

# **AGENDA ITEM NO. 197.05**

**ANNUAL REPORT OF THE HARYANA  
STATE POLLUTION CONTROL BOARD  
FOR THE YEAR 2022-23.**

05/01

Agenda Item: 197.05

**Annual Report of the Haryana State  
Pollution Control Board for the year 2022-23**

There is a provision in section 39 (2) of the Water Act, 1974 that Every State Board shall, during each financial year, prepare, in such form as may be prescribed, an annual report giving full account of its activities under this Act during the previous financial year and forward it to State Government. The Government shall laid down such report before State Legislature. There is corresponding provision in section 35 (2) of the Air Act, 1981.

The Government of Haryana vide notification No. GSR- 125/C.A.6/74/S.64/78 dated 22.12.1978 has issued Haryana (Prevention and Control of Water Pollution) Rules, 1978 (as amended). As per Rule 31, Form 'G' of Annual Report has been prescribed in terms of Section 39 of Water Act, 1974.

The Government of Haryana vide notification No. G.S.R. 73/C.A.14/81/S, 54 "83 dated 15.12.1983 issued the Haryana Air (Prevention and Control of Pollution) Rules, 1983 (as amended). As per Rule 27, Form XI for the Annual Report has been prescribed, in terms of Section 35 of the Air Act, 1981.

The contents of Form 'G' for the Annual Report prescribed under the Haryana (Prevention and Control of Water Pollution) Rules, 1978 and Form XI for the Annual Report prescribed under the Haryana Air (Prevention and Control of Pollution) Rules, 1983 are similar and annexed as **Annexure-I**.

As per contents of Form G and Form XI for the Annual Report, information for Annual Report for the period 01.04.2022 to 31.03.2023 was sought from all Branch In-charges in the Head office and all Regional Officers in field and Lab In-charges of HSPCB.

Accordingly, Annual Report of the Haryana State Pollution Control Board for the period 01.04.2022 to 31.03.2023 has been drafted and annexed as **Annexure-II**.

In view of above, the Board may consider Annual Report of the Haryana State Pollution Control Board for the for the period 01.04.2022 to 31.03.2023 and accord approval for the same, so that the same may be submitted to the Government for placing before the State Legislature.

05/02  
Annexure-1

**HARYANA GOVERNMENT  
ENVIRONMENT DEPARTMENT**

Notification  
The 22<sup>nd</sup> December, 1978

No. GSR-125/C.A.6/74/S.64/78.- In exercise of the powers conferred by section 64 of the Water (Prevention and Control of Pollution) Act, 1974, (Parliament Act No. 6 of 1974), the State Government, after consulting the Haryana State Board for the Prevention and Control of Water Pollution, hereby makes the following rules, namely :-

1. Short title and commencement.-These rules may be called the Haryana (Prevention and Control of Water Pollution) Rules, 1978.

They shall come into force at once.

2. Definitions.- In these rules, unless the context otherwise requires,--

- (a) "Act" means the Water (Prevention and Control of Pollution) Act, 1974 (Parliament Act No. 6 of 1974);
- (b) "Board" means the Haryana State Board for the Prevention and Control of Water Pollution constituted under section 4;
  - <sup>1</sup>[(bb) "capital investment" means the original cost invested and includes investment on land, factory building, office building and machinery and factory whether ownership, on rent, mortgage, or lease basis.]
- (c) "Chairman" means the Chairman of the Board;
- (d) "Executive Committee" means a committee, constituted under section 9;
- (e) "Government" means the Haryana Government in the Administrative Department;
- (f) "Member" means a Member of the Board including the Chairman and the Member- Secretary;
- (g) "Member-Secretary" means the Member Secretary of the Board;
- (h) "section" means a section of the Act;
- (i) "State Board Laboratory" means a Laboratory established or recognized as such under sub-section (2) of section 17;
- (j) "State Water Laboratory" means a laboratory established or specified as such under sub-section(1) of section 52;
- (k) "year" means the financial year commencing on the 1<sup>st</sup> day of April, and ending on the 31<sup>st</sup> March of the succeeding calendar year;
- (l) The words and expressions used herein but not defined in these rules shall have the same meaning as are assigned to them in the Act.

3. Terms and conditions of the service of the Member of the Board other than Member- Secretary and Government officials. Section 5(8).-(1) Non-official Members of the Board resident in Chandigarh shall be paid an allowance of Rupees thirty per day for each day of <sup>2</sup>[attending] the actual meeting of the Board or actual meeting of any Committee constituted under sub-section (1) of section 9.

(2) Non-official members of the Board, not resident in Chandigarh shall be paid an allowance of rupees fifty per day (including daily allowance) for each day of <sup>2</sup>[attending] the actual meetings of the Board or for each day of <sup>2</sup>[attending] actual meeting of any committee constituted under sub-section (1) of section 9 and also travelling allowance at such rates as is admissible to a grade I officer of the Government.

(3) When the Legislative Assembly is not in session, a Member of the Legislative Assembly who is also a member of the Board shall be entitled to such allowance as are admissible to him for attending an Assembly Session on production of a certificate by the Member that he has not drawn any such allowance for the same journey and halts from any other Government source.

4. Condition of service of the Chairman. Section 5(9).-(i) The Government may appoint any serving Engineer-in-chief or Chief Engineer of the Public Works Department (Public Health Branch) or a retired officer of equivalent status or any other person possessing the qualification prescribed in <sup>2</sup>[section] 4(2) (a) of the Act.

(ii) Pay and Allowances of the Chairman.-(a) The Chairman who is serving officer will be entitled to draw pay in his own pay-scale plus usual deputation allowance and other allowances admissible under the Haryana Government rules.

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1. Inserted vide Notification No. G.S.R. 30/C.A.6/74/S.64/68, the 25<sup>th</sup> March 1988

2. Inserted vide Notification No. G.S.R. 44/C.A.6/74/S.64/86, the 30<sup>th</sup> May 1986

05/03

**Form 'G'**  
**[See rule 31]**

**Haryana State Board for the Prevention and Control of Water Pollution**

Annual Reports for the year \_\_\_\_\_

1. Introductory.
2. Constitution of the Board including changes therein.
3. Constitution of the Committee by the Board and meeting of the committee constituted by it.
4. Meetings of the Board.
5. Activities of the Board including the various functions performed under section 17 of the Act.
6. Prosecutions launched and convictions secured.
7. Finances and Accounts of the Board.
8. Visits to the Board by experts/important persons etc.
9. Any other important matter dealt with by the Board.

# **ANNUAL REPORT 2022-23**

**Haryana State Pollution Control Board**

05/05

**The Haryana State Pollution Control Board acknowledges the commitments, coordination, contribution and all sincere efforts of its employees to protect preserve and improve the quality of environment for a safer, cleaner and greener tomorrow.**

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# CHAPTER 1: INTRODUCTION

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**1.1 Haryana State Pollution Control Board (HSPCB)**

Haryana State Pollution Control Board is a statutory authority entrusted with the duty to implement environmental laws and rules within the jurisdiction of the State of Haryana. The Board ensures proper implementation of the statutes, judicial and legislative pronouncements related to environmental protection within the State. The Haryana State Pollution Control Board was constituted under the Water (Prevention and Control of Pollution) Act, 1974 vide Notification No. 86/ (4)(iv)74/33298 dated September 19, 1974 initially for prevention and control of water pollution and for maintaining or restoring wholesomeness of water.

The Haryana State Pollution Control Board (HSPCB) is mandated to implement applicable environmental laws/rules/notifications (Air/ Water) in the State of Haryana. The HSPCB draws up comprehensive plans and advises the State Government on the prevention, control and abatement of pollution. Major activities of the HSPCB comprise the following:

- Implementation of the consent management under the Water Act, 1974 & the Air Act, 1981; and the Environment Protection Act, 1986 and rules framed there under.
- Online monitoring of ambient air quality in major cities of Haryana.
- Monitoring of water quality of rivers Yamuna, Ghaggar & other water bodies.
- Online monitoring of air emissions and effluent discharge from highly polluting Industries and common treatment and disposal facilities.
- Implementation of Solid Waste Management, Biomedical, Hazardous, E-waste, C&D & Plastic Waste Management Rules.
- Implementation of Aravali Notification dated 07.05.1992 issued by the MoEF&CC, Govt. of India.
- Implementation of the Environment Impact Assessment Notification, 2006

HSPCB was also entrusted with additional responsibility of implementing the Water (Prevention and Control of Pollution) Cess Act, 1977 with a view of augmenting the resources of the State Pollution Control Boards but the same has now been abolished with the introduction of Goods and Services Tax Act, 2017. The State Pollution Control Board was also given additional responsibilities under the Air (Prevention and Control of Pollution) Act, 1981 to take appropriate steps for preservation of quality of control of air pollution.

The Board was subsequently given the responsibility of implementing the Environment (Protection) Act, 1986 and Rules and notifications issued there under.

Various environmental Acts and Rules being implemented by the Board are given as under:

1. The Water (Prevention and Control of Pollution) Act, 1974 and Rules made there under.
2. The Air (Prevention and Control of Pollution) Act, 1981 and Rules made there under.

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3. The Environment (Protection) Act, 1986 and the following Rules and notifications made there under:
  - i. The Hazardous Wastes (Management and Trans boundary Movement) Rules, 2016
  - ii. The Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
  - iii. The Biomedical Waste (Management) Rules, 2016
  - iv. The Plastics Waste (Management) Rules, 2016
  - v. The Solid Waste (Management) Rules, 2016
  - vi. The E-waste (Management) Rules, 2016
  - vii. The Noise Pollution (Regulation and Control) Rules, 2000
  - viii. The Batteries (Management and Handling) Rules, 2001
  - ix. Environment Impact Assessment Notification 2006
  - x. Notification dated 14.09.1999 issued by the MoEF&CC under EPA, 1986 regarding directions for utilization of fly ash generated from coal or ignite based Thermal Power Plants
  - xi. Notification dated 07.05.1992 issued by the MoEF&CC under EPA, 1986 restricting certain activities in specified area of Aravali Range

#### 1.2 Vision & Aim of HSPCB

- Besides fulfilling the above mandate, the vision & aim of the HSPCB is to bring about a gradual and consistent reduction in the levels of pollution (Air & Water) through strict monitoring, inspections, authorizations & legal interventions.
- HSPCB is committed to achieve a reduction in the levels of pollution (Air & Water) through comprehensive plans (National and State level interventions).

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## **CHAPTER 2: ABOUT HSPCB**

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## 2.1 Composition of the Board

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Section 4 of the Water (Prevention and Control of Pollution) Act, 1974 and section 5 of the Air (Prevention and Control of Pollution) Act, 1981, gives power to the State Government to constitute State Pollution Control Board in their territory. As per the said provisions of the Act, the Board comprises of a Chairman, a Member Secretary and fifteen other members nominated by the State Government. The members of the Board include the representative of the government, local authorities and state - controlled corporations and also persons representing the interests of agriculture, fisheries, industry or trade.

Chairman of the Board during the year 2022-23:

- 
- **Sh. P. Raghavendra Rao, IAS (Retd.)**
  - (30.11.2021 onwards)

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## 2.2 Members of the Board

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The Government of Haryana vide order Endst. No. 2/22/2008-1Env. Dated 12.01.2022 constituted Haryana State Pollution Control Board with the official Members, as under:

### Chairman

#### OFFICIAL MEMBERS

1. Additional Chief Secretary to Govt. Haryana, Environment and Climate Change Department
2. Additional Chief Secretary to Govt. Haryana Town and Country Planning and Urban Estates Department
3. Principal Secretary to Govt. Haryana, Urban Local Bodies Department
4. Principal Secretary to Govt. Haryana, Industries and Commerce Department,
5. Principal Secretary to Govt. Haryana, Transport Department

#### MEMBERS FROM CORPORATION AND COMPANIES

6. Managing Director, Haryana Power Generation Limited
7. Managing Director, Haryana Forest Development Corporation

### Member Secretary, Haryana State Pollution Control Board

#### 2.3 Details of Board Meetings held:

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Sr. no.	Board's Meeting	Held on
1	191th	08.04.2022
2	192th	22.06.2022
3	193th	20.09.2022
4	194th	15.12.2022
5	195th	14.03.2023

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## 2.4 Staff Strength of HSPCB (as on 31.03.2023)

Sr. No.	Name of the Post	Sanctioned Strength	Filled up	Vacant	Remarks
<b>Group A</b>					
1	Chairman	01	01	-	
2	Member Secretary	01	01	-	
3	Chief Environmental Engineer	02	-	02	
4	Chief Scientific Officer	02	-	02	
5	Sr. Environmental Engineer	06	06	00	
6	Sr. Scientist	09	00	09	
7	Environmental Engineer	33	18 (2 on deputation)	15	
8	Scientist 'C'	10	00	10	
9	District Attorney	01	-	01	
10	Development Team Leader	01	-	01	
<b>Group B</b>					
1	Sr. Accounts Officer	01	01	-	On deputation from Finance Department, Government of Haryana
2	Accounts Officer	01	-	01	
3	Administrative Officer	01	01		
4	Law Officer	01	01	-	on deputation from Administration of Justice Department, government of Haryana
5	Asstt. Distt. Attorney	03	03	-	on deputation from Administration of Justice Department, government of Haryana
6	Scientist 'B'	40	15	25	Requisition of 11 posts Sent to ACS (ENV.)
7	Asstt. Environmental Engineer	92	33 (3 on deputation)	59	3 AEEs on deputation from Irrigation & Water Resources Deptt,

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Sr. No.	Name of the Post	Sanctioned Strength	Filled up	Vacant	Remarks
8	Software Developer	01	-	01	
9	Tehsildar	01	-	01	
10	Superintendent	04	03	01	
11	Private Secretary	02	01	01	
12	Junior Software Developer	02	-	02	
<b>Group C</b>					
1	Section Officer (Accounts)	01	0	01	
2	Deputy Superintendent	04	01	03	
3	Statistical Assistant	01	-	01	Requisition of one post sent to HSSC vide no. 2934 dated 18.8.21
4	Sr. Scientific Assistant	07	-	07	Requisition of one post sent to HSSC vide no. 2934 dated 18.8.21
5	Jr. Scientific Assistant	10	-	10	Requisition of one post sent to HSSC vide no. 2934 dated 18.8.21
6	Personal Assistant	01	00	01	
7	Jr. Environmental Engineer	25	01	24	Requisition of 24 posts sent to HSSC vide no. 2931 dated 18.8.21
8	Sr. Scale Stenographer	04	-	04	
9	Assistant	46	09	37	
10	Accountant	04	-	04	Requisition of 2 posts sent to HSSC vide no. 2937 dated 18.8.21
11	Junior Scale Stenographer	03	-	03	Requisition of one post sent to HSSC vide no. 2962 dated 18.8.21
13	Accounts Clerk	02	-	02	
14	Steno-Typist	08	01	07	Requisition of 5 posts sent to HSSC vide no. 2963 dated 18.8.21
15	Clerk	46	11	35	Requisition of 27



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Sr. No.	Name of the Post	Sanctioned Strength	Filled up	Vacant	Remarks
					posts sent to HSSC vide no. 2960 dated 18.8.21
16	Driver	17	08	09	Requisition of 9 posts sent to HSSC vide no. 4430 dated 17.06.2022
17	Lab Attendant	10	02	08	Requisition of 2 posts sent to HSSC vide no. 2937 dated 18.8.21
18					
<b>Group D</b>					
1	Daftri	01	-	01	
2	Senior Peon	02	00	02	
3	Peon	51 (30 Regular 21 Outsourced)	20	10	Requisition of 8 posts sent to HSSC vide no. 717 dated 11.2.22 [2 posts kept vacant as they had not joined duty as recommended by HSSC and replacement of other Candidates are under consideration).
4	Mali-cum-Chowkidar	02 (diminishing)	02	-	
5	Field Attendant	22 (10 Regular 12 Outsourced)	04	06	Requisition of 6 posts sent to HSSC vide no. 716 dated 11.2.22
6	Sweeper	01 (diminishing)	01	--	
<b>Total</b>		<b>483 (33 posts outsourced) Total=450)</b>	<b>144</b>	<b>306</b>	

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## **CHAPTER 3: ACTIVITIES & INFRASTRUCTURE**

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### 3.1 Mandated activities of the Board

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Section 17 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 17 of the Air (Prevention and Control of Pollution) Act, 1981 have clearly prescribed the legally mandated responsibilities of the State Pollution Control Boards which are summarized as below :-

- To plan comprehensive programme for the prevention, control or abatement of water and air pollution in the state and to secure the execution thereof;
- To advise the State Government on any matter concerning the prevention, control or abatement of water and air pollution;
- To collect and disseminate information relating to water and air pollution, and the prevention, control or abatement thereof;
- To encourage, conduct and participate in investigations and research relating to problems of water pollution and prevention, control or abatement of water pollution;
- To collaborate with the Central Pollution Control Board in organizing training of persons engaged or to be engaged in programs relating to prevention, control or abatement of water and air pollution and to organize mass education programs relating thereto;
- To inspect sewage or trade effluent treatment works and plants installed for the treatment of sewage and trade effluents and to review plans, specifications or other data relating to plants set up for the treatment of water, works for the purification thereof and the system for the disposal of sewage or trade effluents or in connection with the grant of any consent as required by the Water Act & Air Act, or in connection with the grant of any Authorization or registration as required by the Environment (Protection) Act, 1986 and Rules made there under;
- To inspect, at all reasonable times, any control equipment, industrial plant or manufacturing process and to give, by order, such directions, to such persons as it may consider necessary to take steps for the prevention, control or abatement of air pollution;
- To inspect air pollution control area at such intervals as it may think necessary, assess the quality of air there in and take steps for the prevention, control or abatement of air pollution in such areas;
- To lay down, modify or annual effluent standards for sewage and trade effluents and for the quality of receiving waters (not being water in an inter-state stream) resulting from discharge of effluents and to classify waters of the state;
- To lay down, in consultation with the Central Board and having regard to the standards for the quality of air laid down by the Central Board, standards for emission of air pollutants in the atmosphere from industrial plant and automobiles or for the discharge of any air pollutant into the atmosphere from any other source whatsoever not being a ship or an aircraft;

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- To evolve economical and reliable methods of treatment of sewage and trade effluents having regard to the peculiar conditions of soils, climate and water resources of different regions and more specifically the prevailing flow characteristics of water in streams and wells which render it impossible to attain even the minimum degree of dilution;
- To evolve methods of utilization of sewage and suitable trade effluents in agriculture or other utilities;
- To evolve efficient methods of disposal of sewage and trade effluent on land, as are necessary on account of the predominant conditions of scant stream flows that do not provide for major part of the year the minimum degree of dilution;
- To lay down standards of treatment of sewage and trade effluents to be discharged in any particular stream by taking into account the minimum fair weather dilution available in that stream and the tolerance limits of pollution permissible in the water of the stream, after the discharge of such effluents;
- To make, vary or revoke any order for prevention, control or abatement of discharge of waste into streams or wells and requiring any person concerned to construct new systems for the disposal of sewage and trade effluents or to modify, alter or extend any such existing system or to adopt such remedial measures as are necessary to prevent control or abate water pollution;
- To lay down effluent standards to be complied with by persons while causing discharge of sewage or sullage or both, and to lay down, modify or annual effluent standards for the sewage and trade effluent;
- To advice the State Government with respect to the suitability of the any premises or location of any industry, which is likely to cause air pollution or likely to pollute a stream or well;
- To perform such other functions as may be prescribed or as may, from time to time, be entrusted to it by the Central Board or the State Government; and
- To do such other things and to perform such other acts as it may think necessary for the proper discharge of its functions and generally for the purpose of carrying into effect the purpose of the Air Act.

Although the Board's primary responsibility is to implement the environmental regulations within the state of Haryana; but during the last decade, there has been a paradigm shift in the concept of implementing environmental regulations with a judicious mix of command and control regime with economic instruments for controlling pollution, as also, solving various long standing environmental issues through consensus where the Board went beyond its mandated activities and acted as a promoter, providing assistance for controlling pollution in Government Department's projects

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### 3.2 Infrastructure of the Board

The Board is headed by a Chairman with its head quarters at Panchkula. There are 22 Regional offices of the Board in the State, located at Ambala, Ballabgarh, Bhiwani, Bahadurgarh, Dharuhera, Faridabad, Gurugram (South) at Manesar, Gurugram (North) at Gurugram, Hisar, Karnal, Kaithal, Kurukshetra, Nuh, Panipat, Panchkula, Palwal, Sonapat, Rohtak, Charkhi Dadri, Jind, Mahendergarh and Yamuna Nagar.

#### Details of Regional Offices, Sub-Regions and area under their jurisdiction

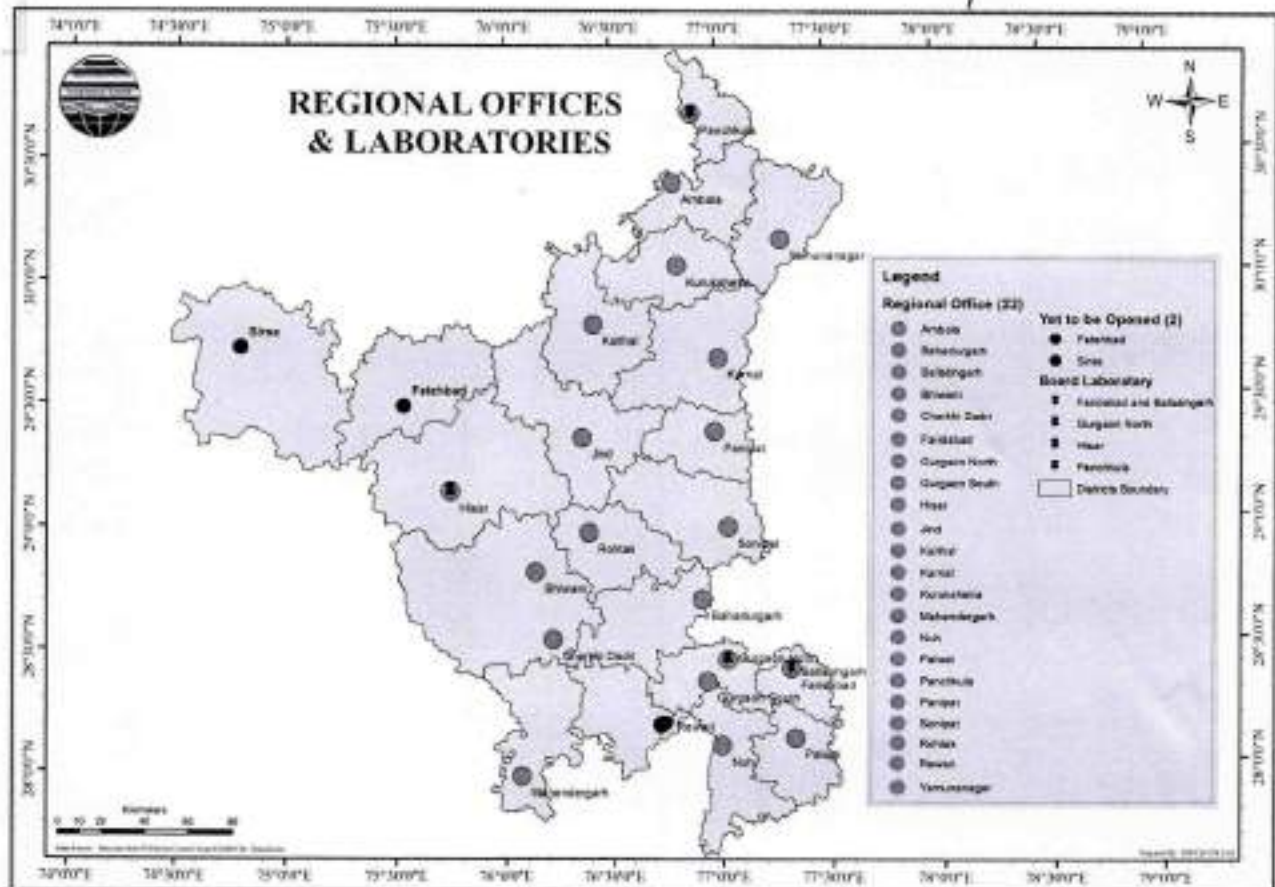
Sr. no.	Name of Region	Name of Sub-Region	Area of Jurisdiction
1.	Panchkula	Panchkula Urban	All sectors of HSVP including Saketri and colonies adjoining the HSVP sectors and industrial Area Phase 1 and Phase 2.
		Panchkula Outer	All area of Panchkula district except those mentioned at serial no.1 i.e. Marhanwala, Kalka, Barwala, Raipur Rani etc.
2.	Rohtak	Rohtak	District Rohtak
3.	Bhiwani	Sub Region-1	(left side of Rohtak to Loharu Road via Charkhi Dadri)
4.	Charkhi Dadri	Sub Region-2	Right side of Rohtak to Loharu Road via Charkhi Dadri.
5.	Kaithal	Kaithal City, Guhla, Kalayat Pundri & Rajound	District Kaithal
6.	Jind	Jind City & Julana, Narwana,	District Jind
		Uchana, Safidon	
7.	Ballabgarh	Sub Region-1	Eastern side of Mathura Road, except Sector -6.
		Sub Region-2	Sector-24, 25 & NIT.
		Sub Region-3	Western Side of Mathura Road
8.	Palwal	Sub Region-1	(left side of Faridabad Border to Mathura Road (NH-2)
		Sub Region-2	(Right side of Faridabad Border to Mathura Road (NH-2)
9.	Nuh	Sub Region-1	(Nuh and Tauru)
		Sub Region-2	(Ferozepur Jhirkaand Punhana)
10.	Ambala	-	Ambala City Ambala Cantt. Naraingarh Barara
11.	Karnal	Sub Region-1	Tehsil Karnal
		Sub Region-2	Tehsil Gharaunda

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		Sub Region-3	Tehsil Assandh, Nissing & Nilokheri
		Sub Region-4	Tehsil Taraori & Indri
12.	Kurukshetra	Pehowa, Thanesar, Shahabad, Ladwa.	District Kurukshetra
13.	Gurugram (North)	Udyog Vihar Old Gurugram New Gurugram	Alwar- Sohna Road to Farrukh Nagar- Jhajjar Road via Subhash Chowk, Hero Chowk and Basai Village- Right side of the road.
14.	Yamuna Nagar	Sub Region-1	Jagadhri
		Sub Region-2	Yamuna Nagar
		Sub Region-3	Outer Jagadhri & Yamuna Nagar
15.	Faridabad	1. NIT 2. Sector-27, Faridabad 3. DLF, Phase-1, Faridabad 4. DLF, Phase-II, Faridabad	Delhi Border to Bata Mor industries along with Mathura Road, DLF, Sector-27-A, B, C & D, Stone crushers of Mohabatabad and Pali Zone, Dhauj Crushing Zone and Mines.
16.	Bahadurgarh	Sub Region-1	Bahadurgarh
		Sub Region-2	Jhajjar
17.	Gurugram (South)	1. IMT Manesar-A 2. IMT Manesar-B 3. Beharampur 4. Sector-37, Gururam	Alwar- Sohna Road to (South Farrukh Nagar- Jhajjar Road via Subhash Chowk, Hero Chowk and Basai Village Left side of the road.
18.	Sonipat	1. Barhi 2. Kundli 3. Rai 4. Sonipat	District Sonapat
19.	Panipat	1. Sector-29, Panipat 2. Model Town Panipat 3. Samalkha	District Panipat
20.	Hisar	Sub Region-1	Hisar
		Sub Region-2	Fatehabad
		Sub Region-3	Sirsa
21.	Dharuhera	Sub Region-1	Rewari & Dharuhera
		Sub Region-2	Bawal
22.	Mahendergarh	-	Mahendergarh

The Board has established four laboratories at Panchkula, Gurugram, Faridabad and Hisar for carrying out the work for analysis of different types of samples of effluent/ water and air emissions of various industries/projects as well as water bodies and ambient air quality.

05/22



### 3.3 Functional Structure of the Board

The Board functions through its Engineering Wing, Scientific Wing, Legal Wing, Administration Wing, Accounts Wing and Information Technology Cell. The Engineering sub wings are headed by Senior Environmental Engineers and are mainly involved in implementing various environmental statutes in the State of Haryana, including monitoring work and redressing public complaints.

The Scientific wing, headed by Senior Scientists, looks after the Board's four Laboratories and are also involved in various environmental monitoring projects as well as in the implementation of various environmental statutes. The Legal wing, headed by the District Attorney, is looking after the legal aspects and representing the Board at different Courts of law. The Administrative wing is managing the administrative and personnel matters of the Board. The Accounts wing manages the accounts and finance related matters of the Board.

05/23

## **CHAPTER 4: ACTION AGAINST DEFAULTING UNITS**



05/24

**4.1 Action against Defaulting Units****Closure Action**

The Board is taking closure action under section 33-A of the Water (Prevention & Control of Pollution) Act, 1974, under section 31-A of the Air (Prevention & Control of Pollution) Act, 1981 & under section 5 of the Environment (Protection) Act, 1986 against units which are not meeting the standards prescribed under the EPA Rules, 1986 for discharge of pollutants or fail to obtain consent from the Board under the Water Act, 1974/Air Act, 1981 or fail to comply with the directions issued by the Board or Government, as the case may be, from time to time, under different environmental Acts.

The details of Closure Orders (as on 31.03.2023) issued against the defaulting units due to non-compliance under the above said Acts is given as under

:-

Region	No. of units issued closure order under EP Act, 1986	No. of units issued closure order under Water Act, 1974	No. of units issued closure order under Air Act, 1981	No. of units issued closure order jointly under Water & Air Acts	Total No. units issued closure order
Ambala	4	0	0	31	35
Bahadurgarh	0	0	10	52	62
Ballabgarh	0	12	69	26	107
Charkhi Dadri	0	0	14	1	15
Bhiwani	0	0	36	2	38
Dharuhera/Rewari	1	0	0	20	21
Mahendergarh	1	0	11	10	22
Faridabad	0	0	0	59	59
Gurugram (N)	0	0	0	0	0
Gurugram (S)	0	0	6	42	48
Hisar	0	0	2	66	68
Kaithal	1	0	75	9	85
Karnal	4	0	13	22	39
Kurukshetra	2	0	0	41	43
Nuh	0	1	4	15	20
Palwal	0	1	1	23	25
Panchkula	0	0	1	40	41
Panipat	0	2	4	31	37
Sonepat	0	0	1	37	38
Yamuna Nagar	8	0	0	22	30
<b>Total</b>	<b>21</b>	<b>16</b>	<b>247</b>	<b>549</b>	<b>833</b>

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**Legal Action**

The Board is taking legal action under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981 and the Environment (Protection) Act, 1986 against industrial units / projects violating the above said Acts/ Rules, by filing cases in the Special Environment Courts.

**i. Detail of Prosecution Cases (filed, pending & decided as on 31.03.2023) in Special Environment Court****Under EP Act**

Region	No. of prosecution pending on 31.03.2022 under EP Act	No. of prosecution filed during 2022-23 under EP Act	No. of prosecution decided		No. of pending prosecution as on 31.03.2023	Reason for decision against Board		
			In favor of Board	Against Board		Dismissed in default	Expiry of accused	Any other
Ambala	1	0	0	0	1	0	0	0
Bahadurgarh	0	0	0	0	0	0	0	0
Ballabgarh	0	0	0	0	0	0	0	0
Charkhi Dadri	2	0	0	0	2	0	0	0
Bhiwani	0	2	1	0	1	0	0	0
Dharuhera/Rewari	3	0	0	0	3	0	0	0
Mahendergarh	0	0	0	0	0	0	0	0
Faridabad	5	0	0	0	5	0	0	0
Gurugram (N)	33	2	22	7	6	0	0	7
Gurugram (S)	63	1	0	44	20	0	0	44
Hisar	2	0	0	0	2	0	0	0
Kaithal	0	0	0	0	0	0	0	0
Karnal	6	0	1	0	5	0	0	0
Kurukshetra	1	0	1	0	0	0	0	0
Nuh	0	0	0	0	0	0	0	0
Palwal	0	0	0	0	0	0	0	0
Panchkula	4	0	1	0	3	0	0	0
Panipat	0	0	0	0	0	0	0	0
Sonepat	6	0	0	0	6	0	0	0
Yamuna Nagar	4	3	1	0	6	0	0	0
<b>Total</b>	<b>130</b>	<b>8</b>	<b>27</b>	<b>51</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>51</b>

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## Under the Water Act

Region	No. of prosecution pending on 30.03.2022 under Water Act	No. of prosecution filed during 2022-23 under Water Act	No. of prosecution decided		No. of pending prosecution as on 31.03.2023	Reason for decision against Board		
			In favor of Board	Against Board		Dismissed in default	Expiry of accused	Any other
Ambala	6	0	0	0	6	0	0	0
Bahadurgarh	1	3	0	0	4	0	0	0
Ballabgarh	24	5	0	1	28	0	0	1
Charkhi Dadri	0	0	0	0	0	0	0	0
Bhiwani	0	0	0	0	0	0	0	0
Dharuhera/Rewari	1	5	1	0	5	0	0	1
Mahendergarh	0	0	0	0	0	0	0	0
Faridabad	26	0	0	1	25	0	0	1
Gurugram (N)	10	1	1	0	10	0	0	0
Gurugram (S)	3	0	0	0	3	0	0	0
Hisar	8	2	0	0	10	0	0	0
Kaithal	0	2	0	0	2	0	0	0
Karnal	7	1	1	0	7	0	0	0
Kurukshetra	5	0	0	0	5	0	0	0
Nuh	0	0	0	0	0	0	0	0
Palwal	1	1	0	0	2	0	0	0
Panchkula	22	0	0	3	19	0	0	3
Panipat	21	2	0	0	23	0	0	0
Sonepat	3	0	0	0	3	0	0	0
Yamuna Nagar	2	01	0	0	3	0	0	0
<b>Total</b>	<b>140</b>	<b>23</b>	<b>3</b>	<b>5</b>	<b>155</b>	<b>0</b>	<b>0</b>	<b>5</b>

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## Under the Air Act

Region	No. of prosecution pending on 30.03.2022 under Air Act	No. of prosecution filed during 2022-23 under Air Act	No. of prosecution decided		No. of pending prosecution as on 31.03.2023	Reason for decision against Board		
			In favor of Board	Against Board		Dismissed in default	Expiry of accused	Any other
Ambala	0	0	0	0	0	0	0	0
Bahadurgarh	1	0	0	0	1	0	0	0
Ballabgarh	4	0	0	0	4	0	0	0
Charkhi Dadri	39	7	0	0	46	0	0	0
Bhiwani	0	0	0	0	0	0	0	0
Dharuhera/Rewari	0	0	0	0	0	0	0	0
Mahendergarh	15	6	0	4	17	0	1	3
Faridabad	1	0	1	0	0	0	0	0
Gurugram (N)	0	0	0	0	0	0	0	0
Gurugram (S)	1	0	0	0	1	0	0	0
Hisar	0	2	0	0	2	0	0	0
Kaithal	0	0	0	0	0	0	0	0
Karnal	4	1	0	0	5	0	0	0
Kurukshetra	0	0	0	0	0	0	0	0
Nuh	0	0	0	0	0	0	0	0
Palwal	3	3	0	0	6	0	0	0
Panchkula	1	0	0	1	0	0	0	1
Panipat	4	1	1	1	3	0	0	1
Sonepat	1	1	0	0	2	0	0	0
Yamuna Nagar	2	0	0	0	2	0	0	0
<b>Total</b>	<b>76</b>	<b>21</b>	<b>2</b>	<b>6</b>	<b>89</b>	<b>0</b>	<b>1</b>	<b>5</b>

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## Under the Water &amp; Air Act

Region	No. of prosecution pending on 31.03.2022 under Water & Air Act	No. of prosecution filed during 2022-23 under Water & Air Act	No. of prosecution decided		No. of pending prosecution as on 31.03.2023	Reason for decision against Board		
			In favor of Board	Against Board		Dismissed in default	Expiry of accused	Any other
Ambala	44	0	0	0	44	0	0	0
Bahadurgarh	3	0	0	0	3	0	0	0
Ballabgarh	32	4	0	2	34	0	1	1
Charkhi Dadri	0	0	0	0	0	0	0	0
Bhiwani	0	0	0	0	0	0	0	0
Dharuhera/Rewari	1	2	0	0	3	0	0	0
Mahendergarh	0	2	0	0	2	0	0	0
Faridabad	3	2	0	0	5	0	0	0
Gurugram (N)	40	31	23	6	42	0	0	6
Gurugram (S)	6	5	0	1	10	0	0	1
Hisar	0	0	0	0	0	0	0	0
Kaithal	0	0	0	0	0	0	0	0
Karnal	11	8	01	0	18	0	0	0
Kurukshetra	1	1	0	1	1	0	0	1
Nuh	1	1	0	0	2	0	0	0
Palwal	0	0	0	0	0	0	0	0
Panchkula	2	0	1	0	1	0	0	0
Panipat	17	4	1	1	19	0	0	1
Sonepat	20	1	1	0	20	0	0	0
Yamuna Nagar	42	12	04	0	50	0	0	0
<b>Total</b>	<b>223</b>	<b>73</b>	<b>31</b>	<b>11</b>	<b>254</b>	<b>0</b>	<b>1</b>	<b>10</b>

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## ii. Details of Cases in the Hon'ble National Green Tribunal

Region	No. of cases pending on 31.03.2022 where Board is respondent	No. of new cases filed during 2022-23 where Board is respondent	No. cases disposed of during 2022--23	No. cases during 2022-23 wherein direction issue to board.	No. cases during 2022-23 wherein directions complied	No. cases during 2022-23 wherein directions not complied	No. of pending cases as on 31.03.2023
Ambala	0	0	0	0	0	0	0
Bahadurgarh	0	0	0	0	0	0	0
Ballabgarh	1	2	3	1	1	0	0
Bhiwani	2	0	2	2	2	0	0
Charkhi Dadri	1	0	0	1	1	0	1
Dharuhera/ Rewari	1	4	3	2	2	0	2
Mahendergarh	4	0	1	1	1	0	3
Faridabad	2	2	0	0	0	0	4
Gurugram (N)	7	0	0	0	0	0	7
Gurugram (S)	7	0	7	0	0	0	0
Hisar	2	5	2	2	2	0	5
Kaithal	2	0	2	0	0	0	0
Karnal	0	0	0	0	0	0	0
Kurukshetra	1	0	0	1	1	0	1
Nuh	5	1	4	4	4	0	2
Palwal	16	9	9	9	9	0	16
Panchkula	1	4	1	1	1	0	4
Panipat	0	1	0	0	0	0	1
Sonepat	8	4	9	1	1	0	3
Yamuna Nagar	7	6	7	6	6	0	6
<b>Total</b>	<b>67</b>	<b>38</b>	<b>50</b>	<b>31</b>	<b>31</b>	<b>0</b>	<b>55</b>

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iii. Details of Cases in the Hon'ble Punjab & Haryana High Court (filed, pending & decided as on 31.03.2023 )

Region	No. of cases pending on 31.03.2022 in which Board is party	No. of new cases filed against Board during 2022-23	No. of new cases filed by Board during 2022-23	No. of cases decided		No. of pending cases as on 31.03.2023
				In favor of Board	Against Board	
Ballabgarh	5	4	0	3	0	6
Bhiwani	8	0	0	1	0	7
Gurugram(South)	17	5	0	0	3	19
Gurugram(North)	29	0	0	0	0	29
Hisar	2	0	1	2	0	1
Karnal	6	3	0	1	0	8
Sonipat	13	2	0	4	0	11
Yamuna Nagar	17	1	0	0	0	18
Rewari	0	0	0	0	0	0
Mahendergarh	7	0	0	1	0	6
Bhadurgarh	3	0	0	0	0	3
Faridabad	4	6	0	0	0	10
Panchkula	6	4	0	3	0	7
Kurukshetra	1	0	0	1	0	0
Nuh	0	2	0	1	0	1
Panipat	7	2	1	4	0	6
Charkhi Dadri	1	0	0	0	0	1
Palwal	0	0	0	0	0	0
Kaithal	5	0	0	0	0	5
Ambala	4	0	0	0	0	4
<b>Total</b>	<b>135</b>	<b>29</b>	<b>2</b>	<b>21</b>	<b>3</b>	<b>142</b>

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## iv. Details of Cases in the Hon'ble Supreme Court of India, New Delhi (filed, pending &amp; decided as on 31.03.2023 )

Region	No. of cases pending on 31.03.2022 in which Board is party	No. of new cases filed during 2022-23 in which Board is party	No. of new cases filed by Board during 2022-23	No. of cases decided		No. of pending cases as on 31.03.2023
				In favor of Board	Against Board	
Ballabgarh	0	0	0	0	0	0
Bhiwani	0	0	0	0	0	0
Gurugram(South)	2	0	0	0	0	2
Gurugram(North)	4	2	0	0	2	4
Hisar	0	0	0	0	0	0
Karnal	0	1	0	1	0	0
Sonipat	4	1	0	1	0	4
Yamuna Nagar	0	0	0	0	0	0
Rewari	0	4	0	0	0	4
Mahendergarh	1	0	0	0	0	1
Bhadurgarh	0	0	0	0	0	0
Faridabad	4	3	0	2	0	5
Panchkula	0	0	0	0	0	0
Kurukshetra	0	0	0	0	0	0
Nuh	0	0	0	0	0	0
Panipat	0	0	0	0	0	0
Charkhi Dadri	0	0	0	0	0	0
palwal	0	0	0	0	0	0
Kaithal	0	0	0	0	0	0
Ambala	0	0	0	0	0	0
<b>Total</b>	<b>15</b>	<b>11</b>	<b>0</b>	<b>4</b>	<b>2</b>	<b>20</b>



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## **CHAPTER 5: GROSSLY & HIGHLY POLLUTING INDUSTRIES**

05/33

### 5.1 Grossly Polluting Industries (GPIs) during the year 2022-2023

Industries discharging effluents into a water course and

- (a) Handling hazardous substances, or
- (b) Effluent having BOD load of 100 Kg per day or more, or
- (c) a combination of (a) and (b),

have been categorized as grossly polluting units by the Central Pollution Control Board (CPCB). In 1993-94, the CPCB initiated identification of industries along the rivers to control the discharge of untreated effluent into rivers, directly or indirectly.

Directions were issued by the CPCB under Section 18(1) (b) of the Water Act, 1974, to all the State Pollution Control Boards/ Pollution Control Committees on July 14, 1997, for inventorization of GPIs to ensure compliance of environmental standards on priority and initiating action against defaulting Grossly Polluting Industries.

The status of Grossly Polluting Industries in Haryana, as per the said criteria, is as below:

Region	No. of the Grossly polluting Industries	Compliance Status		Action taken against non-complying units			
		Complying	Non Complying	Closure	Prosecution	Closure & Prosecution	Closed on its own
Ballabgarh	41	39	2	0	0	0	2
Bhiwani	1	1	0	0	0	0	0
Gurugram(South)	155	155	0	0	0	0	0
Gurugram(North)	26	25	1	1	0	0	0
Hisar	0	0	0	0	0	0	0
Karnal	60	58	2	1	0	0	1
Sonapat	124	122	2	0	2	0	0
Yamuna Nagar	128	128	0	0	0	0	0
Rewari	12	12	0	0	0	0	0
Mahendergarh	0	0	0	0	0	0	0
Bhadurgarh	86	86	0	0	0	0	0
Faridabad	32	22	10	3	0	3	4
Panchkula	4	4	0	0	0	0	0
Kurukshetra	6	4	2	0	0	0	2
Nuh	0	0	0	0	0	0	0
Panipat	340	339	01	0	1	0	0
Charkhi Dadri	0	0	0	0	0	0	0
palwal	8	8	0	0	0	0	0
Kaithal	4	4	0	0	0	0	0
Ambala	14	13	1	1	0	0	0
<b>Total</b>	<b>1041</b>	<b>1020</b>	<b>21</b>	<b>6</b>	<b>3</b>	<b>3</b>	<b>9</b>

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## 5.2 Highly Polluting 17 Category Industries during the year 2022-2023

MoEF&CC issued a notification on January 16, 1991 to ensure compliance of environmental standards in highly polluting industries. MoEF&CC formulated 15 point programme for priority action.

The CPCB initially selected 18 Categories of major polluting industries but after discussion 17 Categories of highly polluting industries were finalized for regular follow up through the CPCB. These categories are Aluminium Smelting, Basic Drugs & Pharmaceuticals Manufacturing, Chlor Alkali/ Caustic Soda, Cement, Copper Smelting, Dyes and Dye Intermediate, Distillery, Fertilizer, Integrated Iron & Steel, Leather Processing including Tanneries, Oil Refinery, Pesticide Manufacturing, Pulp & Paper, Petrochemicals, Sugar, Thermal Power Plants and Zinc Smelting.

The status of Highly Polluting 17 Category Industries in Haryana, is as below

(as on 31.03.2023 )

Region	No. of the Highly polluting Industries	Compliance Status		Action taken against non-complying units			
		Complying	Non Complying	Closure	Prosecution	Closure & Prosecution	Closed on its own
Ballabgarh	2	2	0	0	0	0	0
Bhiwani	3	3	0	0	0	0	0
Gurugram(South)	2	2	0	0	0	0	0
Gurugram(North)	1	1	0	0	0	0	0
Hisar	3	3	0	0	0	0	0
Karnal	60	58	2	2	0	0	0
Sonapat	42	42	0	0	0	0	0
Yamuna Nagar	4	4	0	0	0	0	0
Rewari	1	1	0	0	0	0	0
Mahendergarh	0	0	0	0	0	0	0
Bhadurgarh	25	25	0	0	0	0	0
Faridabad	1	1	0	0	0	0	0
Panchkula	6	5	1	1	0	0	0
Kurukshetra	5	5	0	0	0	0	0
Nuh	0	0	0	0	0	0	0
Panipat	10	10	0	0	0	0	0
Charkhi Dadri	2	2	0	0	0	0	0
Palwal	1	1	0	0	0	0	0
Kaithal	1	1	0	0	0	0	0
Ambala	6	6	0	0	0	0	0
<b>Total</b>	<b>175</b>	<b>172</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>

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## **CHAPTER 6: AWARENESS PROGRAMMES**

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**6.1 Awareness Programmes during the year 2022-2023**

Awareness programmes were organized at different places in the state of Haryana for creating awareness on various environmental issues.

The details of awareness programmes organized, Region-wise, is as under:-

Regional Office	No. of Awareness Programmes Organized
Ballabgarh	7
Bhiwani	10
Gurugram(South)	4
Gurugram(North)	4
Hisar	9
Karnal	32
Sonapat	4
Yamuna Nagar	1
Rewari	5
Mahendergarh	4
Bhadurgarh	4
Faridabad	7
Panchkula	29
Kurukshetra	8
Nuh	4
Panipat	6
Charkhi Dadri	2
Palwal	0
Kaithal	5
Ambala	5
<b>Total</b>	<b>150</b>

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# **CHAPTER 7: WATER & AIR POLLUTION CONTROL DEVICES**

05/38

## 7.1 ETPs, STPs &amp; CETPs

**Effluent Treatment Plants (ETPs), Sewage Treatment Plants (STPs) & Common Effluent Treatment Plants (CETPs)**

All the polluting industrial units/ projects generating trade effluent and domestic effluent (more than 10 KLD) are required to install ETPs/STPs before commissioning and thereafter, maintain and operate the same regularly and effectively, to ensure compliance of prescribed environmental standards.

**Detail of new ETPs/STPs installed in industrial units/projects (as on 31.03.2023)**

Region	No. of new ETP/STP installed		
	ETP	STP	Both ETP & STP
Ballabgarh	25	1	0
Bhiwani	0	0	0
Gurugram(South)	32	15	2
Gurugram(North)	21	13	0
Hisar	32	10	5
Karnal	43	0	0
Sonipat	60	07	03
Yamuna Nagar	13	0	0
Rewari	9	8	5
Mahendergarh	1	2	0
Bhadurgarh	54	16	0
Faridabad	9	2	1
panchkula	24	7	2
Kurukshetra	03	00	02
Nuh	5	2	2
Panipat	48	6	0
Charkhi Dadri	0	1	1
Pawal	50	39	27
Kaithal	10	4	14
Ambala	33	4	37
<b>Total</b>	<b>472</b>	<b>137</b>	<b>101</b>

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**Detail of Industries/ Projects Modified/Upgraded ETPs/STPs (as on 31.03.2023)**

Region	No. of Industries Modified ETP	No. of Industries Modified STP	No. of Industries Modified STP & ETP Both
Ballabgarh	0	0	0
Bhiwani	0	0	0
Gurugram(South)	13	3	0
Gurugram(North)	0	0	0
Hisar	1	0	0
Karnal	0	0	0
Sonipat	2	1	2
Yamuna Nagar	02	0	0
Rewari	0	0	0
Mahendergarh	0	0	0
Bhadurgarh	1	0	0
Faridabad	3	0	0
panchkula	1	5	0
Kurukshetra	0	0	0
Nuh	0	0	0
Panipat	0	0	0
Charkhi Dadri	0	0	0
Palwal	6	11	1
Kaithal	0	1	1
Ambala	0	0	0
<b>Total</b>	<b>29</b>	<b>21</b>	<b>4</b>

**Detail of new STPs installed in various towns (as on 31.03.2023)**

Region	No. of new STPs installed	No. of towns where new STPs installed	Capacity
Ballabgarh	1	1	30 KLD
Karnal	3	3	02 MLD STP at Kachhwa, 02 MLD STP at Kohand & 08 MLD STP at Kambopura(12 MLD)
Mahendergarh	1	1	5.0 MLD
Panchkula	1	1	6.5
Panipat	2	1	18
Kaithal	2	2	6.5 MLD
Ambala1	1	1	5 MLD
<b>Total</b>	<b>11</b>	<b>10</b>	<b>73 MLD</b>



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## Detail of new CETPs installed in industrial clusters/estates (as on 31.03.2023)

Region	No. of new CETPs installed	Location	Capacity
Hisar	1	M/s HSIIDC Industrial Estate, SIRSA	1.5 MLD
Yamuna Nagar	1	3 MLD CETP at HSIIDC, Manakpur, Jagadhri	3 MLD
Kaithal	1	HSIIDC, Narwana	1.5 MLD

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**7.2 Air Pollution Control Devices (APCDs) during the year 2022-23**

All the polluting industrial units/projects having source of air emissions are required to install APCDs before commissioning and thereafter, maintain and operate the same regularly and effectively for controlling the particulate matter and gaseous emissions generated from the stacks attached with the source of pollution and fugitive emissions generated from the process to ensure compliance of prescribed environmental standards.

**Detail of Industrial units/projects Installed /Modified APCDs (as on 31.03.2023)**

Region	No. of industries installed new APCM	No. of industries modified APCM
Ballabgarh	28	0
Bhiwani	0	0
Gurugram(South)	0	0
Gurugram(North)	0	0
Hisar	25	0
Karnal	42	0
Sonapat	149	0
Yamuna Nagar	19	0
Rewari	5	0
Mahendergarh	0	0
Bhadurgarh	46	0
Faridabad	4	0
Panchkula	12	0
Kurukshetra	3	1
Nuh	1	7
Panipat	231	231
Charkhi Dadri	0	0
Palwal	0	0
Kaithal	12	0
Ambala	8	0
<b>Total</b>	<b>585</b>	<b>239</b>

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### 7.3 Online Continuous Effluent & Emission monitoring System (CEMS) during the year 2022-23

A continuous emission monitoring system (CEMS) is the total equipment necessary for the determination of a gas or particulate matter concentration or emission rate using pollutant analyzer measurements and a conversion equation, graph, or computer program to produce results in units of the applicable emission.

Continuous monitoring of emissions and effluents is done from the discharge points of industrial units. The analysers are installed on stacks/ chimneys and at the outlets of Effluent Treatment Plants/ Sewage Treatment Plants. The analysers continuously generate data at intervals of one second to few minutes.

In order to track release of pollutants through air emissions and effluent discharge from industries with high pollution potential, the Central Pollution Control Board (vide its letter No. B-29016/04/06PCI-1/5401 dated 05.02.2014) issued directions under section 18(1) b of the Water and the Air Act to the State Pollution Control Boards/ Committees for directing the 17 categories of highly polluting industries (such as Pulp & Paper, Distillery, Sugar, Tanneries, Power Plants, Iron & Steel, Cement, Oil Refineries, Fertilizer, Chloral Alkali Plants, Dye & Dye Intermediate Units, Pesticides, Zinc, Copper, Aluminum, Petrochemicals and Pharma Sector, etc.), Common Effluent Treatment Plants (CETP), Sewage Treatment Plants (STPs), Common Bio Medical Waste and Common Hazardous Waste Incinerators; for installation of online effluent quality and emission monitoring systems. Grossly Polluting Industries (GPI) under Ganga Basin and common treatment/ facility units were also directed to install online monitoring devices.

#### **Parameters to be monitored**

- a. For effluent - pH, BOD, COD, TSS, Flow, Chromium, Ammoniacal Nitrogen, Fluoride, Phenol, Cyanide, Temperature, and Arsenic
- b. For emissions -PM, Fluoride, NO<sub>x</sub>, SO<sub>2</sub>, Cl<sub>2</sub>, HCl and NH<sub>3</sub>. The relevant parameters for each category of industries are provided on the CPCB website.

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**Details of installation of Online Continuous Effluent & Emission monitoring System (OCEMS) during the year 2022-2023**

Region	No. of Industries required to install OCEMS	No. of Industries installed OCEMS	No. of Industries Not installed OCEMS	Action taken against non-complying units				
				Closure	Prosecution	Closure & Prosecution	Closed on its own	Under process (Specify reason)
Ballabgarh	82	82	0	0	0	0	0	0
Bhiwani	16	16	0	0	0	0	0	0
Gurugram(South)	167	167	0	0	0	0	0	0
Gurugram(North)	84	84	0	0	0	0	0	0
Hisar	31	31	0	0	0	0	0	0
Karnal	95	95	0	0	0	0	0	0
Sonipat	120	112	8	0	0	0	8	0
Yamuna Nagar	25	25	0	0	0	0	0	0
Rewari	32	32	0	0	0	0	0	0
Mahendergarh	6	6	0	0	0	0	0	0
Bhadurgarh	89	89	0	0	0	0	0	0
Faridabad	35	34	1	0	0	0	1	0
Panchkula	13	13	0	0	0	0	0	0
Kurukshetra	14	14	0	0	0	0	0	0
Nuh	15	15	0	0	0	0	0	0
Panipat	161	161	0	0	0	0	0	0
Charkhi Dadri	2	2	0	0	0	0	0	0
Palwal	27	27	0	0	0	0	0	0
Kaithal	67	67	0	0	0	0	0	0
Ambala	27	27	0	0	0	0	0	0
<b>Total</b>	<b>1108</b>	<b>1099</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>

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## CHAPTER 8: SAMPLE TESTING

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**8.1 Status of Sampling during the year 2022-2023**

The Board has established four laboratories at Panchkula, Gurugram, Faridabad and Hisar for carrying out the work for analysis of different types of samples of effluent/ water and air emissions of various industries/projects as well as water bodies and ambient air quality.

The details of sample testing carried out by laboratories of the HSPCB are as under:-

**i. Effluent Discharge**

Laboratory	No. of sample received during 2022-23	No. of sample tested	No. of sample passed	No. of sample failed	No. of sample pending for testing
Faridabad	2876	2876	2579	297	0
Hisar	138	138	138	0	0
Gurugram	263	263	191	72	0
Punchkula	4367	4367	3807	560	0
<b>Total</b>	<b>7644</b>	<b>7644</b>	<b>6715</b>	<b>929</b>	<b>0</b>

**ii. Air Emission**

Laboratory	No. of sample received during 2022-23	No. of sample tested	No. of sample passed	No. of sample failed	No. of sample pending for testing
Faridabad	887	887	825	4	0
Hisar	447	447	446	1	0
Gurugram	413	413	379	34	0
Punchkula	1234	1234	1233	1	0
<b>Total</b>	<b>2981</b>	<b>2981</b>	<b>2883</b>	<b>40</b>	<b>0</b>

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## **CHAPTER 9: CONTINUOUS AMBIENT AIR QUALITY MONITORING**

05/47

## 9.1 General

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With increase in air pollution levels across the country, revised national ambient air quality standards for twelve parameters were notified in the year 2009 by the MoEF&CC, which include gaseous emissions like sulphur dioxide, nitrogen dioxide, ozone, lead, carbon monoxide, ammonia, benzene, benzo (a), arsenic, nickel and particulate matters of size less than 10 microns and 2.5 micron etc. As per revised norms, residential, rural and industrial areas have the same standards.

The revised ambient air quality standards provide a legal framework for the control of air pollution and protection of public health with a provision for any citizen to approach the court for better air quality. In India, these norms are governed by the Central Pollution Control Board (CPCB) and implemented by the State Pollution Control Boards/ Pollution Control Committees.

Continuous ambient air quality monitoring include installation of Fixed Continuous Ambient Air Quality Monitoring System as per CPCB/ SPCB guidelines, comprising of gas and BTX analyzers, dust analyzers, weather monitors and associated auxiliary items including PC based data acquisition systems with suitable software to link up with the State Pollution Control Board and the Central Pollution Control Board.



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## **9.2 Continuous Ambient Air Quality Monitoring Report**

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The Haryana State Pollution Control Board has set up 29 Continuous Ambient Air Quality Monitoring Stations at most of the District Head Quarters in the State. Continuous data of ambient air quality being monitored at these stations is being displayed at prominent places in these towns and also connected to the main server of the Board and CPCB. This has facilitated generation of Ambient Air Quality data on continuous basis for better management of air quality.

Continuous Ambient Air Quality Monitoring Report has been tabulated for the cities of Manesar, Bhiwani, Bahadurgarh, Palwal, Ballabgarh, Sonapat, Mewat, Dharuhera, Panipat, Yamuna Nagar, Mahendergarh, Kurukshetra, Jind, Fatehabad, Karnal, Ambala, Hisar, Sirsa, Kaithal, Gurgaon, Rohtak, Panchkula and Faridabad. The data has been presented in the form of tables.

The table highlights the monthly average of air pollutants, wherein rows represents the period and the columns represent the unit of measurement of the pollutant. The pollutants highlighted in columns are Particulate Matter (PM2.5), Nitrogen Di-oxide (NO<sub>2</sub>), Nitrogen Oxide (Nox) and Ozone (O<sub>3</sub>), Carbon Monoxide (CO), Nitric Oxide (NO) and Sulphur Di-oxide (SO<sub>2</sub>) and Benzene

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## 1. Continuous Ambient Air Quality Monitoring Station at Bahadurgarh

Monitoring Location : Arya Nagar, Bahadurgarh - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	13.71	35.27	25.01	43.14	28.10	0.73	40.21	117.41	282.58
May-22	17.14	40.63	37.78	60.40	8.90	0.66	39.89	85.63	221.81
Jun-22	17.90	40.13	40.16	64.54	18.39	0.62	39.82	80.99	180.92
Jul-22	21.22	21.71	28.44	43.52	2.96	0.35	32.15	36.32	67.94
Aug-22	18.67	11.31	20.93	35.69	7.15	0.25	30.99	31.84	67.16
Sep-22	23.57	15.61	25.60	40.66	10.34	0.46	41.16	43.11	78.23
Oct-22	23.94	19.90	27.64	44.90	7.99	0.66	26.11	96.76	167.71
Nov-22	16.44	24.04	29.66	58.20	10.52	0.90	43.32	126.74	195.83
Dec-22	10.73	13.61	22.65	62.26	9.74	0.74	60.19	96.80	154.07
Jan-23	11.33	17.65	28.17	65.07	9.58	0.60	39.89	90.96	134.94
Feb-23	17.51	23.56	39.77	55.42	4.63	0.74	47.24	72.22	127.20
Mar-23	27.15	36.77	55.44	34.50	12.78	0.73	60.28	58.90	105.55
Minimum	10.73	11.31	20.93	34.50	2.96	0.25	26.11	31.84	67.16
Maximum	27.15	40.63	55.44	65.07	28.10	0.90	60.28	126.74	282.58
Average	18.28	25.02	31.77	50.69	10.92	0.62	41.77	78.14	148.66

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## 2. Continuous Ambient Air Quality Monitoring Station at Ballabgarh

Monitoring Location : Nathu Colony, Ballabgarh - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO2	NOx	NH3	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	15.34	18.99	26.32	13.61	29.24	1.65	6.03	73.24	216.80
May-22	6.94	3.37	7.22	9.90	9.77	1.07	10.01	58.18	124.61
Jun-22	7.62	17.63	22.91	21.01	7.88	0.95	29.80	63.33	145.40
Jul-22	7.52	18.33	22.70	52.52	6.15	0.89	13.29	23.39	55.90
Aug-22	14.89	15.16	31.65	16.34	4.22	0.98	10.97	22.46	75.53
Sep-22	12.16	13.31	22.56	12.75	3.38	1.09	29.74	30.79	101.19
Oct-22	9.27	11.56	7.49	21.09	4.94	1.75	18.17	53.70	114.57
Nov-22	6.58	4.98	5.08	6.51	4.60	4.60	8.23	124.04	260.55
Dec-22	6.93	5.00	5.08	6.98	4.07	4.59	6.50	115.51	211.98
Jan-23	6.45	5.10	5.28	6.18	4.14	4.29	4.73	77.29	157.02
Feb-23	6.01	4.98	5.17	6.05	6.75	1.60	5.14	56.72	123.58
Mar-23	6.01	4.94	5.92	6.03	8.26	1.45	8.93	45.99	105.14
Minimum	6.01	3.37	5.08	6.03	3.38	0.89	4.73	22.46	55.90
Maximum	15.34	18.99	31.65	52.52	29.24	4.60	29.80	124.04	260.55
Average	8.81	10.28	13.95	14.91	7.78	2.08	12.63	62.05	141.02

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## 3. Continuous Ambient Air Quality Monitoring station at Bhiwani

Monitoring Location : H.B. Colony, Bhiwani - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO2	NOx	NH3	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	3.74	16.11	11.38	25.51	15.06	0.73	63.50	104.63	207.96
May-22	13.78	42.73	33.28	29.04	10.95	0.56	38.86	89.72	181.22
Jun-22	6.57	16.56	13.89	25.51	11.32	0.51	55.10	81.12	156.69
Jul-22	6.54	9.47	7.39	18.77	11.92	0.46	58.12	32.86	58.93
Aug-22	5.35	12.45	6.12	17.58	15.06	0.44	63.72	30.34	59.19
Sep-22	4.54	13.21	5.90	14.47	15.38	0.47	59.09	39.39	59.11
Oct-22	4.13	23.19	12.02	15.07	12.22	0.75	37.19	76.30	112.86
Nov-22	3.51	30.79	15.72	18.58	11.52	1.13	26.41	115.64	150.69
Dec-22	10.10	27.07	17.69	23.78	12.36	1.46	39.84	86.10	107.96
Jan-23	7.07	23.87	13.46	19.90	7.73	1.45	38.65	79.65	152.66
Feb-23	7.01	22.82	12.93	11.41	11.10	0.92	41.12	61.73	134.54
Mar-23	7.07	19.83	11.47	10.48	9.63	0.76	36.68	62.90	128.44
Minimum	3.51	9.47	5.90	10.48	7.73	0.44	26.41	30.34	58.93
Maximum	13.78	42.73	33.28	29.04	15.38	1.46	63.72	115.64	207.96
Average	6.62	21.51	13.44	19.18	12.02	0.80	46.52	71.70	125.85

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## 4. Continuous Ambient Air Quality Monitoring Station at Charkhi Dadri

Monitoring Location : Mini Secretariat, Charkhi Dadri - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO2	NOx	NH3	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	13.77	37.80	28.21	69.69	6.08	0.66	15.35	118.02	243.71
May-22	8.51	21.37	16.17	29.69	8.56	0.68	15.39	102.25	234.93
Jun-22	8.06	12.19	10.27	21.12	9.79	0.54	15.37	63.56	181.49
Jul-22	5.55	11.25	11.57	15.68	8.34	0.42	15.35	71.23	77.45
Aug-22	7.50	8.23	10.61	16.57	8.36	0.46	15.35	31.71	73.09
Sep-22	5.64	10.04	7.17	17.41	8.36	0.52	15.35	39.85	82.34
Oct-22	8.11	11.36	10.21	20.50	12.99	0.78	15.30	87.76	155.77
Nov-22	8.04	17.64	12.74	24.03	6.79	1.06	15.36	113.86	204.06
Dec-22	10.95	24.96	19.49	29.93	5.61	1.12	15.37	100.06	183.55
Jan-23	10.96	21.29	16.96	33.88	6.61	0.93	15.41	95.44	169.56
Feb-23	6.69	27.90	18.35	40.67	7.81	0.81	15.35	84.12	171.60
Mar-23	6.61	22.19	14.41	40.84	6.96	0.71	15.37	74.38	119.70
Minimum	5.55	8.23	7.17	15.68	5.61	0.42	15.30	31.71	73.09
Maximum	13.77	37.80	28.21	69.69	12.99	1.12	15.41	118.02	243.71
Average	8.37	18.85	14.68	30.00	8.02	0.72	15.36	81.85	158.10

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## 5. Continuous Ambient Air Quality Monitoring Station at Dharuhera

Monitoring Location : Municipal Corporation Office, Dharuhera - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	12.00	21.00	30.01	10.01	10.58	0.67	41.52	97.08	324.20
May-22	12.00	21.01	30.00	10.00	5.48	0.61	38.27	88.80	302.86
Jun-22	12.00	21.00	30.01	10.01	8.14	0.48	25.56	67.85	221.00
Jul-22	12.01	21.02	30.01	10.01	4.26	0.41	15.55	47.82	92.77
Aug-22	12.01	21.00	29.99	9.99	2.30	0.37	15.50	42.74	103.86
Sep-22	4.92	17.80	19.57	35.62	7.42	0.98	24.76	30.59	59.57
Oct-22	12.00	21.00	29.99	10.00	9.52	0.83	23.90	113.74	249.86
Nov-22	12.00	21.01	29.99	9.99	10.95	0.99	26.66	156.52	293.85
Dec-22	13.44	21.47	30.23	12.06	6.67	1.00	21.71	129.02	238.81
Jan-23	27.68	26.95	32.53	33.62	2.52	1.11	24.09	148.55	245.68
Feb-23	27.62	26.92	32.42	33.47	3.36	0.83	21.27	117.25	243.48
Mar-23	26.70	26.45	32.76	32.37	6.13	0.69	22.66	77.06	172.36
Minimum	4.92	17.80	19.57	9.99	2.30	0.37	15.50	30.59	59.57
Maximum	27.68	26.95	32.76	35.62	10.95	1.11	41.52	156.52	324.20
Average	15.37	22.22	29.79	18.10	6.45	0.75	25.12	93.09	212.36

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## 6. Continuous Ambient Air Quality Monitoring Report at Jind

Monitoring Location : Police Lines, Jind - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	5.32	10.77	19.50	19.85	22.29	0.75	41.04	87.59	209.35
May-22	10.62	14.39	21.88	21.12	19.83	0.97	58.65	96.44	203.28
Jun-22	3.55	7.54	16.92	17.94	7.56	1.17	30.57	66.13	156.65
Jul-22	3.54	7.77	17.48	18.53	8.72	0.88	12.89	33.84	47.24
Aug-22	3.56	7.73	17.46	18.68	15.21	0.87	15.11	32.81	50.23
Sep-22	3.53	7.76	17.32	18.50	10.88	0.99	11.97	36.51	61.84
Oct-22	7.29	19.17	15.90	31.79	20.99	1.29	9.57	86.76	129.12
Nov-22	5.98	18.44	13.92	20.13	18.27	1.18	10.92	156.86	199.76
Dec-22	10.57	37.70	26.74	29.16	15.72	1.38	8.26	110.23	136.23
Jan-23	6.26	37.76	26.77	29.16	9.20	1.22	7.06	82.93	102.14
Feb-23	2.58	37.31	26.49	28.97	16.98	1.27	12.62	63.47	84.65
Mar-23	2.74	38.00	27.04	29.24	14.22	1.11	12.89	39.09	56.88
Minimum	2.58	7.54	13.92	17.94	7.56	0.75	7.06	32.81	47.24
Maximum	10.62	38.00	27.04	31.79	22.29	1.38	58.65	156.86	209.35
Average	5.46	20.36	20.62	23.59	14.99	1.09	19.29	74.39	119.78

057.55

## 7. Continuous Ambient Air Quality Monitoring Station at Karnal

Monitoring Location : Sector-12, Karnal - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	25.50	33.21	37.78	33.62	19.11	0.68	20.67	64.95	147.74
May-22	4.71	20.72	14.53	22.53	15.13	0.65	32.89	95.31	206.48
Jun-22	3.28	5.02	3.00	32.16	9.83	0.64	33.04	79.17	191.46
Jul-22	3.26	13.89	2.89	13.00	17.37	0.65	26.05	57.69	132.72
Aug-22	3.26	13.89	2.89	13.00	17.16	0.65	26.05	57.69	132.72
Sep-22	5.08	3.88	16.03	34.38	21.93	0.48	11.11	25.69	92.77
Oct-22	5.04	6.19	7.86	14.53	11.12	0.93	19.29	62.60	127.09
Nov-22	5.85	10.94	13.52	40.37	13.18	1.15	37.78	90.62	154.61
Dec-22	7.00	5.00	15.00	34.00	16.78	0.88	40.05	90.53	126.48
Jan-23	7.45	5.84	19.50	37.23	11.89	0.81	40.08	70.06	100.20
Feb-23	8.62	7.99	31.05	45.58	6.57	0.69	45.68	52.61	94.50
Mar-23	8.64	7.99	31.01	45.57	6.78	0.54	18.02	24.81	66.80
Minimum	3.26	3.88	2.89	13.00	6.57	0.48	11.11	24.81	66.80
Maximum	25.50	33.21	37.78	45.58	21.93	1.15	45.68	95.31	206.48
Average	7.31	11.21	16.25	30.50	13.90	0.73	29.23	64.31	131.13



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## 8. Continuous Ambient Air Quality Monitoring Station at Manesar

Monitoring Location : Sector-2 IMT, Manesar - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	10.06	5.07	7.02	12.70	17.81	0.66	64.79	127.85	205.62
May-22	22.03	14.07	23.23	25.20	9.46	0.49	42.67	109.39	205.70
Jun-22	22.73	14.52	24.44	21.88	13.40	0.38	13.68	77.17	151.56
Jul-22	32.31	11.92	30.15	24.85	9.90	0.40	29.61	38.58	70.35
Aug-22	21.13	7.71	19.70	16.63	7.62	0.34	12.00	39.73	75.04
Sep-22	18.80	4.48	8.15	8.42	8.22	0.59	14.34	47.49	91.76
Oct-22	50.97	37.17	48.36	74.14	8.41	0.76	14.15	100.72	180.79
Nov-22	87.09	64.34	98.29	158.16	9.45	0.89	11.70	112.60	222.82
Dec-22	69.72	49.56	77.67	143.61	7.82	0.91	13.41	111.85	206.00
Jan-23	68.50	33.32	67.95	111.33	4.25	0.87	16.37	130.23	181.40
Feb-23	49.47	37.88	56.51	106.37	4.44	0.62	13.07	74.88	152.87
Mar-23	57.34	29.14	63.08	169.32	8.70	0.54	23.83	62.85	119.93
Minimum	10.06	4.48	7.02	8.42	4.25	0.34	11.70	38.58	70.35
Maximum	87.09	64.34	98.29	169.32	17.81	0.91	64.79	130.23	222.82
Average	42.51	25.77	43.71	72.72	9.12	0.62	22.47	86.11	155.32

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## 9. Continuous Ambient Air Quality Monitoring Station at Mewat

Monitoring Location : General Hospital, Mandikhera ( Mewat) - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO2	NOx	NH3	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	20.33	10.23	17.18	55.42	10.03	0.82	19.98	37.30	96.11
May-22	20.32	10.23	17.25	55.35	8.34	0.68	19.93	42.52	122.87
Jun-22	20.33	10.25	17.17	55.29	13.71	0.94	19.96	24.37	82.24
Jul-22	20.33	10.27	17.21	55.52	11.88	1.52	19.98	20.76	30.76
Aug-22	10.00	15.02	19.99	47.12	15.87	0.25	30.05	30.89	65.33
Sep-22	9.92	14.88	20.03	46.96	19.36	0.51	21.15	25.33	57.26
Oct-22	11.54	11.29	17.54	49.71	11.13	11.79	20.10	31.13	102.34
Nov-22	13.24	13.03	18.21	52.12	9.77	0.76	20.02	26.98	228.87
Dec-22	13.20	13.04	18.16	52.16	5.88	0.91	19.97	19.47	120.45
Jan-23	13.25	12.98	18.24	52.08	5.73	1.07	20.04	25.15	135.61
Feb-23	13.18	12.96	18.19	52.12	13.95	0.67	19.90	16.59	83.10
Mar-23	13.23	13.06	18.22	52.13	20.01	0.53	20.00	22.33	71.55
Minimum	9.92	10.23	17.17	46.96	5.73	0.25	19.90	16.59	30.76
Maximum	20.33	15.02	20.03	55.52	20.01	11.79	30.05	42.52	228.87
Average	14.91	12.27	18.12	52.16	12.14	1.70	20.92	26.90	99.71

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## 10. Continuous Ambient Air Quality Monitoring Station at Natrnaul

Monitoring Location : Shastri Nagar, Narnaul - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	14.36	36.78	26.52	18.87	4.47	0.35	9.14	72.99	159.12
May-22	8.66	30.35	22.95	15.42	4.57	0.26	10.91	68.15	171.33
Jun-22	4.26	22.59	18.72	13.42	4.35	0.18	8.55	33.14	110.22
Jul-22	4.30	22.65	18.71	36.27	4.09	0.14	7.27	26.59	43.91
Aug-22	4.28	30.35	18.55	36.04	4.04	0.09	6.93	26.20	41.90
Sep-22	4.29	22.67	18.67	36.24	4.05	0.16	8.90	29.31	44.11
Oct-22	10.23	19.04	21.89	26.90	3.27	0.38	5.97	64.57	120.05
Nov-22	7.39	14.98	20.09	23.92	4.02	0.49	5.34	79.57	163.29
Dec-22	10.23	19.04	21.89	26.90	3.27	0.38	5.97	64.57	120.05
Jan-23	7.40	15.01	19.96	24.02	6.49	0.51	*	70.50	121.19
Feb-23	25.66	35.19	36.32	113.66	4.73	1.02	28.71	125.00	231.48
Mar-23	7.39	14.95	20.04	23.93	4.42	0.34	17.15	51.08	101.26
Minimum	4.26	14.95	18.55	13.42	3.27	0.09	5.34	26.20	41.90
Maximum	25.66	36.78	36.32	113.66	6.49	1.02	28.71	125.00	231.48
Average	9.04	23.63	22.03	32.96	4.31	0.36	10.44	59.30	118.99

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## 11. Continuous Ambient Air Quality Monitoring Station at Palwal

Monitoring Location : Shyam Nagar, Palwal - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO2	NOx	NH3	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	19.16	31.17	29.76	8.94	8.78	2.53	19.12	41.35	194.24
May-22	10.08	19.43	16.88	6.90	0.88	4.75	30.25	47.63	167.07
Jun-22	8.86	17.85	15.27	9.23	0.54	2.77	25.95	37.94	141.70
Jul-22	7.99	9.60	11.29	17.15	0.44	6.22	38.47	28.31	68.77
Aug-22	7.67	8.81	10.59	15.80	0.36	2.11	31.43	27.30	71.69
Sep-22	7.23	9.74	13.21	18.25	0.51	2.75	25.58	29.37	85.77
Oct-22	8.93	23.33	29.37	36.87	0.79	2.73	6.38	36.05	124.32
Nov-22	6.88	5.91	12.77	4.14	0.51	10.56	10.03	29.86	83.51
Dec-22	9.01	19.03	25.04	34.90	0.75	7.60	10.02	51.09	111.76
Jan-23	9.00	18.99	25.04	35.00	0.53	7.93	18.89	42.09	79.62
Feb-23	9.00	19.00	25.02	34.99	0.45	5.31	16.40	41.96	73.64
Mar-23	9.00	19.00	25.00	34.98	0.45	6.91	31.41	33.53	65.33
Minimum	6.88	5.91	10.59	4.14	0.36	2.11	6.38	27.30	65.33
Maximum	19.16	31.17	29.76	36.87	8.78	10.56	38.47	51.09	194.24
Average	9.40	16.82	19.94	21.43	1.25	5.18	21.99	37.21	105.62

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## 12. Continuous Ambient Air Quality Monitoring Station at Panipat

Monitoring Location : Sector-18, Panipat - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO2	NOx	NH3	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	13.76	13.97	23.69	10.65	38.70	0.72	43.68	95.25	251.93
May-22	15.38	29.09	14.30	12.88	50.04	0.87	39.26	50.88	171.85
Jun-22	23.95	4.14	27.54	9.82	24.91	1.42	34.38	52.19	194.65
Jul-22	23.83	4.46	28.01	10.01	10.06	0.52	32.05	29.74	82.41
Aug-22	24.06	4.00	27.98	10.01	27.95	2.13	31.97	25.33	79.72
Sep-22	24.05	4.01	28.04	10.01	24.03	0.47	32.08	25.17	78.57
Oct-22	23.68	3.99	27.50	9.98	26.31	0.83	32.04	56.93	196.02
Nov-22	23.99	4.01	28.00	9.95	15.41	0.95	32.05	55.63	252.62
Dec-22	24.01	4.00	28.01	9.98	10.00	2.75	32.00	31.51	161.01
Jan-23	25.96	4.59	30.03	11.41	14.56	1.83	34.31	42.55	290.14
Feb-23	23.2	3.83	25.95	12.47	9.97	0.7	31.97	16.17	165.14
Mar-23	23.92	3.96	27.36	10.11	9.89	0.47	31.69	18.17	110.13
Minimum	13.76	3.83	14.30	9.82	9.89	0.47	31.69	16.17	78.57
Maximum	25.96	29.09	30.03	12.88	50.04	2.75	43.68	95.25	290.14
Average	22.48	7.00	26.37	10.61	21.82	1.14	33.96	41.63	169.52

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## 13. Continuous Ambient Air Quality Monitoring Station at Rohtak

Monitoring Location : MD University, Rohtak - HSPCB							
Monitoring Conducted By: Environment SA India Pvt. Ltd							
Months	PM2.5	CO	NO	NO2	NOX	O3	SO2
	µg/m3	mg/m3	µg/m3	µg/m3	ppb	µg/m3	µg/m3
Apr-22	108.41	0.24	17.45	62.89	44.19	37.71	20.35
May-22	121.12	0.42	13.17	43.24	29.48	47.68	31.76
Jun-22	90.42	0.36	11.42	50.21	32.29	42.65	15.79
Jul-22	34.46	0.30	12.57	37.24	26.43	29.28	14.37
Aug-22	25.39	0.25	10.28	35.69	24.10	29.20	11.16
Sep-22	31.77	0.32	22.91	36.54	34.88	28.95	10.18
Oct-22	65.75	0.55	23.78	34.44	36.29	33.17	9.90
Nov-22	111.97	0.63	27.39	43.56	43.40	39.16	14.54
Dec-22	90.52	0.57	24.49	40.83	40.37	39.08	10.10
Jan-23	83.04	0.49	16.46	42.70	33.45	39.16	6.61
Feb-23	64.14	0.55	15.59	32.23	27.07	39.03	9.23
Mar-23	45.66	0.47	7.89	25.67	18.13	39.06	13.45
Minimum	25.39	0.24	7.89	25.67	18.13	28.95	6.61
Maximum	121.12	0.63	27.39	62.89	44.19	47.68	31.76
Average	72.72	0.43	16.95	40.44	32.51	37.01	13.96

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## 14. Continuous Ambient Air Quality Monitoring Station at Sonipat

Monitoring Location : Murthal, Sonipat - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May-22	5.22	17.30	14.51	38.33	6.47	0.88	25.15	53.43	272.12
Jun-22	5.26	17.41	14.68	38.63	*	*	24.96	50.22	209.95
Jul-22	5.26	17.39	14.64	38.55	15.41	*	24.98	22.49	94.61
Aug-22	5.24	17.33	14.57	38.36	15.61	0.28	25.09	22.14	94.24
Sep-22	5.25	17.35	14.60	38.53	15.62	0.41	27.49	21.96	92.36
Oct-22	4.93	19.78	15.98	42.84	15.63	0.63	25.30	64.68	178.30
Nov-22	6.01	24.01	16.01	45.01	15.64	0.85	24.77	105.91	260.82
Dec-22	6.01	24.00	16.00	45.00	15.62	0.77	71.79	59.30	226.91
Jan-23	25.96	4.59	30.03	11.41	14.56	1.83	34.31	42.55	290.14
Feb-23	1.40	30.69	16.97	39.02	21.25	0.74	63.88	53.12	125.52
Mar-23	6.65	31.59	17.29	51.53	17.19	0.50	24.67	35.52	109.82
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum	25.96	31.59	30.03	51.53	21.25	1.83	71.79	105.91	290.14
Average	6.43	18.45	15.44	35.60	13.91	0.69	31.03	44.28	162.90

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## 15. Continuous Ambient Air Quality Monitoring Station at Faridabad

Monitoring Location : Sector 11, Faridabad - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	10.03	14.99	29.95	10.05	13.84	1.18	5.22	172.26	236.57
May-22	9.82	15.19	29.46	10.01	4.94	2.27	12.90	127.68	199.04
Jun-22	9.60	14.50	28.92	9.59	6.71	2.37	5.02	130.66	152.37
Jul-22	11.09	16.39	31.15	11.76	4.22	0.93	10.08	87.63	80.39
Aug-22	19.44	26.99	43.68	24.31	1.88	0.80	10.41	52.58	102.38
Sep-22	19.98	24.98	44.97	25.01	3.94	0.57	4.51	38.76	124.62
Oct-22	19.57	25.30	43.80	24.66	21.91	1.20	15.68	118.76	230.55
Nov-22	20.00	25.02	45.02	24.98	10.17	2.35	4.53	184.59	297.82
Dec-22	20.02	25.00	45.00	24.99	18.07	2.41	3.58	153.40	250.52
Jan-23	22.03	24.99	45.00	25.01	19.02	1.59	3.62	144.08	277.22
Feb-23	20.00	24.99	45.01	25.01	20.89	1.18	6.86	103.53	218.74
Mar-23	20.01	25.01	45.02	24.99	14.28	0.99	13.99	82.03	184.96
Minimum	9.60	14.50	28.92	9.59	1.88	0.57	3.58	38.76	80.39
Maximum	22.03	26.99	45.02	25.01	21.91	2.41	15.68	184.59	297.82
Average	16.80	21.95	39.75	20.03	11.66	1.49	8.03	116.33	196.26



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## 16. Continuous Ambient Air Quality Monitoring Station at Faridabad

Monitoring Location : Sector 30, Faridabad - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	25.02	29.98	40.04	34.99	39.89	1.45	15.25	63.60	312.82
May-22	23.31	29.78	36.63	28.22	16.81	0.72	19.88	59.56	276.71
Jun-22	16.58	14.73	28.39	17.25	4.01	0.94	20.69	57.88	234.66
Jul-22	15.01	10.00	30.01	20.00	1.43	0.84	3.76	30.99	94.23
Aug-22	14.90	13.38	31.04	18.09	3.27	0.95	10.24	34.06	79.81
Sep-22	28.02	11.90	39.07	17.12	6.22	0.63	10.62	33.84	107.67
Oct-22	60.16	29.20	84.21	30.74	38.06	1.03	20.24	84.82	152.22
Nov-22	55.07	26.13	81.32	28.68	15.51	1.81	21.74	95.85	196.70
Dec-22	49.65	24.25	73.88	31.21	33.54	1.89	20.18	99.83	273.81
Jan-23	28.18	25.00	53.06	30.95	37.72	1.68	17.23	159.60	350.39
Feb-23	20.02	24.99	44.99	35.25	22.58	1.27	22.63	98.67	179.90
Mar-23	19.99	25.00	44.98	35.25	22.23	1.43	16.50	77.53	148.31
Minimum	14.90	10.00	28.39	17.12	1.43	0.63	3.76	30.99	79.81
Maximum	60.16	29.98	84.21	35.25	39.89	1.89	22.63	159.60	350.39
Average	29.66	22.03	48.97	27.31	20.11	1.22	16.58	74.69	200.60

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## 17. Continuous Ambient Air Quality Monitoring Station at Faridabad

Monitoring Location : New Industrial Town, Faridabad - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	2.42	9.52	7.85	3.72	11.59	0.28	6.16	46.99	174.71
May-22	9.58	18.81	21.24	8.22	23.91	0.63	11.46	74.55	189.42
Jun-22	6.87	10.70	12.20	5.12	24.57	0.51	9.20	56.99	232.89
Jul-22	5.22	9.97	12.59	5.66	66.82	0.55	8.20	44.95	125.10
Aug-22	5.66	13.35	14.26	4.94	25.31	0.50	10.67	27.17	102.56
Sep-22	10.48	12.81	16.78	5.46	23.52	0.64	11.55	38.25	122.13
Oct-22	18.44	18.76	28.02	7.75	26.35	1.61	10.25	86.77	274.24
Nov-22	21.80	21.90	31.05	21.79	6.52	1.20	13.48	127.48	362.87
Dec-22	23.83	29.27	37.28	26.07	5.57	1.19	17.05	131.68	366.96
Jan-23	35.66	19.41	46.19	19.71	7.05	1.17	17.16	117.59	365.30
Feb-23	22.46	20.41	29.65	26.83	5.90	0.84	19.73	83.92	257.49
Mar-23	21.93	14.27	23.89	21.04	3.28	0.54	20.36	37.46	106.93
Minimum	2.42	9.52	7.85	3.72	3.28	0.28	6.16	27.17	102.56
Maximum	35.66	29.27	46.19	26.83	66.82	1.61	20.36	131.68	366.96
Average	15.36	16.60	23.42	13.03	19.20	0.81	12.94	72.82	223.38

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## 18. Continuous Ambient Air Quality Monitoring Station at Gurugram

Monitoring Location : Sector-51, Gurugram - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO2	NOx	NH3	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	22.06	38.07	29.73	61.50	13.66	1.17	23.05	125.14	322.59
May-22	5.77	26.61	18.31	59.74	12.80	0.68	36.62	84.59	245.04
Jun-22	9.42	20.92	15.64	45.23	2.80	0.53	26.52	79.34	245.64
Jul-22	8.38	14.28	12.58	45.22	3.70	0.50	30.04	52.65	90.06
Aug-22	7.34	7.93	8.59	55.38	6.74	0.43	20.72	40.89	92.95
Sep-22	10.65	4.85	10.71	70.42	6.19	0.60	29.46	67.55	128.05
Oct-22	26.00	16.75	25.75	71.41	6.22	1.22	30.19	141.62	272.90
Nov-22	50.14	27.97	50.78	119.96	4.61	1.69	38.72	167.76	310.66
Dec-22	41.42	36.61	50.87	131.45	7.02	1.57	33.27	146.37	271.04
Jan-23	30.70	33.15	42.41	107.06	4.74	1.37	25.19	145.26	268.98
Feb-23	24.54	35.19	35.64	113.65	4.73	1.02	28.71	125.00	231.48
Mar-23	17.68	30.22	29.26	97.61	3.88	0.77	29.14	92.18	170.70
Minimum	5.77	4.85	8.59	45.22	2.80	0.43	20.72	40.89	90.06
Maximum	50.14	38.07	50.87	131.45	13.66	1.69	38.72	167.76	322.59
Average	21.17	24.38	27.52	81.55	6.42	0.96	29.30	105.69	220.84

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## 19. Continuous Ambient Air Quality Monitoring Station at Gurugram

Monitoring Location : Vikas Sadan - HSPCB							
Monitoring Conducted By: Environment SA India Pvt. Ltd							
Months	PM2.5	CO	NO	NO2	NOX	O3	SO2
	µg/m3	mg/m3	µg/m3	µg/m3	ppb	µg/m3	µg/m3
Apr-22	113.23	1.19	6.25	11.71	18.78	22.85	5.44
May-22	97.07	1.16	10.11	10.35	17.52	38.35	9.81
Jun-22	109.06	1.11	13.22	11.74	18.43	40.45	11.86
Jul-22	*	*	*	*	*	*	*
Aug-22	*	*	*	*	*	*	*
Sep-22	*	*	*	*	*	*	*
Oct-22	96.45	0.75	21.72	19.58	31.23	23.89	13.11
Nov-22	161.90	1.05	23.64	16.29	45.89	26.60	33.00
Dec-22	137.31	1.01	23.48	23.02	50.96	35.34	12.33
Jan-23	129.68	0.99	16.33	26.93	41.35	55.40	17.61
Feb-23	111.26	1.34	19.77	32.28	48.95	68.24	21.86
Mar-23	53.83	1.05	24.80	40.95	56.13	58.26	33.47
Minimum	53.83	0.75	6.25	10.35	17.52	22.85	5.44
Maximum	161.90	1.34	24.80	40.95	56.13	68.24	33.47
Average	112.20	1.07	17.70	21.43	36.58	41.04	17.61

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## 20. Continuous Ambient Air Quality Monitoring Station at Gurugram

Monitoring Location : Teri Gram, Gurugram – HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO2	NOx	NH3	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	9.97	19.43	32.10	51.91	5.88	0.75	27.41	115.34	286.86
May-22	7.70	14.46	22.12	37.53	5.25	0.59	17.64	86.52	258.07
Jun-22	5.38	14.22	20.21	43.38	4.67	0.51	18.17	76.75	235.81
Jul-22	5.93	16.05	15.69	40.44	7.89	0.46	10.54	31.66	149.69
Aug-22	3.99	29.36	20.84	49.78	3.30	0.44	18.99	28.96	118.09
Sep-22	3.58	37.55	23.37	54.41	6.88	0.52	49.09	46.28	143.13
Oct-22	6.72	33.62	22.99	59.57	10.83	0.73	22.04	104.77	206.92
Nov-22	37.05	31.78	46.73	87.96	5.71	0.98	19.19	149.92	289.74
Dec-22	41.36	23.39	45.40	76.03	6.06	1.03	9.19	146.35	257.99
Jan-23	19.12	15.14	23.42	43.56	9.22	0.97	9.95	139.00	270.70
Feb-23	9.69	9.09	12.06	73.40	8.59	0.72	17.07	123.53	257.10
Mar-23	9.89	9.57	12.93	60.32	7.37	0.56	25.99	71.32	156.80
<b>Minimum</b>	<b>3.58</b>	<b>9.09</b>	<b>12.06</b>	<b>37.53</b>	<b>3.30</b>	<b>0.44</b>	<b>9.19</b>	<b>28.96</b>	<b>118.09</b>
<b>Maximum</b>	<b>41.36</b>	<b>37.55</b>	<b>46.73</b>	<b>87.96</b>	<b>10.83</b>	<b>1.03</b>	<b>49.09</b>	<b>149.92</b>	<b>289.74</b>
<b>Average</b>	<b>13.36</b>	<b>21.14</b>	<b>24.82</b>	<b>56.52</b>	<b>6.81</b>	<b>0.69</b>	<b>20.44</b>	<b>93.37</b>	<b>219.24</b>

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## 21. Continuous Ambient Air Quality Monitoring Station at Kaithal

Monitoring Location : Rishi Nagar, Kaithal - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO2	NOx	NH3	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	11.63	44.34	35.25	27.24	17.26	0.65	15.47	82.40	224.28
May-22	1.03	2.42	2.98	10.28	11.19	0.61	44.14	72.28	186.84
Jun-22	1.02	2.38	2.98	10.45	9.47	0.41	25.93	62.59	179.92
Jul-22	1.00	2.41	2.99	10.46	15.03	0.40	51.78	32.61	50.89
Aug-22	1.18	2.41	3.02	10.52	25.74	0.32	30.29	37.52	61.36
Sep-22	1.03	2.40	3.01	10.11	14.58	0.33	25.37	32.28	70.91
Oct-22	1.82	3.34	4.03	10.79	11.20	0.73	28.53	76.17	147.00
Nov-22	6.76	12.34	11.86	19.63	16.21	1.71	54.25	125.41	215.65
Dec-22	7.03	10.44	11.97	19.80	15.13	1.04	33.98	91.01	154.03
Jan-23	7.02	10.39	12.01	20.17	15.59	1.08	20.77	81.68	132.93
Feb-23	6.98	10.33	11.95	19.80	19.42	0.70	24.81	68.19	134.23
Mar-23	6.97	10.43	12.06	19.92	18.89	0.56	36.24	44.82	90.95
Minimum	1.00	2.38	2.98	10.11	9.47	0.32	15.47	32.28	50.89
Maximum	11.63	44.34	35.25	27.24	25.74	1.71	54.25	125.41	224.28
Average	4.46	9.47	9.51	15.76	15.81	0.71	32.63	67.25	137.42

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## 22. Continuous Ambient Air Quality Monitoring Station at Kurukshetra

Monitoring Location : Sector-7, Kurukshetra – HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	3.52	43.04	25.14	29.28	16.89	0.51	88.39	96.93	219.90
May-22	1.64	20.47	13.94	30.81	11.26	0.52	97.04	87.68	161.72
Jun-22	1.75	20.02	13.63	28.41	9.35	0.40	65.95	80.21	158.77
Jul-22	1.95	13.72	8.92	18.67	4.73	0.32	42.69	31.74	50.68
Aug-22	2.22	15.03	9.68	8.74	5.70	0.35	25.70	31.74	58.00
Sep-22	4.27	20.79	13.99	15.52	8.34	0.39	34.76	37.81	65.90
Oct-22	13.90	23.99	25.43	16.50	11.05	0.73	34.90	81.54	130.18
Nov-22	17.47	53.03	41.68	33.82	14.72	0.98	44.99	111.25	178.00
Dec-22	8.10	47.36	32.46	50.84	12.41	1.04	37.14	91.54	146.47
Jan-23	5.25	22.69	17.27	20.87	11.19	0.81	28.43	82.07	131.32
Feb-23	6.84	40.04	25.65	15.75	18.34	0.71	55.46	72.61	116.17
Mar-23	3.64	23.81	17.31	22.93	23.91	0.46	54.38	46.81	75.13
Minimum	1.64	13.72	8.92	8.74	4.73	0.32	25.70	31.74	50.68
Maximum	17.47	53.03	41.68	50.84	23.91	1.04	97.04	111.25	219.90
Average	5.88	28.67	20.43	24.34	12.32	0.60	50.82	71.00	124.35

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## 23. Continuous Ambient Air Quality Monitoring Station at Sirsa

Monitoring Location : F-Block, Sirsa – HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO2	NOx	NH3	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	6.22	31.47	24.95	48.36	16.35	0.52	76.11	53.72	189.00
May-22	6.38	28.33	23.95	45.02	18.37	0.53	72.44	66.47	223.41
Jun-22	6.32	30.00	24.49	45.22	20.69	0.39	67.87	60.32	202.01
Jul-22	7.12	29.59	25.57	42.86	20.16	0.33	75.78	22.14	45.66
Aug-22	4.31	25.78	19.18	33.10	20.86	0.28	60.56	25.24	55.79
Sep-22	1.30	12.43	7.51	42.26	20.18	0.37	63.82	26.15	78.44
Oct-22	3.55	21.43	14.05	41.17	20.27	0.58	75.76	43.17	126.24
Nov-22	7.12	29.68	25.47	42.08	21.28	1.08	69.06	108.62	198.38
Dec-22	6.06	30.64	24.32	43.16	20.16	1.00	63.81	75.34	133.93
Jan-23	1.33	32.24	17.75	42.78	20.68	0.91	62.80	63.98	114.58
Feb-23	1.41	30.6	16.93	38.89	20.94	0.74	63.4	53.08	125.53
Mar-23	1.49	18.59	14.48	81.35	21.06	0.68	56.13	32.02	81.38
Minimum	1.30	12.43	7.51	33.10	16.35	0.28	56.13	22.14	45.66
Maximum	7.12	32.24	25.57	81.35	21.28	1.08	76.11	108.62	223.41
Average	4.38	26.73	19.89	45.52	20.08	0.62	67.30	52.52	131.20



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## 24. Continuous Ambient Air Quality Monitoring Station at Panchkula

Monitoring Location : Sector-6, Panchkula - HSPCB							
Monitoring Conducted By: Environment SA India Pvt. Ltd							
Months	PM2.5	CO	NO	NO2	NOX	O3	SO2
	µg/m3	mg/m3	µg/m3	µg/m3	ppb	µg/m3	µg/m3
Apr-22	100.23	0.30	9.29	26.03	23.92	17.91	45.59
May-22	84.40	0.46	8.47	24.57	22.77	12.86	5.31
Jun-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jul-22	20.04	0.99	7.67	23.62	20.99	13.39	5.96
Aug-22	26.05	0.38	7.66	23.51	21	14.39	6.24
Sep-22	26.36	0.6	7.64	23.5	21.04	15.56	6.54
Oct-22	41.97	0.63	7.26	23.48	20.28	19.03	6.88
Nov-22	62.97	0.45	6.71	21.86	19.91	22.42	7.1
Dec-22	79.25	0.39	7.96	23.32	21.67	24.54	7.03
Jan-23	77.13	0.88	8.46	22.04	20.23	22.26	7.22
Feb-23	47.65	1.38	8.62	21.63	19.78	20.82	9.53
Mar-23	41.06	1.65	8.26	20.90	20.12	21.06	7.47
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum	100.23	1.65	9.29	26.03	23.92	24.54	45.59
Average	50.59	0.68	7.33	21.20	19.31	17.02	9.57

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## 25. Continuous Ambient Air Quality Monitoring Station at Yamuna Nagar

Monitoring Location : Gobind Pura, Yamuna Nagar - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	4.51	31.33	19.72	43.77	18.28	0.80	51.30	95.37	250.95
May-22	4.92	21.85	15.27	23.58	14.85	0.68	34.27	95.24	212.26
Jun-22	3.33	5.26	2.93	32.87	9.80	0.66	33.89	79.59	201.88
Jul-22	3.40	14.47	3.01	13.81	19.88	0.67	26.84	56.53	130.01
Aug-22	2.34	3.77	4.50	30.00	8.57	0.50	29.30	49.39	107.22
Sep-22	3.67	2.10	5.13	14.67	8.03	0.52	26.32	62.37	116.33
Oct-22	7.16	3.91	8.26	14.24	8.18	0.78	32.87	53.97	146.60
Nov-22	2.96	4.19	4.67	16.01	8.00	0.96	31.14	85.31	188.20
Dec-22	4.02	6.31	5.26	16.68	15.39	1.02	16.91	98.46	192.09
Jan-23	4.72	25.25	19.94	103.31	27.79	0.83	14.53	94.39	165.07
Feb-23	3.57	5.91	5.52	22.29	40.03	0.78	21.96	76.23	165.34
Mar-23	7.14	10.00	8.67	13.44	29.68	0.56	18.35	49.94	116.69
Minimum	2.34	2.10	2.93	13.44	8.00	0.50	14.53	49.39	107.22
Maximum	7.16	31.33	19.94	103.31	40.03	1.02	51.30	98.46	250.95
Average	4.31	11.20	8.57	28.72	17.37	0.73	28.14	74.73	166.05

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## 26. Continuous Ambient Air Quality Monitoring Station at Ambala

Monitoring Location : Patti Mehar, Ambala - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	3.01	27.19	16.45	35.11	4.78	0.50	38.86	69.47	179.21
May-22	4.14	15.81	12.54	20.00	7.96	0.54	36.68	60.74	152.37
Jun-22	4.19	15.52	11.28	15.29	5.25	0.38	31.22	60.70	147.14
Jul-22	7.43	10.81	13.04	19.22	4.61	0.40	31.48	33.37	55.43
Aug-22	8.79	7.81	12.84	28.50	8.55	0.50	35.00	55.03	104.87
Sep-22	3.12	2.30	4.62	38.13	4.63	0.49	34.13	71.32	130.08
Oct-22	5.68	6.71	16.78	45.39	5.02	0.78	28.63	73.37	120.83
Nov-22	4.49	8.01	7.63	41.81	4.18	1.25	15.83	101.03	161.25
Dec-22	4.43	8.54	7.97	43.03	8.52	1.39	18.00	76.49	118.44
Jan-23	*	*	*	*	*	*	*	*	*
Feb-23	*	*	*	*	*	*	*	*	*
Mar-23	*	*	*	*	*	*	*	*	*
Minimum	3.01	2.30	4.62	15.29	4.18	0.38	15.83	33.37	55.43
Maximum	8.79	27.19	16.78	45.39	8.55	1.39	38.86	101.03	179.21
Average	5.03	11.41	11.46	31.83	5.95	0.69	29.98	66.83	129.96

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## 27. Continuous Ambient Air Quality Monitoring Station at Fatehabad

Monitoring Location : Huda Sector, Fatehabad - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO2	NOx	NH3	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	7.02	22.31	17.83	30.15	20.88	0.70	67.96	94.02	211.04
May-22	8.00	24.02	20.03	35.02	7.66	0.42	55.87	93.11	225.84
Jun-22	8.00	23.97	20.01	34.98	7.00	0.31	51.20	83.46	198.38
Jul-22	8.01	24	20.06	34.93	14.9	0.59	25.65	32.71	68.68
Aug-22	*	*	*	*	*	*	*	*	*
Sep-22	*	*	*	*	*	*	*	*	*
Oct-22	*	*	*	*	*	*	*	*	*
Nov-22	*	*	*	*	*	*	*	*	*
Dec-22	*	*	*	*	*	*	*	*	*
Jan-23	*	*	*	*	*	*	*	*	*
Feb-23	*	*	*	*	*	*	*	*	*
Mar-23	*	*	*	*	*	*	*	*	*
Minimum	7.02	22.31	17.83	30.15	7.00	0.31	25.65	32.71	68.68
Maximum	8.01	24.02	20.06	35.02	20.88	0.70	67.96	94.02	225.84
Average	7.76	23.58	19.48	33.77	12.61	0.50	50.17	75.82	175.98

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## 28. Continuous Ambient Air Quality Monitoring Station at Hisar

Monitoring Location : Urban Estate-II, Hisar - HSPCB									
Monitoring Conducted By: Environment SA India Pvt. Ltd									
Months	NO	NO2	NOx	NH3	SO <sub>2</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppb	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	2.03	47.10	24.01	93.96	6.50	0.85	42.56	91.30	238.05
May-22	2.70	39.88	21.59	79.95	7.09	0.79	34.47	96.35	237.34
Jun-22	1.43	30.60	12.41	61.19	8.03	0.41	42.36	61.61	174.08
Jul-22	0.50	23.88	7.08	47.95	5.46	0.35	40.34	35.82	68.27
Aug-22	0.57	27.45	6.95	54.83	4.74	0.33	67.32	37.10	68.68
Sep-22	0.50	34.98	4.99	70.05	6.12	0.38	59.88	42.05	80.14
Oct-22	0.59	34.58	5.27	68.54	14.28	0.68	60.02	90.82	157.65
Nov-22	*	*	*	*	*	*	*	*	*
Dec-22	*	*	*	*	*	*	*	*	*
Jan-23	*	*	*	*	*	*	*	*	*
Feb-23	*	*	*	*	*	*	*	*	*
Mar-23	*	*	*	*	*	*	*	*	*
Minimum	0.50	23.88	4.99	47.95	4.74	0.33	34.47	35.82	68.27
Maximum	2.70	47.10	24.01	93.96	14.28	0.85	67.32	96.35	238.05
Average	1.19	34.07	11.76	68.07	7.46	0.54	49.57	65.01	146.31

05/77

## 29. Continuous Ambient Air Quality Monitoring Station at Faridabad

Monitoring Location : Faridabad - HSPCB							
Monitoring Conducted By: Eco Tech Pvt. Ltd.							
Months	CO	SO <sub>2</sub>	NO	NO <sub>2</sub>	NOX	O <sub>3</sub>	RSPM
	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	PPb	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Apr-22	*	8.7	7.7	6.6	13.2	53.3	88
May-22	*	8.1	5	3.5	7.2	46.9	74
Jun-22	*	8.38	*	*	*	27.49	*
Jul-22	*	8.22	*	*	*	11.56	31
Aug-22	*	9.31	*	*	*	62.97	29
Sep-22	*	9.60	*	*	*	38.17	35
Oct-22	*	12.85	16.22	12.66	28.88	40.64	117
Nov-22	*	9.97	11.52	8.88	20.43	28.44	179
Dec-22	2.44	9.60	10.29	9.00	18.84	17.81	179
Jan-23	2.0	10.2	8.00	5.00	13.00	14.00	193
Feb-23	1.6	8.9	7.00	6.00	14.00	23.00	111
Mar-23	1.7	6.2	8.00	7.00	14.00	18.00	81
Minimum	1.6	6.2	5	3.5	7.2	11.56	29
Maximum	2.44	12.85	16.22	12.66	28.88	53.3	193
Average	2.02	9.53	10.61	8.08	18.04	32.43	111

05/78

## **CHAPTER 10: CONSENT UNDER THE WATER ACT, 1974 & AIR ACT, 1981**

05/79

**10.1 Categorization of Industrial Units/Projects during the year 2022-23**

The Board re-categorized industrial sectors/projects under Red, Orange, Green and White categories for the purpose of consent management under the Water Act, 1974 & the Air Act, 1981 on the basis of direction issued by the Central Pollution Control Board vide letter dated 07.03.2016.

According to new categorization, Red, Orange and Green category of industries/projects are covered under the consent management, whereas White category industries/projects are exempted from the consent management, in view of less pollution potential in these industries. However, White category units/projects are required to provide the pollution control devices, wherever required and comply with the standards prescribed for discharge of pollutants under the Environment (Protection) Rules, 1986.

The status of industries/projects covered under the Red, Orange and Green categories is given as under:-

Region	Red	Orange	Green	White	Total
Ballabgarh	414	445	131	0	990
Bhiwani	23	707	78	0	808
Gurugram(South)	19	39	34	44	136
Gurugram(North)	266	391	58	15	730
Hisar	103	908	167	0	1178
Karnal	142	556	107	254	1059
Sonapat	410	1275	447	93	2225
Yamuna Nagar	200	1237	95	0	1532
Rewari	151	297	78	6	532
Mahendergarh	16	238	7	0	261
Bhadurgarh	315	1484	259	0	4389
Faridabad	142	248	70	1	461
Panchkula	130	481	159	25	795
Kurukshetra	26	262	91	00	379
Nuh	42	222	14	0	278
Panipat	404	292	144	0	840
Charkhi Dadri	19	433	13	0	465
Palwal	62	91	32	0	185
Kaithal	73	593	244	0	910
Ambala	60	395	122	2	579
<b>Total</b>	<b>3017</b>	<b>10594</b>	<b>4681</b>	<b>440</b>	<b>18732</b>



05/80

**Consent to Establish under the Water Act, 1974 & the Air Act, 1981 during the year 2022-23**

All the industrial units/ projects covered under the Red, Orange and Green categories require prior Consent to Establish from the Board for their establishment or any extension or addition thereto.

The status of Consent to Establish under the Water Act, 1974 & the Air Act, 1981 is given as under:-

Region	Applications pending as on 31.03.2022	Applications received during 2022-23	Total Applications received	Decided	
				Granted	Refused
Ballabgarh	0	142	142	116	26
Bhiwani	0	80	80	58	22
Gurugram(South)	0	345	345	231	114
Gurugram(North)	0	152	152	106	46
Hisar	0	196	196	116	80
Karnal	0	227	227	164	63
Sonipat	0	458	458	336	122
Yamuna Nagar	0	113	113	86	27
Rewari	0	116	116	75	41
Mahendergarh	0	152	152	88	64
Bhadurgarh	0	399	399	323	76
Faridabad	0	68	68	42	26
Panchkula	0	90	90	60	30
Kurukshetra	04	29	33	20	13
Nuh	0	54	54	29	25
Panipat	0	198	198	156	42
Charkhi Dadri	0	1	1	1	0
Palwal	0	78	78	55	23
Kaithal	0	140	140	89	51
Ambala	0	77	77	40	37
<b>Total</b>	<b>4</b>	<b>3115</b>	<b>3119</b>	<b>2191</b>	<b>928</b>

05781

**Consent to operate under the Water Act, 1974 & the Air Act, 1981 during theyear 2022-23**

All the industrial units/projects covered under the Red, Orange and Green category require prior Consent to Operate from the Board before starting even trial production and renewal of Consent to Operate before expiry of previous consent.

The status of Consent to Operate under the Water Act, 1974 & the Air Act, 1981, is given as under:-

Region	Applications pending as on 31.03.2022	Applications received during 2022-23	Total Applications received	Decided	
				Granted	Refused
Ballabgarh	0	313	313	290	23
Bhiwani	0	383	383	313	70
Gurugram(South)	0	441	441	375	66
Gurugram(North)	0	440	440	305	135
Hisar	0	614	614	448	166
Karnal	0	465	465	307	158
Sonipat	0	748	748	617	131
Yamuna Nagar	0	591	591	485	106
Rewari	0	352	352	239	113
Mahendergarh	0	0	0	0	0
Bhadurgarh	0	1117	1117	939	178
Faridabad	0	250	250	161	89
Panchkula	0	297	297	232	65
Kurukshetra	10	55	65	41	24
Nuh	0	103	103	80	23
Panipat	0	308	308	236	72
Charkhi Dadri	0	22	22	22	0
Palwal	0	149	149	117	32
Kaithal	0	0	0	0	0
Ambala	0	313	313	155	158
<b>Total</b>	<b>10</b>	<b>6961</b>	<b>6971</b>	<b>5362</b>	<b>1609</b>

05/82

**CHAPTER 11: HAZARDOUS &  
OTHER WASTE RULES, 2016**

057.83

**11.1 Authorization under Hazardous & Other Waste Rules, 2016 during the year 2022-23**

All the industrial units/projects covered under the Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016, require authorization from the Board.

The status of authorization under the Hazardous & Other Rules, 2016 is given as under:-

Region	Applications pending as on 31.03.2022	Applications received during 2022-23	Total Applications received	Decided	
				Granted	Refused
Ballabgarh	0	258	258	192	66
Bhiwani	0	33	33	23	10
Gurugram(South)	0	345	345	251	94
Gurugram(North)	0	334	334	218	116
Hisar	0	74	74	34	40
Karnal	0	98	98	47	51
Sonapat	0	430	430	314	116
Yamuna Nagar	0	60	60	32	28
Rewari	0	91	91	69	22
Mahendergarh	0	3	3	2	1
Bhadurgarh	0	401	401	276	125
Faridabad	0	143	143	100	43
Panchkula	0	65	65	57	8
Kurukshetra	0	20	20	10	10
Nuh	0	25	25	17	8
Panipat	0	139	139	98	41
Charkhi Dadri	0	3	3	3	0
Palwal	0	57	57	40	17
Kaithal	0	57	57	29	28
Ambala	0	59	59	37	22
<b>Total</b>	<b>0</b>	<b>2695</b>	<b>2695</b>	<b>1849</b>	<b>846</b>

05784

**11.2 Status of units registered for recycling/re-processing of Hazardous Waste during the year 2022-2023**

Region	Total no. of Authorized		Total Quantity
	Recycler	Utilizer	
Ballabgarh	2	6	8
Hisar	28	0	72620.3 MTA
Karnal	10	06	Recycler - 90390.44 MTA Utilizer - 14140.6 MTA
Sonipat	17	2	Recycler - 3951.239 MTA Utilizer - 150 MTA
Yamuna Nagar	10	0	65550.80
Rewari	2	0	12500 MTA 2697 MTA
Bhadurgarh	3	0	13200 MTA 141456 MTA 279419 MTA
Panchkula	10	0	37858 MTA and 4800 KLA
Kurukshetra	01	00	9.0 TPA
Palwal	2	0	0
Kaithal	21	26	34367
Ambala	2	2	5477 MTA
<b>Total</b>	<b>108</b>	<b>42</b>	

05785

**11.3 Status of units authorized as traders for import of Hazardous Waste**

Every trader desirous of importing other wastes such as Metal scrap, paper waste etc. as listed in Part D of Schedule III of Hazardous & Other Waste (M&TM) Rules, 2016, may make an application in Form 16 to the State Pollution Control Board for their authorization which is granted on one time basis and the registered traders are required to submit details of such imports and particulars of the actual users along with quantities to the concerned State Pollution Control Board or Pollution Control Committee on a quarterly basis.

The details of units authorized as Traders for import of other waste, listed in Part-D of Schedule-III on behalf of the Actual users is as under:

Region	No. of units authorized as Traders for import of other waste listed in Part-D of Schedule-III on behalf of the Actual users
Ballabgarh	40
Bhiwani	00
Gurugram(South)	00
Gurugram(North)	2
Hisar	11
Karnal	0
Sonipat	12
Yamuna Nagar	11
Rewari	6
Mahendergarh	0
Bhadurgarh	24
Faridabad	2
Panchkula	0
Kurukshetra	0
Nuh	0
Panipat	3
Charkhi Dadri	0
Palwal	8
Kaithal	4
Ambala	1
<b>Total</b>	<b>124</b>

05/86

## **CHAPTER 12: E-WASTE RULES, 2016**

05/87

### 12.1 E-waste (Management) Rules, 2016

The E-waste (Management) Rules, 2016 have been notified by the Ministry of Environment, Forest & Climate Change, Govt. of India with the primary objective to channelize the E-waste generated in the country for environmentally sound recycling which is largely controlled by the un-organized sector who are adopting crude practices that results in higher pollution and less recovery, thereby causing wastage of precious resources and damage to the environment.

Electronic waste or e-waste may be defined as discarded computers, office electronic equipment, entertainment device, electronics, mobile phones, television sets, and refrigerators. This includes used electronics which are destined for reuse, resale, salvage, recycling, or disposal as well as re-usable (working and repairable electronics) and secondary scrap (copper, steel, plastic, etc.). Broadly, it consists of ferrous and non-ferrous metals, plastics, glass, wood and plywood, printed circuit boards, ceramics, rubber and other items. The presence of elements like lead, mercury, arsenic, cadmium, selenium, hexavalent chromium, and flame retardants, beyond threshold quantities, make the e-waste hazardous in nature.

The management of e-waste consists of collection, segregation, refurbishing, dismantling and recycling for recovery of metals, plastic and glass material. The Central Pollution Control Board has issued guidelines for environmentally sound collection, processing, dismantling and recycling of e-waste. The dismantlers and recyclers of e-wastes are required to register their units with the State Pollution Control Boards.



## 12.2 Detail of units Registered for Dismantling &amp; Recycling of E-Waste during the year 2022-2023

05/88

Region	Total no. of Authorized		Total Authorized Quantity (MT)	
	Recycler	Dismantler	Recycling	Dismantling
Ballabgarh	3	4	52.77	3.77
Bhiwani	1	0	4	0
Gurugram(South)	4	13	15123343	8350
Gurugram(North)	0	1	0	1
Hisar	0	0	0	0
Karnal	01	0	58000	0
Sonipat	3	3	10547.165	10037.5
Yamuna Nagar	0	1	0	1
Rewari	0	0	0	0
Mahendergarh	0	0	0	0
Bhadurgarh	1	5	5000	17440
Faridabad	1	1	0	5796
Panchkula	0	1	0	3600
Kurukshetra	00	01	00	600
Nuh	0	01	0	2.22
Panipat	4	3	29680	30820
Charkhi Dadri	0	1	0	0
Palwal	0	0	0	0
Kaithal	1	0	4	0
Ambala	0	3	0	679.612
<b>Total</b>	<b>19</b>	<b>38</b>	<b>15226630.935</b>	<b>77331.102</b>

05/89

**CHAPTER 13: BIO-MEDICAL  
WASTE RULES, 2016**

05/90

**13.1 General**

Bio-medical Waste (Management) Rules, 2016 were notified by the Ministry of Environment & Forests (MoEF&CC) which apply to all persons who generate, collect, receive, store, transport, treat, dispose or handle bio-medical waste in any form. The 'prescribed authority' for enforcement of the provisions of these rules in respect of all the health care facilities located in State is the State Pollution Control Board.

**13.2 Status of Authorization under Bio Medical Waste Rules, 2016 during the year 2022-2023**

Region	Applications pending as on 31.03.2022	Applications received during 2022-23	Total Applications received	Decided	
				Granted	Refused
Ballabgarh	0	120	120	63	57
Bhiwani	0	69	69	48	21
Gurugram(South)	3	28	31	28	03
Gurugram(North)	0	315	315	267	48
Hisar	0	273	273	216	57
Karnal	0	118	118	89	29
Sonipat	0	95	95	45	50
Yamuna Nagar	0	96	96	65	31
Rewari	0	135	135	74	61
Mahendergarh	0	51	51	26	25
Bhadurgarh	0	105	105	61	44
Faridabad	0	183	183	94	89
Panchkula	0	104	104	78	26
Kurukshetra	13	63	76	37	39
Nuh	0	26	26	11	15
Panipat	0	81	81	46	35
Charkhi Dadri	0	15	15	15	0
Palwal	0	37	37	5	32
Kaithal	0	118	118	89	29
Ambala	0	128	128	82	46
<b>Total</b>	<b>16</b>	<b>2160</b>	<b>2176</b>	<b>1439</b>	<b>737</b>

05/91

### 13.3 Service Providers authorized under Bio Medical Waste Rules, 2016 during the year 2022-2023

The list of service providers authorized under the Bio Medical Waste Rules, 2016 for treatment & disposal of bio medical waste in Common Waste Treatment & Disposal Facility is given as under:-

Region	Sr. No.	Name & Address of the Unit	Capacity (Kg/Hr.)
Bhiwani	1.	Maruti Bio-Medical Waste Plant VPO- Hetampura, Distt. Bhiwani	Incinerator = 100 Kg/h Auto Clave = 30 Kg/h Shredder = 100 KG/h Any other: i.e. Shedder, ETP = 05 KLD
Gurugram(South)	2.	M/s BIOTIC WASTE LTD , PLOT NO 725, PACE CITY 2, SECTOR 37, GURGAON, HARYANA	20 Ton
Hisar	3.	Synergy Waste Management Pvt. Ltd., 168, Sec-27-28, HUDA Ind. Area, Hisar	Incinerator: 401.4 KG/day Autoclave: 2016.6KG/day Shredder: 147.7 KG/day
	4.	Invision Enviro Services, Vill. Phulkan, Distt. Sirsa	Incinerator: 143.6 KG/day Autoclave: 73.77 KG/day Shredder: 65.7 KG/day
	5.	Surya Waste Management, Sahuwala Road, Vill. Chadiwal, Distt. Sirsa	Incinerator: 48.4 KG/day Autoclave: 25 KG/day Shredder: 19.31 KG/day
Karnal	6.	Haat Supreme Wastech (P) Ltd., Vill. Bajida Jattan, Karnal	Incinerator- 1680 Kg/day Autoclave - 325 Kg/day Shredder- 1200 Kg/day Any other: i.e. ETP - 600 Ltr/hr
Bhadurgarh	7.	M/s S.D. Bio Medical Waste Management Co. Vill-Baland, Distt. Rohtak	Incinerator: 1(100 kg/h) Autoclave: 1(50 kg/batch) Deep 0 Burial: 0 Any other: Shredder-1 (50-60 kg/h) Sharp encapsulation-1 (250 block/moth) ETP-1 (2.5 KLD)
Faridabad	8.	Golden Eagle Waste Management Company, Village Jasana Tigaon Road Jasana, Faridabad	100 kg/hr
Panchkula	9.	M/s Ess Kay Hygienic Services, Located at VPO Bagwala, Tehsil Barwala, District-Panchkula	150Kg/hr.

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Charkhi Dadri	10.	M/s Maruti Bio-Medical Waste Plant VPO- Hetampura, Distt. Bhiwani	Incinerator = 100 Kg/h Auto Clave = 30 Kg/h Shredder = 100 KG/h Any other: i.e. Shedder, ETP = 05 KLD
Kaithal	11.	M/s Divya Waste Management, Village Kandela, Distt. Jind, Haryana	100 Kg/Hr. (Incinerator)
Ambala	12.	M/s Rudraksh Enviro Care Pvt. Limited, Village Barogh, Tehsil Naraingarh, Distt. Ambala	Incinerator- 1280 Kg/day Autoclave - 392 Kg/day Shredder- 250 Kg/ hr Any other: i.e. ETP -3.3 KL/day

05/93

## **CHAPTER 14: BATTERIES RULES, 2001**

## 14.1 General

05/94

Battery or accumulator, means any source of electrical energy generated by direct conversion of chemical energy and includes disposable primary (Alkaline/Mercury/Silver oxide/Zinc Carbon) batteries or rechargeable secondary (Lead Acid/Lithium Ion/Lithium Metal/Nickel Cadmium) batteries or any other battery which is a source of electrical energy and contains (or may produce attend of its life) potassium hydroxide or sodium hydroxide or ammonium chloride or zinc chloride or sulfuric acid or pressurized sulfur dioxide gas or thinly chloride or magnesium bromide or magnesium perchlorate or mercury or zinc or cadmium or nickel or lithium chloride or any other hazardous material as defined in the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. The Batteries (Management and Handling) Amendment Rules, 2001, apply to every manufacturer, importer, re-conditioner, assembler, dealer, recycler, auctioneer, consumer and bulk consumer involved in the manufacture, processing, sale, purchase and use of batteries or components thereof.

## 14.2 Status of dealers &amp; their status of Authorization / Registration during the year 2022-2023

Region	Number of Units registered
Ballabgarh	0
Bhiwani	0
Gurugram(South)	0
Gurugram(North)	13
Hisar	0
Karnal	1
Sonipat	2
Yamuna Nagar	6
Rewari	0
Mahendergarh	0
Bhadurgarh	45
Faridabad	0
Panchkula	0
Kurukshetra	8
Nuh	0

Panipat	0
Charkhi Dadri	0
Palwal	0
Kaithal	21
Ambala	0
Total	96

05/95



05/96

## **CHAPTER 15: PLASTIC WASTE RULES, 2016**

## 15.1 General

• 5/97

Plastic has multiple uses and their physical and chemical properties lead to commercial success. However, indiscriminate disposal of plastic waste has become a major threat to the environment. In particular, the plastic carry bags are the biggest contributors of littered waste and every year, millions of plastic bags end up in the environment vis-a-vis soil, water bodies, water courses, etc and it takes an average of one thousand years to decompose them. Therefore, to address the issue of scientific plastic waste management, the Plastic Waste (Management) Rules, 2016 were notified by the Ministry of Environment, Forest & Climate Change, Govt. of India, which includes plastic waste management.

## 15.2 Status of implementation of Plastic Waste Rules, 2016 during the year 2022-2023

Sr. no.	Description		
1	Estimated plastic waste generation tons per Annum	129866.74 TPA	
2	No. of Plastic manufacturing units (including multilayer, compostable plastic units).	Plastic units	107
		Compostable plastic units	6
		Multilayer Plastic units	57
4	No. of violations and action taken on non-compliance of provisions of PWM Rules, 2016 as amended (Rule 12)	18023 Challans done amounting Rs. 1,54,21,000/- from April , 2022 to March 2023.	

05/98

## **CHAPTER 16: SOLID WASTE MANAGEMENT RULES, 2016**

05/99

**Solid-waste management** is the collection, treatment, and disposal of solid material that is discarded after it has served its purpose or is no longer useful. Improper disposal of municipal solid waste can create insanitary conditions, and these conditions, in turn, can lead to pollution of the environment and to outbreaks of vector-borne disease—that is, diseases spread by rodents and insects. The tasks of solid-waste management present complex technical challenges. They also pose a wide variety of administrative, economic, and social problems that must be managed and solved.

With the ever increasing population and urbanization, the waste management has emerged as a huge challenge in the country. Not only the waste has increased in quantity, but the characteristics of waste have also changed tremendously over a period, with the introduction of so many new gadgets and equipment.

Urban local bodies in the state of Haryana are doing collection of domestic, trade and institutional food/ biodegradable waste from the doorstep or from the community bin on daily basis. Local bodies are using containerized handcarts/tricycles/ Tractor Trolley / Refuse Compactor or other similar means for the primary collection of waste stored at various sources of waste generation. The solid waste thus collected from households and other sources is transported to Primary Collection Centre (PCC), where the waste would be primarily segregated i.e. recyclables sorted out by the workers and stored separately. For secondary transportation of solid waste from the Primary Collection Centre (PCC) to the designated processing plant site or sanitary landfill site/ dumping sites, "Dumper Placers with twin bin containers" are provided.

Presently in the State, there are (3 plants in 3 MCs 2500 Composting Pits in 76 MCs), (10 nos. Vermi Composting Facilities), (3 nos Bio Gas Plant) and (3 plant waste to compost +RDF in 3 MCs.). Rejects and residues collected from the above mentioned processes are disposed in dumping sites and further proposed to be processed for energy recovery.

S. No.	Particulars	Remarks
1.	Total number of local bodies responsible for management of Solid Waste in the State	88
2.	Number of ULBD obtained authorization under MSW Rules, 2016	0
3.	Quantity of Solid Waste generated (TPD)	5629
4.	Quantity of waste treated (TPD)	3961
5.	Status of processing / treatment facilities installed/under installation/ planned	<ul style="list-style-type: none"> <li>Total 13 integrated Solid Waste Management clusters have been formed in Haryana. Out of 13 clusters, 1 waste to energy/plant under Sonapat-Panipat clusters has been started. One cluster namely i.e. Gurugram - Faridabad which is based on Waste to energy (WtE) technique, is under implementation. This plant is expected to be completed by 31.12.2024. Remaining 11 clusters are based on open technology. Out of 11 clusters, agencies have been selected for 3 clusters namely Bhiwani, Sirsa and Karnal - Kaithal - Thanesar which are based on Waste to Compost (WtC) technique. The agencies have started the work of collection &amp; Transportation in the ULBs of the clusters.</li> <li>Urban local bodies are doing collection of domestic, trade and institutional food/ biodegradable waste from the doorstep or from the community bin on daily basis. Local bodies are using containerized handcarts/tricycles/ Tractor Trolley/ Refuse compactor or other similar means for the primary collection of waste stored at various sources of waste generation. The solid waste thus collected from households and other sources is transported to Primary Collection Centre (PCC), where the waste would be primarily segregated i.e. recyclables shall be sorted out by the workers and stored separately. For secondary transportation of solid waste from the Primary Collection Centre (PCC) to the designated processing plant site or sanitary landfill site/dumping sites. * Dumper Placers with twin bin containers are provided.</li> </ul>

6.	Number of facilities obtained Environmental Clearance under EIA Notification 2006	03 (Sonapat-Panipat, Gurugram Faridabad & Karnal-Kaithal-Thanesar cluster)
7.	Number of facilities obtained CTE from HSPCB	2 (Sonapat-Panipat, & Karnal-Kaithal-Thanesar cluster)
8.	Number of facilities obtained CTO from HSPCB	1 (Sonapat-Panipat)
9.	Number of facilities obtained authorization under MSW Rules, 2016	Nil

## **CHAPTER 17: REDRESSAL OF PUBLIC COMPLAINTS**

17.1 Status of Public Complaints received and disposed off during the year 2022-2023

Region	No. of complaints received through			No. of complaints disposed off			No. of pending complaints			
	Hard copy	CM Window	Other online portals	Hard copy	CM Window	Other online portals	Hard copy	CM Window	Other online portals	Total
Ballabgarh	0	11	7	0	11	7	0	0	0	0
Bhiwani	10	22	09	10	18	07	0	4	2	6
Gurugram(South)	15	15	18	14	11	18	01	4	0	5
Gurugram(North)	3	23	34	3	23	33	0	0	1	1
Hisar	23	87	09	23	87	09	0	0	0	0
Karnal	32	53	12	32	53	12	0	0	0	0
Sonapat	11	27	17	11	27	17	0	0	0	0
Yamuna Nagar	5	56	8	5	56	8	0	0	0	0
Rewari	0	21	22	0	21	22	0	0	0	0
Mahendergarh	0	6	6	0	6	6	0	0	0	0
Bhadurgarh	22	23	30	22	23	30	0	0	0	0
Faridabad	59	15	132	59	11	129	0	4	3	7
Panchkula	0	3	0	0	2	0	0	01	0	1
Kurukshetra	00	09	26	00	09	26	00	00	00	00
Nuh	10	40	0	10	35	0	0	5	0	5
Panipat	48	68	87	48	68	87	0	0	0	0
CharKhi Dadri	0	5	2	0	5	2	0	0	0	0
Palwal	0	14	0	0	10	0	0	4	0	4
Kaithal	7	28	6	7	28	6	0	0	0	0
Ambala	10	9	2	10	8	2	0	1	0	1
Total	255	535	427	254	512	421	1	23	6	30

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## **CHAPTER 18: PUBLIC HEARING UNDER EIA NOTIFICATION**

**18.1 General**

Public hearings are held as part of the public inquiry process required under the EIA Notification dated 14.9.2006. This provides interested parties with the opportunity to explain on written submissions and to discuss, inquire issues in a public forum. Persons present at the venue are granted a opportunity to seek information or clarification of the project from the project proponents requiring environmental clearance and all the views and concerns expressed by the participants are recorded and reflected in the proceedings of the public hearing which are considered by the Authorities while deciding the case of granting Environmental Clearance to the project proponents under EIA Notification dated 14.09.2006. Any organization or person can participate in the process of public hearing, either to speak for submission or simply to observe the proceedings.

**18.2 Details of the Public Hearings organized by the Board during the year 2022-2023**

Name of the Region	Number of projects where public Hearing organized
Ballabgarh	0
Bhiwani	2
Gurugram(South)	0
Gurugram(North)	0
Hisar	1
Karnal	1
Sonapat	1
Yamuna Nagar	2
Rewari	0
Mahendergarh	2
Bhadurgarh	0
Faridabad	1
Panchkula	3
Kurukshetra	1
Nuh	0
Panipat	2
Charkhi Dadri	1
Palwal	2
Kaithal	2
Ambala	4
Total	25

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## **CHAPTER 19: RIGHT TO INFORMATION ACT, 2005**

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**19.1 General**

The Right to Information Act (RTI) requires every public authority to computerize their records for wide dissemination and to proactively ascertain categories of information so that the citizens need minimum recourse to request for information formally.

The HSPCB has provided relevant information on the website of the Board i.e. [www.hspcb.gov.in](http://www.hspcb.gov.in) in compliance of section 4 of RTI Act, 2005.

**19.2 Details of Applications received and disposed as on 31.03.2023****a) By Regional Offices of the Board**

Region	No. of applications			Amount of fee collected (₹)	Amount of fee collected on account of additional documents (₹)
	Received	Disposed off	Under Process		
Ballabgarh	69	69	00	350	0
Bhiwani	53	52	01	160	1908
Gurugram(South)	85	85	00	110	0
Gurugram(North)	99	99	0	320	0
Hisar	110	107	03	540	250
Karnal	51	51	0	200	600
Sonapat	58	58	0	390	0
Yamuna Nagar	71	71	0	1320	0
Rewari	51	51	0	130	0
Mahendergarh	60	60	0	330	0
Bhadurgarh	32	32	0	10	0
Faridabad	130	130	0	420	320
Panchkula	57	57	0	0	420
Kurukshetra	23	23	00	100	00
Nuh	44	44	0	150	0
Panipat	75	75	0	1110	50
Charkhi Dadri	4	2	2	40	0
Palwal	45	45	0	130	0
Kaithal	62	62	0	40	0
Ambala	24	24	0	150	0
Total	1203	1197	6	6000	3548

**b) By Head Office of the Board**

Total 237 applications under the Right to information Act, 2005 were received in Head Office during the year 2022-23, out of which 3 application were rejected as per provision of the Act. 234 applications were disposed off upto 31.03.2023 during the year 2022-23. ₹1780/- was collected as fee for RTI applications, whereas ₹5522/- was collected on account of charges for providing additional documents to the applicants.

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**CHAPTER 20: INCOME &  
EXPENDITURE STATEMENT  
(UNAUDITED)**

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## 20.1 Details of Expenditure & Receipts (unaudited) for the Financial Year 2022-23

### Details of Expenditure (unaudited) for the Financial Year 2022-23

Sr. No.	Head of Account	Expenditure (01.4.2022 to 31.3.2023)
	<b>Expenditure</b>	<b>(In Crore)</b>
<b>(A)</b>	<b><u>SALARIES</u></b>	
1	<u>Pay and Allowances</u>	29.49
	(i) Technical/Scientific Staff & Ministerial Staff	
2	<u>Medical Expenses</u>	0.60
	(i) Technical/Scientific Staff & Ministerial Staff	
3	<u>Travelling Allowance</u>	0.20
	(i) Technical/Scientific Staff & Ministerial Staff	
	<b>Sub Total =</b>	<b>30.29</b>
<b>(B)</b>	<b><u>OFFICE EXPENSES</u></b>	
1	Office Expenses	13.47
2	Legal Expenses	0.64
3	Furniture and fixture	0.50
4	Machinery and Equipments	0.53
5	Computerisation of Office	0.73
6	Purchase of Vehicles	0.79
7	Income Tax	0.00
<b>(C)</b>	<b>Strengthening of existing laboratory and setting up of additional laboratory/Library Books</b>	<b>1.00</b>
	i) Purchase of CAAQMS	0.00

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(D)	Equipment for Ambient Air Monitoring & stack monitoring Kit	0.00
(E)	Development /Extension Activities (advertisement publicity on environment awareness, research & development, Seminar training)	2.69
(F)	Financial Assistance for Environmental Improvement Projects.	0.25
(G)	Construction of Building/ Purchase of Land.	36.59
	<u>Grant in Aid from CPCB</u>	
(H)	Grant in Aid (General) control of pollution	2.49
	Grand in Aid from CPCB	
(I)	5 Continuous Ambient Air Quality Monitoring Station (CAAQMS)(O&M)	1.04
	Grant in Aid from CPCB	
(J)	Expansion of Real Time Ambient Noise Network in Identified Cities	0.00
	<b>Sub Total =</b>	<b>60.72</b>
(J)	<u>LOANS AND ADVANCES</u>	
	Loans and Advances to Staff	0.06
	<b>Sub Total =</b>	<b>0.06</b>
(K)	C.M Relief Fund(Donation)	0.00
	<b>Grand Total =(A+B+C+D+E+F+G+H+I+J+K)</b>	<b>91.06</b>

**Details of Receipts (unaudited) for the Financial Year 2022-23**

Sr. No.	Head of Accounts	Receipt (01.4.2022 to 31.3.2023)
	<b><u>RECEIPTS/INCOME</u></b>	(Rs. In Crore)
1	Samples Testing Fee	1.93
2	Consent Fee (Water)	28.06
3	Consent Fee (Air)	32.63
4	NOC Fees	8.61

5	Public Hearing		0.30
6	Misc Receipts		
	i) Forfeiture of performance security		0.07
7	Authorization fee/Recognition fee/Appeal fee/Right to Information fee/Misc. receipt		0.35
8	Cess Receipts (from G.O.I.)		0.30
9	Interest on deposits		40.00
10	Grant-in-Aid from Central Pollution Control Board/NAMP/State		0.00
	<b><u>Grant in Aid from CPCB</u></b>		
11	5 continuous Ambient Air Quality Monitoring Station(CAAQMS)	0.00	
	<b><u>Grant in Aid from CPCB</u></b>		
12	Grant in Aid (General) control of Pollution		0.00
	<b>Total (Sr. No.1 to 12)</b>		<b>112.25</b>

