	Water Scrubber
127	Tiara Metals Pvt. Ltd.	Sector-F	Red	Aluminium Utensil, Non Ferrous Casting	Coal	0.2	Proposed
128	Atulit chemical products Pvt. Ltd.	Shivaji Nagar	Red	All Type Of Binders Organics Sulphuric Acid	Ldo	0.3	Chimny
129	Bhagwan das harkishan & Comp.	Shivaji Nagar	Red	Sizing	wood	1	Chimny
130	Mittal Udyog	Shivaji Nagar	Red	Aluminum utensil	F.O.	0.2	Stack
131	Unimac Industry	Shivaji Nagar	Green	Hawai chapel	N.A.	0.03	Chimny
132	Vidyut Metalics	Shivaji Nagar	Red	Sized Yarn	Coal	0.5	Chimny
133	Archit Udyog	Shivaji nagar	Red	Chemical(Auxiliary Of Textiles)	N.A.	0.2	N.A.

134	Ipca Laboratories Ltd.	Polograund	Red	Choloroquine Phosphate , 4,7,Dichloro quinoline, CholoroquineSulphate,Amodiaquine Base/Hcl, Probenecid, B.C.F.I., Chlorinated Compound, Dimethyl compound, D.G. set	Coal/FO	22	Dust collector,Stack
135	Chandan Garments	Polograund	Red	Readymade Garments	Wood/Coal	4	Chimny, Dust Collector
136	Jash Precision Tools Ltd.	Polograund	Red	Casting & CI Precision Equipment	Coal	0.04	N.A.
137	Malwa Confectionary	Polograund	Green	Confectionary Toffee	Coal	0.2	Chimny
138	Malwa Foundry & Ste works	Polograund	Red	C.I.Casting	Coal	0.05	Water Scrubber Chimny
139	National Metal Industries	Polograund	Red	Roll products	Coal	2.4	Chimny
140	Pure Pharma Ltd.	Polograund	Orange	Tablet, Liquid Oral, Capsul Liquefied, Powder/ Granule, Ampoules, Liquid Vials, Dr Powder	LDO	0.08	Chimny
141	Raj Machinery Industries	Polograund	Red	C.I. Casting, G.M.Casting, Aliminium Castong	Coal	0.3	N.A.
142	Supreme Chemicals Industries	Polograund	Red	Sodium Silicate	F.O.	1.5	Chimny
143	Tirupati Alloy & Steel Pvt. ltd	Polograund	Red	Steel Link chain, Steel Wire	Coal	0.2	Chimny
144	Cyano Pharma Pvt. Lt	Polograund	Orange	Liquid,Tablet Capsule, Ointment, Oreal Dehydration, Chlorin table	Coal/Wood	0.3	Stack
145	Raghav Industry	Polograund	Red	Casting	Coal	0.2	Chimny
146	Ramesh Dhali Centre	Polograund	Red	Casting	Coal	1	Chimny
147	Tata steel	laxmibai Nag	Red	High Carbon (Steel Wire)	FO	20	Fume ext. System
148	Mridul Laundry	laxmibai Nag	Red	Dying Of Cloth	Coal	0.5	N.A.
149	Amsar Private Limited	laxmibai Nag	Orange	Extracted Hards, Pwoder, Gleanicals	Coal	3	Chimny
150	Krishna Enterprises	laxmibai Nag	Red	Brass Utansil	HSD	0.08	Chimny
151	Populer bread & food products	laxmibai Nag	Green	Bread & Backrey Product	HSD	0.1	Chimny
152	Promed Laboratories Pvt. Ltd.	laxmibai Nag	Orange	Capsule, Tablet, liquid,	LDO	0.05	Chimny

153	Savitri enterprises	laxmibai Nag	Red	Utensils & Circel of Brass, Copper, German, Silver, Kansa 2. Zinc, Copper, Brass Dross & Ash, Zinc Sulphate Oxide (Grinind Work Only)	Coal	0.2	Multy cyclone ,Chimny
154	Shilpa Chem Industries	laxmibai Nag	Orange	Capsule, Oinement, Powder Tablet, Liqued, Injection, Eye/year Drop	Wood	0.2	Chimny
155	Shri jai Maata ki Udhyog	laxmibai Nag	Red	Brass utensil Brass, Copper Utensil	Coal	0.1	Chimny
156	Shri Ratan Metal Industries	laxmibai Nag	Red	Copper & Bars Untensil	Coal	0.3	Chimny
157	Sona Confectionary	laxmibai Nag	Green	Confectionary Item	Wood	0.06	Chimny
158	Sunny Industry	laxmibai Nag	Green	Hawai Chappal	Coal	0.1	Chimny
159	Unic industrial product	laxmibai Nag	Red	Metal powder, Untensil	Coal	0.05	Chimny
160	Kaka Confectionary	Sch. No. 7	Green	Tofee, Lollipop	wood	0.2	Chimny
161	Naughty Food Product	Sch. No. 7	Green	Confectionary	wood	0.3	Chimny
162	Newton Food Product	Sch. No. 7	Green	Confectionary Manufacturi	Wood	0.05	Chimny
163	Newton Food Product	Sch. No. 7	Green	Toffee Manufacturing	Wood	0.05	Chimny
164	Hello Indo food products Pvt. Ltd.	Piplyarao	Orange	Pataro Chips & Kurkure	Coal	2	Stack,cyclone
165	Pratap snex	palda	Orange	Kurkure	LDO	1.8	Stack
166	Prakash sneks	palda	Orange	Potato chips	LDO	1.2	Stack
167	Abil Health Care Pvt. Ltd	Palda	Orange	Pharmaceutical Tablets, Pharmaceutical Capsule	FO	0.02	Stack
168	Iconic Bituminous Pvt Ltd.	Palda	Red	Bitumin Emulsion, Bitumin	Furnace Oil/ Diesal	0.4	Chimny/ Cyclone
169	Mark Food Product	Palda	Green	Sugar, Glucose, Oil, Milk Powder	Wood/Coal	0.03	Chimny
170	Monty Confectionary	Palda	Green	Sugar, Glucose, Oil, Milk Powder	Wood/Coal	0.03	Chimny
171	Super Developers	Palda	Red	Water Proofing Compound, Bitumin Emulsion, Other Bitumin Product	Furnace Oil/ Diesal	0.2	Chimny/ Cyclone
172	Ambar Confectionary Pvt. Ltd.	Palda	Green	Confectionary Toffee, Bisc	Wood/Coal	0.2	Chimny
173	Anand Latex	Palda	Green	Latex Sheet	Coal	0.1	Chimny
174	Bhuru cutters	Palda	Green	Febriation Iron sheet processin by heat treatment	LDO	0.03	Chimny
175	Highway Enterprises	Palda	Red	Hot mixing	Furnace Oil/ Diesal	0.5	Chimny/ Cyclone
176	J.K. Formulation	Palda	Orange	Phenyl, Gumpaste	Wood	0.02	N.A.
177	K.S. Industries	Palda	Green	Confectionary Items	Coal	0.2	Chimny
178	Krish Enterprises	Palda	Red	Processing of Spent Solvent	Wood	0.03	Chimny

179	Lakhani Foot Care Pvt. Ltd.	Palda	Green	Hawaii Chapel	LDO	0.045	Chimny
180	M.G. Food Product	Palda	Green	Fruity Jelly & Bubblegum Manufacturing	Coal&Wood 100 Kg/day	0.2	Chimny
181	Mahendra Industries	Palda	Green	Hard Boiled Sweet Toffee	Wood	0.05	Chimny
182	Nandini Medical Laboratories Pvt. Ltd.	Palda	Orange	Injatables	LDO	0.1	Chimney
183	Parul trading	Palda	Green	Soya Lecitin	Coal	0.03	Chimny
184	Prem Pharmaceuticals	Palda	Orange	Salin Bottles	Coal	5	Chimny
185	Sunita Atul Agrawal (Sunita Industries)	Palda	Orange	Stone Crushing	Diesel	0.2	Screen Cover
186	Mahadev Confectionary	Palda	Green	confectionary	Wood	0.1	Chimny
187	Parash Food Product	Palda	Green	confectionary Item	Wood	0.25	Chimny
188	Indira Export P. Ltd.	Rau	Red	Readymade garments	LDO	3	Stack
189	Abinav Industries	Rau	Orange	Poha (Food Product)	Wood	0.5	Chimny
190	Bharti Airtel Ltd	Rau	Green	Operation of D.G. set	Disel	0.02	Chimny
191	Bharti Airtel Ltd	Rau	Green	Operation of D.G. set	Disel	0.02	Chimny
192	Wireless T.T. Info Service Ltd.	Rau	Green	Operation of D.G. set	Disel	0.02	Chimny
193	Amar Manufacturing Works	Rau	Red	Gun Metal Bushes, Water Pump Shaft	Coal	0.2	Chimny
194	Bhardwaj Pharmaceutical works	Rau	Orange	Ayurvedic Powder, Ayurvedic Chatni, Ayurvedic Tablets, Ayurvedic Capsule, Ayurvedic oil, Ayurvedic Ghee, Ayurvedic Syrup	Wood	0.15	Chimny
195	Gulmohar Chemicals Pvt. Ltd.	Rau	Red	Industrial Thinner, Solvents	F.O.	0.5	Chimny
196	K.K. Industries	Rau	Red	Irrigation Water Pumps Spare, M.S. Pump Shaft, Water Pump Bushes, Water Pump Grips	Coal	0.04	Chimny
197	Satpal Industries	Rau	Red	Gun Metal Bushes, Water Pump Shaft/Spare	Coal	0.1	Chimny
198	Shri Arika Foods	Rau	Green	Bread	LDO	0.035	Chimny
199	Signet Rubber Industries	Rau	Green	Robber Parts	coal	1	N.A.
200	Ruchi soya location - II	Mangaliya	Red	Soya seed crushing, Refined Vegetable Oil	Coal	11	ESP
201	Ruchi soya G & F divi	Mangaliya	Red	Solvent ext. Soya oil	Coal	11	Beg Filter
202	Ruchi soya location - III	Mangaliya	Red	Refinery vegetable oil	Coal	66	Beg Filter
203	Ruchi Soya Industries Ltd. (V & F.)	Mangaliya	Red	Solvent Ex. OF Seed, Refined oil, Vanaspati	Coal	65	Multi cyclone dust collect
204	Ruchi Soya Industries Ltd. (Export Divn.)	Mangaliya	Red	IV fluids large valium, IV fluids small valium, Tablet capsule, Ophthalmologic solution ½ ml pouch	Coal	221	ESP, Multi cyclone dust collect

205	Indore Dugdh Sangh mydt.	Mangaliya	Red	Milk & milk Product	FO	11	Dust collector
206	Indore Dugdh Sangh mydt.(Cattle Feed Factory)	Mangaliya	Green	Cattle Feed	FO	0.84	Beg Filter
207	Bharti Airtel Ltd	Mangaliya	Green	Operation of D.G. set	Disel	0.02	Chimny
208	Rama Phosphate Ltd. (Oil Division)	Rajoda	Red	S. E. From soya Seed, Refined Edible Oil	Coal	26	Dust collector
209	Rama Phosphate Fertilizer Ltd. (NKP Div)	Rajoda	Orange	NPK Fertilizer (By Physical Mixing, Granulation of SSP)	LDO	0.9	Cyclone, Dust collector, Chimny
210	Parantral Drug (I) Ltd.	Asrawad	Orange	IV fluids large valium , IV fluids small valium, Tablet capsule , Opthlmo logic solution ½ ml pouch	Coal	19.8	Dust collector, Multi cyclone

3.6.3.1 Inventorisation of prominent industries with technological gaps

1. Industry using coal less than 5 T/day and of low capacity baby boiler are not equipped with any control equipment they are having only stack as air pollution control.
2. Conventional type of lead processing units based on Mandir Bhatti emits lot of fugitive emissions.
3. Conventional type of Rolling Mill with wet scrubber. Lot of fugitive emissions at charging section.

3.6.3.2 Identification of low cost and advanced cleaner technology for air pollution control

1. Lead processing based on CNG/ LPG instead of Coke/coal.
2. Rolling mill based on CNG instead of coal based.
3. All boilers based on CNG instead of coal based.

3.6.3.3 Introduction and switch over to cleaner fuel

M/s. Avanti Gases Pvt. Ltd. a joint venture of GAIL and BP. Ltd. has been setup for CNG supply at Indore they may be asked to lay pipe line on priority basis in Sanwer Road, Pologround, Laxmibai Nagar Industrial area and to supply CNG to the units at a rate similar to indraprastha company at Delhi,

Mahanagar at Bombay etc. Replacement of coal use by CNG is very essential for Sanwer Road Industrial Area.

3.6.4 Need of infrastructure Renovation

3.6.4.1 Development of roads

As Indore is centrally located, several major highways pass through the city. Bypass arrangements for transit vehicles needs to be provided. Construction of flyovers and widening of roads needs to be carried out at major traffic junctions.

It is very-very essential to provide cement concrete pucca roads in all clusters of the Indore. Road condition in Sanwer Road industrial area, Pologround, Laxmibai Nagar, Palda, Navlakha, Rau is very-very poor. It is estimated that fugitive emissions due to plying of vehicles on these roads is contributing more RSPM problem in comparison to stack emissions.

3.6.5 Impact on CEPI score installation/commissioning of full fledged air pollution control system

It is estimated that CEPI score will be reduced by half if the above system implemented.

3.6.6 Managerial and Financial aspects – Cost and time estimates

3.6.6.1 Cost and time estimates

Short Term and long term Action Plan & Cost Estimate

Sr. No.	Description of Action Point	Implementing Agency	Cost in lakh	Proposed Time Frame
1	Rigorous emissions control in air polluting unit through surveillance, inspections & monitoring Medium/major (17 red type)	MPPCB/CPCB	-	6 months
2	Rigorous emissions control in air polluting unit through surveillance, inspections & monitoring Small Scale (54 red type) other	MPPCB/CPCB	-	1 year
3	Rigorous emissions control in air polluting unit through surveillance, inspections & monitoring for other than red category, air polluting.	MPPCB	-	3 years

4	Setting of 3 more Continuous AAQM Stations	MPPCB/CPCB.	300	1 year
5	Up-gradation of existing air pollution control system provide to coal fired/Briquette fired/Bagasse fired burning equipments by wet scrubbers/ venture-scrubber/bag filters in the industries located in industrial area	Individual Industr	#	2 years
6	Stoppage of MSW burning on open land at trenching ground.	IMC	--	6 months
7	Introduction of improved technology in rolling mills	MPPCB/CPCB/M EF	500	3 years
8	Introduction of improved technology in lead processing units	MPPCB/CPCB/M EF	500	3 years
9	Introduction of improved technology in coal based boilers of small capacity	MPPCB/CPCB/M EF	500	3 years
10	Changing the fuel pattern of the industry to clean fuel CNG supply in critical clusters of Indore in rate comparable to Indraprastha Mahanagar Ltd.	Avantika Gas Agency/GAIL/GC Ministry of Petroleum and natural gas.	#	3 Years
11	Direction to the industry for improving the efficiency of air pollution control system and increase in vigilance.	MPPCB/CPCB	--	3 month
12	IMPROVEM-ENT IN FUEL QUALITY- presently In Indore city Bharat standard II level fuel is being supplied by various petroleum companies. In future supply of BS-III Fuel in Indore (Petrol/ Diesel) Supply of Bharat Standard. –IV fuel in Indore	Ministry of petroleum & Natural Gas , Gov of India	-	3 year
13	CNG Supply – Presently Four outlets are supplying CNG. In future Increasing its no. to 10 out lets All the pumps facilitate with CNG supply.	Awantika Gas limited. & Gail/Ministry of Petroleum GOI .	-	3 years.
14	Improvement in emission norms of existing public transport vehicle, by conversion in to CNG A. 502 Maruti van, 160 Tata Magic, 3357 Auto rickshaws are running on CNG/LPG fuel All remaining public transport vehicle like Auto rickshaws, Tata magic Van, city buses to be converted in to CNG.	Regional transport authority /Avantik Gas Ltd.		

	B. Till 2005 make model C. 2005 Make			3 year 4 year
15	All new transport vehicles to be registered should be of BS-IV Standards make and compulsory with CNG fuel based.	Regional transport authority		2 year
16	Phasing out off the old public transport vehicle (216 tempos are still running at the outer periphery) of the city, 7442 auto rickshaws of before 1995 makes, 1148 fore wheeler taxies of before 1995 make and 2723 buses of before 1995 makes are running in the city. Old public transport vehicles to be phased out in the following manner. >15 years. i.e before 1995 make >10 years. i.e before 2000 make >05 years i.e before 2005 make	R.T.O. R.T.O. R.T.O. R.T.O.		3 year 4year 5 year
17	IMPROVEMENT IN ROAD INFRASTRUCTURE FACILITY for Industrial area clusters.			
	(A) Sanwer road has six sectors. Approximate road length in area is 45 km. out of which only 11 km is concrete rest 34 km is kachha Making two lane 7 meter wide cement concrete road in remaining areai.e. 34 km	DIC/AKVN	42,50	3 years
	(B) In the industrial area Pologround approximate road length in area is 10 km. out of which only 2 km is Bitumin rest 8 km is kachha. Making two lane 7 meter wide cement concrete road in remaining areai.e. 8 km.	DIC/AKVN	10,00	3 years

	(C) In the Industrial area Laxmibai Nagar road length in area is 8 km. out of which only 2 km concrete rest 6 km is kachha. Making two lane meter wide cement concrete road in remaining area i.e. 6 km.	DIC/AKVN	750	3 years
	(D) In the industrial area Sc. No. 71 approximate road length is 3 km. Making two lane 7 meter wide cement concrete road in area i.e. 3 km.	DIC/IDA	375	3 years
	(E) Industrial area palda has R.D. udhyog nagar, Khandelwal compound, Samta nagar, Dhanlakmi udhyog nagar, Agarwal udhyog nagar, Mangal udhyog nagar approximate road length in area is 25 km. Mos of roads are kachha . Making two lane 7 meter wide cement concrete road in all areai.e. 25 km.	IMC	31,25	3 years
	In the industrial area Rau approximate road length in area is 10 km. Making two lane 7 meter wide cement concrete road in remaining areai.e. 14 km.	DIC/AKVN	17,50	3 years
18	Providing direction for air pollution control measures during the activity of road construction demolishing old building and new constructions	Local body/MPPCB/IDA State code	#	3 months
19	Traffic managements in the area	Traffic Dept. and Corporation/Police	--	1 Year
20	Installation of continuous Stack monitoring facility by major air polluting industries 17 types.	Individual Industry	#	1 Year
21	Checking of adulteration of fuel	District Adm.	--	3 Years (continuous process)
22	Widening of the road and square for avoiding vehicle congestion proper road development.	Local body/Govt. of India	--	3 Years, (continuous process)
23	Strengthening of MPPCB for surveillance, inspections & monitoring and infrastructure facility of vehicles, equipment, Building etc .	MPPCB/CPCB/Govt. of India	500	3Year

To be borne by individual industry

3.6.6.2 Identified private/Public sector potential investors & their contribution/obligation

- (i) M/s. Avantika Gases Ltd. for supply of CNG in the industrial cluster at a rate par with M/s. Indraprastha, Mahanagar Ltd. .

3.6.6.3 Government Budgetary support requirement

- (I) The cost of the three continuous monitoring stations may be bound by CPCB/SPCB shared by Government.
- (II) Strengthening of SPCB for adequate staff and equipment.
- (III) Supplying CNG for Sanwer Road Industrial Area, Laxmibai Nagar, Industrial area, Poogound Industrial area at rated of par with Indraprastha, Bharat Gas Ltd.
- (IV) Technology improvement Programme for Lead processing, Rolling mill & Small Scale boiler based units.

3.6.6.4 Hierarchical and structured managerial system for efficient implementation

MPPC Board/CPCB, Road traffic department, along with industries and local body will follo-up for efficient implementation of the action plan.

3.6.7 Self monitoring system in industries (Stacks, APCDs)

It is mandatory for large and medium scale industries to monitor ambient air quality and stack monitoring on regular basis. The Board will follow-up actively to ensure compliance.

3.6.8 Data linkages to SPCB/CPCB (of monitoring devices)

The continuous air quality monitoring stations that will be set up will be linked to the MPCB and CPCB websites is essential for proper survey, inspection & monitoring.

LAND ENVIRONMENT

4. LAND ENVIRONMENT (Soil and Ground Water)

4.1 Soil Contamination

4.1.1 Present status of land environment supported with minimum one year analytical data

Black cotton soil with a thickness of 0.5 to 1.0 meters is the chief soil cover in the impact zone area. The yellow murrum is visible after black clay soil. They are also called black cotton soil due to prominent presence of organic matter and high ion exchange materials. They are famous for their expansion and shrinking characteristics due to presence of clay. These soils possess alkaline pH. Soil sampling was done to establish the base line characteristics and to assess the anticipated impact. Soil samples have been collected using auger from depth of 60cm. The soil samples were collected from the 5 locations and were mixed to prepare a composite sample for analysis. Details of the soil sampling locations are

S1- Near Khar river, Shakkarkhedhi

S2- Near Khandwa Nagar

S3- Bhicholi Mardana village near MSW site.

A quantitative assessment of the particle size distribution in the soil was made by wet sieve analysis and Sedimentation analysis using hydrometer, as per procedures laid down in IS: 2720 Part IV. The particle sizes were designated according to the scale given in IS: 1498, which is as follows:-

PARTICLE SIZE DISTRIBUTION

SN	Soil Type		Particle size range	Results (Percentage composition)		
				S1	S2	S3
1	Gravels		>2.00mm	1.0	Nil	Nil
2	Sand	Coarse	600 μ - 2.00mm	1.0	Nil	Nil
		Medium	212 μ - 600 μ	8.0	16.0	3.0
		Fine	75 μ - 212 μ	15.0	52.0	67.0
3	Silt & clay		<75 μ	75.0	32.0	30.0

The particle size distribution of soil samples are potted on textural triangle diagram to obtain textural class name. Based on the particle size distribution obtained from the soil analysis, the texture of soil at the location is silty-clayey, whereas the texture at other two sampling location is silty-sandy. The physical and chemical characteristics of the soil samples collected are as below :-

SN	Parameters	Unit	Near Shakka khedi	Near Khandwa nak	Bhicholi Mardana near Trenching ground
1	pH	-	7.3	7.2	7.0
2	Texture	-	Silty-Clayey	Silty-Sandy	Silty-Sandy
3	Electrical conductivity	mS/m	609	595	610
4	Cation exchange capacity	Meq/100gm	23.2	19.0	28.6
5	Alkali Metals a) Sodium b) Potassium	gms/kg gms/kg	2.24 0.04	2.6 0.02	2.3 0.04
6	Sodium Absorption Ratio	-	2.36	2.84	2.52
7	Permeability	Cm/sec	1.84×10^{-5}	1.38×10^{-4}	1.44×10^{-4}
8	Porosity	-	36	32	36
9	Water Holding capacity (%)	%	50	38.3	33.37
10	Iron	gms/kg	0.04	0.04	0.04
11	Copper	gms/kg	BDL	BDL	BDL
12	Zinc	gms/kg	BDL	BDL	BDL
13	Manganese	gms/kg	BDL	BDL	BDL
14	Ca	gms/kg	0.26	0.22	0.22
15	Ca Hardness	gms/kg	0.64	0.54	0.54
16	Mg	gms/kg	1.18	1.76	1.76
17	T. Hardness	gms/kg	8.4	7.8	7.8

BDL – Below Detectable Limit

The result shows that the moisture retention capacity of the soil is 32.74% which is good. Soils of the area are almost neutral with a pH between 7.0-7.3 most crops grow best if the soil pH is in between 6.0-7.5 Soluble salts expressed in terms of electrical conductivity of saturation extract of soils (ECe) ranges between 595-610 mS/m which means the soil is moderately saline in the area. Slightly charged ions, known as cations, include such nutrients as ammonium, calcium, magnesium, potassium and sodium. These

are attracted to negatively charged soil particles. The measure of the soil's ability to hold cations is the Cation Exchange Capacity (CEC). The greater the CEC of a particular soil, the greater the soil's ability to retain nutrients and the more fertile the soil is. The addition of biosolids can improve a soil's CEC value because biosolids are high in organic matter. Organic matter contributes to high CEC values. The CEC analysis of the soil samples range between 19-28 meq/100gm which is low and it can be concluded that the soil is sandy. The potassium and sodium availability of the soil is also low. The Sodium Absorption Ratio (SAR) measures the relative proportion of sodium ions in a water sample to those of calcium and magnesium. The SAR is used to predict the sodium hazard of high carbonate waters especially if they contain no residual alkali. High concentration of sodium disperses soil colloidal particles, rendering the soil hard and resistant to water penetration. The potential of sodium hazards increases in soil with higher SAR values. The analysis of the samples shows SAR for the soil samples range between 2.36-2.84, which indicate that the soil is less sodic in nature. The permeability of a soil is a measure of the soils hydraulic conductivity or the ease that water will pass through the soil when exposed to a pressure gradient. It determines the rate at which water will migrate through an aquifer towards well heads. The result of the permeability coefficient shows that soil is sandy with some silt content. No heavy metal or other contamination is observed.

4.1.2 Critical locations for land/soil pollution assessment and ground water monitoring

- (I) Soil quality near Khan river at Kabit Khedi
- (II) Soil quality near Khan river at Sanwer
- (III) Soil quality near Sanwer road nalla
- (IV) Soil quality near Pologround nalla
- (V) Soil quality near Shivaji nagar nalla
- (VI) Soil quality near Pipliyarao nalla
- (VII) Soil quality near Azad nagar nalla
- (VIII) Soil quality near Palasia nalla
- (IX) Soil quality near Khajara nalla

4.1.3 Present levels of pollutants in land/soil and ground water (routine parameters, special parameters and water toxics relevant to the area in three categories – known carcinogens, probable carcinogens and other toxics)

Sludge samples were collected near the khan river and other nalls banks. There analysis results are as follows

	PARAMETERS	Khan river at Kabitkhedi	Khan river at Sanwe
01	pH 1:5 Ratio	7.18	8.8
02	Spe. Conductivity 1:5 Ratio	1072	340
03	Iron mg/Kg	3914	7220
04	Nickel mg/Kg	46.8	46.4
05	Zinc mg/Kg	420	37
06	Total Chromium mg/Kg	31.7	35.9
07	Lead mg/Kg	23	22.6
08	Cadmium mg/Kg	0.1	Nil
09	Manganese mg/Kg	199	455
10	Copper mg/Kg	48.1	21.5

	PARAMETERS	Sanwer road nallah,	Pologround nallah	Shivaji Nagar nallah	PipliaRao nallah	Azad nagar nalla	Palasiya nallah	Khajrana nallah
01	pH 1:5 Ratio	8.84	8.0	7.4	7.7	6.79	8.4	7.3
02	Spe. Conductivity 1:5 Ratio	550	570	560	743	2190	436	950
03	Iron mg/Kg	6490	9750	9400	6890	2815	9520	8180
04	Nickel mg/Kg	48.5	48.1	65.7	52	39	59.8	89.8
05	Zinc mg/Kg	221.2	396	616	121.4	498.4	87.3	346.8
06	Total Chromium mg/Kg	39.7	32.3	45.7	19.2	14.2	20.4	26.7
07	Lead mg/Kg	52.1	90.9	736	66	117.6	36.5	309.8
08	Cadmium mg/Kg	Nil	4.9	0.2	0.5	0.9	Nil	0.3
09	Manganese mg/Kg	337.2	71.2	394.5	384	268.9	445.2	556.8
10	Copper mg/Kg	67.3	93.3	253.4	45.2	76.6	37.2	38.8

Ground water monitoring results at different locations are as follows:-

No	Characteristics	Results Vijay nagar	Results Kalindi Vihar Near Trenching Ground	Results Rajwada , City area	Results Lakhani footcare Near Trenching Ground	Results Devguradia Near Trenching Ground
	GENERAL PARAMETERS					
01	pH pH Unit	7.66	7.5	7.0	7.62	7.84
02	Turbidity NTU	0.9	0.262	0.305	--	--
03	Sp. Conductivity μ mhos/cm	680	2220	1796	2924	1823
04	Total Solids mg/L	560	1548	1030	1776	1120
05	Total Dissolved Solids mg/L	545	1524	1021	1754	1094
06	Suspended Solids mg/L	15	24	09	22	26
07	Chloride (as Cl) mg/L	35	525	240	650	260
08	B.O.D. (3 days at 27°C) mg/L	1.2	1.0	0.8	0.8	1.1
09	C.O.D. mg/L	10	16	10	10	20
10	Amm. Nitrogen (as N) mg/L	0.234	0.01	0.588	3.26	2.91
11	Nitrite Nitrogen (as N) mg/L	0.002	N.D.	0.007	0.052	0.006
12	Nitrate Nitrogen (as N) mg/L	1.46	12.150	5.615	3.26	4.012
13	Phosphate (as PO ₄) mg/L	0.048	0.003	N.D.	0.042	0.005
14	Alkalinity mg/L	192	310	730	208	572
15	T. Hardness (as CaCO ₃) mg/L	160	980	570	1080	516
16	Ca-Hardness (as CaCO ₃) mg/L	120	740	380	740	320
17	Mg-Hardness (as CaCO ₃) mg/L	40	240	190	340	196
18	Sulphate (as SO ₄) mg/L	20.38	168	31.361	110	48
19	Coliform MPN/100 ml		7			
20	Fecal Coliform MPN/100ml		<2			
	CRITICAL PARAMETERS					
33	Metals	--	--	--	--	--
(a)	Cadmium (as Cd) mg/L	--	--	--	--	--
(b)	Chromium (as Cr ⁺⁶) mg/L	--	--	--	--	--
(c)	Chromium (as Cr) mg/L	--	--	--	--	--
(d)	Copper (as Cu) mg/L	--	--	--	--	--
(e)	Lead (as Pb) mg/L	--	--	--	--	--
(f)	Mercury (as Hg) mg/L	--	--	--	--	--
(g)	Nickel (as Ni) mg/L	--	--	--	--	--
(h)	Zinc (as Zn) mg/L	--	--	--	--	--
(i)	Iron (as Fe) mg/L	--	--	--	--	--
(j)	Manganese (as Mn) mg/L	--	--	--	--	--
(k)	Sodium (Na) mg/L	18	98	96	78	52
(l)	Potassium (K) mg/L	01	3	10	03	01
(m)	Calcium (as CaCO ₃) mg/L	--	--	--	--	--
(n)	Magnesium (as CaCO ₃) mg/L	--	--	--	--	--
(o)	Boron (as B) mg/L	--	--	--	--	--

Ground water of Industrial area sanwer road

		S	e	c	t	o	r
	PARAMETERS	A	B	C	D	E	F
1	Temperature °C	23	23	23	23	23	23
2	Colour Pt -Co Scale	1	1	1	1	1	1
3	Odour	O. lees	O. less.	O. less	O. less	OL	OL
4	pH pH Unit	7.8	7.9	8.0	7.8	7.21	7.42
5	Turbidity NTU			0.8	0.75	-	-
6	Sp. Conductivity μ mhos/cm	2340	1470	1410	1570	1698	2823
7	Total Solids mg/L	1467	1310	1340	1052	1465	1945
8	Total Dissolved Solids mg/L	1433	1288	1313	1022	1451	1927
9	Suspended Solids mg/L	34	22	27	30	14	18
10	Chloride (as Cl) mg/L	610	310	290	300	575	900
11	B.O.D. (3 days at 27°C) mg/L	1.4	1.1	1.2	0.6	0.8	5.5
12	C.O.D. mg/L	40	20	30	20	20	130
13	Amm. Nitrogen (as N) mg/L	1.56	0.405	0.826	0.679	9.07	11.742
14	Nitrite Nitrogen (as N) mg/L	0.007	0.017	0.008	0.006	0.002	0.008
15	Nitrate Nitrogen (as N) mg/L	12.34	5.114	12.42	10.51	8.757	11.615
16	Phosphate (as PO ₄) mg/L	0.058	0.590	0.62	0.52	Nil	Nil
17	Alkalinity mg/L	432	232	210	268	440	480
18	T. Hardness (as CaCO ₃) mg/L	740	516	614	532	520	600
19	Ca-Hardness (as CaCO ₃) mg/L	510	320	410	352	400	430
20	Mg-Hardness (as CaCO ₃) mg/L	230	196	204	180	120	170
21	Sulphate (as SO ₄) mg/L	68.2	60.6	62	65.4	24.88	26.609
22	Sodium (Na) mg/L	110	76	110	140	54	87
23	Potassium (K) mg/L	04	08	03	04	4	8

CRITICAL PARAMETERS

Ground water Samples around industrial area Sanwer Road ,Indore

Parameters	Unit	Sector A	Sector B	Sector C	Sector D	Sector E	Sector F
Phosphate	Mg/l	0.058	0.590	0.62	0.52	ND	ND
Ammonia	Mg/l	1.56	0.40	0.826	0.679	9.07	11.7
TKN	Mg/l	6.72	3.36	5.04	3.36	14.5	15.6
Chromium	Mg/l	ND	ND	ND	ND	ND	ND
Lead	Mg/l	ND	ND	ND	ND	ND	ND
Mercury	Mg/l	ND	ND	ND	ND	ND	ND
Zinc	Mg/l	ND	ND	ND	ND	ND	ND
Nickel	Mg/l	ND	ND	ND	ND	ND	ND
Copper	Mg/l	0.012	0.017	BDL	BDL	0.018	0.01

Ground Water of other Industrial area

	PARAMETERS	Unit	Industrial area pologround	Industrial area Palda	Industrial area Rau	Industrial area Mangliya	Industrial area Laxmibai nagar	Asrawad
1	pH	pH Unit	6.97	7.2	7.48	7.13	8.0	7.82
2	Turbidity	NTU	----	0.72	1.0	--	0.976	0.22
3	Sp. Conductivity	µ mhos/cm	3286	1854	1036	1981	884	1750
4	Total Solids	mg/L	1874	1532	886	1268	504	1037
5	Total Dissolved Solids	mg/L	1856	1520	870	1256	492	1015
6	Suspended Solids	mg/L	18	12	16	12	12	22
7	Chloride (as Cl)	mg/L	425	360	40	325	83	265
8	B.O.D. (3 days at 27°C)	mg/L	1.2	1.2	1.4	0.6	0.9	0.7
9	C.O.D.	mg/L	20	20	10	10	30	8
10	Amm. Nitrogen (as N)	mg/L	3.71	0.004	0.042	0.19	0.00	0.074
11	Nitrite Nitrogen (as N)	mg/L	0.04	0.007	0.002	0.002	0.004	0.00
12	Nitrate Nitrogen (as N)	mg/L	12.94	12.42	1.64	11.45	10.04	11.23
13	Phosphate (as PO ₄)	mg/L	0.014	0.045	0.049	151	0.665	0.776
14	Alkalinity	mg/L	576	248	360	416	230	240
15	T. Hardness (as CaCO ₃)	mg/L	1040	460	324	712	118	384
16	Ca-Hardness (as CaCO ₃)	mg/L	480	360	240	392	88	244
17	Mg-Hardness (as CaCO ₃)	mg/L	560	100	83	320	30	140
18	Sulphate (as SO ₄)	mg/L	101	72.05	21.16	126	42.21	17.22
19	Sodium (Na)	mg/L	78	50	24	51	130	38
20	Potassium (K)	mg/L	06	03	01	04	2	3

4.1.3 Predominant sources contributing to or posing danger of pollution of land and ground water such as hazardous/toxic wastes or chemicals dumps/storage etc.

Open dumping of MSW, at Deveguradia

4.1.4 Sources of Soil Contamination

MSW at Deveguradia

4.1.5 Types of existing pollution

Nil

4.1.6 Remedies for abatement, treatment and restoration of normal soil quality

NA

4.2 Ground water contamination

4.2.1 Present status/quality of ground water

In the ground water quality no pollutant contamination is significant.

4.2.2 Source Identification (Existing sources of Ground water Pollution)

No critical source, were identified.

4.2.3 Ground water quality monitoring program

Four locations for monitoring of ground water are identified, these are

- 1) Near Trenching ground- 3 points
- 2) Industrial area Sanwer road
- 3) Rajwada
- 4) Scheme no. 78

4.2.4 Action Plan for control of pollution including cost/time aspects

Short Term and long term Action Plan & Cost

Sr. No.	Description of Action Point	Implementing Agency	Cost in Lac Rs.	Proposed Time Frame
1	Isolated temporary storage facility for HW in the Sanwer road indore.	Individual Industry	200	2 year
2	Restriction on disposal of treated effluent on land in Sanwer road industrial area	MPPCB	--	After commissioning of CETP
3	Scientific collection segregation and storage of MSW	IMC		1 Year
4	Restrictions on use of thin plastic carry bags.	Local Body	--	6 Months
5	Installation of MSW processing plant at trenching ground	IMC	1000	6 Months
6	Land fill site development at Trenching ground	IMC	1700	6 Months

4.2.5 Treatment and management of contaminated ground water bodies, etc.

NA

4.2.6 Impact on CEPI score after abatement of pollution

Detail data's and its sources on the basis of which CEPI score for Indore City has been calculated, are not available to the Board. However it is estimated that after implementation of above measure CEPI score will come down between 50-60.

4.3 Solid Waste Generation and Management

4.3.6 Waste Classification and Quantification

4.3.6.1 Hazardous waste

Total waste generation

Category	Recyclable	Incenerable	landfill	container
Medium / major SSI	117.039 39.86	107.5 1.031	105.3 326.53	0.78
Total	156.899	108.538	431.83	0.78

HW disposed through CHWTsDF- 327 MT
Units join to CHWTsDF - 112

Near Indore district, common hazardous waste treatment and disposal facility is operated by M/s. M.P. Waste Management Project (M/s Ramky Enviro Engineers Ltd.) at Pithampur, Dhar 30km away from Indore. This facility is used by the industries for Hazardous wastes disposal. The facility is designed to dispose off 50,000 MT/annum in land fill and another 20,000 MT/annum for incineration for a period 20 years.

DISPOSAL OF HAZARDOUS WASTE (Medium/Major Ind.)

S. No.	Name of Ind	Products	Sub Category	HW Recyclable	HW Incinerable	HWM Landfills	HW Container
1	Ipca Laboratories Ltd.	Choloroquine Phosphate, 4,7,Dichloro quinoline, Choloroquine Sulphate, Amodiaquine Base/Hcl, Probenecid, B.C.F.I., Chlorinated Compound, Dimethyl compound,	5.1,28.1,28.2,28.4,28.5,33.1,34.3,34.4,36.4,33.3	19.19,	9.36		0.6
2	Rama Phosphate Ltd (S.S.P. Div)	Sulphuric Acid, SSP	5.1,17.2	2.650			
3	M.P. Beer Product(P) Ltd.	Bear	5.1	0.38			
4	Metal Men industries Ltd (Pipe Work)	Steel Pipe Tube, Black & Galvanising	5.1	Nil			
5	Tata steel	High Carbon (Steel Wire)	5.1,5.2,6.2,12.1,12.6	32.09		51	
6	Indore Sahakari Dugdh Sangh Mdt.	Milk & milk Product	5.1	0.25			
7	Hindustan Petroleum Corporation (POL Depot)	storage, unleaded carosin, HSD, Haxen, FO, LD O	5.1,3.1	0.04	3.1		
8	Hindustan Petroleum Corporation (LPG Depot)	L.P.G. Bottling	5.1,5.2,21.1,34.4	1.480	0.40		
9	Indian Oil Corporation Ltd.	Storage & Distribution of petroleum product	5.1,3.1	0.069	3		

DISPOSAL OF HAZARDOUS WASTE (SSL)

S. No.	Name of unit	Hazardous Waste (HW) generating Process as per Schedule-1	HW generating streams(Category)	HW generating in MTA/KL /Nos/Year	Quantity of HW in MTA/KLA/Nos/Year		
					Disposal in SLF	Incinerable	Sale & Recyclable
1	Biofil Chemical & Pharmaceuticals Ltd., 11/12 Sector-E, Sanwer Road Indore(New Name-HLL Life Care Ltd.)	Production/formulation of drugs /pharmaceuticals	28.1	0.016 MT		0.016 MT	
2	Ganpati Metals, Gram/Post Manglia, A.B. Road, Indore	Secondary production of lead	9.1	30.0 MT	30.0 MT		
3	Indian Soya Industries Plot No. 1 & 2 Sector -B, Industrial Area, Sanwer Road, Indore	Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.2 KL			0.2 KL
		Purification processes for air and water	34.3	12 MT	12 MT		
4	Manoj Industries Plot No. 15-16, "D", Sector-C, IA, Indore	Secondary production of lead	9.1	5.7 MT	5.7 MT		
5	Methodex System Ltd., 35-A, Fort Industrial Area INDORE	Purification processes for air and water	34.3	6.0 MT	6.0 MT		
		Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.020 KL			0.020 KL
6	Mittal Udyog , 2, Shivaji Nagar, Indore	Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.10 MT			0.10 MT
		Purification processes for air and water	34.3	1.5 MT	1.5 MT		
7	Noble Drugs, 309, Sector-E, Sanwer Road, INDORE (M.P)	Production/formulation of drugs /pharmaceuticals	28.1	0.040 MT		0.040 MT	

8	Plethico Laboratories Pvt. Ltd.(General Division), Village Dharavara, Post: Kalaria Distt. Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.20 KL			0.20 KL
		Purification processes for air and water	34.3	2.0 MT	2.0 MT		
		Purification processes for air and water	34.2	0.20 KL	0.20 KL		
		Production/formulation of drugs /pharmaceuticals	28.2	0.35 MT		0.35 MT	
9	Plethico Laboratories Pvt. Ltd.(Marketing Division),38, Pologround Industrial Area, Indore-452 003	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.20 KL			0.20 KL
10	Sanjay Manufacturing Co., 44, Sanjay Nagar, INDORE (M.P.)	Metal surface treatment such as etching, staining, polishing galvanizing, cleaning, degreasing, plating etc.	12.1	0.150MT	0.150MT		
11	Viscus Oil (P) Ltd., Rookhedi, Mangaliya, INDORE (M.P.)	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.015 KL			0.015 KL
		Purification processes for air and water	34.1	1.0 MT	1.0 MT		
12	Vishal Fabricator (P) Ltd,14-E, Sector-B, Sanwer Road, INDORE	Metal surface treatment such as etching, staining, polishing galvanizing, cleaning, degreasing, plating etc.	12.9	1.2 MT	1.2 MT		
13	Satyam Electroplater, 57-A, Fort Industrial Area, Indore	Metal surface treatment such as etching, staining, polishing galvanizing, cleaning, degreasing, plating etc.	12.9	50 Kg/Year	50 Kg/Year		
14	Univive Healthcare Pvt. Ltd., 323-A, Sector-E, Sanwer Road, Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	60 Liter/Year			60 Liter/Year
		Purification processes for air and water	34.3	540 Kg/year	540 Kg/year		
15	Prateek Industries, 249, Sector-f, Sanwer Road, Indore	Secondary production of lead	9.1	8 M.T./Year	8 M.T./Year		
16	Noble Industries, 296-B, Sector-F, Sanwer Road, Indore	Secondary production of lead	9.1	10 M.T./Year	10 M.T./Year		
17	Neha Industries, 327-328, Sector-F, Sanwer Road, Indore	Secondary production of lead	9.1	15 M.T./Year	15 M.T./Year		
18	Priti Industries, 65/A,36/C, Sector-F, Sanwer Road, Indore	Secondary production of lead	9.1	15 M.T./Year	15 M.T./Year		
19	Rishiga Agro (I) Pvt. Ltd. 249, Sector-A, Sanwer Road,	Disposal of Barrels	33.3	100 No./Month			100 No./Month

	Indore						
20	Shashi Pesticides, 204/2, Village Mandleshwar, Post Dakachya, Indore	Disposal of Barrels	33.3	175 No./Year			175 No./ Year
21	Atul Polychem, Rau Khedi, Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	10 Liter/Year			10 Liter/ Year
22	Krish Enterprise, 309/A-1, Udyog Nagar, Nemawar Road, Indore	Waste treatment process for organic compounds/solvent	36.4	0.5 M.T./Year	0.5 M.T./Year		
		Production/formulation of Drug.	28.1 & 28.5	0.5 M.T./Year		0.5 M.T./Year	
		Discarded containers	33.3	200 No./Year			200 No./Year
23	Pioneer Dyeing & Printing, 58/B, Sector-C, Sanwer Road, Indore	Production or industrial use of synthetic dyes, dye-intermediates and pigments	26.2	1200 Kg/year	1200 Kg/year		
24	K.D.M. Textile & Conc.14,15,16, Sector-C, Sanwer Road, Indore	Production or industrial use of synthetic dyes, dye-intermediates and pigments	26.2	0.15 MT/Year	0.15 MT/Year		
25	Mahamaya Batteries E-32, Sector-C, Sanwer Road, Indore	Secondary production of lead	9.1	8 M.T./Year	8 M.T./Year		
26	Bindra Chemicals, 42-A, 43-C, Sector-E, Sanwer Road, Indore	Disposal of barrels/containers used for handling of hazardous wastes/chemicals	33.1	150 Kg/Year			150 Kg/Year
		Discarded containers	33.3	150 Nos./Year			150 Nos./Year
		Purification processes for air and water	34.1	10 Kl/Year	10 Kl/Year		
27	Jayesh Industries 298-B, Sector-F, Sanwer Road, Indore	Nil (Using 32.3 category hazardous waste as raw material)	-	-			-
28	Jhaveri Overseas Pvt. Ltd. Plot NO.193/1, Navada Panth, Dhar Road, Indore	Purification Process of air & water	34.1	12MT/Year	12MT/Year		
		Waste treatment process					
		Disposal of barrels/containers used for handling of hazardous wastes /chemicals	33.3	100 Nos/Year			100 Nos/Year
		1000 MT/Year of waste will be taken from authorized units as raw materials	1.7, 4.2, 17.2, 18.1, 28.2, 35.2, B5, B6, B8 -				
29	Gulmohar Hydrocarbon Pvt. Ltd. Plot No. B-1, B-2, B-7, B-8, Industrial Area, Rau, Indore	Petrochemical process and pyrolytic operations	1.3	0.6 MT/Year	0.6 MT/Year		

		Chemical Sludge from waste water treatment	4.5	0.5 MT/Year	0.5 MT/Year		
		Spent Clay containing oil	4.6	16.5 MT/Year	16.5 MT/Year		
		Distillation residue	20.3	5.5 MT/Year	5.5 MT/Year		
		Filter & Filter Material which have organic liquids in them, e.g. mineral oil, synthetic oil and organic chlorine compounds	35.1	60 Kg/Year	60 Kg/Year		
30	Ujjawal Soya & chemicals 39-D, Sector-C, Sanwer Road, Industrial Area, Indore	Disposal of barrels/containers used for handling of hazardous wastes /chemicals	Class-B6,				10 Mt/Year
		Disposal of barrels/containers used for handling of hazardous wastes /chemicals	33.3	200 Nos/Year			200 Nos/Year
31	Hoswin Incinerator Pvt. Ltd, 196/197/F, Sector-F, Sanwer Road, Indore	Purification process for air and water Incineration ash	34.3	15MT/Yr	15MT/Yr		
			36.2	20MT/Yr	20MT/Yr		
32	White Cliff Tea Pvt. Ltd., Village Raukhedi, Manglia, Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	80 Liter			80 Liter
33	Vidhya Paper, 80, Sector-F, Sanwer Road, Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	120 Liter			120 Liter
34	Ankur Industries, 34-C, 35-A, Sector-E, 1A Sanwer Road, Indore	Discarded Containers/ Barrels (16,000 Nos. Procured only)	33.3				
		Chemical Sludge from Waste Water Treatment	33.2	2.5 MT/Year	2.5 MT/yr		
35	Dwarka Casting & Engineering Pvt. Ltd Vill. Shanbadia Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	20 Liter			20 Liter
36	Rajasthan Transfarmer & Electronic, 225-B,226-A, Sector-E, Sanwer Road, Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	200 Liter			200 Liter
37	M. P. transformer Pvt.Ltd., 115/A, Industrial Area, Polo ground	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	1.0 Kl			1.0 Kl
38	Chatak Agro India Pvt. Ltd. Vill. Bariya Tillor Kurd Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	100 Liter			100 Liter

		Purification processes for air and water	34.3	500 Kg/year	500 Kg/year		
39	M. P. transformers, 115/A-1, Industrial Area, Polo ground Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	10 Kl/year			10 Kl/year
40	Patel Motors (India) Pvt. Ltd. 428/3/3 Nirangenpur A.B. road Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	9000 liter			9000 liter
41	Maa Umiya Sahakari Sheetgarh Sanstha Maryadit Vill. Jamli Teh.Mahu Distt. Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	30 liter			30 liter
42	Sapna Sangeeta Automobile 47, Sneh Nagar, Sapna Sageeta Road, Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	400 liter			400 liter
43	Binary Software Solutions India Pvt. Ltd. 101, Bansi Trade Center, M.G. Road, Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	20 liter			20 liter
44	Yash Technologies Pvt. Ltd. 201-205, Bansi Trade Center Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	30 liter			30 liter
45	Sagar Auto mobile Pvt. Ltd. Hari compound Lusodia mori dawas naka Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	1000 liter			1000 liter
46	Mittal Cold Storage Pvt. Ltd. A.B. Road, Rau, Indore.	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	30 liter			30 liter
47	Sanghi brothers(I) pvt.ltd. 6, manoramagung Indore (car div.)	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	500 liter			500 liter
48	Sanghi brothers(I) pvt.ltd. (Lusodia mori A.B. Road Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	1000 liter			1000 liter
49	Deva Pesticides Pvt. Ltd. 41/B/2, Sector-F, Sanwer Road, Indore	Discarded Containers/Barrels (16,000 Nos. Procured only)	33.3	100 Nos./Year			100 Nos./Year
50	Jhawar Ice & Cold Storage Vill. Arjun Badoda Teh.Sanwer,Distt Indore.	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	50 liter			50 liter
51	Hemal Industries 299, Sector-F, Sanwer Road, Indore	Secondary production of lead	9.1	4.0 MT	4.0 MT		

52	Harsh Automobiles Pvt. Ltd. 180, Piplya pala A.B. road Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	500 liter			500 liter
53	Kalpna Lamp Components Industries Polo ground I/A Indore P No 8B4/A	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	20 liter			20 liter
54	A.M. Industries 96 B, Sector-F, Sanwer Road, Indore	Secondary production of lead	9.1	3 MT/year	3 MT/year		
55	Shivalik Vyapar Ltd. Gram Panchdaria, Sanwer Road, Indore	Secondary production of lead	9.1	40 MT	40 MT		
		Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	100 liter			100 liter
		Purification processes for air and water	34.3	50 MT	50 MT		
56	Mariya Pharmaceuticals Sec. E Sanwer road I/A Indore P. no 38A/B	Date expired discarded and Off specification drug/medicines	28.4	50 Kg/year		50 Kg/year	
57	Impetus Infotech (india) Pvt. Ltd. Palasia, indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	80 liter			80 liter
58	Ajmer food industries A.B. road Rajendra nagar near Hotel Utsav Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	10 liter			10 liter
59	Bharat feed Serve No.36/1/5 Gram –Kapaliya Khadi Nemavar Road Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	20 liter			20 liter
60	Texpro Industries P.No. 37-B, Sector-B, I/A, Sanwer road Indore	Production of industrial use of synthetic dyes, dye-intermediates and pigment	26.2	0.2 MT	0.2 MT		
61	Mahaveer processors - 408, Agrawal comp, Khati pura Sukhliya Indore	Production of industrial use of synthetic dyes, dye-intermediates and pigment	26.2	0.25 MT	0.25 MT		
62	Continental Refractories Pvt. Ltd. P.No-71 Sector-C, I/A, Sanwer road, Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	40 liter			40 liter
63	Kartex Industrial Landrette Pvt. Ltd.- 202/2, Lasudia Mori, Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	10 liter			10 liter

64	BhartiTelenet Ltd. 10-C, Ratlam Kothi Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	90 liter			90 liter
65	IDEB Project Ltd. Behind Anshuman School Betma Road Depalpur Distt. Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	500 liter			500 liter
66	Om Industries 70, Sector-E, Industrial Area Sanwer Road, Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	25 liter			25 liter
67	B.R. Goyal Infrastructure Pvt. Ltd. 375 Musakhedi Nemaber Road, Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.6 KiloLiter/year			0.6 KiloLiter/year
68	Salom Sales P.No. 255, Sector-E, I/A sanwer road Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	15 liter			15 liter
69	Ashok Kumer Mohanlal Jain, P.No. 85, Sector S Mechanic Nagar Schem No. 71 Dhar Road Indore	Discarded Containers/Barrels (24,000 Nos. Procured only)	33.3				
		Chemical Sludge from Waste Water Treatment	34.3	0.3 MT/Year	0.3 MT/Year		
70	Satyam Bio tech P.No. 74-A, Industrial area Rau, Distt-Indore	Disposal of Barrels	33.3	100 Nos.			100 No
71	Shinton Chemical Vill. Gari Pipalaya Teh. Sanwer Distt. Indore	Chemical Sludge from Waste Water Treatment	34.3	0.05 MT	0.05 MT		
		Production/formulation of drugs /pharmaceuticals	28.2	0.05 MT		0.05 MT	
72	Industrial Filter & Fabrics Pvt. Ltd. Khasra No. 140/2, Gram Moosakhedi, Ring Road, Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.03 KL			0.03 KL
73	Zeplin Mobile system India ltd No. 96/116 Sector E Industrial Area Sanwer Road Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.02 KL			0.02 KL
		Chemical Sludge from Waste Water Treatment	34.3	6.0 MT/Year	6.0 MT/Year		
74	Narendra & Co. Sec. A Sanwer road I/A Indore P. no 48/1	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.01 KL			0.01 KL
75	Agarwal Metal Industries 251/A Sector- E Industrial Area Sanwer Road Indore	Secondary production of lead	9.1	6.0 MT	6.0 MT		

76	Surya Tent & Furnitures Sec. F Sanwer road I/A Indore P. no 273Sec. F Sanwer road I/A Indore P. no 273	Chemical Sludge from Waste Water Treatment	34.3	0.05 MT	0.05 MT		
77	Krishna Metal Agency 158/B Sector- F Industrial Area Sanwer Road Indore	Secondary production of lead	9.1	6.0 MT	6.0 MT		
78	Recycle Waste 47/A, Sector-A, Sanwer Road, Indore	Chemical Sludge from Waste Water Treatment	33.2	1.5 MT/Year	1.5 MT/yr		
81	Ranjna Sagar (Petrol Pump) Survoy no 88/4 PH No.15 Village Manawer Distt Khargone	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.03 KL			0.03 KL
79	Mangla Shah (H.P.Petrol Pump) Survoy no 187 PH No.14 Nepanagar Distt Burhanpur	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.03 KL			0.03 KL
80	My Car (Indore) Pvt. Ltd. 78/1/2, Hukmahedi Near IPS Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.03 KL			0.03 KL
81	Satyamitra Sales & Trading Co. Ltd.. 23-B, Sect.- B, Industrial area, Sanwer road, Indore.	Discarded Containers/ Barrels (50,000 Nos., 150 MT Chemical Sludge from Waste Water Treatment	34.3	1.5MT/Y	1.5MT		
82	Indrasen Deshmukh, Khasra No.263, ph.No.-08, Village-Jainabad, Burhanpur.	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.03KL			0.03KL
83	Sanskar Motors, GF-25, Vijay Nagar, Scheme No. 54, Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	50L/Y			50L/Y
84	Adroit Industries (India) Ltd. 50-A, Laxmibai Nagar, Industrial Area Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.05 KL			0.05 KL
85	Nimbus Food Limited 86-A, 87, 137-B, Industrial Area Rau, Indore	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.03 KL			0.03 KL
86	M/s Prem Textiles (International) Khasra No.73/2/4-5 Gram-Jaymalpura, Maheshwar Road, Badwaha, Khargoan	Industrial operations using minerals/synthetic oil as lubricant in hydraulic system or other applications.	5.1	90Liter/Year			90Liter/Year

		Purification processes for air and water	34.3	540 Kg/year	540 Kg/year		
87	Omega Neutiaceuticals, Plot No. 5-B, Sai Kripa Industrial Area, Gram-Bhawarasal, Sanwer Road, Indore Distt. Indore.(M.P.)	Disposal of Barrels	33.3	100 Nos.			100 No
88	Payal Industries, Plot No. 30, I/ A Katkut Road, Barwaha, Distt- Khargoan.-451115	Secondary production of lead	9.1	4 MT	4MT		
92	Shri Balagi Chemical Industries, Plot No. 38, Industrial AREA, Nimrani, Khargoan.(M.P.0	Metal surface treatment such as etching, staining, polishing,galvinising, cleaning,degreasing, plating etc	34.3	0.5MT/Y			
89	Madhya Pradesh Transformer, 74-71/J Pologround,Industrial Area Indore	Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.01KL			0.01 KL
94	Ranjana Dawar Petrol Pump, Survey No. 18 & 19/1 , Mukandpura, Kasrawad, Khargoan	Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.015 KL			0.015 KL
95	Deepali Dandir Petrol Pump, Survey No. 15Kasrawad, Khargoan	Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.02 KL			0.02 KL
96	Reeta Mahajan Petrol Pump, Survey No.366/1 7 366/2 Mandleshwar, Khargoan	Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.02 KL			0.02 KL
97	Suman Saraf Petrol Pump, Survey No.33, Mandleshwar, Khargoan	Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.02 KL			0.02 KL
98	Yogesh Neema Petrol Pump, Survey No.100 & 104,Sanawad, Khargoan	Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.02 KL			0.02 KL
90	Grasim Industries Ltd Survey No. 370/1/5/2, Palda I/A,Indore	Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	30 liter			30 liter
91	Varha Infra Ltd. Gram-Bododiya The. Sanwer,Indore	Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	500 liter			500 liter

92	Sanghi brothers(I) pvt.ltd. 180/4, Piplyapala, Indore	Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	500 liter			500 liter
93	Advanced Crop Care (India) Pvt. Ltd. 20,21,24,25,I/A, Rangwasa, Rau, Indore	Disposal of Barrels	33.3	300 Nos.			300 Nos.
94	Sanghi brothers(I) pvt.ltd. P. No. 127-128/18 Tawali Chanda, Indore	Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	500 liter			500 liter
95	Banner's, 11/ B-1, I/A, Pologround, Indore.	Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.02 KL			0.02 KL
96	Electro Battery E-16, B, 17A, Sector- C, Sanwer Road, Indore	Secondary production of lead	9.1	3.0 MT	3.0 MT		
97	Choksi Laboratories Ltd., 6/3, Manoramagang, Indore	Purification processes for air and water	34.3	0.5 MT	0.5 MT		
98	A. D. Agro Food Pvt. Ltd. 10-B/ 11-A, Sector- A, Sanwer Road, Indore.	Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.1 KL			0.1 KL
99	Tirupati Balagi, Enterprises, 68 B,69 A, Sector- F, Industrial Area, Sanwer Road, Indore	Secondary production of lead	9.1	3.0 M.T./ Year	3.0 M.T./ Year		
100	Simplex Infrastructures, 69, Sukhadev Nagar Aerodrum Road, Indore.	Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.15 KL			0.15 KL
101	D&H Welding Electrode, Plot No.A, Sector-A Sanwer Road, INDORE (M.P.)	Purification processes for air and water	34.3	0.250 MT	0.250 MT		
		Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	0.2 MT			0.2 MT
102	MCW Health Care Pvt. Ltd. 286, Sector-E, Sawer Road, Indore	Production/formulation of Drug	28.4	25 Kg		25 Kg	
		Purification processes for air and water	34.3	0.5 Mt	0.5 Mt		
		Industrial operations using minerals/ synthetic oil as lubricant in hydraulic system or other applications.	5.1	10 liter			10 liter
				Total---	326.53MT	1.031MT	39.86MT

4.3.6.2 Bio-medical waste

- Total bedded HCEs -280 and
- Non- bedded HCEs -61.
- Join to CBMWTSDf: Bedded-280
- non-bedded -61
- HCEs having Own Facility - Nil
- Quantity of BMW generation:
- Bedded - 517.56 kg/day
- Non-bedded - 25.6 kg/day
- Total - 543.16 kg/day

There is one CBMWTSDf i.e. M/s. Hoswin Incinerator (P) Ltd. Located at 196-A, 197-B, Industrial area Sector-F, Sanwer Road, Indore the common facility comprises A gas based incinerator having capacity of 250 Kg./hrs. and BMW is feed through an automatic feeding device which is hydraulically operated. There is 1 No. autoclave having capacity of 400 lit per batch. There is 1 No. shredder of 30 kg/hrs waste shredding capacity. The common facility collect the BMW from approximate 550 Nos. of private and Govt. Hoipitals /Nursing Homes/Pathology lab/clinic etc. of Dist. Indore, Khandwa, Khargone, Badwani & Burhanpur of Regional Office, Indore's jurisdiction. This facility dispose of approximately 900 to 1000 kg./day BMW

4.3.6.3 Electronic waste

Quantification of electronic waste generated is not done for e-waste in Indore. survey work is under progress

4.3.6.4 Municipal Solid Waste/Domestic Waste/Sludges from ETPs/CETPs/STPs and other industrial sources

The total quantity of municipal solid waste generated in Indore is to the tune of 600 MT/Day which is collected through private operator under the control of Indore Municipal Corporation. The existing site located at Deveguradia is within four Kilometers from city.



Photograph of Solid Waste Dumping Site at Devguradia

4.3.6.5 Plastic waste

Board has carried out survey of plastic carry bag manufacturing units for effective implementation of Plastic Carry Bag. There is no plastic carry bag manufacturing units less than 20 microns thickness. District Collector has set up a squad for regulating Plastic Carry Bag Rules.

1. Registered unit = 68
2. Quantity = 3 T/day
3. Disposal of non recyclable plastic to Vikram
Cement kiln Khor, Neemuch for co-incineration
=276 tone

4.3.6.6 Quantification of wastes and relative contribution from different sources

The total generation of municipal solid waste in the region is 600 MT/day. The quantity of bio-medical waste generated is 543.16 Kg/day. The quantity of plastic 3ton per day aprox.is

4.3.7 Identification of waste minimization and waste exchange options

NA

4.3.8 Reduction /Reuse /Recovery / Recycle options in the co-processing of wastes

Proper segregation of municipal solid waste will assist in recycling of waste like paper, metal, plastic. Organic waste can be used for composting and can be used for manure.

4.3.9 Infrastructure facilities

There is no facility provided for treatment and proposal disposal of solid waste.

4.3.9.1 Existing TSDF/Incineration facilities including capacities

Not provided in Indore district. Facility operated by M/s. M.P. Waste Management Project (M/s Ramky Enviro Engineers Ltd.) at Pithampur, Dhar 30km. from Indore is used by the industries for Hazardous wastes disposal.

The facility is design to dispose off 50,000 MT/annum in land fill and another 20,000 MT/annum for incineration for a period 20 years.

4.3.9.2 Present status/performance and need of up gradation of existing facilities including enhancement of capacities

Work under progress for MSW processing plant and land fill site

4.3.9.3 Treatment and management of contaminated waste disposal sites, etc.

NA

4.3.9.4 Impact on CEPI score after proper management of Solid Wastes

Detail data's and its sources on the basis of which CEPI score for Indore City has been calculated, are not available to the Board. However it is estimated that after implementation of above measure CEPI score will come down between 50-60.

PPP MODEL

5. PPP Model

- 5.1 Identification of project proposals (for both the options i.e. technology intervention and infrastructure renewal) for implementation under the PPP model under the Action Plan.

Following projects are identified for technical intervention and infrastructure renewal for implementation of action plan:

- a. Setting up of CETP for sanwer road industrial area.
- b. Setting up of MSW collection, treatment & disposal facility.
- c. Setting up of collection centre for plastic waste for co-incineration of non recyclable plastic waste in cement kiln more.

- 5.2 Identification of stakeholders / agencies to be involved and to evolve financial and managerial mechanisms for implementation of PPP projects.

A joint venture of MoEF, CPCB, MPPCB, AKVN, Vikram Cement and Indore Municipal Corporation are identified as key agencies to be involved to evolve financial and managerial mechanisms for implementation of PPP projects.

6. Other infrastructural Renewal measures

6.1 Green Belts

Green belt development is proposed in Industrial clusters to reduce the impact on inhabitants

SANWER ROAD-	All around both side of road along with the tree guards at the distance of 5 meters. i.e. 50000 nos.
POLOGROUND-	All around both side of road along with the tree guards at the distance of 5 meters. i.e. 30000 nos.
LAXMIBAI NAGAR -	All around both side of road along with the tree guards at the distance of 5 meters. i.e. 20000 nos
Scheme No. 71-	All around both side of road along with the tree guards at the distance of 5 meters. i.e. 10000 nos.
Palda-	All around both side of road along with the tree guards at the distance of 5 meters. i.e. 6000 nos
Rau-	All around both side of road along with the tree guards at the distance of 5 meters. i.e. 5000 nos.

6.2 Development of Industrial Estate(s)

There is no proposal presently for development of industrial estates in Indore.

6.3 Development of shifting of industries located in the non-industrial areas to the existing/new industrial estates.

No

7. Specific Schemes

7.1 GIS-GPS system for pollution sources monitoring.

GPS system to be implemented for vehicles carrying hazardous wastes.

7.2 Hydro-geological fracturing for water bodies rejuvenation.

Detail study to be carried out for the above project.

7.3 In-situ remediation of sewage.

Board is imposing conditions for recycling of treated waste for High rise building/area development project more than 50 hectares should used for flushing purpose.

7.4 Utilization of MSW inert by gas based brick kilns.

Detail study to be carried out.

7.5 Co-processing of wastes in cement industries.

267 MT of plastic waste from Indore has been sent to vikram cement plant.

8. Public awareness and training Program

1. Special drive to be launched for public awareness to use electric crematoria through form filling scheme. Through news paper, television, hoardings, awareness/ workshops etc.
2. Special drive to stop open burning of MSW for public and municipal corporation workers.
3. Collection of non recyclable plastic for rag pickers.

9. Overall Impact of Installation/commissioning of pollution control equipments/measures on the CEPI score

CEPI After implementation of Short Term Action Plan

Detail data's and its sources on the basis of which CEPI score for Indore City has been calculated, are not available to the Board. However it is estimated that after implementation of above measure CEPI score will come down between 50-60.

CEPI After implementation of Long Term Action Plan

Detail data's and its sources on the basis of which CEPI score for Indore City has been calculated, are not available to the Board. However it is estimated that after implementation of above measure CEPI score will come down between 50-60.

10. Assessment of Techno-economical feasibility of pollution control systems in clusters of small/medium scale industries

Common effluent treatment plant for treatment of effluent of industries in Sanwer road industrial area will be techno-economically feasible.

11. Efforts shall be made to encourage use of Bio-compost and Bio-fertilizer alongwith the chemical fertilizer in the state to minimize the unutilized chemical fertilizer run-off into the natural water resources from agriculture fields (through Govt. Policy)

Policy in this regards need to be framed at Government level.

SUMMARY OF PROPOSED ACTION POINTS

12. Summary of proposed action points

WORK METHODOLOGY FOR ACTION PLAN

In order to achieve the objective, the methodology to be implemented is as follows

Step I: SURVEY

A reconnaissance survey of all the industrial clusters is being started. Teams of officers of the Board, ZO CPCB Bhopal carrying out survey and inspection of all the Red Category industries

The aim of this is as follows:

- a. To identify the units who have inadequate water air and hazardous waste treatment facility.
- b. To identify the units who have provided adequate pollution control systems but the system is in dilapidated condition causing leakages, spillages and fugitive emissions.
- c. To find out the size of land available for irrigation / gardening with treated effluent.
- d. To find out the industries using, storing solvents and emitting VOC's and other critical pollutants
- e. To find out the compliance of Hazardous Waste (M&H) Rules.

Directions under appropriate sections to be issued to industries for observed non-compliance during survey to take remedial actions. A time bound program will be procured from the industry for the remediation action. Short term and long term action plan will be set for industry on case to case basis.

STEP 2: MEETING AND DISCUSSION WITH INDUSTRIES OF SAME SECTOR

Industries in Indore have been categorized into four major sectors, viz.

- a. Bulk drugs and pharmaceuticals, b. Lead processing and Casting units d. Dall mill.
- c. Rolling mill

In these meetings the industries will be persuaded to use cleaner technology/mitigation measures and to submit time bound long term and short term plans.

STEP 3: Strengthening and augmentation of Inspection surveillance and monitoring network.

- a. Three continuous air monitoring stations with the help of CPCB/MPPCB and industrial sector to be set up in Indore city.
- b. To carry out ambient air monitoring for critical pollutants on monthly basis.
- c. Additional monitoring sites for air, surface water and ground water are identified and monitoring frequency increased.

12.1 Short term action plan.

Sr. No	Description of Action Point	Implementing Agency	Cost in Lac Rs.	Proposed Time Frame
1	Rigorous emissions control in polluting units through surveillance, inspections & monitoring (17 red type)	Industry/MPPCB/CPCB/	-	6 months
2	Rigorous emissions control in polluting units through surveillance, inspections & monitoring Medium/Major (54 red type) other	Industry/MPPCB/CPCB/	-	9 month
3	Rigorous emissions control in polluting units through surveillance, inspections & monitoring Small Scale (54 red type) other	Industry/MPPCB/CPCB/	-	1 year
4	Direction for Up gradation of effluent treatment plant, in water polluting units of which are not meeting prescribed standard in water polluting units	Industries, MPPCB	#	3 month
5	Direction to the industry for improving the efficiency of air pollution control system in air polluting unit and increase in vigilance.	MPPCB/CPCB	--	3 month
6	Setting of 3 more Continuous AAQM Stations	MPPCB/CPCB.	300	1 year
7	Strengthening of water quality network and its linkage to websites.	CPCB,MPPCB	300	1 years
8	Stoppage of MSW burning on open land at trenching ground.	IMC	--	6 months
9	Providing direction for air pollution control measures during the activity of road construction demolishing old building and new constructions	Local body/MPPCB/IDA/ State code	#	3 months
10	Traffic managements in the area	Traffic Dept. and Corporation/Police	--	1 Year
11	Installation of continuous Stack monitoring facility by major air polluting industries 17 types.	Individual Industry	#	1 Year
12	Scientific collection segregation and storage of MSW	IMC		1 Year

13	Restrictions on use of thin plastic carry bags.	Local Body	--	6 Months
14	Installation of MSW processing plant at trenching ground	IMC	1000	6 Months
15	Land fill site development at Trenching ground	IMC	1700	6 Months
16	Public awareness program	MPPCB/CPCB/MoEF GOI	100	1 year

12.2 Long term action plan.

Sr. N	Description of Action Point	Implementing Agency	Cost in Lac R	Proposed Time Frame
1	Completion of conveyance system for sewage of Indore city	MCI	400,00	3 years
2	Construction of STP for Indore city	MCI	200,00	After getting land 3 years.
3	Construction of effluent conveyance system & Common effluent treatment plant for Sanwer Road, Industrial Area	Sanwer Road Industrial Area CETP Pvt.Ltd., Industries, Govt. Assistance	25,00	After getting land 3 years
4	Laying of storm water line & sewer line in whole area for Pologround industrial area	MCI, DIC & Industries	1200	3 years
5	Laying of storm water line & sewer line in whole area Laxmibai Nagar industrial area	MCI, DIC & Industries	1000	3 years
6	Laying of storm water line & sewer line in whole area Sc. No. 71 industrial area	MCI, Industries	275	3 years
7	Laying of storm water & sewer line in whole area Palda industrial area	MCI, Industries	3350	3 years
8	Laying of storm water line & sewer line in industrial area Rau	NP Rau, DIC & Industries	1550	3 years
9	Installation of treatment facility for waste waters generated from major hotels, laundries, vehicle service center, commercial complex, major residential project, major marriage halls etc.	MPPCB, Local body & Concerned Establishment	#	3 years
10	Rigorous emissions control in air and water polluting units through surveillance, inspections & monitoring for other than red category	MPPCB	-	3 years
13	Introduction of improved technology in rolling mills	MPPCB/CPCB/MoEF	500	3 years
11	Introduction of improved technology in lead processing units	MPPCB/CPCB/MoEF	500	3 years
12	Introduction of improved technology in coal based boilers of small capacity	MPPCB/CPCB/MoEF	500	3 years
13	Changing the fuel pattern of the industry to clean fuel CNG supply in critical clusters of Indore in rate comparable to Indraprastha Mahanagar Ltd.	Avantika Gas Agency/GAIL/GOI Ministry of Petroleum and natural gas.	#	3 years
14	IMPROVEMENT IN FUEL QUALITY- presently In Indore city Bharat standard II level fuel is being supplied by various petroleum companies. In future supply of	Ministry of petroleum & Natural Gas , Govt. of India	-	3 years

	BS-III Fuel in Indore (Petrol/ Diesel) Supply of Bharat Standard. –IV fuel in Indore			
15	CNG Supply – Presently Four outlets are supplying CNG. In future Increasing its no. to 10 out lets All the pumps facilitate with CNG supply.	Awantika Gas limited. & Gail/Ministry of Petroleum GOI .	-	3 years
16	Improvement in emission norms of existing public transport vehicle, by conversion in to CNG A. 502 Maruti van, 160 Tata Magic, 3357 Auto rickshaws are running on CNG/LPG fuel All remaining public transport vehicle like Auto rickshaws, Tata magic Van, city buses to be converted in to CNG.	Regional transport authority /Awantika Gas Ltd.		3 years
17	All new transport vehicles to be registered should be of BS-IV Standards make and compulsory with CNG fuel based.	Regional transport authority		3 years
18	Phasing out off the old public transport vehicle (216 tempos are still running at the outer periphery) of the city, 7442 auto rickshaws of before 1995 makes, 1148 fore wheeler taxies of before 1995 make and 2723 buses of before 1995 makes are running in the city. Old public transport vehicles to be phased out in the following manner. >15 years. i.e before 1995 make >10 years. i.e before 2000 make >05 years i.e before 2005 make	R.T.O. R.T.O. R.T.O. R.T.O.		3 years 4 years 5years
19	IMPROVEMENT IN ROAD INFRASTRUCTURE FACILITY			
	(A) Sanwer road has six sectors. Approximate road length in area is 45 km. out of which only 11 km is concrete rest 34 km is kachha Making two lane 7 meter wide cement concrete road in remaining area i.e. 34 km.	DIC/AKVN	42,50	3 years

	(B) In the industrial area Pologround approximate road length in area is 10 km. out of which only 2 km is Bitumin rest 8 km is kachha. Making two lane 7 meter wide cement concrete road in remaining area i.e. 8 km.	DIC/AKVN	10,00	3 years
	(C) In the Industrial area Laxmibai Nagar road length in area is 8 km. out of which only 2 km is concrete rest 6 km is kachha. Making two lane 7 meter wide cement concrete road in remaining area i.e. 6 km.	DIC/AKVN	750	3 years
	(D) In the industrial area Sc. No. 71 approximate road length is 3 km. Making two lane 7 meter wide cement concrete road in area i.e. 3 km.	DIC/IDA	375	3 years
	(E) Industrial area palda has R.D. udhyog nagar, Khandelwal compound, Samta nagar, Dhanlakmi udhyog nagar, Agarwal udhyog nagar, Mangal udhyog nagar approximate road length in area is 25 km. Mos of roads are kachha . Making two lane 7 meter wide cement concrete road in all area i.e. 25 km.	IMC	31,25	3 years
	(F) In the industrial area Rau approximate road length in area is 10 km. Making two lane 7 meter wide cement concrete road in remaining area i.e. 14 km.	DIC/AKVN	17,50	3 years
20	Checking of adulteration of fuel	District Adm.	--	3 yr (continuous process)
21	Widening of the road and square for avoiding vehicle congestion proper road development.	Local body/Govt. of India	--	After 3 Years, (continuous process)
22	Strengthening of MPPCB for surveillance, inspections & monitoring and infrastructure facility of vehicles, equipments , Building etc,	MPPCB/CPCB/GOI	500	3 years
23	Isolated temporary storage facility for HW in the Sanwer road indore.	Individual Industry	200	3 years
24	Green belt development in industrial area clusters	DIC/AKVN	22	3 years
25	Public awareness program	MPPCB/CPCB/MoEF GOI	100	3 years