HARYANA STATE POLLUTION CONTROL BOARD

AGENDA

For the

191st meeting of the Board

to be held on 08.04.2022 at 11:00 A.M.

PANCHKULA

Scanned with CamScanner

HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR 6, PANCHKULA

No. HSPCB/Estt./2022/EG-36/1781-1789 **Dated: 01.04.2022**

191st Meeting of HSPCB
Date: 08.04.2022
Time: 11.00 AM

To

1. Sh. P. Raghavendra Rao,
   Chairman, Haryana State Pollution Control Board,
   Panchkula.
2. The Additional Chief Secretary to Government Haryana,
   Environment & Climate Change Department.
3. The Additional Chief Secretary to Government Haryana,
   Country Planning and Urban Estates Department.
4. The Principal Secretary to Government Haryana,
   Urban Local Bodies Department.
5. The Principal Secretary to Government Haryana,
   Industries and Commerce Department.
6. The Principal Secretary to Government Haryana,
   Transport Department.
7. The Managing Director,
   Haryana Power Generation Limited, Panchkula
8. The Managing Director,
   Haryana Forest Development Corporation, Panchkula
9. Sh. S. Narayanan, IFS,
   Member Secretary,
   Haryana State Pollution Control Board, Panchkula.

Subject: **191st meeting of the Haryana State Pollution Control Board to be held on 08.04.2022 at 11.00 A.M.-**

Kindly refer to letter No. HSPCB/Estt./2022/EG-36/1681-1689 dated 29.03.2022 regarding the subject cited above.

Please find enclosed herewith the Agenda Notes for the 191st meeting of the Board to be held on 08.04.2022 at 11.00 AM under the Chairmanship of Sh. P. Raghavendra Rao, Chairman, Haryana State Pollution Control Board, in the Conference Room of Haryana State Pollution Control Board, C-11, Sector-6, Panchkula.

It is further informed that if any Member desires to attend the meeting through video conferencing; he will be provided the meeting link accordingly before the commencement of the meeting. Therefore, you are requested to inform whether you will attend the meeting through video conferencing or in person.

You are requested to make it convenient to attend the above said meeting.

DA/Agenda Notes

SANDEEP SHARMA

For Member Secretary, HSPCB

Scanned with CamScanner

INDEX

Scanned with CamScanner

HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR 6, PANCHKULA.

INDEX

Agenda Items for the 191st meeting of the Board under the Chairmanship of Sh. P. Raghavendra Rao, Chairman, Haryana State Pollution Control Board to be held on **08.04.2022** at **11.00 A.M.** in the Conference Room of HSPCB, C-11, Sector-6, Panchkula are as under:-

Item No.	Subject	Page
191.01	Confirmation of the Minutes of the 190th meeting of the Haryana State Pollution Control Board.	01/ 1 – 01/4
191.02	Action taken on the Minutes of 190th meeting of the Haryana State Pollution Control Board on 02.02.2022.	02/1 - 02/2
191.03	To conduct paperless meetings of the Board of Directors of Haryana State Pollution Control Board.	03/1
191.04	Regarding amendment in qualification of Board's Analyst prescribed in Haryana (Prevention and Control of Water Pollution) Rules, 1978 and Haryana Air (Prevention and Control of Pollution) Rules, 1983.	04/1 – 04/24
191.05	Amendment in Water (Prevention and Control of Pollution) Rules, 1978 – regarding Terms and Conditions of Service of Chairman, Haryana State Pollution Control Board.	05/1 – 05/2
191.06	Amendment of financial power delegated at serial No. 25 & 26 of the financial powers delegation by the Board in its 174th meeting.	06/1 – 06/16
191.07	Revised procedure for examining, assessing, and imposing the Environmental Compensation on Industrial Units or Other Authorities, found violating the provisions of the various Acts & Rules, in the state of Haryana – Ex-post facto approval.	07/1 – 07/68
191.08	Purchase of plots for newly opened Regional Offices.	08/1 – 08/2
191.09	Adoption of standards of effluent under Water Act, 1974 and standards of emission under Air Act, 1981 notified by the MOEF and amendment thereof.	09/1 – 09/21
191.10	Quantification and contribution of paddy stubble burning emissions in Haryana to PM2.5 concentration in its surrounding cities and Delhi.	10/1 – 10/54
191.11	Regarding hiring of office building for Sub Regional Head Quarter, HSPCB.	11/1
191.12	To approve/adopt the Audited Balance Sheet and Income and Expenditure Account of the Board for the Financial Year 2017-18.	12/1 – 12/44
191.13	Budget Estimate of Haryana State Pollution Control Board for the Financial year 2022-23.	13/1 – 13/18
191.14	Regarding amendment in delegation of powers under the provisions of Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981 and Rules framed under the Environment Protection Act, 1986.	14/1 – 14/24

Scanned with CamScanner

AGENDA ITEM NO. 191.01

CONFIRMATION OF THE MINUTES OF THE 190TH MEETING OF THE HARYANA STATE POLLUTION CONTROL BOARD

Scanned with CamScanner

Agenda Item No. 191.1

Confirmation of the Minutes of the 190th meeting of the Haryana State Pollution Control Board.

The minutes of the 190th meeting were circulated to all the Members of the Board vide this office Memo No. HSPCB/Estt./2022/EG-36/505-513 dated 03.02.2022 (copy of the same enclosed).

No observations from any Member have been received. The Board may confirm the Minutes of the 190th Meeting.

01/2

Minutes of 190th meeting of the Haryana State Pollution Control Board, Panchkula, held at 3.00 PM on 02.02.2022 under the Chairmanship of Sh. P. Raghavendra Rao, Chairman, Haryana State Pollution Control Board, Panchkula

The 190th meeting of the Haryana State Pollution Control Board was convened at 3.00 PM on 02.02.2022 through video conferencing under the Chairmanship of Sh. P. Raghavendra Rao, Chairman, Haryana State Pollution Control Board. The list of participants is at Annexure-I.

The Member Secretary of the Board welcomed all the participants and presented the agenda items before the Board. A detailed discussion was held on all the agenda items and the minutes of the meeting are presented as below.

Agenda Item No. 190.1

Delegation of powers under the provisions of Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981 and Environment Protection Rules framed under the Environment Protection Act, 1986.

The proposal contained in Agenda Note was approved.

Agenda Item No. 190.2

Appointment of Board Analyst in Haryana State Pollution Control Board.

The proposal contained in Agenda Note was approved.

Agenda Item No. 190.3

Grant of Bonus / Ex-gratia / Short-term Incentives / token gifts to the Employees of Public Sector Undertakings - Ex-post facto approval.

The proposal contained in Agenda Note was approved.

Agenda Item No. 190.4

Amendment in procedure for obtaining consent to establish and consent to operate under Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 alongwith amended categorization of Red, Orange, Green and White category of Industrial/Non-Industrial Sector/Project/Unit – Ex-post facto approval.

The proposal contained in Agenda Note was approved.

Agenda Item No. 190.5

Regarding to allow only those upcoming industrial units in NCR-Haryana which are using cleaner fuel namely, natural gas (PNG/CNG), liquefied petroleum gas, bio-gas, propane, butane etc. – Ex-post facto approval.

The proposal contained in Agenda Note was approved.

hc
3/4/22

Agenda Item No. 190.6

Regarding categorization of Industrial / Non-Industrial Sectors/Projects "Restaurants / Dhabas/ Motels/ Marriage Halls/ Banquet Halls/Party Lawns" under Consent Management of the Board based on waste water discharge and floor area – Ex-post facto approval.

The proposal contained in Agenda Note was approved.

Agenda Item No. 190.7

To approve/adopt the Audited Balance Sheet and Income and Expenditure Account of the HSPCB for the Financial Year 2016-17.

The proposal contained in Agenda Note was approved.

Agenda Item No. 190.7(S)

To approve/adopt the Audited Balance Sheet and Income and Expenditure Account of the Board for the Financial Year 2015-16.

The proposal contained in Agenda Note was approved.

The meeting ended with thanks to all the participants.

3/2/22

ANNEXURE-I

LIST OF PARTICIPANTS

1. Sh. P. Raghavendra Rao
   Chairman, Haryana State Pollution Control Board,
   Panchkula.

2. Sh. Devender Singh, IAS
   Additional Chief Secretary to Government Haryana,
   Country Planning and Urban Estates Department.

3. Sh. Vijayendra Kumar, IAS
   Principal Secretary to Government Haryana,
   Industries and Commerce Department.

4. Sh. Navdeep Singh, IPS
   Principal Secretary to Government Haryana,
   Transport Department.

5. Mohammed Shayin, IAS
   Managing Director,
   Haryana Power Generation Limited, Panchkula

6. Sh. Vivek Saxena, IFS
   Managing Director,
   Haryana Forest Development Corporation, Panchkula

7. Sh. S. Narayanan, IFS,
   Member Secretary,
   Haryana State Pollution Control Board, Panchkula.

hc
3/7/22

AGENDA ITEM NO. 191.02

ACTION TAKEN ON THE MINUTES OF 190TH MEETING OF THE HARYANA STATE POLLUTION CONTROL BOARD ON 02.02.2022

Scanned with CamScanner

Agenda Item No. 191.2

Action taken on the Minutes of the 190th meeting of the Haryana State Pollution Control Board held on 02.02.2022.

The action taken report on the minutes of 190th meeting of the Board held on 02.02.2022 is as under:-

Agenda Item No. 190.1

Delegation of powers under the provisions of Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981 and Environment Protection Rules framed under the Environment Protection Act, 1986.

Decision taken has been put on Public Domain i.e. website of HSPCB for information and compliance by all concerned.

Agenda Item No. 190.2

Appointment of Board Analyst in Haryana State Pollution Control Board.

The proposal has been sent to the Government vide letter No. HSPCB/Estt./2022/738 dated 11.02.2022.

Agenda Item No. 190.3

Grant of Bonus / Ex-gratia / Short-term Incentives / token gifts to the Employees of Public Sector Undertakings - Ex-post facto approval.

No action is required to be taken.

Agenda Item No. 190.4

Amendment in procedure for obtaining consent to establish and consent to operate under Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 alongwith amended categorization of Red, Orange, Green and White category of Industrial/Non-Industrial Sector/Project/Unit – Ex-post facto approval.

Action has already been taken vide this office Order Endst. No. HSPCB/PLG/2020/1767-1795 dated 04.12.2020.

Agenda Item No. 190.5

Regarding to allow only those upcoming industrial units in NCR-Haryana which are using cleaner fuel namely, natural gas (PNG/CNG), liquefied petroleum gas, bio-gas, propane, butane etc. – Ex-post facto approval.

Action has already been taken vide this office Order Endst. No. HSPCB/PLG/2020/1/12624/2020 dated 28.12.2020.

Agenda Item No. 190.6

Regarding categorization of Industrial / Non-Industrial Sectors/Projects "Restaurants / Dhabas/ Motels/ Marriage Halls/ Banquet Halls/Party Lawns" under Consent Management of the Board based on waste water discharge and floor area – Ex-post facto approval.

Action has already been taken vide this office Order Endst. No. HSPCB/PLG/2021/22210-22264 dated 13.09.2021.

Agenda Item No. 190.7

To approve/adopt the Audited Balance Sheet and Income and Expenditure Account of the HSPCB for the Financial Year 2016-17.

Audited balance sheet of HSPCB for the financial Year 2016-2017 has been sent to the Government vide Letter No. HSPCB/Acctts/2022/1661 dated 14.03.2022.

Agenda Item No. 190.7 (S)

To approve/adopt the Audited Balance Sheet and Income and Expenditure Account of the HSPCB for the Financial Year 2015-16.

Audited balance sheet of HSPCB for the financial Year 2015-2016 has been sent to the Government vide Letter No. HSPCB/Acctts/2022/1661 dated 14.03.2022.

AGENDA ITEM NO. 191.03

TO CONDUCT PAPERLESS MEETINGS OF THE BOARD OF DIRECTORS OF HARYANA STATE POLLUTION CONTROL BOARD

Scanned with CamScanner

03/1

Agenda Item No. 191.03 **To conduct paperless meetings of the Board of Directors of Haryana State Pollution Control Board**

The Haryana State Pollution Control Board is mandated to enforce and implement the provisions of Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981 and also to enforce the various Rules framed under Environment Protection Act, 1986.

The Board is a statutory body and functions through the delegations or the rules framed under the Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981 and Environment Protection Act, 1986. As per the provisions of section 4 of the Water (Prevention and Control of Pollution) Act, 1974, the Board consists of Chairman, Five Official Members, Five Nominated Members representing local authorities, Three non official Members representing agriculture, fishery or industry or trade, Two Members to represent the Companies or Corporations owned, controlled or managed by the State Government and Member Secretary.

As per provisions of Section 8 of the Water (Prevention and Control of Pollution) Act, 1974, the Board shall meet at least once in every three months and observe such rules of procedure in regard to the transaction of business at its meetings as may be prescribed for the performance and functions of the Board.

The agenda for the meetings are prepared and forwarded to all the Members through physical mode. Uptill now, 190 meetings of Haryana State Pollution Control Board have been held and agenda items were sent to the Members through **OFFLINE** mode. Preparing and sending of agenda items through offline mode is a lengthy process which consumes significant stationary and time. Sometimes, agenda items reach the Members late and they may not get sufficient time to go through before the meeting.

Currently, technology has developed and meetings of the Board can be convened through ***ONLINE MODE*** and agenda items can be prepared and circulated digitally. During lockdown, meetings of the Board have been convened through online mode and agenda items were sent through email, in addition to supply of physical copies.

It is also necessary to inform the Hon'ble Members that work of the Board is mostly conducted in online mode and therefore, it is proposed that the agenda items of the Board may be done in paperless mode which will not only save time but also minimize the use of paper.

The paperless agenda can be forwarded to Members quickly and the Hon'ble Members could deliberate the same and send their views, even if they are unable to attend the meeting physically.

In view of above, it is proposed that agenda items for conducting the Board meeting may be circulated in paperless mode in future.

Submitted for consideration of Hon'ble Members and approval, please.

AGENDA ITEM NO. 191.04

REGARDING AMENDMENT IN QUALIFICATION OF BOARD'S ANALYST PRESCRIBED IN HARYANA (PREVENTION AND CONTROL OF WATER POLLUTION) RULES, 1978 AND HARYANA AIR (PREVENTION AND CONTROL OF POLLUTION) RULES, 1983

Scanned with CamScanner

File No.HSPCB-030001/58/2022-PLANNING CELL-HSPCB

104748/2022

04/1

Agenda item No. 191.4

Regarding amendment in qualification of board Anlyst prescribed in Haryana (Prevention and Control of Water Pollution)rules 1978 and Haryana Prevention and Control of Water Pollution)rules 1983

The Government of Haryana, in consultation with the Haryana State Pollution Control Board (HSPCB), has notified Haryana (Prevention and Control of Water Pollution) Rules, 1978, as amended in the year 1988, wherein the qualification of Board Analyst has been inserted at Rule 35A, asunder:-

35A. Qualification of Board Analyst-section 53(3).

A Board analyst shall be a person who-

(a) is a M.Sc. in Chemistry or has Bachelor Degree in Chemical Engineering or in Chemical Bio Engineering; and

(b) has practical experience of not less than five years in the analysis of water sewage or industrial wastes in the analysis of water sewage or industrial wastes in teaching or research or in Government Laboratory.

The Government of Haryana, in consultation with HSPCB, has notified Haryana Air (Prevention and Control of Pollution) Rules, 1983, wherein the qualification of Board Analyst has been prescribed at Rule 22, as under:-

22. Qualifications of Government /State Board Analyst, Section 29 (1) and (2)-

The qualification of the Government Analyst and State Board Analyst shall be as follows:-

At least II Class M.Sc. in Basic Sciences or Life Sciences or Earth Sciences with three years experience in environmental quality management.

The Government of Haryana, in consultation with HSPCB, notified the Haryana State Pollution Control Board (Group A, B, C & D) Service Regulations, 2004, wherein the qualifications of Scientist, Senior Scientific Assistants and Junior Scientific Assistants have been prescribed at Appendix B of said Rules and the relevant part is reproduced as under:-

Sr. No.	Designation of posts	Academic qualifications and experience, if any, for direct recruitment	Academic qualifications and experience, if any, for appointment other than by direct recruitment
	Scientist C	Ph. D. in Chemistry /Environmental Science with (Degree in Science) / Microbiology / Biochemistry / Biotechnology with 6 years' experience in the Central Pollution Control Board or any equivalent post in Government or reputed institute/industry (Large and Medium) or Central/State Government undertaking. OR M.Sc. in Chemistry/Environmental Science (Degree in Science)/ Microbiology/Biochemistry/Bio Science /Bio Technology Engineering in first division with at least 8 years' experience in the Central Pollution Control Board or any State Pollution Control or any State Pollution Control Board or in Government or reputed institute/ industry (Large and Medium) or Central/State Government undertaking.	By Promotion At least 8 years' service of the Board as Scientist B having minimum M.Sc. qualification. By Transfer or Deputation Ph. D. in Chemistry/Environmental Science (with Degree in Science) / Microbiology / Biochemistry / Chemical Engineering with 6 years' experience in the Central Pollution Control Board or any State Pollution Control Board or any equivalent post in Government or reputed institute/industry or Central/State Government undertaking, OR M.Sc. in Chemistry/Environmental Science (with Degree in institute/industry (Large and Medium) or Central/State Science)/Microbiology/Biochemistry/Bio Technology/Degree in Chemical Engineering in first division with at least 8 years' service in the Central Pollution Control Board or any State Pollution Control or in Government or reputed institute/industry or Central/State Government undertaking.

Scanned with CamScanner

04/2

5	Scientist B	M. Sc. in first division in the Chemistry / Biotechnology/ Micro-Biology/Bio Chemistry/ Environmental Sciences (with Degree in Science).	By Promotion With at least 5 years' service as Senior Scientific Assistant in the Board. By Transfer or Deputation M. Sc. in first division in Chemistry/Environmental Sciences (with degree in Science)/Botany/Micro Biology/Bio-Chemistry or degree in Chemical Engineering.
15	Senior Scientific Assistant	M. Sc. in the Chemistry/Environmental Sciences (with degree in Science)/Micro-Biology/Biochemistry/ Biotechnology Or B. Sc. in first division with one year experience in the lab engaged in Environmental Investigation, Testing or Analysis.	By Promotion 5 years' service in the Board as Junior Scientific Assistant By Transfer or Deputation M. Sc. in the Chemistry/Environmental Sciences (with degree in Science) /Micro-Biology /Bio Chemistry /Bio-Technology. Or B. Sc. in first division with one year experience in the lab engaged in Environmental Investigation, Testing or Analysis.
18	Junior Scientific Assistant	B. Sc. first division with Chemistry as one of the subjects.	By Transfer or Deputation B. Sc. in 1st division with Chemistry as one of the subjects.

A representation was received from Dr. Kirti Grow, Scientist-B (HQ), Dr. Monika, Scientist-B, Regional Office, Ballabgarh, Sh Aparnesh Kumar, Scientist-B, Laboratory In-charge, Hisar and Sh. Narender Hooda, Scientist-B, Laboratory In-charge, Faridabad with the request that section 35A of the Haryana (Prevention and Control of Water Pollution) Rules, 1978 and section 22 of the Haryana Air (Prevention and Control of Pollution) Rules, 1983 may be amended as per qualification prescribed for Scientist B/Govt. Analyst.

The Haryana (Prevention and Control of Water Pollution) Rules were framed in 1978 and qualification of Board Analyst was inserted in 1986 and the Haryana Air (Prevention and Control of Pollution) Rules were framed in 1983 and qualification was prescribed at that time itself. Thereafter, with the advancements in the field of science, numbers of branches of science were added.

The Haryana State Pollution Control Board (Group A, B, C & D) Service Regulations, 2004 were notified in 2004 and the posts of Scientist B, Senior Scientific Assistant and Junior Scientific Assistant had been filled as per qualifications prescribed under the Regulations. It is observed that the qualifications of scientific cadre posts prescribed in the Service Regulations, 2004 is not in consonance with qualification of Board Analyst as prescribed in the Haryana Water Rules, 1978 (as amended in 1988) and the Haryana Air Rules, 1983.

Differences in the qualifications of scientific cadre posts as prescribed in the Service Regulations, 2004 and the Haryana Water Rules, 1978 (as amended) and Haryana Air Rules, 1983 is resulting in shortage of Board Analysts.

The websites of CPCB and State Pollution Control Boards of Rajasthan and TN have been referred regarding qualification of Board Analyst and the details collected as under:-

Scanned with CamScanner

Name of PCB	Qualification of Board Analyst prescribed under respective Water Rules	Qualification of Board Analyst prescribed under respective Air Rules
central Pollution Control Board	Essential:- (i) M.Sc. Degree in Chemistry or equivalent or Bachelor Degree in Chemical Engineering or Bio-chemical Engineering; and (ii) 10 years' experience in analysis of water, sewage or industrial wastes in teaching, research or Government Laboratory. Desirable.- (i) Doctorate Degree in Chemistry or Bio-chemistry or Master's Degree in Chemical Engineering or Bio-chemical Engineering; (ii) Evidence of published papers in the field.	A person to be appointed as Government Analyst or Board Analyst shall hold at least a Second Class Masters Degree in Basic Science or Life Science and 3 years experience in environmental quality management.
Rajasthan Pollution Control Board	a. Graduate in science from a recognized University with five years experience in laboratory, engaged in environmental investigation, testing or analysis; or b. Post graduate in science or a graduate in engineering or a graduate in medicine or equivalent with two years experience in a laboratory, engaged in environmental investigation, testing or analysis; or c. Post graduate in environmental science from a recognized University with two years experience in laboratory, engaged in environmental investigation, testing or analysis.	a. Graduate in science from a recognized University with five years experience in laboratory, engaged in environmental investigation, testing or an alysis; or b. Post graduate in science or a graduate in engineering or a graduate in medicine or equivalent with two years experience in a laboratory engaged in environmental investigation, testing or analysis; or c. Post graduate in environmental science from a recognized University with two years experience in laboratory, engaged in environmental investigation, testing or analysis.
Tamil Nadu Pollution Control Board	ii. Post - graduate or Honours Degree of any University in Chemistry, Biology or Microbiology or equivalent qualification on anyone or more of these subjects from any University or Institution recognized by the University or Institution recognized by the University Grants Commissions as equivalent; and iii. Experience is laboratory for a period not less than five years in the physical, chemical and bacteriological analysis of Water and waste water and a thorough knowledge of the maintenance of such laboratory; Provided that preference shall be given to holders of Ph.D. in Chemistry, Biology or Microbiology if they have requisite experience.	Post graduate degree with at least second class in any one of the subjects, namely, Chemistry, Physics, Botany, Zoology-Special, Micro-Biology, Marine Biology, Bio Chemistry, Environmental Toxicology, Environmental Chemistry of any University or Institution recognized by the University Grant Commission: Provided preference shall be given to holders of Ph.D. in any of the subjects mentioned above

Scanned with CamScanner

04/4

In view of above, it was felt necessary to amend the existing qualification of Board Analyst as prescribed in Rule 35A of the Haryana (Prevention and Control of Water Pollution) Rules, 1978 and Rule 22 of the Haryana Air (Prevention and Control of Pollution) Rules, 1983 as under:

a. *Bachelor of Science (B.Sc.) (with Chemistry as one of the subjects) from a recognized University, with ten years experience in the Board's Laboratory; or*

b. *Master of Science (M.Sc.) Chemistry / Bio-Technology / Microbiology / Bio-Chemistry / Environmental Sciences (with Bachelor Degree in Science) or Bachelor Degree in Chemical Engineering or Bio Chemical Engineering or Environmental Engineering, with five years experience in the Board's Laboratory; or*

c. *Doctorate Degree (Ph.D) in Chemistry / Bio-Technology / Bio-Chemistry / Micro Biology/ Environmental Sciences / Environmental Engineering, with three years experience in the Board's Laboratory;*

It is, therefore, proposed that the Board may approve the above proposal to amend the Haryana (Prevention and Control of Water Pollution) Rules, 1978 and the Haryana Air (Prevention and Control of Pollution) Rules, 1983, after which the case will be sent to the Government for their approval.

****

Scanned with CamScanner

16/2022/Planning Cell-HSPCB

04/5

THE TAMILNADU WATER (PREVENTION AND CONTROL OF POLLUTION) RULES, 1983

Scanned with CamScanner

THE TAMIL NADU WATER (PREVENTION AND CONTROL OF POLLUTION) RULES, 1983

(G.O. Ms. No. 2, Environment Control, dated 26th September 1983)

NO. SRO A-236 (a)/83.- In exercise of the powers conferred by section 64 of the Water(Prevention and Control of Pollution)Act, 1974(Central Act 6 of 1974),the Governor of Tamil Nadu, after consultation with the Tamil Nadu Pollution Control Board, hereby makes the following rules, namely :-

CHAPTER - I

PRELIMINARY

1. Short title and commencement :- (1) These rules may be called theTamil Nadu Water (Prevention and Control of Pollution). Rules, 1983.

(2) 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(Central Act 6 of 1974):

(b) "Board" means the Tamil Nadu Pollution Control Board constituted under Section 4;

(c) "Chairman" means the Chairman of the Board;

Scanned with CamScanner

7-16/2022/Planning Cell-HSPCB

04/7

CHAPTER VIII

FURNISHING OF INFORMATION RELATING TO ACCIDENTS, ETC.

28. Furnishing of information under Section 31 (1). - Every person incharge of any place where any industry or trade is being carried on shall, on the happening of any accident, unforeseen act or event as contemplated in sub-section (1) of Section 31, forthwith intimate the occurrence thereof to the Board, the Collector of the District, the Revenue Divisional Officer, the District Health Officer, the Executive Authority of the municipal or local body concerned and the nearest police station.

[CHAPTER VIII -A

ANALYST

28.A. Qualification of Board Analyst. - No person shall be eligible for appointment as Board Analyst in any laboratory established or recognised under sub-section (2) of Section 17 of the Act unless he has the following qualifications, namely :-

(i) Post-graduate or Honours Degree of any University in Chemistry, Biology or Microbiology or equivalent qualification in anyone or more of these subjects from any University or Institution recognised by the University or Institution recognised by the University Grants Commission as equivalent; and

(ii) Experience in a laboratory for a period of not less than five years in the physical, chemical and bacteriological analysis of water and waste water and a thorough knowledge of the maintenance of such a laboratory.

1. Inserted by G.O.M.S. No. 24, Environment and Control dated 8th June 1984.

Scanned with CamScanner

6716/2022/Planning Cell-HSPCB

Provided that preference shall be given to holders of Ph.D. in Chemistry, Biology or Microbiology if they have the requisite experience.

28-B. Qualifications of Government Analyst. - No person shall be eligible for appointment as Government Analyst in any laboratory established or specified under sub-section (1) of Section 52 of the Act, unless he has the following qualification, namely :-

(i) Post - graduate or Honours degree in Chemistry of any University or Institution recognised by the University Grants Commission for the purpose of its grant and evidence of having undergone a course of studies in Botany and Zoology during the collegiate course.

(ii) Experience in laboratory for a period of not less than five years in the physical, chemical and bacteriological analysis of water and waste water and a thorough knowledge on the maintenance of such a laboratory.

[1][28-C, Fees payable for Laboratory's report, - Fees payable for Laboratories report on the analysis of tests of samples of water or of sewage or trade effluent shall be as specified in the Annexures I and III to this rule.

ANNEXURE-I

FEES FOR INDUSTRY-WISE LABORATORY ANALYSIS REPORT.

Serial No. 1.	Name of the Industries 2.	Fees. 3.
01	Aluminium	1,040.00
02	Asbestos	845.00
03	Beverages	715.00

1. Substituted by G.O. Ms. No. 298 Environment and Forests (ECI) 3rd December 1996.

Scanned with CamScanner

6/2022/Planning Cell-HSPCB

0419

86/169

THE TAMILNADU AIR (PREVENTION AND CONTROL OF POLLUTION) RULES, 1983

Scanned with CamScanner

6716/2022/Planning Cell-HSD

TAMIL NADU AIR(PREVENTION AND CONTROL OF POLLUTION) RULES, 1983

(G.O. Ms No. 3, Environment Control, dated 27th September, 1983)

No.SRO A - 236/83- In exercise of the powers conferred by section 54 of the Air (Prevention and Control of Pollution) Act 1981, (Central Act 14 of 1981) the Governor of Tamil nadu after consultation with the Tamil Nadu Pollution Control Board, hereby makes the following rules namely:-

CHAPTER 1

PRELIMINARY

1. Short title and commencement - (1) These rules may be called the Tamil Nadu Air (Prevention and Control of Pollution) Rules, 1983;

(2) They shall come into force at once.

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

(a) "Act" means the Air (Prevention and Control of Pollution) Act, 1981 (Central Act 14 of 1981);

(b) "Appellate Authority" means the Appellate Authority constituted by the Government under sub-section (1) of Section 31;

(c) "Board" means the Tamil Nadu Pollution Control Board;

(d) "Board Laboratory" means a laboratory established or recognised as such under sub-section (2) of Section 17;

(e) "Chairman" means the Chairman of the Board;

(f) "Committee" means a committee constituted under

Scanned with CamScanner

1816716/2022/Planning Cell-HSPCB

04/11

CHAPTER VI

AUTHORITIES OR AGENTS TO WHOM INFORMATION UNDER SECTION 23(1) IS TO BE FURNISHED

10. Furnishing of information by the occupier under Section 23(1).- Every person in charge of the industrial plant or occupier of the premises from where,due to an accidental break down of some processes or installations or otherwise, an emission occurs or is apprehended to occur in excess of the standards laid down by the Board shall forthwith intimate the fact of such occurrence or the apprehension of such occurrence to the Board, the Collector of the district, the Revenue Divisional Officer, the District Health Officer, the executive authority of the municipal or local body concerned and the nearest police station.

[1] CHAPTER VI-A

ANALYSTS

[10-A. Qualification for the post of Board and Government Analyst.- No person shall be eligible for appointment to the post of Board Analyst in any Laboratory established or recognised under sub-section (2) of Section 17 or Government Analyst in any laboratory established or recognised under sub-section (1) of section 28 of the Act unless he possess the following qualification, namely:-

Post Graduate Degree with at least second class in any one of the subjects, namely, Chemistry, Physics, Botany, Zoology-Special, Micro-Biology, Marine Biology, Bio Chemistry, Environmental Toxicology, Environmental Chemistry of any University or Institution recognised by the University Grants Commission :

Provided that preference shall be given to holders of Ph.D. in any of the subjects mentioned above.]

1 Chapter VI-A and Rule 10-A inserted by G.O. Ms. No. 3, Environment Control dated 4th March 1986

Scanned with CamScanner

816716/2022/Planning Cell-HSPCB

04/12

राजस्थान राज-पत्र
विशेषांक
साधिकार प्रकाशित

Regd. No. RJ. 2777/93
RAJASTHAN GAZETTE
Extraordinary
Published by Authority

सत्यमेव जयते

फाल्गुन 17, बुधवार, शाके 1916—मार्च 8, 1995
Phalguna 17, Wednesday, Saka 1916—March 8, 1995

भाग 4 (ग)

उप-खण्ड-1

राज्य सरकार तथा अन्य राज्य प्राधिकारियों द्वारा जारी किये गये (सामान्य आदेशों, उप-विधियों आदि को सम्मिलित करते हुए) सामान्य कानूनी नियम ।

DEPARTMENT OF ENVIORNMENT

NOTIFICATION

Jaipur, 8th March, 1995

G.S.R. 131:—In exercise of the powers conferred by Section 64 of the Water (Prevention and Control of Pollution) Act, 1974 (Central Act No. 6 of 1974), the State Government after consultation with the Rajasthan State Pollution Control Board, hereby makes the following Rules further to amend the Rajasthan Water (Prevention and Control of Pollution) Rules, 1975 namely:—

1. Short title and commencement:—

(i) These Rules may be called the Rajasthan Water (Prevention and Control of Pollution) Amendment Rules, 1995.

(ii) They shall come into force from the date of their publication in the official Gazette.

2. In clause (b) of Rule 2 of the Rajasthan Water (Prevention and Control of Pollution) Rules, 1975 hereinafter referred to as the "said rules", for the words "Rajasthan State Board for Prevention and Control of Water Pollution" occurring in the end, the words "Rajasthan State Pollution Control Board" shall be substituted.

3. In rule 5 of the said rules:—

(i) In sub-rule (1) for the expression "Rs. 50/-" the expression "Rs.100/-" shall be substituted and for the expression "Rs. 15/-" the expression "Rs. 30/-" shall be substituted.

(ii) In sub-rule (2) for the expression "Rs. 50/-" the expression "Rs. 60/-" shall be substituted and for the expression "Rs. 50/-" the expression "Rs. 100/-" shall be substituted.

(iii) In sub-rule (3) for the expression "Rs. 15/-" the expression "Rs. 30/-" shall be substituted.

4. In rule 6 of the said rules:

Scanned with CamScanner

716/2022/Planning Cell-HSPCB

(i) For sub-rule (2), following sub rule shall be substituted namely:—

"(2) The Chairman may undertake tours within Rajasthan or outside Rajasthan within the territories of India for carrying out the functions of the Board."

(ii) In sub-rule (3) the word "appointment" shall be inserted between the words "powers in matters of" and promotion".

(iii) For sub-rule (4) following sub-rule shall be substituted namely:—

"(4) The Chairman shall have full powers in the mat acceptance of tenders".

5. In rule 7 of the said rules for the proviso to sub-rule (1) the following proviso shall be substituted, namely:—

"Provided that for creation of the posts above the rank of Enviornmental Engineer or any other post equivalent thereto the Board shall obtain prior sanction of the State Government".

6. In the said rules sub-rules (8) and sub-rules (10) of rule 8 shall be omitted.

7. In rule 17 of the said rules.

(i) In sub-rule (1) for the words "in the month of October of each year for approval" the words and figures "before 31st. December of each year for approval" shall be substituted.

(ii) For sub-rule (2) the following sub-rule shall be substituted namely:—

"(2) After approval of the budget estimates by the Board, four copies of the approved budget proposals with copies of schedules shall be furnished to the State Government forthwith".

8. For rule 21 of the said rules, the following rule shall be substituted, namely:—

"21. The fund of the Board shall be operated by the Member Secretary of the Board or by any other officer of the Board who may be so empowered, subject to such conditions as may be laid down, by the State Board."

9. In rule 22 of the said rules for the words and figures "the 15th of May each year" the words and figures "the 30th of September each year" shall be substituted.

10. In the said rules after rule 25, following new rule 25A shall be added, namely:—

"25A. Qualification for Government or State Board Analyst:—A person shall not be qualified for appiontment or recognised as a Government analyst or a Board analyst as

Scanned with CamScanner

the case may be under sub-sec (2) or sub-section (3) of sec 53 of the Act, unless he is a:—

(a) Graduate in science from a recognised university with five years experience in laboratory, engaged in environmental investigation, testing or analysis; or

(b) Post graduate in science or a graduate in engineering or a graduate in medicine or equivalent with two years experience in a laboratory, engaged in environmental investigation, testing or analysis; or

(c) Post graduate in environmental science from a recognised university with two years experience in a laboratory engaged in environmental investigation, testing or analysis.

11. In rule 27 of the said rules:—

(a) For the words "stream or well" wherever occurring, the words "stream or well or sewer or on land" shall be substituted.

(b) For the words "from any plant" the words "from any plant or outlet" shall be substituted.

12. For rule 29 of the said rules, the following shall be substituted, namely:—

"29. (1) Application of consent.—An application for obtaining the consent of the State Board.

(a) For establishing or taking any steps for establishing any industry, operation or process or any treatment and disposal system, or any extension or addition thereto, which is likely to discharge sewage or trade effluent into a stream or well or sewer or on land under section 25 of the Act or;

(b) For bringing into use any new or altered outlet for the discharge of sewage or trade effluent into a stream or well or sewer or on land under Section 25 of the Act or;

(c) For making any new discharge of sewage or trade effluent into a stream or well or sewer or on land under section 25 of the Act or for continuing the existing discharge of sewage or trade effluent into a stream or well or sewer or on land under section 26 of the Act shall be made to the State Board in Form No. XIII or Form No. XIII-A as the case may be.

(2) Such application shall be accompanied by the fees as prescribed in Schedule IV.

Scanned with CamScanner

16/2022/Planning Cell-HSPCB

(3) An application not accompanied with the prescribed fee shall not be entertained by the Board.

(4) The Fee shall be paid through Bank Draft payable in favour of the Member Secretary, Rajasthan State Pollution Control Board, Jaipur.

13. In the said rules after rule 30, following new rules 30-A and 30-B shall be added, namely:—

30-A Directions.

(1) Any direction issued under section 33 A shall be in writing.

(2) The direction shall specify the nature of action to be taken and the time within which it shall be complied with by the person, officer or the authority to whom such direction is given.

(3) The person, officer or authority to whom any direction is sought to be issued, shall be granted an opportunity of being heard.

Provided that where the State Board is of the opinion that in view of the likelihood of a grave injury to the environment, it is not expedient to provide an opportunity of being heard, it may for reasons to be recorded in writing, issue direction without providing such an opportunity.

(4) Where the direction is for the stoppage or regulation of electricity or water or any other service affecting the carrying on of any industry, operation or process, a copy of the direction shall also be endorsed to the occupier of the industry, operation or process.

30-B. Manner of giving notices.

(1) the manner of giving notice under clause (b) of sub-section (1) of section 49 shall be as follows, namely:—

(i) The notice shall be in writing in Form No. XV

(ii) The person giving notice may send it to (a) The Member Secretary, Rajasthan State Pollution Control Board, Jaipur or (b) Any other officer authorised by the Board in this behalf.

(iii) Notice shall be sent by registered post with acknowledgement due.

(2) The period of sixty days mentioned in clause (b) of sub-section (1) of section 49 shall be reckoned from the date of its first receipt by one of the authorities mentioned above.

14. In the said rules for the existing expression "State Board for Prevention & Control of Water Pollution" wherever occurring in Form Nos. I to XII and XIV the expression "Rajasthan State Pollution Control Board" shall be substituted.

Scanned with CamScanner

B16716/2022/Planning Cell-HSPCB

04/16

15. In the said rules for Form No. XIII, the following shall be substituted, namely:—

FORM NO. XIII

APPLICATION FOR CONSENT TO ESTABLISH

(TO BE SUBMITTED IN TRIPLICATE)

(See rule 29)

Application for consent to establish industry, operation or process or any treatment and disposal system under section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974.

From:.....

..... Dated.....

To,

Sir,

I/We hereby apply for consent under section 25/26 of the water (Prevention and Control of Pollution) Act 1974 (No. 6 of 1974) for establishing or taking any steps for establishment of industry/operation/process or any treatment/disposal system on land/premises owned by..... The other relevant details are as below:—

PART-I, General:

a. Name of Industry

b. Address

c. Location (also enclose copy of land allotment/land conversion order and site map)

d. Category of Industry (Red/Orange/Others)

e. Scale of Industry (Large/Medium/Small)

f. Whether the unit would generate hazardous waste as defined in the Hazardous Wastes (Management and Handling) Rules, 1989. If so, the Category No.

PART-II, Surrounding Details:

a. Area of land proposed to be acquired (in square meter).

b. which of the following features exist within 25 kms. of the site:

(i) Human settlement (specify population)

(ii) Forest/Sanctuary/National Park/Hill Resort/National Monument.

(iii) Nallah/Stream/River/pond/Lake/Dam/any other water body.

(iv) Industries, specify.

Scanned with CamScanner

04/17

94/169

5716/2022/Planning Cell-HSPCB

PART-III, Process Details:

a. Manufacturing process with flow diagram.

b. Details of Raw Materials, Products, By Products and Storage capacity:—

S.No.	Particulars	Name	Nature	Quantity (unit/day)
1	2	3	4	5
(i)	Raw Materials			
(ii)	Products			
(iii)	By Products			
(iv)	Hazardous Chemicals			

c. Energy consumption

d. Details of Fuel

S.No.	Plant/Auxiliary Machines where Fuel is Used	Name and quantity(TPD) Coal, Diesel other (Specify)
1	2	3.
(i)		
(ii)		
(iii)		

PART-IV, Water pollution (Process-wise):

a. Water consumption per day

(i) Boiler/Cooling/Industrial spray/Mining

(ii) Domestic

(iii) Industrial process

b. Total waste water generation per day.

c. Total waste water discharge per day.

d. Water balance.

e. Indicate waste water and sludge characteristics, before and after treatment (physical/chemical).

f. Type of treatment proposed to be adopted (enclose details, design and schematic diagram).

g. How do you propose to discharge the waste water (specify mode of disposal).

h. What method do you propose to adopt for treatment, handling & disposal of sludge.

Scanned with CamScanner

816716/2022/Planning Cell-HSPCB

04/18

PART-V, Details of Air Pollutants:

S.No.	Stack attached to plant	Stack Details Temp. (C°)	Dia Int. (m)	Volume (NM³/Hr)	Pollution Concentration SPM Others (Mg/NM³)
(i)					
(ii)					
(iii)					

NOTE:—Enclose lay out plan indicating location of each stack.

PART-VI, Sludge/Solid Waste/Hazardous Waste (Process-wise) and their proposed treatment.

a. Total quantity of wastes (kg/day)

b. Nature of wastes

c. Method Proposed for treatment & disposal

PART-VII, Other types of Pollution:

a. Is your industry likely to cause noise pollution? If so, what measures are proposed to be taken?

b. Is your industry likely to cause any other pollution? If so, what measures are proposed to be taken?

PART-VIII, Management of Pollution Control:

a. Give details of the organisational set up proposed for pollution control and monitoring.

PART-IX, Cost of pollution Control Measures:

a. Total capital expenditure proposed for pollution control.

b. Annual recurring expenditure.

c. Has any financial outlay been proposed in the Project Report for pollution control measures? If so, mention the cost.

1. I/We declare that the information furnished above is correct to the best of my/our knowledge.

2. I/We undertake to furnish any other information within one month of its being called by the State Board.

I/We enclose herewith Bank Draft No.—— Dated—— for Rs.—— (Rs. in words——) in favour of the Member Secretary, Rajasthan State Pollution Control Board, payable under Section 25/26 of the Act.

Yours faithfully,

Signature——

Name——

Designation——

Applicant

Scanned with CamScanner

6/2022/Planning Cell-HSPCB

16. In the said rules after form No. XIII, following new form No. XIII-A shall be added, namely:—

FORM NO.XIII-A

APPLICATION FOR CONSENT TO OPERATE
(TO BE SUBMITTED IN TRIPLICATE)
(See rule 29)

Application for consent to discharge or continue to discharge sewage or trade effluent under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974.

From : _____ Date

_____

To : _____

_____

Sir,

I/We hereby apply for Consent/Renewal of Consent under Section 25 or Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 (No. 6 of 1974) for bringing into use any new/altered outlet or for discharge of sewage/trade effluent or to continue to discharge sewage/trade effluent on land/premises owned by ..... The other relevant details are as follows:—

PART-A, GENERAL

1. Full Name of the owner/Occupier:
2. Name, address, telephone numbers and fax of the applicant. The list of individuals, partners, Chairman (Full time or Part time), Managing Director/Manager (Full time or Part time) & other office bearers with their telephone nos. and addresses.
3. Name and Address of the Unit and its Location.
4. Category and scale of Industry.
   (a) Red/Orange/Others
   (b) Large/Medium/Small
5. Number of employees within factory premises and in it Colony.
6. Raw material

Name	Quantity (TPD)
(a)	
(b)	
(c)	

7. Products and by-products (TPD)

Name	Product quantity	By-product quantity
(a)		
(b)		
(c)		

8. Installed capacity of the plant.

Scanned with CamScanner

1816716/2022/Planning Cell-HSPCB

97/16

04/20

9. Date of commissioning.

10. Storage capacity of raw materials/products/by-products

Item	Storage Quantity (tonne/cubic meter)
(a) Raw materials	
(b) Product	
(c) By-product	

11. Management plan.

(a) Maintenance schedule of control equipment or effluent treatment plant.

(b) Particulars of environmental cell/Laboratory.

12. Details of licence, if any, obtained under the provisions of the Industrial (Development and Regulation) Act, 1951.

PART-B, Pertaining to Sewage and Trade Effluent

13. Water consumption

Source	Consumption (KLD)
(a) Boiler/Cooling etc.	
(b) Domestic	
(c) Industrial process	

14. Waste Water Generation

Source (Specify Process)	Quantity (KLD)
(a)	
(b)	
(c)	

15. Effluent treatment plant (enclose separate sheet for details)

(a) Type

(b) Date of installation

(c) Cost of treatment plant

(d) Recurring cost of maintenance

(e) Performance of treatment plant with respect to standards laid down by the Board.

Part-C, Pertaining to hazardous waste and hazardous chemicals.

16. (a) Total quantity of generation (Kg/day):

(b) Nature of hazardous waste, as defined under the Environment (Protection) Act, 1986 (See the Hazardous Wastes (Management and Handling) Rules, 1989):

Scanned with CamScanner

716/2022/Planning Cell-HSPCB

04/21

(c) Mode of storage within the plant, method of disposal and any other information sought by the State Board.

17. (a) Hazardous Chemicals as defined under the Environment (Protection) Act, 1986 (See the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989).

(b) Whether any isolated storage is involved ? if yes, enclose details.

(c) Whether emergency plans are prepared for taking-

(i) on site measures

(ii) off site measures.

18. I/We declare that the information furnished above is correct to the best of my/our knowledge.

19. I/We hereby submit that in case of change either of the point or the quantity of discharge or its quality, a fresh application for consent shall be made and until such consent is granted, no change shall be made.

20. I/We hereby agree to submit to the State Board an application for renewal of consent one month in advance of the date of expiry of the consented period for outlet/discharge, if to be continued thereafter.

21. I/we undertake to furnish any other information within one month of its being called by the State Board.

I/We enclose herewith Bank Draft No. ..... dated: .....
for Rs. ..... (Rs. in words .....
in favour of the Member Secretary. Rajasthan State Pollution Control Board, payable under Section 25/26 of the Act.

Yours Faithfully

Signature .....

Name .....

Designation .....

APPLICANT

Scanned with CamScanner

816716/2022/Planning Cell-HSPCB

17. In the said rules, after Form No. XIV, the following new Form No. XV shall be added, namely:—

FORM NO. XV

(see rule 30 B)

From (1). .....
.....
.....

By Regd. Post A. D.

To,
.....
.....
.....

Notice under Section 49 (1)(b) of the Water (Prevention and Control of Pollution) Act, 1974.

Whereas an offence under the Water (Prevention and Control of Pollution) Act, 1974 has been committed/is being committed by (2) .....

I/We hereby give notice of 60 days under section 49 (1) (b) of the Water (Prevention & control of Pollution) Act 1974 of my/our intention to file a complaint in the court against (2) ..... for violation of section (s) of the Water (Prevention and Control of Pollution) Act, 1974.

In support of my/our notice, I/We are enclosing the following documents (3) as evidence of proof of violation of the Water (Prevention and Control of Pollution) Act, 1974.

(Signature (s)

Place: .....

Date: .....

Explanation:—

(1) in case of the notice is given in the name of a company, documentary evidence authorising the person to sign the notice on behalf of the company shall be enclosed to this notice. Company for this purpose means a Company defined in explanation to Section 47 of the Water (Prevention and Control of Pollution) Act, 1974.

(2) Here give the name and address of the alleged offender. In case of a manufacturing/processing/operating unit, indicate the name/location/nature of activity etc.

(3) Documentary evidence shall include photographs/ Technical reports, health reports of the area etc. for enabling enquiry into the alleged violation/offence.

Scanned with CamScanner

18. In the said rules, for schedule III following schedule shall be substituted, namely:—

SCHEDULE III

(See rule 22)

RAJASTHAN STATE POLLUTION CONTROL BOARD JAIPUR

ANNUAL REPORT FOR THE FINANCIAL YEAR

APRIL 19 TO MARCH 31, 19

CHAPTER-1.	Introduction
CHAPTER-2.	Constitution of the Board including changes therein.
CHAPTER-3.	Meeting of the Board with major decisions taken therein.
CHAPTER-4.	Committees constituted by the Board and their activities.
CHAPTER-5.	Monitoring Network for air, water and soil quality.
CHAPTER-6.	Present status of environment, environmental problems and counter measures.
CHAPTER-7.	Environmental Research.
CHAPTER-8.	Environmental Training.
CHAPTER-9.	Environmental Awareness and public participation.
CHAPTER-10.	Environmental standards including time schedule for their enforcement.
CHAPTER-11.1	Prosecutions launched and convictions secured for environmental pollution control.
CHAPTER-11.2	Directions given for closure of polluting industrial units.
CHAPTER-12.	Finance and Accounts of the Board.
CHAPTER-13.	Annual plan of following year.
CHAPTER-14.	Any other important matter dealt with by the State Board.

Scanned with CamScanner

04/24

ANNEXURES

1. Members of the Board
2. Organisation Chart
3. Staff Strength including recruitment.
4. Publications
5. Training Courses/Seminars/Workshops organised or attended
6. Consents to establish industries, operations & processes issued/refused.
7. Consents to operate industries operations & processes issued/refused.

19. In the said rules after schedule III following newschedule IV shall be added, namely:—

SCHEDULE IV

(See rule 29)

S. No.	SLAB: AVERAGE WATER CONSUMPTION PER DAY (In Kilo Liters)	CONSENT FEES (In Rupees) FEES TO ESTABLISH	FEES TO OPERATE
1.	50 or below	500	250
2.	More than 50 but upto 200	2000	1000
3.	More than 200 but upto 1,000	5000	2500
4.	More than 1000 but upto 10,000	10000	5000
5.	More than 10000 and above	20000	10000

By Order of the Governor,

(ललित कोचरी)

Secretary to the Government.

Government Central Press, Jaipur.

Scanned with CamScanner

AGENDA ITEM NO. 191.05

AMENDMENT IN WATER (PREVENTION AND CONTROL OF POLLUTION) RULES, 1978 – REGARDING TERMS AND CONDITIONS OF SERVICE OF CHAIRMAN, HARYANA STATE POLLUTION CONTROL BOARD

Scanned with CamScanner

05/1

Agenda Item No. 191.05

Amendment in Water (Prevention and Control of Pollution) Rules, 1978- regarding Terms and Conditions of Service of Chairman, Haryana State Pollution Control Board.

The Chairman, Haryana State Pollution Control Board is appointed under Section 4 (2)(b) of the Water (Prevention and Control of Pollution) Act, 1974 by the State Government. The Government under section 64 of the Water (Prevention and Control of Pollution) Act, 1974 prescribed condition of service of the Chairman, Haryana State Pollution Control Board which includes qualification, pay scale and tenure under Water Rules, 1978 which has been amended vide Notification No. S.O.80/C.A.6/1974/S.64/2019 dated 20th November, 2019. As per section 5 of Water (Prevention and Control of Pollution) Act, 1974, the term of Chairman, HSPCB is three years.

Whereas, the Haryana State Pollution Control Board is a statutory body constituted under Central Act No. 6 of 1974 and the Chairman of Board performs statutory and other duties as prescribed and delegated to him from time to time in the interest of the State. The Chairman, HSPCB may be a serving or retired officer equivalent to the rank of Principal Secretary or above from State/Central Government. If the Chairman is a serving officer, he is entitled to avail leave as available to him in his parent department, but if he is a retired person, he can avail the benefits as per the Water (Prevention and Control of Pollution) Rules, 1978, but in these Rules, there is no provision of Earned Leave for Chairman, HSPCB.

The office has perused the Water Rules of Central Pollution Control Board regarding terms and conditions of service of Chairman, Central Pollution Control Board which provides that the Chairman, CPCB will be entitled such leave applicable to officer belonging to the corresponding pay-scale stationed at those places.

The office has further perused the rules of statutory bodies constituted by the Haryana Government i.e. State Election Commission and Haryana Electricity Regulatory Commission wherein following provisions to grant earned leave are provided:-

Haryana State Election Commission:

Any person who is appointed as the State Election Commissioner may be granted leave by Governor in accordance with such rules as are for the time being applicable to the members of the service to which he/she earlier belonged.

Haryana Electricity Regulatory Commission:

The Chairman and members shall be entitled to earned leave at the rate of 15 days for every 6 months of completed service. In addition, they would be entitled

05/2

to casual and other leaves as admissible to the corresponding grade officers of the Indian Administrative Service posted in the State.

Section 5(9) of the Water (Prevention and Control of Pollution) Act, 1974 provides that the terms and condition of the Chairman shall be such as may be prescribed.

The Chairman, HSPCB may need casual and earned leave for any personal purpose, but in the Water (Prevention and Control of Pollution) Rules, 1978, there is no such provision. Therefore, as provided in the Water Rules of CPCB, Haryana State Election Commission and Haryana Electricity Regulatory Commission, the following provision regarding earned leave for Chairman, HSPCB may be made:

"The Chairman, HSPCB shall be entitled to earned leave at the rate of 15 days for every 6 months of completed service. In addition, he would be entitled to casual and other leaves as admissible to the corresponding grade officers of the Service posted to which he/she earlier belonged."

In view of above, the proposed amendment may be considered and approved by the Board, so that the case may be sent to Government for making amendment in the Water (Prevention and Control of Pollution) Rules, 1978 and Air (Prevention and Control of Pollution) Rules, 1983 as per the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

AGENDA ITEM NO. 191.06

AMENDMENT OF FINANCIAL POWER DELEGATED AT SERIAL NO. 25 & 26 OF THE FINANCIAL POWERS DELEGATION BY THE BOARD IN ITS 174TH MEETING

Scanned with CamScanner

06/1

Agenda Item No. 191.6

Amendment of financial power delegated at serial No. 25 & 26 of the financial powers delegation by the Board in its 174th meeting.

Financial powers were delegated by the Board in its 174th meeting held on 12.01.2016 by approving the agenda item no. 174.4 at Sr. No. 25 & 26 and the same were issued vide letter No. HSPCB/Estt./2016/1236-65 dated 18.01.2016 (**ANNEXURE-I**), as under:

Sr. No	Nature of Power	Extent of powers delegated
25 & 26	Purchase of chemicals and glass ware/ Repair of Lab Instruments etc and Repair of Lab Equipment / instrument	1. Chairman/ Member Secretary - full powers 2. Senior Environmental Engineer/ Senior Scientist/ Environmental Engineer/ Scientist-C/ Regional Officers up to Rs. 20,000/-

It has been noticed that the above said powers are delegated on the basis of designation and not to the laboratory In-charge. Presently, in all laboratories of the Board, Scientist-B are working as laboratory In-charge. Due to the above mentioned delegation, Scientist-B holding the charge of laboratory In-charge have to take the approval from Head Office for all types of purchases, fee, repair of instruments and other items / materials required in the laboratory and this process is causing delay and affecting the smooth working of laboratories.

It has also been noticed that the above financial powers were delegated in 2016 and during these 5 years, there is hike in price of the chemicals, instruments & other items required in laboratories.

The Board has four laboratories for analysis of parameters, out of which only one is NABL accredited. It has

been desired to upgrade the laboratories with latest equipment and instruments to improve quality of their functioning and get accreditation of NABL and MoEF.

It has been further noticed that due to increase in number of units and various NGT orders, monitoring work of industries, ground water & water bodies have increased many fold and resultantly requirement of the items for testing of samples in laboratories have also been increased. Therefore, it was felt necessary to extend the financial power of Rs. 20,000/- to Rs. 50,000/-, along with delegation to laboratory in-charges, to meet out the main requirement of laboratories.

In view of details given above, the previous financial powers delegated by the Board in its 174th meeting at serial no 25 & 26 and issued vide letter No. HSPCB/Estt./2016/1236-65 dated 18.01.2016 was amended and issued vide order no. I/85316/2021(21) dated 28.12.2021, as per the table given below :-

Sr. No.	Nature of Power	Extent of powers delegated
25 & 26	i. Purchase of chemicals and Glass ware etc:- (Purchase of chemicals / Glass wares / Instruments & Equipment / Book for Standards Methods for sampling, analysis & management of laboratory (like APHA, IS/ IEC/ ISO Standards etc) / Gases required for operation of instruments / Thimble / Filter Papers / Fire Extinguishers / Testing Table / Electrical appliances and its maintenance / wiring etc.)	1. Chairman/ Member Secretary full powers. 2. Up to Rs. 50,000/- at a time to Laboratory In-charges 3. Senior Environmental Engineer/ Senior Scientist/ Environmental Engineer/ Scientist-C up to Rs.20,000/- 4. Up to Rs. 20,000/- at a time to Regional Officer for repair and calibration of monitoring equipment i.e. stack monitoring kit, ambient air

	ii. Repair of Lab Equipment/ Instrument etc: - (Repair and calibration of Lab Instruments & Equipment /Glass Wares/ Fire Extinguishers / Testing Tables / stack monitoring kit & ambient air monitoring kit / sampler / noise meter etc. Payment of NABL fee (like annual accreditation fee, renewal of accreditation fee, desktop surveillance fee etc) / Honorarium & assessment charges of NABL assessors / Proficiency testing participation fees and other miscellaneous items (like lab stationery, Sanitation and hygiene items required in laboratory etc) required for smooth functioning of laboratory.)	monitoring kit, sampler, noise meter, etc.

This agenda for ex-post facto approval of Board for the order issued vide no. I/85316/2021(21) dated 28.12.2021(**ANNEXURE-II**), regarding amendment of financial powers delegated at Sr. No 25 & 26 by the Board in its 174th meeting, is placed before the Board for deliberation & approval please.

17978 REGION GURUGRAM NORTH

ANNEXURE-I
06/4

HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR 6, PANCHKULA.
Ph. No. 0172-2577870-873

No. HSPCB/Estt./2016/ 7235-65 Dated: 18-01-2016

To

i) All Officers in Head Office
ii) All Regional Officers/Laboratory Incharges of the Board
iii) PS to Chairman/PA to Member Secretary

Subject: **Revision of delegation of Financial / Administrative powers to Board's Officers.**

Please find enclosed herewith a copy of Agenda Item No. 174.4 approved by the Board in its 174th meeting held on 12.01.2016 alongwith the minutes of the Board regarding this agenda item. You are requested to kindly initiate action as per the delegation of powers approved by the Board as per above Agenda item.

DA/Copy enclosed.

Superintendent (Estt.)
for HSPCB, Panchkula

17978/1[illegible]REGION GURUGRAM NORTH

04/5

4/1/14

Agenda Item No. 174.4

Revision of delegation of Financial/Administrative powers to Board's Officers.

The Financial powers were delegated to the Board's Officers in its meeting held on 18.10.2000 vide agenda item No. 114.19 (S) and further partially delegated/revised in 127th, 130th, 131st & 134th meeting of the Board. Thereafter, the Board on 08.02.2012 in its 161st meeting consolidated the Financial Powers and delegated the powers to its officers. Further, in the office exigencies some powers have been delegated by the Chairman to the officers of Board by issuing office orders for smooth functioning of the Board. The existing financial powers are in scattered manner which are in different agendas and office orders. It is difficult to reconcile & take a holistic view in the matter. Moreover, these Financial Powers have also become old and are required to be revised, because these were delegated long time ago. Since then, the prices of all commodities have increased manifold, so the existing delegation of powers are not serving the purpose as all matters are referred to the Chairman of the Board for seeking approval.

Keeping in view of above facts, it is necessary to revise these delegated financial/administrative powers & also to consolidate all such delegations of financial powers in one document for easy accessibility. Accordingly, the financial/ administrative powers proposed to be revised are given in the enclosed table at Annexure 'A' & 'B'.

Submitted for consideration and approval of the Board please.

4/2/15

06/6

Annexure – 'A'

Sr. No.	Nature of Power	Authority to whom powers delegated in previous meetings of the Board/office order etc.	Extent of Powers delegated at present	Authority to whom Powers proposed to be delegated	Extent of Powers proposed to be delegated
1	2	3	4	5	6
1.	Drawal & Disbursement of salary/T.A./Medical/ Arrear & payment of all other bills	Senior Accounts Officer	Full Power against proper sanction	Senior Accounts Officer	No Change
2.	Approval of Tour Programme within Haryana & Outside Haryana	i. Chairman	Member Secretary/ Senior Environmental Engineers/ Environmental Engineers/ R.O.s/ Scientist 'C's/ Sr. Accounts Officer, District Attorney and Personal Staff	i. Chairman	Member Secretary/ Senior Environmental Engineers/ Senior Scientist/ Environmental Engineers/ R.O.s/ Scientist 'C's/ Sr. Accounts Officer, District Attorney and Personal Staff
		ii. Member Secretary	All employees working in the scale of Rs. 8,000/- (old scale) and above except (i) above personal staff.	ii. Member Secretary	All Class-II employees and Tehsildar
		iii Environmental Engineers/Scientist 'C's/ Sr. Accounts Officer, District Attorney, Lab Incharges/ Branch Incharges/Registrar	All employees working under them except (i) & (ii) above	iii Sr. Environmental Engineers /Senior Scientists/ Environmental Engineers/ Scientist 'C's/ Sr. Accounts Officer, District Attorney/ Regional Officers/ Lab Incharges/ Branch Incharges/ Registrar/ Superintendent	All Class III & IV employees working under them.
3.	Sanction of Medical Re-imbursement bills	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Full Powers	Member Secretary	No Change

4	Grant of Temporary Advances	Chairman Member Secretary	Full Powers Upto Rs. 10,000/-	Chairman Member Secretary	No Change Upto Rs. 20,000/-
		Sr. Environmental Engineers/ Sr. Scientists Environmental Engineers/ Scientist 'C'	NIL Upto Rs. 2,000/-	Sr. Environmental Engineers/ Sr. Scientists Environmental Engineers/ Scientist 'C'/ Sr. A.O./ District Attorney	Upto Rs. 10,000/- Upto Rs. 5,000/-
		Sr. A.O. District Attorney	Upto Rs. 3,000/- Upto Rs. 1,000/-		
5.	Hiring of Accommodation	Chairman	Full Powers as per Rules	Chairman	No Change
6	To sell or dispose off by auction or otherwise any material, Plant & Machinery etc. found unserviceable.	Chairman Member Secretary	Full Powers Upto the book value of an item upto Rs. 5,000/-	Chairman Member Secretary	No Change Upto the book value of an item upto Rs. 50,000/-
7	To write off books, maps, furniture & other office material rendered unserviceable.	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Full Powers	Member Secretary	No Change
8	Losses due to breakages beyond recovery deterioration in stock etc., either in transit or in stores.	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 20,000/-	Member Secretary	Upto Rs. 50,000/-
9	Shortage in Inventory/stock verification.	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 20,000/-	Member Secretary	Upto Rs. 50,000/-
10.	To sanction payment of demurrages. Warfare provided that the amount has become payable due to unavoidable circumstances.	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Rs. 50,000/-	Member Secretary	Upto Rs. 1,00,000/-
11.	Advertisement & Publicity	Chairman	Full Powers	Chairman	No Change
		Member Secretary	NIL	Member Secretary	Full Powers

06/8

4/4-17

12	To sanction expenditure on Postage, Telephones/ Telegrams, water and Electricity charges	Chairman Member Secretary Env Engg / Scientist 'C' in Regional Officers	Full Powers Rs. 1,00,000/-	Chairman Member Secretary Env Engg / Scientist 'C' in Regional Officers	No Change Upto Rs. 2,00,000/- in each case
			Upto Rs. 30,000/- in each case	Sr. Environmental Engineers/ Sr. Scientists	Upto Rs. 60,000/- in each case
		Sr. Environmental Engineers/ Sr. Scientists	Nil	Environmental Engineers/ Scientist 'C' in Head Office	Upto Rs. 50,000/- in each case
		Environmental Engineers/ Scientist 'C' in Head Office	Upto Rs. 20,000/- in each case	Scientist 'C' being Lab Incharge	Upto Rs. 40,000/- in each case
		Scientist 'C' being Lab Incharge	Upto Rs. 5,000/-	Senior Accounts Officer (being D.D.O.)	Upto Rs. 20,000/-
		Senior Accounts Officer (being D.D.O.)	Full Powers	Chairman	No Change
13	Sanction of payment for House tax/ Property tax	Chairman	Full Powers	Member Secretary	No Change
		Member Secretary	Full Powers	Chairman	No Change
14.	To sanction contingent expenditure of recurring nature i.e. carriage of records, engagement of part time sweeper, water carrier etc., Purchase of Stationery, printing, Binding etc equipments, temporary fitting in hired building etc.	Member Secretary	Upto Rs. 20,000/-	Member Secretary	Upto Rs. 50,000/-
		Environmental Engineers/ Scientist 'C' / Sr A.O.	Upto Rs. 3,000/- in each case	Sr Environmental Engineers/ Sr Scientists /Environmental Engineers/ Scientist 'C' / Sr A.O.	Upto Rs. 10,000/-
		District Attorney/ Scientist 'B'/ AEE/ Superintendent	Upto Rs. 200/- at a time	District Attorney/ Scientist 'B'/ AEE/ Registrar/ Superintendent	Upto Rs. 500/- at a time
	Non-recurring Expenditure	Senior Accounts officer (being D.D.O.)	Upto Rs. 10,000/-	Senior Accounts officer (being D.D.O.)	No Change
15.	Petrol and Lubricants for official vehicles.	Sr. Accounts Officer	Full Powers	Sr. Accounts Officer	No Change
		Environmental Engineers for Regional Offices	Full Powers provided, entries are made in Log Book	Regional Officers of Regional Offices	No Change

06/9

4/5/18

16	Repair and Maintenance of vehicles (Supervisory Boarding and other T & P etc	Chairman Member Secretary Regional Officers	Full Powers Upto Rs. 10,000/- Upto Rs. 5,000/- subject to the condition that annual maintenance is approved by the Chairman	Chairman Member Secretary Regional Officers	Re-Change Upto Rs. 50,000/- Upto Rs. 20,000/- subject to the condition that annual maintenance estimate is approved by the Chairman
17.	To Sanction Legal Expenditure	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 11,000/- in each case	Member Secretary	Full Powers
18.	To sanction expenditure on Liveries	Member Secretary	Full Powers as per norms of Board	Member Secretary	No Change
		Registrar/Superintendent (Estt.)	Upto Rs. 5,000/- in each case	Registrar/Superintendent (Estt.)	Upto Rs. 10,000/-
19.	Payment of consultation charges	Chairman Member Secretary	Full Power Upto Rs. 2,000/-	Chairman Member Secretary	No Change Upto Rs. 10,000/-
20.	Payment of Bank Charges	Sr. Accounts Officer	Full Powers	Sr. Accounts Officer	No Change
21.	Inspection of material	Committee consisting of Environmental Engineer/ Scientist 'C'/ Sr. A.O.	Full powers for material to be inspected at Chandigarh. In case of Lab equipments, lab incharge will also be associated	Committee consisting of Sr. Environmental Engineer/ Sr. Scientist/ Environmental Engineer/ Scientist 'C'/ Sr. A.O.	Full powers for material to be inspected at Chandigarh. In case of Lab equipments, lab incharge will also be associated
		Environmental Engineers (Region)/ Scientist 'C'/AEE/ Lab Incharge	Full powers for material to be inspected outside Chandigarh. AEE/ Lab incharge will be nominated by Environmental Engineer/ Scientist 'C' concerned	Environmental Engineers (Region)/ Scientist 'C'/AEE/ Lab Incharge	No Change
22.	To sanction contribution and subscription	Chairman Member Secretary	Full Powers Upto Rs. 3,500/-	Chairman Member Secretary	No Change Upto Rs 10,000/-

06/10

9/6/19

23	Repair of furniture and fixture	Chairman Member Secretary Regional Officers	Full Powers Upto Rs. 25,000/- Nil	Chairman Member Secretary Regional Officers	No Change Upto Rs. 50,000/- Upto Rs. 1,00,000/-
24	Purchase of furnitures/ equipments	Chairman Member Secretary Regional Officers	Full Powers Upto Rs. 20,000/- Nil	Chairman Member Secretary Regional Officers	No Change Upto Rs. 50,000/- Upto Rs. 20,000/-
25	Purchase of Chemicals and Glass Ware/ Repair of Lab Instruments etc	Chairman Member Secretary Environmental Engineer/ Scientist 'C' Lab incharge	Full Powers Upto Rs. 20,000/- Upto Rs. 10,000/- Upto Rs. 50,000/- at a time	Chairman Member Secretary Sr. Environmental Engineers/ Sr. Scientists /Environmental Engineer/ Scientist 'C' Lab incharge	No Change Upto Rs. 50,000/- Upto Rs. 20,000/- Upto Rs. 1,00,000/-
26	Repair of lab Equipment/ Instrument	Chairman Member Secretary Scientist 'C'/ Lab Incharge	Full Powers Upto Rs. 50,000/- Upto Rs. 20,000/-	Chairman Member Secretary Scientist 'C'/ Lab Incharge	No Change Upto Rs. 1,00,000/- Upto Rs. 40,000/-
27	Repair and maintenance of Air sampling and Stack Monitoring kits	Environmental Engineer/ Scientist 'C' in Regional Offices	Upto Rs. 10,000/-	Environmental Engineer/ Scientist 'C' in Regional Offices	Upto Rs. 20,000/-
28	Purchase of books/ Magazines/ Journals etc for Board's Library Sr. A.O.	Chairman Member Secretary	Full Powers Upto Rs. 10,000/- at a time Upto Rs. 1,000/- at a time	Chairman Member Secretary Sr. A.O.	No Change Upto Rs. 20,000/- at a time Upto Rs. 5,000/- at a time
29	To sanction advances to Board's employees	Chairman Member Secretary	Full Powers Upto Rs. 1,00,000/-	Chairman Member Secretary	No Change Full Powers
30	Loan and advances i.e. CPF/ GPF/HBL/Marriage/vehicle, etc of Group A, B, C & D employees	Chairman Member Secretary	Full Powers Full Powers	Chairman Member Secretary	No Change No Change
31	Final withdrawal from CPF/GPF	Chairman	Full Powers	Chairman	No Change

06/11

4/7/20

32	Engaging Environmentalist	Full Powers	Upto Rs. 10,000/-	Member Secretary Sr. Environmentalist Engineer – Sr. Scientists Environmental Engineer, Scientist 'C'/ Sr. A.O./ D.A./ Registrar	Upto Rs. 30,000/- Upto Rs. 10,000/-	
				P.A. (on behalf of Chairman), Sc.'B'/ AEE/ ADA/ Supdt./S.O.	Upto Rs. 500/- at a time	Upto Rs. 500/- per month for their own office/ Board's Guest only
33	Write off irrecoverable losses of store or public money lost by fraud or the negligence of individual or similar other causes	Chairman	Full Powers	Chairman	Full Powers	
34	Sanction for insurance of vehicles/ office building	Chairman Member Secretary	Full Powers Upto Rs. 1,00,000/- at a time	Chairman Member Secretary	No Change Full Powers	
		Any Class-I officer looking after the building/vehicle	NIL	Any Class-I officer looking after the building/vehicle	Upto Rs. 10,000/-	
35.	Purchase of office assets like furniture, photo-state machine/ water cooler/ R.O. Aqua Guard, Fax/ Computer Accessories and other material required by the Regional Offices	Regional Officers	Upto Rs. 10,000/- (One Time)	Regional Officers	Upto Rs. 20,000/-	

Note:- For any items not covered above, the power delegated in P.F.R. For similar post will be exercised by the officers of the Board also.

4/8/21

86/12

Annexure - 'B'

Sr. No.	Nature of Work	Authority to whom the power is delegated	Authority to whom Powers proposed to be delegated	Extent of Powers proposed to be delegated
1	2	3	4	5
1	Sanction of Casual leave/ Earned Leave/ Commuted Leave & any other kind of leave of Group - A employees.	Member Secretary	Chairman	Sanction of Casual leave/ Earned Leave/ Commuted Leave & any other kind of leave of Group - A employees.
2.	Sanction of Earned Leave/ Commuted Leave & any other kind of leave of Group – B, C & D employees.	Member Secretary	Member Secretary	No Change
3.	Sanction of Casual Leave/ Station Leave	Member Secretary	Regional Officer/ Branch Incharge	Casual Leave/ Station Leave of Group- B, C & D employees
4	Issuing 'No Objection Certificate' for applying passport	Member Secretary	Member Secretary	No Change
5.	To sign all petitions/ replies/ court cases before any judicial/semi-judicial authority on behalf of the Board.	Member Secretary	Member Secretary/ All Class-I officers of the Board	To sign all petitions/ replies/ court cases before any judicial/semi-judicial authority on behalf of the Board.

In addition to the above, Chairman of the Board shall be empowered to delegate the powers of any kind, to the officers of the Board which, he think fit in the interest of the Board.

06/13

The quorum of the meeting was complete.

The item-wise minutes are as under:

Agenda Item No. 174.1

Confirmation of the Minutes of 173rd meeting of the Haryana State Pollution Control Board.

Minutes of 173rd meeting were confirmed.

Agenda Item No. 174.2

Action taken on the Minutes of the 173rd meeting of the Haryana State Pollution Control Board held on 29.09.2015.

The proposal contained in Agenda Note was approved and it was desired that regarding Agenda Item No. 173.4 and 173.5 Member Secretary of the Board shall follow the cases with the Haryana Bureau of Public Enterprises, Finance Department.

Regarding Agenda Item No. 173.7 the Board Members were apprised that in pursuant to High Court orders the services of Sh. S.C. Mann re-employed as Senior Scientific Adviser have been dispensed with.

Agenda Item No. 174.3

Grant of bonus/Ex-gratia/Short-term incentives/token gifts to the Employees of Public Sector Undertakings.

The proposal contained in Agenda Note was approved.

Agenda Item No. 174.4

Revision of delegation of Financial/Administrative powers to Board's Officers.

The proposal contained in Agenda Note was approved with the following amendments:-

Annexure 'A'

Sr. No.	Nature of Power	Extent of Powers delegated
2	Approval of Tour Programme within Haryana & Outside Haryana and sanction of Leave Travel Concession (LTC)	(i) In case of Member Secretary - Chairman (ii) Tour Programme and Leave Travel Concession (LTC) of all Group-A, B, C & D employees - Member Secretary (iii) Tour programme of all Group 'C' and 'D' employees except Leave Travel Concession (LTC) – Branch Incharges / Regional Officers

06/14

4	Grant of Temporary Advance	The powers shall be as under:- i) Chairman full powers ii) Member Secretary upto Rs. 50,000/- iii) Senior Environmental Engineer / Senior Scientist upto Rs. 20,000/- iv) Environmental Engineer / Scientist 'C' / Regional Officers upto Rs. 10,000/-
6	To sell or dispose off by auction or otherwise any material, Plant & Machinery etc found unserviceable provided the book value of an individual item does not exceed Rs. 5000/-	There will be no change in the existing powers.
9	Shortage in inventory/stock verification.	There will be no change in the existing powers.
12	To sanction expenditure on Postage, Telephones / Telegrams, water and Electricity charges.	Chairman / Member Secretary full powers. Rest of the proposal approved as proposed.
23	Repair of furniture and fixture.	i) Chairman / Member Secretary full powers. ii)Senior Environmental Engineer / Senior Scientist / Environmental Engineer / Scientist 'C' / Regional Officers upto Rs. 20,000/-.
24, 25 & 26	Purchase of furniture/equipments, purchase of Chemicals and Glass Ware / Repair of Lab Instruments etc. and Repair of lab Equipment / Instrument.	i) Chairman / Member Secretary full powers. ii) Senior Environmental Engineer / Senior Scientist / Environmental Engineer / Scientist 'C' / Regional Officers upto Rs. 20,000/-.
28	Purchase of books / Magazines / Journals etc. for Board's Library / Office	Chairman / Member Secretary full powers.

Annexure 'B'

Sr. No.	Nature of Work	Extent of Powers delegated
1	Sanction of Casual leave / Earned Leave / Commuted Leave & any other kind of leave of Member Secretary	(i) Chairman. (ii) If Member Secretary on deputation his parent Department will sanction leave except casual leave.
2	Sanction of Earned Leave / Commuted Leave / Maternity Leave / Study Leave & any other such kind of leave of Group – A, B, C & D employees and casual leave of Group 'A' / Superintendent / Registrar (Establishment) and personal staff of Chairman & Member Secretary	The Member Secretary shall have full powers.
5	To sign all petitions / replies / court cases before any judicial / semi-judicial authority on behalf of the Board.	Member Secretary / Class-I Officers and all Regional Officers.

Rest of the proposals mentioned in Agenda Note were approved as proposed in the Agenda Note.

797 [illegible] Estt.Br

06/15

ANNEXURE-II

HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA
Website – www.hspcb.gov.in, Ph: 0172-2577870-873

ORDER

The powers delegated at serial no 25 & 26 issued vide letter no HSPCB/Estt/2016 /1236-65 dated 18.01.2016 is hereby amended as under:-

Sr. No.	Nature of Power	Extent of powers delegated
25 & 26	**i.Purchase of chemicals and Glassware etc:-** (Purchase of chemicals / Glass wares / Instruments & Equipment / Book for Standards Methods for sampling, analysis & management of laboratory (like APHA, IS/ IEC/ ISO Standards etc) / Gases required for operation of instruments / Thimble / Filter Papers / Fire Extinguishers / Testing Table / Electrical appliances and its maintenance / wiring etc.) **ii.Repair of Lab Equipment/ Instrument etc: -** (Repair and calibration of Lab Instruments & Equipment /Glass Wares/ Fire Extinguishers / Testing Tables / stack monitoring kit & ambient air monitoring kit / sampler / noise meter etc. Payment of NABL fee (like annual accreditation fee, renewal of accreditation fee, desktop surveillance fee etc) / Honorarium & assessment charges of NABL assessors /Proficiency testing participation fees and other miscellaneous items (like lab stationery, Sanitation and hygiene items required in laboratory etc) required for smooth functioning of laboratory.)	1.Chairman/ Member Secretary full powers. 2.Upto Rs. 50,000/- at a time to Laboratory In-charges 3.Senior Environmental Engineer/ Senior Scientist/ Environmental Engineer/ Scientist-C upto Rs.20,000/- 4.Upto Rs. 20,000/- at a time to Regional Officer for repair and calibration of monitoring equipment i.e. stack monitoring kit, ambient air monitoring kit, sampler, noise meter, etc.

All the Govt. instructions/ Rules/ Policy / Norms and due procedure issued from time to time should be followed by the concerned authorities while exercising above delegated financial powers. This order shall come into force with immediate effect.

Dated Panchkula the 24th December, 2021

P. RAGHAVENDRA RAO, IAS (RETD.)
Chairman

Endst. No. HSPCB/ SSC/ 2021 **Dated:-28/12/2021**

A copy of the above is forwarded to the following for information and immediate necessary

action please:-

1. SEE (IT Cell) for uploading the order on the website of the Board.
2. All section/ Branch In-charges in Head Office of the Board.
3. All Regional Officers/ All laboratory In-Charges. They should work in true letter and spirit of above order to upgrade the monitoring facilities of the Board.
4. Administrative Officer.
5. Senior Account Officer, HSPCB.
6. PS to Chairman / PA to MS for information of Chairman / MS

Signed by Jatinder Pal Singh
Sr. Environment Engineer (SSC)
For Chairman
Date: 28-12-2021 16:58:31
Reason: Approved

AGENDA ITEM NO. 191.07

REVISED PROCEDURE FOR EXAMINING, ASSESSING, AND IMPOSING THE ENVIRONMENTAL COMPENSATION ON INDUSTRIAL UNITS OR OTHER AUTHORITIES, FOUND VIOLATING THE PROVISIONS OF THE VARIOUS ACTS & RULES, IN THE STATE OF HARYANA – EX-POST FACTO APPROVAL

Scanned with CamScanner

I/1 0302/2022

Agenda Item No.191-7 07/1

Revised procedure for examining, assessing, and imposing the Environmental Compensation on Industrial Units or Other Authorities, found violating the provisions of the various Acts & Rules, in the state of Haryana - Ex-post facto approval.

The Board, vide Head Office order Endst. No. HSPCB/PLG/2019/6043-6050 dated 29.04.2019 **(Annexure-I),** has adopted the modalities/methodology suggested by the Central Pollution Control Board (CPCB) for assessment, imposing, collection and utilization of environmental compensation, from the polluting units in the state of Haryana. CPCB has prepared the said modalities/methodology, on the directions of Hon'ble NGT in the matter of OA No.593/2017 (WP (CIVIL) No. 375/2012, Paryavaran Suraksha Samiti & Anr. Vs. Union of India & Ors, and Hon'ble NGT vide orders dated 28.08.2019 has accepted the said modalities/methodology of CPCB. The Board, vide agenda item no. 184.10 of its 184th meeting held on 30.05.2019, has accorded approval for modalities/methodology and issued order dated 29.04.2019.

Thereafter, Hon'ble NGT on 10.07.2019 in the matter of OA no 1038 of 2019 has issued directions regarding date of computation of environment compensation. Accordingly, order Endst. No. HSPCB/PLG/2019/734-765 dated 20.12.2019 **(Annexure-II)** had been issued, in partial modification of earlier office order Endst. No. HSPCB/PLG/2019/6043-75 dated 29.04.2019, in compliance of directions of Hon'ble NGT. The Board vide agenda item no.187.9 of its 187th meeting held on 17.02.2020 has accorded approval of amendments issued vide order dated 20.12.2019.

Several representations from various industrial units on the environmental compensation imposed by the Board, have been received to reconsider the policy of levying environmental compensation. Some of industrial units filed civil writ petitions before Hon'ble High Court of Punjab and Haryana against the order of imposition of Environmental Compensation of Board.

Accordingly, the Technical Advisory Committee (TAC) of the Board, in its meeting held on 22.11.2021, examined the representations and recommended that the existing policy and procedure for assessing the Environmental Compensation needs to be revised. It was recommended by the TAC to revise the Modalities/Methodology for Imposing and Utilization of Environmental Compensation issued by the Board vide HSPCB/PLG/2019/734-765 dated 20.12.2019 and

HSPCB/PLG/2019/6043-50 dated 29.04.2019. Accordingly, the revised procedure for examining, assessing and imposing the Environmental Compensation on Industrial Units or Other Authorities, found violating the provisions of the various Acts & Rules, was issued vide office order endst. no. No. HSPCB/PLG/2021/2343-2379 dated 22.12.2021 **(Annexure-III)**, in supercession of the earlier order dated 29.04.2019 and 20.12.2019.

The matter is placed before the Board for consideration and ex-post facto approval.

****

07/3

HARYANA STATE POLLUTION CONTROL BOARD

C-11 Sector-6, Panchkula
Ph – 0172- 577870-73, Fax No. 2581201
E-mail- hspcbho@gmail.com

Annexure-I

Office Order

Whereas Hon'ble National Green Tribunal (NGT) has issued the direction in several cases to impose the penalty on the non complying polluting units and has been directing CPCB, all SPCBs including Haryana to implement "Polluter Pays" Principal in right spirit and to recover environmental compensation from the polluting units and to use the same for restoration of environmental damages caused to the public:

Whereas, in the order of the Tribunal in Pryavaran Suriksha Samiti & Ors. Vs Union of India & Ors., Parveen Kakkar & Ors. Vs MoEF & Ors. it was held that:

"11. Needless to say that it will be open to the SPCBs/Committees and CPCB to take coercive measure including recovery of compensation for the damage to the environment on 'Polluter Pays' principal as well as also to direct taking of such precautionary measures as may be... ..."

Whereas, in 63rd conference of Chairman and Member Secretary of PCBs/Committees held on 18.03.2019 it was decided that SPCBs/PCCs may frame their guidelines on environmental compensation based on CPCB's report circulated in the agenda of the said meeting and to provide their inputs on environmental compensation report if any in writing to CPCB, as per proceedings of the same circulated by CPCB vide letter no. B-12015/63/2019-AS-473 dated 10.04.2019;

Whereas, the matter was examined by Technical Advisory Committee (TAC) of the Board in its meeting held on 26.04.2019 wherein it was observed that the section 5 of Environment (Protection) Act, 1986, empowers the Ministry of Environment, Forest and Climate Change in Central Government, section 33-A of Water (Prevention and Control of Pollution) Act, 1974 and section 31-A of Air (Prevention and Control of Pollution) Act, 1981 empowers the State Pollution Control Boards to issue directions in writing to any person, officer or any other authority and such person, officer or authority shall be bound to comply with such directions which includes the power to direct --

a) the closure, prohibition or regulation of any industry, operation or process; or
b) stoppage or regulation of the supply of electricity or water or any other service.

Whereas, Central Government has already delegated the powers provided under section 5 of EPA, 1986 to the Haryana Government vide notification S.O. 152(E) dated 10.02.1988, which has also been delegated to the Chairmen of State Pollution Control Boards including the Chairman of HSPCB vide notification S.O. 23(E) dated 08.01.1997 for the violations of standards and rules relating to Hazardous Waste and vide notification no. S.O. 327(E) dated 10.04.2001 for the violations of standards and rules relating to Bio Medical Waste, Hazardous Chemicals, Industrial Solid Waste and Municipal Solid Waste including Plastic Waste; and,

Whereas, in the light of above and after detailed deliberation, the TAC recommended that the report of in-house committee of CPCB on methodology and guidelines for assessing the environmental compensation and utilization of the same, as provided in the agenda note of the above said 63rd conference of Chairman and Member Secretary of PCBs/Committees held on 18.03.2019, be adopted and accordingly the Board has decided to adopt the methodology given at **Annexure-I** for assessment, imposing, collection and utilization of environmental compensation from the polluting units in the State of Haryana:

Therefore, it is hereby ordered to adopt the said modalities/methodology for assessing, imposing and utilization of environmental compensation from the polluting units in the State of Haryana in the circumstances as mentioned.

These orders shall come into force with immediate effect.

Dated Panchkula, the
29th April, 2019

Ashok Kheterpal
Chairman

Endst. No. HSPCB/PLG/2019/ **Dated:**

A copy of the above is forwarded to the following for information please:-

1. The Chief Secretary to Govt. Haryana, Chandigarh
2. The Chairman, Central Pollution Control Board, East Arjun Nagar, New Delhi.
3. The Additional Chief Secretary to Govt. Haryana, Department of Environment and Climate Change, Chandigarh.
4. The Additional Chief Secretary to Govt. Haryana, Industries and Commerce Department, Chandigarh.
5. The Additional Chief Secretary to Govt. Haryana, Public Health Engineering Department, Chandigarh.
6. The Principal Secretary to Govt. Haryana, Urban Local Bodies Department, Chandigarh.
7. The Principal Secretary to Govt. Haryana, Irrigation Department, Chandigarh.
8. The Principal Secretary to Govt. Haryana, Town and Country Planning Department, Chandigarh

Sr. Environmental Engineer-I (HQ)
For Chairman

FAX/ 30351

Endst. No. HSPCB/PLG/2019/ 6073 **Dated:** 29-4-2019

A copy of the above is forwarded to the following for information and immediate necessary action:-

1. All section Incharges in Head Office of the Board.
2. All Regional officers of the Board in the field.
3. Nodal Officer (IT) for uploading the order on the website of the Board.

Sr. Environmental Engineer-I (HQ)
For Chairman

SD

Endst. No. HSPCB/PLG/2019/ **Dated:**

A copy of the above is forwarded to the following for information of the officers please:-

1. P.S. to Chairman.
2. P.A. to Member Secretary.

Sr. Environmental Engineer-I (HQ)
For Chairman

07/4

Annexure-I

Methodology/modalities for assessing, imposing and utilization of environmental compensation from the polluting units in the State of Haryana

1. **Cases for levying environmental compensation.**
   a) Units discharging the environmental pollutants in excess of the standards prescribed under EP Rules, 1986 and as prescribed in the consent granted to such units under Water Act, 1974/Air Act, 1981.
   b) Not complying with the directions issued, such as direction for closure due to non-installation of OCEMS, non-adherence to the action plans submitted etc.
   c) Intentional avoidance of data submission or data manipulation by tempering the Online Continuous Emission/ Effluent Monitoring system.
   d) Accidental discharges lasting for short durations resulting into damage to the environment.
   e) Intentional discharges to the environmen t including bypassing the pollution control devices -- land, water and air resulting into acute injury or damages to the environment.
   f) Injection of treated/partially treated/ untreated effluent to ground water.
   g) All violations of Graded Response Action Plan (GRAP) in Delhi NCR area.
   h) Failure of preventing the pollutants being discharged in water bodies and failure to implement Waste Management Rules.
2. **Assessment and utilization of environmental compensation**
   a) The assessment and utilization of environmental compensation funds will be done as per the methodology and guidelines provided by CPCB in the agenda note of the above said 63rd conference of Chairman and Member Secretary of PCBs/Committees held on 18.03.2019, copy of which is attached as **Annexure-A.**
   b) The assessment of the environmental compensation will be done by the concerned Regional Office or District Level Task Force constituted by the State as per the direction of Hon'ble NGT and detailed report in this regard will be submitted by Regional Office to Head Office within 15 days from the date of identification of violations.
   c) The environmental compensation assessment report submitted by Regional Office will be examined and finalized at Head Office level by a committee of officers headed by Member Secretary, consisting of Sr. Environmental Engineer-I (HQ), Sr. Scientist (HQ), District Attorney (HQ), Sr. Accounts Officer and concerned Branch Incharge in Head Office within 07 days from date of receipt of the said report in Head Office.
   d) The finalized report will be processed by the concerned branch incharge in Head Office to the authorities for final order for levy of the environmental compensation on the defaulting unit.
   e) The authority for issuing the direction for levy and deposition of environmental compensation will be the same as prescribed for issuing the direction under section 5 of Environment (Protection) Act, 1986, section 33-A of Water (Prevention & Control of Pollution) Act, 1974, section 31-A of Air (Prevention & Control of Pollution) Act, 1981.
   f) In case of failure of deposition of environmental compensation by the violator within 15 days of issue of the direction, legal action under the provisions of the relevant Acts under which direction issued, will be taken.
   g) A separate account for environmental compensation fund will be maintained by the Accounts Branch.
   h) The environmental compensation fund will be utilized for restoration of environmental damages caused in area of violation as per methodology/guidelines prescribed by CPCB in its report provided the agenda note of the above said 63rd conference of Chairman and Member Secretary of PCBs/Committees held on 18.03.2019.

******

Annexure-4

07/5

Report of the CPCB In-house Committee on Methodology for Assessing Environmental Compensation and Action Plan to Utilize the Fund

CENTRAL POLLUTION CONTROL BOARD
"Parivesh Bhawan", East Arjun Nagar,
Delhi-110032

07/6

Table of Contents

Chapter-I: Environment Compensation to be levied on Industrial Units 3

1.1 Background 3

1.2 Constitution of the Committee 3

1.3 Methodology for Assessing Environmental Compensation 3

1.4 Action Plan for Utilization of Environmental Compensation Fund 6

Chapter-II: Environmental Compensation to be levied on all violations of Graded Response Action Plan (GRAP) in Delhi-NCR. 9

2.1 Amount for Environmental Compensation 9

2.2 Action Plan for Utilization of Environmental Compensation Fund 9

Chapter-III: Environmental Compensation to be levied in case of failure of preventing the pollutants being discharged in water bodies and failure to implement waste management rules. 10

3.1 Background 10

3.2 Ideology of Environmental Compensation Formula 10

3.3 Environment Compensation for Discharge of Untreated/Partially Treated Sewage by Concerned Individual/Authority: 12

3.4 Environment Compensation to be Levied on Concerned Individual/Authority for Improper Solid Waste Management: 15

3.3 Action Plan for Utilization of Environmental Compensation Fund 16

3.4 Recommendations 16

Annexure-I 17

Annexure-II 23

Annexure-III 26

Annexure-IV 28

References 30

07/7

Abstract

Environmental compensation is a policy instrument for the protection of the environment which works on the Polluter Pay Principal. Environmental compensation has already been implemented in various countries, although limited in scope. Experiences from these implementations are mixed and tend to stress the importance of certain principles in order to achieve the overall objective of protection of the environment.

The Hon'ble National Green Tribunal through its various judgments has empowered the Central Pollution Control Board to lay down the methodology to assess and recover compensation for damage to the environment and utilize such amount in terms of an action plan for protection of the environment.

An attempt has been made by the CPCB in-house Committee to develop a methodology for assessing environmental compensation to be levied on concerned industry, authority, individual etc. for the protection of environment. Expert institutions/ NGOs like The Energy and Resources Institute, Centre for Science and Environment-India, Institute of Economic Growth etc. were also consulted to finalize the report. Overall objective is to develop self-sense of responsibility towards the environment and to make defaulters realize their mistake by imposing compensation, which will be utilized for the protection/restoration of the environment.

Although, this is the first attempt in India towards development of methodology for assessing environmental compensation, however, efforts have been made to simplifying the process so that regulatory institutions can easily adopt the methodology for implementation.

07/8

Chapter-I: Environment Compensation to be levied on Industrial Units

1.1 Background

The Hon'ble National Green Tribunal (NGT), Principal Bench in the matter of OA No. 593/2017 (WP (CIVIL) No. 375/2012, Paryavaran Suraksha Samiti & Anr. Vs. Union of India & Ors. directed Central Poilution Control Board (CPCB) that:

> *"The CPCB may take penal action for failure, if any, against those accountable for setting up and maintaining STPs, CETPs and ETPs. CPCB may also assess and recover compensation for damage to the environment and said fund may be kept in a separate account and utilized in terms of an action plan for protection of the environment. Such action plan may be prepared by the CPCB within three months" (Annexure-I).*

1.2 Constitution of the Committee

In this context, Chairman, CPCB constituted a Committee under the Chairmanship of Shri A. Sudhakar, I/c WQM-I with Shri A. K. Vidyarthi, I/c WQM-II, Shri P. K. Gupta, I/c IPC-VI, Shri Nazimuddin I/c IPC-II and Dr. S. K. Paliwal, Scientist 'D' as members. The Committee was asked to deliberate on this issue and come up with a draft formulation before 15.9.2018.

1.3 Methodology for Assessing Environmental Compensation

The Committee discussed the issue on 4.9.2018, 13.9.2018,17.9.2018 and 09.10.2018. A meeting was also held with Senior Officers of CPCB Head Office and Regional Directorates through video conferencing on 28.09.2018 to discuss the draft report and to seek comments/feedbacks. The comments/feedbacks received and deliberations of the Committee on the same are given in Annexure-II.

As per the Hon'ble NGT suggestion, CPCB has invited comments of 3 expert institution, namely, Centre for Science and Environment (CSE), Institute of Economic Growth (IEG) and The Energy Research Institute (TERI). CSE and IEG has provided their comments, however TERI has not provided any response.

A meeting to incorporate the comments of the expert institutions and to finalize the report, was held on 12/03/2019 under the chairmanship of Shri A. Sudhakar. The CPCB in-house committee on Environmental Compensation has deliberated on the comments and finalized the report accordingly. The Committee's deliberations are attached as Annexure-III.

It was deliberated for developing a formula for imposing environmental compensation on industrial units for violation of directions issued by regulatory bodies and this is the first attempt made. The committee discussed that environmental compensation should be based on "Polluter Pay Principle". The Committee decided to list the instances for taking cognizance of cases fit for violation and levy environmental compensation.

Cases considered for levying Environmental Compensation (EC):

a) Discharges in violation of consent conditions, mainly prescribed standards / consent limits.
b) Not complying with the directions issued, such as direction for closure due to non-installation of OCEMS, non-adherence to the action plans submitted etc.
c) Intentional avoidance of data submission or data manipulation by tampering the Online Continuous Emission / Effluent Monitoring systems.
d) Accidental discharges lasting for short durations resulting into damage to the environment.
e) Intentional discharges to the environment -- land, water and air resulting into acute injury or damage to the environment.
f) Injection of treated/partially treated/ untreated effluents to ground water.

1.3.1 In the instances as mentioned at *a, b and c* above, Pollution Index may be used as a basis to levy the Environmental Compensation. CPCB has published guidelines for categorization of industries into Red, Orange, Green and White based on concept of Pollution Index (PI). The Pollution Index is arrived after considering quantity & quality of emissions/ effluents generated, types of hazardous wastes generated and consumption of resources. Pollution Index of an industrial sector is a numerical number in the range of 0 to 100 and can be represented as follows:

PI = *f* (Water Pollution Score, Air Pollution Score & HW Generation Score)

Pollution Index is a number from 0 to 100 and increasing value of PI denotes the increasing degree of pollution *hazard from the industrial sector.*

CPCB has issued directions to all SPCBs/PCCs on 07.03.2016 to adopt the methodology and follow guidelines prepared by CPCB for categorization of industrial sectors into Red, Orange, Green and White.

The concept of Pollution Index, which was deliberated widely with all stakeholders and agreed, shall be used for calculating Environmental Compensation. This may help in implementation of such provision throughout the country, a successful initiative in vital field of industrial pollution control.

After considering various factors including the policy implementation issues, Committee has come up with following formula for levying the Environmental Compensation in instances as

07/10

mentioned at a, b and c including non-compliance of the environmental standards / violation of directions.

The Environmental Compensation shall be based on the following formula:

$$EC = PI \times N \times R \times S \times LF$$

Where,

EC is Environmental Compensation in ₹
PI = Pollution Index of industrial sector
N = Number of days of violation took place
R = A factor in Rupees (₹) for EC
S = Factor for scale of operation
LF = Location factor

The formula incorporates the anticipated severity of environmental pollution in terms of Pollution Index, duration of violation in terms of number of days, scale of operation in terms of micro & small/medium/large industry and location in terms of proximity to the large habitations.

Note:

a. The industrial sectors have been categorized into Red, Orange and Green, based on their Pollution Index in the range of 60 to 100, 41 to 59 and 21 to 40, respectively. It was suggested that the average pollution index of 80, 50 and 30 may be taken for calculating the Environmental Compensation for Red, Orange and Green categories of industries, respectively.

b. N, number of days for which violation took place is the period between the day of violation observed/due date of direction's compliance and the day of compliance verified by CPCB/SPCB/PCC.

c. R is a factor in Rupees, which may be a minimum of 100 and maximum of 500. It is suggested to consider R as 250, as the Environmental Compensation in cases of violation.

d. S could be based on small/medium/large industry categorization, which may be 0.5 for micro or small, 1.0 for medium and 1.5 for large units.

e. LF, could be based on population of the city/town and location of the industrial unit. For the industrial unit located within municipal boundary or up to 10 km distance from the municipal boundary of the city/town, following factors (LF) may be used:

Table No. 1.1: Location Factor Values

S. No.	Population* (million)	Location Factor# (LF)
1	1 to <5	1.25
2	5 to <10	1.5
3	10 and above	2.0

07/11

**Population of the city/town as per the latest Census of India*
#LF will be 1.0 in case unit is located >10km from municipal boundary
LF is presumed as 1 for city/town having population less than one million.

For notified Ecologically Sensitive areas, for beginning, LF may be assumed as 2.0. However, for critically Polluted Areas, LF may be explored in future.

f. In any case, minimum Environmental Compensation shall be ₹ 5000/day.
g. In order to include deterrent effect for repeated violations, EC may be increased on exponential basis, i.e. by 2, 4, 8, 16.... times on each similar violation.

A sample calculation for Environmental Compensation is given at Table No. 1.2. It can be noticed that for all instances, EC for Red, Orange and Green category of industries varies from 3,750 to 60,000 ₹/day.

Table No. 1.2: A sample calculation for Environmental Compensation

Industrial Category	Red	Orange	Green
Pollution Index (PI)	60-100	41-59	21-40
Average PI	80	50	30
R-Factor	250		
S-Factor	0.5-1.5		
L-Factor	1.00-2.00		
Deterrent Factor	on exponential basis, i.e. by 2, 4, 8; 16.... times		
Environmental Compensation (₹/day)	10,000-60,000	6,250-37,500	5,000-22,500

1.3.2 In other instances i.e. *d, e and f*, the environmental compensation may contain two parts – one requires providing immediate relief and other long-term measures such as remediation. In all these cases, detailed investigations are required from expert institutions/organizations based on which environmental compensation will be decided. CPCB shall list the expert institutions for this purpose.

In such cases, comprehensive plan for remediation of environmental pollution may be prepared and executed under the supervision of a committee with representatives of SPCB, CPCB and expert institutions/organizations.

1.4 Action Plan for Utilization of Environmental Compensation Fund

The Committee discussed about the utilization of funds, which will be received by imposing Environmental Compensation. The following Action Plan is proposed to utilize the fund for protection of the environment.

07/12

1.4.1. When Environmental Compensation is calculated through the Pollution Index:

The amount received by imposing the Environmental Compensation to the industries / organization non-complying with the environmental standards / violating any CPCB's directions shall be deposited in a separate bank account. The amount accumulated will be utilized for Protection of Environment. The following schemes were identified, which may be considered for utilization of Environmental Compensation Fund:

a. Industrial Inspections for compliance verification
b. Installation of Continuous water quality monitoring stations / Continuous ambient air quality monitoring stations for strengthening of existing monitoring network
c. Preparation of Comprehensive Industry Documents on Industrial Sectors / clean technology
d. Investigations of environmental damages, preparation of DPRs
e. Remediation of contaminated sites
f. Infrastructure augmentation of Urban Local Bodies (ULBs) /capacity building of SPCBs/PCCs

The above proposed list may include other schemes also, depending upon the requirement.
Considering the availability of accumulated funds, CPCB will finalize the scheme, keeping in mind the priority, to utilize the funds of Environmental Compensation.

1.4.2. When Environmental Compensation is assessed based on actual damage to the environment by Expert Organization/ Agency:

The amount of Environmental Compensation under this case will be remediation costs, measures requiring immediate and short-term actions, compensation towards loss of ecology, etc., and will be utilized exclusively for the purpose at specific site, based on the detailed investigations by the Expert Organizations/ agencies.

1.5 Recommendations

The Committee made following recommendations:

1.5.1 To begin with, Environmental Compensation may be levied by CPCB only when CPCB has issued the directions under the Environment (Protection) Act, 1986. In case of a, b and c, Environmental Compensation may be calculated based on the formula "EC = PI x N x R x S x LF", wherein, PI may be taken as 80, 50 and 30 for red, orange and green category of industries, respectively,

07/13

and R may be taken as 250. S and LF may be taken as prescribed in the preceding paragraphs.

1.5.2 In case of d, e and f, the Environmental Compensation may be levied based on the detailed investigations by Expert Institutions/Organizations.

*****

07/14

Chapter-II: Environmental Compensation to be levied on all violations of Graded Response Action Plan (GRAP) in Delhi-NCR.

2.1 Amount for Environmental Compensation

The CPCB In-house Committee also discussed that the EC shall also be levied on all violations of Graded Response Action Plan (GRAP) in Delhi NCR. The implementing agencies for each activity have been identified and the EC will be levied on these agencies. These violations attract graded amounts of EC depending on the state of ambient air quality, which is given in table below:

Table No. 2.1: Environmental Compensation to be levied on all violations of Graded Response Action Plan (GRAP) in Delhi-NCR.

Activity	State Of Air Quality	Environmental Compensation ()
Industrial Emissions	Severe +/Emergency	Rs 1.0 Crore
	Severe	Rs 50 Lakh
	Very Poor	Rs 25 Lakh
	Moderate to Poor	Rs 10 Lakh
Vapour Recovery System (VRS) at Outlets of Oil Companies		
i. Not installed	Target Date	Rs 1.0 Crore
ii. Non-functional	Very poor to Severe +	Rs 50.0 Lakh
	Moderate to Poor	Rs 25.0 Lakh
Construction sites (Offending plot more than 20,000 Sq.m.)	Severe +/Emergency	Rs 1.0 Crore
	Severe	Rs 50 Lakh
	Very Poor	Rs 25 Lakh
	Moderate to Poor	Rs 10 Lakh
Solid waste/ garbage dumping in Industrial Estates	Very poor to Severe +	Rs 25.0 Lakh
	Moderate to Poor	Rs 10.0 Lakh
Failure to water sprinkling on unpaved roads		
a) Hot-spots	Very poor to Severe +	Rs 25.0 Lakh
b) Other than Hot-spots	Very poor to Severe +	Rs 10.0 Lakh

2.2 Action Plan for Utilization of Environmental Compensation Fund

EC levied on all violations of Graded Response Action Plan (GRAP) in Delhi NCR will be deposited in the same fund and will be utilized in the same manner as mentioned in para 1.4.1 of Chapter-I of this report.

******

07/15

Chapter-III: Environmental Compensation to be levied in case of failure of preventing the pollutants being discharged in water bodies and failure to implement waste management rules

3.1 Background

The Hon'ble NGT in its order dated 06.12.2018 (Annexure-III) in the matter of Court of its own motion v/s State of Karnataka (Original Application No. 125/2017 and M.A. No. 1337/2018) has given following directions:

> *"Since failure of preventing the pollutants being discharged in water bodies (including lakes) and failure to implement solid and other waste management rules are too frequent and widespread, the CPCB must lay down specific guidelines to deal with the same, throughout India, including the scale of compensation to be recovered from different individuals/authorities, in addition to or as alternative to prosecution. The scale may have slabs, depending on extent of pollution caused, economic viability, etc. Deterrent effect for repeated wrongs may also be provided."*

3.2 Ideology of Environmental Compensation Formula

In compliance of the directions of the Hon'ble Tribuna , the Committee deliberated on the issue of environmental compensation to be recovered from individuals/authorities in case of failure of preventing the pollutants being discharged in water bodies and failure to implement solid and other waste management rules. The Committee has suggested that environmental compensation in these cases should be comprised of two components i.e.

1. Cost saved/benefits achieved by the concerned individual/authority by not having proper waste/sewage management system; and
2. Cost to the environment (environmental externality) due to untreated/partially treated waste/sewage because of insufficient capacity of waste/sewage management/treatment facility.

Cost saved/benefits achieved by not having proper waste/sewage management system includes the interest on capital cost of the waste/sewage management facility and daily operation and maintenance (O&M) cost associated with the facility.

The Committee suggested that annual interest rate as 10% on loan amount, borrowed by concerned individual/authority for setting-up waste/sewage management facility, may be assumed as Capital Cost Factor for calculation of environment compensation. Further, as whole O&M cost is saved by concerned individual/authority for not managing required waste/sewage management system, 100% of the O&M cost saved may be considered as O&M cost factor.

Therefore, generalized formula for Environmental Compensation may be described as:

EC= Capital Cost Factor x Marginal Average Capital Cost for Establishment of Waste or Sewage Management or Treatment Facility x (Waste or Sewage Management or Treatment Capacity Gap)

07/16

+ O&M Cost Factor x Marginal Average O&M Cost x (Waste or Sewage Management or Treatment Capacity Gap) x No. of Days for which facility was not available + Environmental Externality

Cost to the environment due to untreated/partially treated waste/sewage discharge by concerned individual/authority may be assumed as recommended by the committee, which is mentioned below:

Table No. 3.1: Environmental externality for untreated/partially treated sewage discharge

Sewage Treatment Capacity Gap (MLD)	Marginal Cost of Environmental Externality (Rs. per MLD/day)	Minimum and Maximum value of Environmental Externality recommended by the Committee (Lacs Rs. Per Day)
Up to 200	75	Min. 0.05 Max. 0.10
201-500	85	Min. 0.25 Max. 0.35
501 and above	90	Min. 0.60 Max. 0.80

Table No. 3.2: Environmental externality for improper municipal solid waste management

Municipal Solid Waste Management Capacity Gap (TPD)	Marginal Cost of Environmental Externality (Rs. per ton per day)	Minimum and Maximum value of Environmental Externality recommended by the Committee (Lacs Rs. Per Day)
Up to 200	15	Min. 0.01 Max. 0.05
201-500	30	Min. 0.10 Max. 0.15
501-1000	35	Min. 0.25 Max. 0.35
1001-2000	40	Min. 0.50 Max. 0.60
Above 2000		Max. 0.80

The Committee further decided to fix a cap for minimum and maximum cost for capital and O&M component for Environmental Compensation, which are given in below tables:

Table No. 3.3: Minimum and Maximum EC to be levied for untreated/partially treated sewage discharge

Class of the City/Town	Mega-City	Million-plus City	Class-I City/Town and others
Minimum and Maximum values of EC (Total Capital Cost Component) recommended by the Committee (Lacs Rs.)	Min. 2000 Max. 20000	Min. 1000 Max. 10000	Min. 100 Max. 1000

07/17

Minimum and Maximum values of EC (O&M Cost Component) recommended by the Committee (Lacs Rs./day)	Min. 2 Max. 20	Min. 1 Max. 10	Min. 0.5 Max. 5

Table No. 3.4: Minimum and Maximum EC to be levied for improper municipal solid waste management

Class of the City/Town	Mega-City	Million-plus City	Class-I City/Town and others
Minimum and Maximum values of EC (Capital Cost Component) recommended by the Committee (Lacs Rs.)	Min. 1000 Max. 10000	Min. 500 Max. 5000	Min. 100 Max. 1000
Minimum and Maximum values of EC (O&M Cost Component) recommended by the Committee (Lacs Rs./day)	Min. 1.0 Max. 10.0	Min. 0.5 Max. 5.0	Min. 0.1 Max. 1.0

The application of formula for calculation of EC may be further understood with the example of two typical cases.

3.3 Environment Compensation for Discharge of Untreated/Partially Treated Sewage by Concerned Individual/Authority:

BIS IS-1172:1993 suggests that for communities with population above 100,000, minimum of 150 to 200 lpcd of water demand is to be supplied. Further, 85% of return rate (CPHEEO Manual on Sewerage and Sewage Treatment Systems, 2013), may be considered for calculation of total sewage generation in a city. CPCB Report on "Performance evaluation of sewage treatment plants under NRCD, 2013", describes that the capital cost for 1 MLD STP ranges from 0.63 Cr. to 3 Cr. and O&M cost is around Rs. 30,000 per month. After detail deliberations, the Committee suggested to assume capital cost for STPs as Rs. 1.75 Cr/MLD (marginal average cost). Further, expected cost for conveyance system is assumed as Rs. 5.55 Cr./MLD (marginal average cost) and annual O&M cost as 10% of the combined capital cost. Population of the city may be taken as per the latest Census of India. Based on these assumptions, Environmental Compensation to be levied on concerned ULB may be calculated with the following formula:

EC= Capital Cost Factor x [Marginal Average Capital Cost for Treatment Facility x (Total Generation-Installed Capacity) + Marginal Average *Capital Cost for Conveyance Facility x (Total Generation -Operational Capacity)] + O&M Cost Factor x Marginal Average O&M Cost x (Total Generation- Operational Capacity) x No. of Days for which facility was not available + Environmental Externality x No. of Days for which facility was not available*

Alternatively;

EC (Lacs Rs.) = [17.5(Total Sewage Generation – Installed Treatment Capacity) + 55.5(Total Sewage Generation-Operational Capacity)] + 0.2(Sewage Generation-Operational

07/18

Capacity) x N + Marginal Cost of Environmental Externality x (Total Sewage Generation-Operational Capacity) x N

Where;

N= Number of days from the date of direction of CPCB/SPCB/PCC till the required capacity systems are provided by the concerned authority

Note: In order to include deterrent effect for continuous violations, component of O&M in EC formula may be increased on exponential basis by 2, 4, 8, 16.... times on every six-months, beyond the time prescribed by authority for ensuring complete treatment of sewage of the city/town.

19

07/19

Table No. 3.5: Sample calculation for EC to be levied for discharge of untreated/partial treated Sewage

City	Delhi	Agra	Gurugram	Ambala
Population (2011)	1,63,49,831	17,60,285	8,76,969	5,00,774
Class	Mega-City	Million-plus City	Class-I Town	Class-I Town
Sewage Generation (MLD) (*as per the latest data available with CPCB*)	4195	381	485	37
Installed Treatment Capacity (MLD) (as per the latest data available with CPCB)	2500	220	404	45.5
Operational Capacity (MLD) (as per the latest data available with CPCB)	1900	140	300	24.5
Treatment Capacity Gap (MLD)	2295	241	186	12.5
Calculated EC (capital cost component for STPs) in Lacs Rs.	29662.50	2817.50	1435.00	0.00
Calculated EC (capital cost component for Conveyance System) in Lacs. Rs.	127372.50	13375.50	10323.00	693.75
Calculated EC (Total capital cost component) in Lacs Rs.	157035.00	16193.00	11758.00	693.75
Minimum and Maximum values of EC (Total Capital Cost Component) recommended by the Committee (Lacs Rs.)	Min. 2000 Max. 20000	Min. 1000 Max. 10000	Min. 100 Max. 1000	Min. 100 Max. 1000
Final EC (Total Capital Cost Component) in Lacs Rs.	20000.00	10000.00	1000.00	693.75
Calculated EC (O&M Component in Lacs Rs./day	459.00	48.20	37.20	2.50
Minimum and Maximum values of EC (O&M Cost Component) recommended by the Committee (Lacs Rs./day)	Min. 2 Max. 20	Min. 1 Max. 10	Min. 0.5 Max. 5	Min. 0.5 Max. 5
Final EC (O&M Component) in Lacs. Rs./Day	20.00	10.00	5.00	2.50
Calculated Environmental Externality (Lacs Rs .Per Day)	2.0655	0.2049	0.1395	0.0094
Minimum and Maximum value of Environmental Externality recommended by the Committee (Lacs Rs. Per Day)	Min. 0.60 Max. 0.80	Min. 0.25 Max. 0.35	Min. 0.05 Max. 0.10	Min. 0.05 Max. 0.10
Final Environmental Externality (Lacs Rs. Per day)	0.80	0.25	0.10	0.05

20

07/20

3.4 Environment Compensation to be Levied on Concerned Individual/Authority for Improper Solid Waste Management:

It is known that estimated MSW generation is approximately 1.5 lakh MT/Day in India (MoHUA Report-2016). As per the principles of SWM Rules, 2016 and PWM Rules 2016, as amended in 2018, the total cost of Municipal Solid Waste management in a city/town includes cost for door to door collection, cost of segregation at source, cost for transportation in segregated manner, cost for processing of MSW and disposal through facility like composting, biomethanation, recycling, co-processing in cement kilns etc.

In view of above, it is estimated that the total cost of processing and treatment of MSW for a city having population size of 1 lakh and generating approximately 50 tons/day of MSW is Rs.15.5 Crores, including capital cost (one time) and O & M cost for one year. The expenditure for subsequent years would be only Rs. 3.5 crores/annum.

CPCB sponsored a survey to ascertain the status of municipal solid waste disposal in 59 cities/towns of India. The survey was conducted by the Environment Protection Training Research Institute (EPTRI), Hyderabad. As per the survey, it is estimated that solid waste generated in small, medium and large cities and towns is about 0.1 kg (Class-III), 0.3-0.4 kg (Class-II) and 0.5 kg (Class-I) per capita per day respectively. The committee opined that 0.6 kg/day, 0.4 kg/day and 0.3 kg/day per capita waste generation may be assumed for mega-cities, million-plus UAs/towns and Class-I UA/Towns respectively for calculation of environmental compensation purposes. Based on these assumptions, Environmental Compensation to be levied on concerned ULB may be calculated with the following formula:

EC = Capital Cost Factor x Marginal Average Cost for Waste Management x (Per day waste generation-Per day waste disposed as per the Rules) + O&M Cost Factor x Marginal Average O&M Cost x (Per day waste generation-Per day waste disposed as per the Rules) x Number of days violation took place + Environmental Externality x N

Where;

Waste Quantity in tons per day (TPD)

N= Number of days from the date of direction of CPCB/SPCB/PCC till the required capacity systems are provided by the concerned authority

Simplifying;

EC (Lacs Rs.) = 2.4(Waste Generation - Waste Disposed as per the Rules) +0.02 (Waste Generation - Waste Disposed as per the Rules) x N + Marginal Cost of Environmental Externality x (Waste Generation - Waste Disposed as per the Rules) x N

07/21

Table No. 3.6: Sample calculation for EC to be levied for improper management of Municipal Solid Waste

City	Delhi	Agra	Gurugram	Ambala
Population (2011)	1,63,49,831	17,60,285	8,76,969	5,00,774
Class	Mega-City	Million-plus City	Class-I Towr	Class-I Town
Waste Generation (kg. per person per day)	0.6	0.4	0.3	0.3
Waste Generation (TPD)	9809.90	704.11	263.09	150.23
Waste Disposal as per Rules (TPD) (*assumed as 25% of waste generation for sample calculation*)	2452.47	176.03	65.77	37.56
Waste Management Capacity Gap (TPD)	7357.42	528.09	197.32	112.67
Calculated EC (capital cost component) in Lacs. Rs.	17657.82	1267.41	473.56	270.42
Minimum and Maximum values of EC (Capital Cost Component) recommended by the Committee (Lacs Rs.)	Min. 1000 Max. 10000	Min. 500 Max. 5000	Min. 100 Max. 1000	Min. 100 Max. 1000
Final EC (capital cost component) in Lacs. Rs.	10000.00	1267.41	473.56	270.42
Calculated EC (O&M Component) in Lacs. Rs./Day	147.15	10.56	3.95	2.25
Minimum and Maximum values of EC (O&M Cost Component) recommended by the Committee (Lacs Rs./Day)	Min. 1.0 Max. 10.0	Min. 0.5 Max. 5.0	Min. 0.1 Max. 1.0	Min. 0.1 Max. 1.0
Final EC (O&M Component) in Lacs. Rs./Day	10.00	5.00	1.00	1.00
Calculated Environmental Externality (Lacs Rs. Per Day)	2.58	0.18	0.03	0.02
Minimum and Maximum value of Environmental Externality recommended by the Committee (Lacs Rs. per day)	Max. 0.80	Min. 0.25 Max. 0.35	Min. 0.01 Max. 0.05	Min. 0.01 Max. 0.05
Final Environmental Externality (Lacs Rs. per day)	0.80	0.25	0.03	0.02

3.3 Action Plan for Utilization of Environmental Compensation Fund

EC levied in case of failure of preventing the pollutants being discharged in water bodies and failure to implement waste management rules will be deposited in the same fund and will be utilized in the same manner as mentioned in para 1.4.1 of Chapter-I of this report.

3.4 Recommendations

1. The Committee recommended that to begin with, Environmental Compensation to be recovered from individuals/authorities in case of failure of preventing the pollutants being discharged in water bodies and failure to implement solid waste management rules may be calculated with the methodology described in the report.
2. If mixing of Bio-medical Waste and Hazardous Waste is found in Municipal Solid Waste than capital cost component of EC may be increased by a multiplication factor of 1.1 in case of Bio-medical Waste and by a multiplication factor of 1.25 in case of Hazardous Waste.
3. In order to include deterrent effect for repeated violations, component of O&M in EC formula may be increased on exponential basis by 2, 4, 8, 16.... times on every six-months, beyond the time prescribed by authority for ensuring complete treatment of sewage/waste of the city/town.

07/22

Annexure-I

BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI

Original Application No. 593/2017
(W.P. (Civil) No. 375/2012)

In the matter of:

Paryavaran Suraksha Samiti & Anr.
Vs.
Union of India & Ors.

CORAM : HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON
HON'BLE DR. JUSTICE JAWAD RAHIM, JUDICIAL MEMBER
HON'BLE MR. JUSTICE S.P. WANGDI, JUDICIAL MEMBER
HON'BLE DR. NAGIN NANDA, EXPERT MEMBER

Present: Applicant:
Amicus Curiae:
Respondent Nos.

Mr. Rohit Prajapati, Applicant in person
Mr. Jai A. Dehadrai, Adv.
Mr. Nishe Rajan Shonker, Adv. for State of Kerala
Mr. Tarunvir Singh Khehar, Ms. Gunnet Khehar Mr. Sandeep Mishra Advs. for GNCTD
Mr. Anil Srivastava, Mr. Manaj Bawa and Ms. Sujaya Bardhan, Advs. for State of Arunachal Pradesh
Mr. Jogy Scaria, Ms. Beena Vinod, Advs. for Kerala State Pollution Control Board
Mr. Avijit Roy, Adv. for Assam Pollution Control Board
Mr. Loishangthem Roshmani Mr. Ms. Mutham Rabina, Advs. for State of Manipur
Mr. Nikhil Nayyar, Mr. Dhananjay Baijal, Advs. for APPCB and TSPCB
Mr. Mukesh Verma, Adv.
Mr. Tarunvir Singh Khehar, Adv., Mr. Sandeep Mishra and Ms. Gunnet Khehar, Advs.
Mr. Nitesh Jindal, LD for DPCC
Ms. Aruna Mathur, Mr. Avneesh Arputham, Ms. Simraj Jeet and Ms. Anuradha Arputham, Advs. for State of Sikkim
Mr. Raja Chatterjee, Mr. Piyush Sachdev, Ms. Abhinandini Yadav, Advs. and Advs for State of WB
Mr. Edward Belho, AAG, Mr. K. Lashong Michael and Ms. Maisamlikam, Advs. for State of Nagaland
Mr. Easterd Sema, Adv. for State of Nagaland and Pollution Control Board
Mr. M. Paikaray and Mr. A.K. Panda, Advs. for SPCB, Odisha
Mr. Dhruv Pal, Adv. for State of Gujarat
Mr. V.K. Shukla, Adv. for State of MP
Mr. Jayesh Gaurav, Adv. for R-37
Mr. Tayenjam Name Singh, Adv. for Meghalaya Pollution Control Board
Mr. Rishi Chandra and Mr. Ritesh Kumar Sharma, Advs.
Mr. Gautam Singh and Mr. Shoeb Alam, Advs. for State of Bihar
Ms. Aprajita Mukherjee, Adv.
Ms. G. Indira, Adv. for UT of Andaman & Nicobar
Mr. Balaadi Shekhar, Mr. Sriansh Prakash and Mr. Rajkumar Maurya, Advs. for Ministry of Environment, Forest and Climate Change
Ms. Puja Kaira, Adv. for SDMC & NDMC
Mr. Anil Grover, AAG, Mr. Rahul Khurana and Mr. Mukul Vij, Advs. for State of Haryana and HSPCB

21

07/23

Ms. Yogmaya Agnihotri, Adv. and Ms. Prity, Adv. for CECB
Ms. Sakshi Popli, Adv. for Ministry of Environment, Forest and Climate Change
Mr. Shuvodeep Roy, Adv. and Mr. Ritaraj Biswas, Adv. for State of Tripura & Tripura Pollution Control Board
Mr. Shashank Bajpai and Mr. Shakun S. Shukla, Advs. for State of Odisha
Ms. Asha Nayar Basu and Ms. Aradhita Ghosh Mandal, Advs.
Ms. Priyanka Sinha, Adv. for State of Jharkhand
Mr. Rajul Shrivastav, Adv. for MPPCB
Mr. Pradeep Misra and Mr. Dileep Dhyani Advs. for UPPCB
Mr. R. Rakesh Sharma and Mr. V. Mewli, Advs. for State of TN & TNPCB
Mr. Shubham Bhalla, Adv.
Ms. Shiv Mangal Sharma, AAG, Mr. Saurabh Rajpal, Mr. Adhiraj Singh, Ms.Shikha Sandhu and Mr. Vikramjeet Singh, Advs. for State of Rajasthan and Pollution Control Board
Mr. G. M. Kawoosa, Adv. for State of J & K
Mr. Divya Prakash Pande, Adv. For HPSPCB
Mr. Manish Kumar, Adv.

	Date and Remarks	Orders of the Tribunal
	Item No. 12 August 03, 2018 A	1. This matter was taken by this Tribunal in furtherance to the orders of the Hon'ble Supreme Court dated 22.02.2017 *Paryavaran Suraksha Samiti Vs. Union of India* (2017) 5 SCC 326, establishment and functioning of ETPs/CETP/STPs. 2. Vide order dated 25.05.2017, Notice was issued to Central Pollution Control Board and all the States Pollution Control Boards/Committees and the Ministry of Environment, Forest and Climate Change. They were directed to file status-cum-compliance report in terms of the orders of the Hon'ble Supreme Court. Accordingly, various status reports have been filed. An affidavit has been filed by the Ministry of Environment, Forest and Climate Change dated 04th July, 2017 stating as follows: *"4. That the answering Respondent is engaged in policy formulation, prescribing standards and its implementation through the Central Pollution Control Board (CPCB), State Pollution Control Boards (SPCBs) and Pollution Control Committees (PCCs) for UTs. This Ministry has written to all SPCBs and PCCs as well as to CPCB to ensure compliance of the judgment of the Hon'ble Supreme Court and to submit detailed compliance report.*

2

24

07/24

Item No. 12 August 03, 2018 A	*5. That the CPCB has also followed up with all SPCBs and PCCs through letters and review meetings to ensure compliance of the aforementioned judgment and that the matter was also discussed in the 62nd Conference of the Chairmen and Member Secretaries of SPCBs and PCCs held on 27.06.2017. That 26 SPCBs/PCCs have submitted the compliance report which has been summarised at Annexure-I.* *6. That the CPCB has also carried out inspections of 17 categories of industries to verify compliance with its directions issued on online effluent/emission monitoring system and to cross-verify online results with manual sampling. During February-June, 2017, 64 industries were inspected and directions under section 5 of the Environment (Protection) Act, 1986 have been issued to 24 non-complying industries; 18 industries were complying; 8 were found closed and inspection reports of 14 industries are under process.* *7. That the CPCB and NMCG through 11 technical institutions, inspected 751 industries located in the River Ganga main stem during March-April, 2017 to verify the status of installation and connectivity of industries discharging effluents as well as their compliance with the standards. Closure directions have been issued to 154 industries; show cause notices issue to 36 industries; 149 industries were found complying and direction issued to 91 self-closed Grossly Polluting Industries (GPI) to remain closed; 93 GPI units were found closed as per directions; 38 GPI units found operational in violation of closure directions and inspection reports of 190 industries are under process".* 3. We have heard learned Amicus Curiae Sh. Jai A. Dehadrai and the learned counsel for Ministry of Environment, Forest and Climate Change, Central Pollution Control Board, various State Pollution Control Boards and the Pollution Control Committees. 4. Learned Amicus Curiae has drawn our attention to orders dated 04.07.2017, 18.09.2017 and 11.10.2017 of the Tribunal directing the State Pollution Control Boards to file a statement as to how many Industrial Units discharging trade effluents or causing emissions exist in the State, how many are having their own STPs, ETPs and/or connected to Common Effluent Treatment Plant

25

07/25

	Item No. 12 August 03, 2018 A	(CETP), whether any such CETP or ETP or STP is properly functioning and treating the effluents as per prescribed limits or not. 5. Learned Amicus Curiae submitted that contamination of water due to industrial effluents can lead to various diseases and adverse consequences on the aquatic organism due to decreased level of oxygen. The use of technology can help reduction of adverse consequences. However, the best solution is to prevent pollution by soil conservation and proper disposal of toxics and chemicals which may include chemical recycling. 6. Having monitored the matter for the last more than one year on several dates, we are of the view that the matter requires continuous monitoring by statutory authorities as per directions which we proceed to issue today. (i) We direct the Central Pollution Control Board (CPCB) to forthwith prepare an action plan after looking into all the status reports. The action plans must have mechanism to ensure compliance or all the directions in the order of the Hon'ble Supreme Court. To enable this to be done, a Nodal officer must be identified to deal with the issue of CETPs/ ETPs/STPs. (ii) A representative of the Ministry of Environment, Forest and Climate Change may be associated with the Nodal Officer of the CETP for monitoring. The Monitoring by the said two officers- the representative of the MoEF and the Nodal Officer of the CPCB must be held atleast once in a month and on the basis of such meeting and the feedback taken further follow up action must be taken and

4

26

07/26

		appropriate directions issued. This process may be a continuous process.
	Item No. 12 August 08, 2018 A	(iii) It must be ensured that STPs, CETPs and ETPs are functional and meet the requisite standards. (iv) There is already a direction in the above judgment under which 50% of the funds for the purpose are to be provided by the Central Government, 25% by the States and remaining 25% to be arranged by way of loans which is to be re-paid by the user industries. Local bodies and the States have duties as clearly stipulated in the judgment. There has to be online monitoring system by each State to display emission levels in public domain in terms of paragraph 17 of the order of the Hon'ble Supreme Court. (v) A report of the steps taken may be placed on the website of the Central Pollution Control Board atleast once in three months. Deficiencies if any may also be so displayed. (vi) The Central Pollution Control Board may take penal action for failure, if any, against those accountable for setting up and maintaining STPs, CETPs and ETPs Central Pollution Control Board may also assess and recover compensation for damage to the environment and the said fund be kept in a separate account and utilized in terms of an action plan for protection of the environment. Such action plan may be prepared by the Central Pollution Control Board within three months from today. (vii) A compliance report in terms of the above order may be furnished to this Tribunal within four months from today by e-mail at filing.ngt@gmail.com.

07/27

Item No. 12 August 03, 2018 A	(7) Proceedings are disposed of. However, the report received from the Central Pollution Control Board may be placed for consideration before this Tribunal on 04.09.2018. We place on record our appreciation for the services rendered by the learned Amicus Curiae. .....CP (Adarsh Kumar Goel) .....JM (Dr. Jawad Rahim) .....JM (S.P. Wangdi) .....EM (Dr. Nagin Nanda) 03.08.2018

6

28

28

Annexure-II

Comments Received from Various RDs on Draft Report for Environmental Compensation

S. No.	Item	RD Kolkata	RD Vadodara	RD Bangaluru	RD Lucknow	Committee Deliberations
1	Case- a, b & c	Bypassing of effluent/emission should be given special consideration. EC levied on ROG categories of industries should be on the basis of inspection by CPCB, complaint verification and routine inspection.	Instead of "Compensation", "Penalty" word should be used. In case common facilities like CETPs, factor may be introduced based on member industries. Clarify the applicability of penalty in addition to closure directions for pro-longed and gross non-compliance.			The Committee discussed that the points highlighted by RD Kolkata are already the part of cases fit for violation and levy environmental compensation. However, as mentioned by RD Vadodara, word "Penalty" may be used for case a, b and c. For CETPs, a factor may be considered in future based on the capacity of the plant.
2	Case- d, e & f	Higher rates for irreparable damages crop, soil, health etc. Leakages/spillage should have different compensation value.	It should be mentioned that instances d, e & f shall be dealt for environmental compensation in line with the polluter pays principle, besides of environmental penalty for cases a, b and c.	Similar to 'Guidelines on Liabilities for Environmental Damages due to Handling & Disposal of Hazardous Waste and Penalty', Guidelines may be prepared.		Suggestions made by RD Kolkata and Vadodara has already been taken care. Concept of environmental compensation is based on the philosophy of "polluters pay" and for grieve injury to environment, compensation will be charged as per the assessment of remediation cost, on case to case basis.
3	Pollution Index (PI)			Instead of average PI, Actual PI may be used.		Committee suggested that to make the implementation of EC simple and easy, use of average PI may be considered for calculation of EC.
4	R-factor	Should be based on pollution load. For ex. Amount of BOD/NOx etc. discharged		May be classified based on the contribution of pollution load based on quantity of effluent, concentration, emissions	May be as per the category of industry, for ex. Red-500, Orange-300, Green-100.	As PI is based on the pollution load, suggestion of RDs are already taken care in the formula.
5	L-factor			May be redefined based on the features, activities involved and habitation.		L-factor may be covered in future as already indicated in the report.

07/08

Annexure-II

S. No.	Item	RD Kolkata	RD Vadodara	RD Bengaluru	RD Lucknow	Committee Deliberations
6	Defining period of violations for which EC will be levied		Duration of violations needs more clarity.	For industry having OCEMS, no. of days may be counted based on the recorded data. Industry without OCEMS-based on break down of ETP/APCD, disturbance of power supply or any failure of auxiliary machineries w.r.t. control system.	May be clearly defined as the period between the day of violation observed and the day of compliance verified by CPCB/SPCB/PCC.	The committee agreed that period of violation for which EC may be levied will be the period between the day of violation observed and the day of compliance verified by CPCB/SPCB/PCC.
7	Repeated Violations		Some number of days may be specified after which the penalty amount may get a factor of 1.5 or 2.		Multiplying factor for repeated violations may be included. For ex. 1st Repetition- 25% 2nd Repetition- 50% 3rd Repetition- 100%.	For habitual offenders, higher amount of penalty/compensation may be charged in future.
8	Utilization of fund	An environmental damage assessment cell may be created. Expertise in the field may be achieved by involving scientist/engineers and providing them training in country/abroad.	Amount should not be utilized for a) Industrial Inspections for compliance verification, b) Installation of Continuous water quality monitoring stations / Continuous ambient air quality monitoring stations for strengthening of existing monitoring network, c) Preparation of Comprehensive Industry Documents on Industrial Sectors / clean technology f) Funding to financially weaker municipalities for installation of STPs The amount should be utilized solely for damage assessment, remediation of affected sites, orphan contaminated sites and creating awareness. The purpose should not get inclined towards revenue generation.			RD Vadodara suggested that amount should be utilized only for remediation purpose. However, committee discussed that the proposal for utilization of fund is prepared considering the other aspects (i.e. direct and indirect) for protection of environment, which include research, monitoring etc. Suggestion of RD Kolkata may be considered in future.

07/29

			Thus, the functional fabric of CPCB shall remain intact.			
9	Others	Higher I.C for non-installation of pollution control measures Expected sources should have different scoring methodology based on their weightage.				The committee discussed that CPCB is already taking appropriate action including closure direction against the industries found operating without pollution control measures.

07/30

Comments Received from Various Expert Institutions on the Report on Environmental Compensation

As per the Hon'ble NGT suggestion, CPCB has invited comments of 3 expert institution, namely, Centre for Science and Environment (CSE), Institute of Economic Growth (IEG) and The Energy Research Institute (TERI). CSE and IEG has provided their comments, however, TERI has not provided any response. The CPCB in-house committee on Environmental Compensation has deliberated on the comments and finalized the report accordingly. The Committee's deliberations are summarized in table below:

S. No.	Item	Comments of CSE	Comments of IEG	Committee's Deliberations
1	Cases 'e' and 'f'		Why cases 'e' and 'f' are left for later remediation and study?	There may be a varied damage to the environment as considered in cases 'e' and 'f'. Such damage assessment requires detailed case specific study and remediation measures. Therefore, whenever such case comes into the notice, Environmental Compensation may be levied based on the detailed investigation made by Expert Institutions/Organizations.
2	R-factor	R-factor should be Rs. 1,000/day.	Why R-factor is kept as 250, although the value ranges between 100 to 500?	In the Environmental Compensation policy, average value of the R-factor as 250 is recommended, keeping in view both its practicability as well as to make it significantly deterrent, which may be further revised in future.
3	L-factor	L-factor should be based on the population density of surroundings, instead of population of the nearby city/town. For critically polluted areas/ ecologically fragile areas LF should be considered as 2.	For nearby city, having population less than 1 million, the LF is 1. This implies that we care only for populated regions only. Industries located in critically polluted and ecologically fragile area should be closed down.	Population density for surrounding of industrial units will be complex because it will vary depending on area used in calculation of population density as industrial units are generally away from population. More weightage is given to the higher population exposure to the risk. In case the industry is located in the city of population less than one million than the LF Factor will be 1. Depending on the local environmental conditions, the restrictions on expansion and modernization of industries in critically polluted areas are imposed as per the prevailing policy of the Government of India. Similarly, industries in ecologically fragile areas are permitted after careful examination, as per prevailing policy of MoEFCC/SPCB. The Committee agreed that for notified ecologically fragile areas, LF may be considered as 2. However, LF for critically polluted areas may be explored in future.

07/31

Annexure-III

S. No.	Item	Comments of CSE	Comments of IGG	Committee's Deliberations
4	S-factor	S-factor should be based on the turn-over of the industrial unit.		Presently industrial units are classified into small, medium and large category (MSME Act, 2006) based on the data of assets/infrastructure available with them. The data for turnover of industrial units are not available with SPCBs/PCCs and S-factor based on turnover will complicate the procedure for calculation of EC. This may be considered in future when SPCBs/PCCs will have such type of data.
5	Level of non-compliance	For different level of non-compliance such as gross, moderate and low, a factor for 'intensity of violation', IV-factor should be incorporated in the formula.		Pollution Index (PI) itself covers the potential of environmental pollution as its calculation considers variation in pollution load. To keep the formula simple for better implementation, the IV factor may not be considered as there are different environmental parameters such as environmental standards and for each standard calculation of level of violation and its weightage will be a tedious task, which may bring difficulty in implementation of EC concept.
6	Utilization of fund		Incentives to regulators where no violations are observed and incentives to public for reporting violations may be provided.	Such schemes may be considered separately.
7	GRAP		Size of the construction sites more than 20,000 sqm. area are considered for EC. Although, small sites cumulatively impact significantly. Illegal dumping of municipal solid waste regardless of the place should be penalized.	As per the EIA Notification, 2006, building construction projects more than 20,000 sqm. area are required to have environmental clearance, therefore, the same cut-off is maintained here. Issue of illegal dumping of municipal solid waste is being covered in separate report of EC.

27

07/32

07/33

Annexure-IV

Item Nos. 01 & 02 Court No. 1

BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI

Original Application No. 125/2017
(M.A. No. 1337/2018)
With
Original Application No. 217/2017
(M.A. Nos. 761/2017, 1073/2017,
1093/2017 & 1471/2017)

Court on its own Motion — Applicant(s)
Versus
State of Karnataka — Respondent(s)

With

D. Kupendra Reddy — Applicant(s)
Versus
State of Karnataka — Respondent(s)

Date of hearing: 06.12.2018

CORAM: HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON
HON'BLE MR. JUSTICE S.P. WANGDI, JUDICIAL MEMBER
HON'BLE MR. JUSTICE K. RAMAKRISHNAN, JUDICIAL MEMBER
HON'BLE DR. NAGIN NANDA, EXPERT MEMBER

Original Application No. 125/2017
(M.A. No. 1337/2018)

For Applicant(s): Mr. Sajan Poovayya, Sr. Advocate and Mr. Sripash Jain, Advocate for impleaded applicant – Hosakai Bengaluru Foundation
Mr. Vikram Hegde, Advocate for impleading applicant

For Respondents (s): Mr. Dhanaj Ashok, Advocate
Mr. Pajikumar, Advocate and Ms. Sonia, LA
Ms. Nidhi Mahendra, Advocate

Original Application No. 217/2017
(M.A. Nos. 761/2017, 1073/2017,
1093/2017 & 1471/2017)

For Applicant(s): Mr. Gunjet Khetan, Mr. Tarunvir Singh Khetan, Mr. P. Ramaprakash and Mr. Sandeep Mishra, Advocates

For Respondents (s): Dr. Abhishek Atrey, Advocate
Mr. Pajikumar, Advocate and Ms. Sonia, LA

ORDER

1. The issue for consideration in the two matters, one initiated by the Tribunal on its own motion and the other filed by an individual relates to contamination of water bodies at Bengaluru - Bellandur lake, Agara lake and Varthur lake *inter-alia*, on account of discharge of untreated sewage and other effluents from

1

34

their performance should be recorded and considered favourably or otherwise for their career progression.

xv. Similar exercise as (xiv) may be undertaken to identify officers responsible for failure in the past. Such exercise may be completed within three months from today.

xvi. Since failure of preventing the pollutants being discharged in water bodies (including lakes) and failure to implement solid and other waste management rules are too frequent and widespread, the CPCB must lay down specific guidelines to deal with the same, throughout India, including the scale of compensation to be recovered from different individuals/authorities, in addition to or as alternative to prosecution. The scale may have slabs, depending on extent of pollution caused, economic viability, etc. Deterrent effect for repeated wrongs may also be provided.

xvii. MoEF&CC may specify limit for phosphorus in soaps and detergents to prevent damage to the environment and public health.

27. The above amount in the present case has been determined having regard to the estimated cost of setting up of STPs, based on the data available, which has been assessed with the assistance of the learned Counsel for the parties.

28. We have nominated Justice Santosh Hegde on information being provided during the hearing that he is agreeable to undertake the above job.

29. Justice Hegde will be entitled to a token honorarium of Rs. 2.5 Lakh per month from the date he assumes the charge. Justice Hegde will be entitled to assistance of persons of his choice for which remuneration will be paid by the SPCB, Karnataka as may be determined by Justice Hegde.

07/35

References

1. Bureau of Indian Standards. 1993. IS1172:1993 (Reaffirmed 2002). *Code of Basic Requirements for Water Supply, Drainage and Sanitation (Fourth Revision)*. New Delhi: BIS.
2. Census of India. 2011. Census of India's website. [Online]. [Accessed 15 February 2019]. Available from: http://censusindia.gov.in/2011-prov-results/paper2/data_files/India2/1.%20Data%20Highlight.pdf.
3. Central Pollution Control Board. 2013. *Performance Evaluation of Sewage Treatment Plants under NRCD. Delhi*: CPCB.
4. Central Pollution Control Board. 2016. *Graded Response Action Plan for Delhi & NCR*. Delhi: CPCB.
5. Central Pollution Control Board. 2016. *Final Document on Revised Classification of Industrial Sectors Under Red, Orange, Green and White Categories*. Delhi: CPCB.
6. CPHEEO. 2013. *Manual on Sewerage and Sewage Treatment Systems – 2013, New* Delhi: Ministry of Urban Development, Government of India.
7. CPHEEO. 2016. *Manual on Municipal Solid Waste Management – 2016. New* Delhi: Ministry of Urban Development, Government of India.
8. Ministry of Micro, Small and Medium Enterprises. 2006. *The Micro, Small and Medium Enterprises Development Act, 2006. 2nd October, 2006, vide notification No. S.O. 1154(E) dated 18th July, 2006, see Gazette of India, Extraordinary Part II sec.3(ii)*, Government of India.
9. *Plastic Waste Management Rules, 2016*. (G.S.R. 320 (E) [18-03-2016]). New Delhi: Ministry of Environment Forest and Climate Change, Government of India.
10. *Solid Waste Management Rules, 2016*. (S.O. 1357(E) [08-04-2016]). New Delhi: Ministry of Environment Forest and Climate Change, Government of India.

HARYANA STATE POLLUTION CONTROL BOARD
C-11 Sector-6, Panchkula
Ph – 0172- 577870-73, Fax No. 2581201
E-mail- hspcbhc@gmail.com

07/36

Annexure – II

Office Order

Whereas, modality/methodology for assessing, imposing and utilization of environmental compensation (EC) from the polluting units in the State of Haryana for causing damage to the environment, was issued vide Head Office Order Endst. No. HSPCB/PLG/2019/6043-75 dated 29.04.2019;

Whereas, Hon'ble NGT also issued directions vide order dated 10.07.2019 in OA No. 1038/2018 that in the absence of exact date of violation, the environmental compensation should be imposed for last 5 years as specified in section 15 of the National Green Tribunal Act, 2010;

Whereas, matter has been examined at Board level and it has been decided to implement the above said orders of the Hon'ble NGT with regard to duration of violation of assessment of environmental compensation;

Therefore in view of above and in partial modification of this office order endst. No. HSPCB/PLG/2019/6043-75 dated 29.04.2019, it is hereby ordered that in case where unit is compliant as per last inspection for water pollution norms and/or air pollution norms and/or other pollution norms, date of last inspection (i.e. prior to the present violation) should be considered as commencing date for computation of environmental compensation for discharge and/or emission and/or other pollution norms and in case where status of inspection and exact date of violation is not available, the environmental compensation should be imposed for last 5 years.

These orders shall come into force with immediate effect.

Ashok Khetarpal
Chairman

Dated Panchkula, the
17th December, 2019

Dated:

Endst. No. HSPCB/PLG/2019/

A copy of the above is forwarded to the following for information please in continuation of this office order Endst. No. HSPCB/PLG/2019/6043-50 dated 29.04.2019:-

1. The Chief Secretary to Govt. Haryana, Chandigarh
2. The Chairman, Central Pollution Control Board, East Arjun Nagar, New Delhi.
3. The Additional Chief Secretary to Govt. Haryana, Department of Environment and Climate Change, Chandigarh.
4. The Additional Chief Secretary to Govt. Haryana, Industries and Commerce Department, Chandigarh.
5. The Additional Chief Secretary to Govt. Haryana, Public Health and Engineering Department, Chandigarh.
6. The Principal Secretary to Govt. Haryana, Urban Local Bodies Department, Chandigarh.
7. The Principal Secretary to Govt. Haryana, Irrigation Department, Chandigarh.
8. The Principal Secretary to Govt. Haryana, Town and Country Planning Department, Chandigarh

Sr. Environmental Engineer-I (HQ)
For Chairman

Dated: 20/12/19

Endst. No. HSPCB/PLG/2019/ 7402-763

A copy of the above is forwarded to the following for information and immediate necessary action in continuation of this office order Endst. No. HSPCB/PLG/2019/6051-73dated 29.04.2019:-

1. All section Incharges in Head Office of the Board.
2. All Regional officers of the Board in the field.
3. Nodal Officer (IT) for uploading the order on the website of the Board.

Sr. Environmental Engineer-I (HQ)
For Chairman

Dated:

Endst. No. HSPCB/PLG/2019/

A copy of the above is forwarded to the following for information of the officers please in continuation of this office order Endst. No. HSPCB/PLG/2019/74-75 dated 29.04.2019:-

1. P.S. to Chairman.
2. P.A. to Member Secretary.

Sr. Environmental Engineer-I (HQ)
For Chairman

07/37

Annexure - III

HARYANA STATE POLLUTION CONTROL BOARD
C-11 Sector-6, Panchkula
Ph – 0172- 577870-73, Fax No. 2581201
E-mail- hspcbsee@gmail.com
Website: hspcb.gov.in

Order

Whereas, the Central Pollution Control Board (CPCB), in compliance of the directions issued by the Hon'ble National Green Tribunal on 03.08.2018 in Original Application No. 593 of 2017 Paryavaran Suraksha Samiti & Another Vs. Union of India, prepared 'Modalities/Methodology for Assessing, Imposing and utilization of Environmental Compensation'. The CPCB submitted the report to Hon'ble National Green Tribunal and the same was accepted by the Hon'ble National Green Tribunal on 25.06.2019 and the Hon'ble NGT directed to act upon as interim measure

Whereas, in the 63rd conference of Chairmen and Member Secretaries of PCB's/PCC's held on 18.03.2019, it was decided that SPCB's/PCC's may frame their guidelines on Environmental Compensation (EC) as per the report submitted by CPCB with regard to modalities/methodology for assessing, imposing and utilization of Environmental Compensation. The CPCB circulated the report of discussion and decisions taken in above meeting to all SPCB's/PCC's.

Whereas, the Haryana State Pollution Control Board, after consideration of the report of CPCB, decided to adopt the Modalities/Methodology for Assessing and Utilization of EC and issued orders vide no. HSPCB/PLG/2019/6043-50 dated 29.04.2019.;

Whereas, the Haryana State Pollution Control Board, in compliance of order of Hon'ble National Green Tribunal passed on 10.07.2019 in Original Application No. 1038 of 2019, partially modified the order dated 29.04.2019 with regard to computation of Environmental Compensation vide order HSPCB/PLG/2019/734-765 dated 20.12.2019 and made some amendments.

Whereas, the Haryana State Pollution Control Board received several representation from various industrial units and other affected projects to reconsider the policy of levying Environmental Compensation. The Technical Advisory Committee (TAC) of the Board, in its meeting held on 22.11.2021, examined the representations and recommended that the existing policy and procedure for assessing the Environmental Compensation needs to be revised.

Whereas, after considering of relevant facts and the minutes dated 22.11.2021 of the TAC, it has been decided to revise the Modalities/Methodology for Imposing and Utilization of Environmental Compensation issued by the Board vide HSPCB/PLG/2019/734-765 dated 20.12.2019 and HSPCB/PLG/2019/6043-50 dated 29.04.2019.

Therefore, in supercession of the orders issued vide no.HSPCB/PLG/2019/734-765 dated 20.12.2019 and HSPCB/PLG/2019/6043-50 dated 29.04.2019, the procedure for examining, assessing and imposing the Environmental Compensation on Industrial Units or Other Authorities, found violating the provisions of the various Acts & Rules, who caused damaged the environment of the State of Haryana, is hereby revised as enclosed here with at Annexure-A with immediate effect

P.Raghavendra Rao, IAS (Retd.)
Chairman

Dated Panchkula, the
22nd December, 2021

Endst. No. HSPCB/PLG/2021/ 2343-2350 Dated: 22-12-2021

A copy of the above is forwarded to the following for information please:-

1. The Chief Secretary to Govt. Haryana, Chandigarh
2. The Additional chief Secretary to Govt. Haryana, Town & Country Planning Department, Chandigarh.
3. The Additional chief Secretary to Govt. Haryana, Irrigation Department, Chandigarh.
4. The Additional chief Secretary to Govt. Haryana, Dept. of Environment & Climate Change Chandigarh.
5. The Principal Secretary to Govt. Haryana, Public Health Engineering Department, Chandigarh.
6. The Principal Secretary to Govt. Haryana, Urban Local Bodies Department, Chandigarh.
7. The Chairman Central Pollution Control Board, East Arjun Nagar, New Delhi
8. The Principal Secretary to Govt. Haryana, Industries & Commerce Department, Chandigarh.

Sr. Environmental Engineer(PLG)
For Chairman

Endst. No. HSPCB/PLG/2021/ 2351-79 Dated: 22-12-2021

A copy of the above is forwarded to the following for information and further necessary action:-

1. All Branch Incharges in Head Office.
2. All Regional Officer, in the field.
3. Branch Incharge-IT Cell for uploading the order on the website of the Board.

Sr. Environmental Engineer (PLG)
For Chairman

Endst. No. HSPCB/PLG/2021/ 2380-81 Dated: 22-12-2021

A copy of the above is forwarded to the following for information of the officers please:-PS to Chairman.

1. PS to Chairman
2. PA to Member Secretary

Sr. Environmental Engineer(PLG)
For Chairman

07/38

METHODOLOGY FOR ASSESSMENT ENVIRONMENTAL COMPENSATION

HARYANA STATE

HSPCB

HARYANA STATE POLLUTION CONTROL BOARD

C-11, SECTOR-6, PANCHKULA

Website: www.hspcb.gov.in, Email: hspcbho@gmail.com

Index

Sr. No.	Contents		Page No.
1.	Background of Environment Compensation.	---	2
2.	Area of applicability.	---	3
3.	Formula of Calculation of Environmental Compensation.	---	4
4.	Procedure to impose Environmental Compensation	---	5
5.	Action to be taken in case failure to deposit Environmental Compensation.	---	6
6.	Environment Compensation to be levied for various violation by Industrial Units.	Chapter-1	7
7.	Environmental Compensation to be levied for all violations of Graded Response Action Plan (GRAP) in NCR	Chapter-2	9
8.	Environmental Compensation to be levied for failure of preventing the pollutants being discharged in water bodies	Chapter-3	10
9.	Environment Compensation for Discharge of Untreated/Partially Treated Sewage by Concerned Individual/Authority	Chapter-4	13
10.	Environment Compensation to be levied on Concerned Individual/Authority for Improper Solid Waste Management.	Chapter-5	14
11.	Environmental Compensation to be levied for various violations of Healthcare facilities (HCFs)	Chapter-6	15
12.	Environmental Compensation to be levied for various violations for Common Biomedical Waste Treatment Facility (CBWTF).	Chapter-7	17
13.	Environmental compensation to be levied for various violation of HOWM Rules, 2016	Chapter-8	19
14.	Performa for recommendation for environmental compensation by Regional Officer.	Annexure-A	27

Background of Environment Compensation

The Hon'ble National Green Tribunal (NGT), Principal Bench in the matter of OA No. 593/2017 (WP (CIVIL) No. 375/2012, Paryavaran Suraksha Samiti & Anr. Vs. Union of India & Ors. directed Central Pollution Control Board (CPCB) that:

"The CPCB may take penal action for failure, if any, against those accountable for setting up and maintaining STPs, CETPs and ETPs. CPCB may also assess and recover compensation for damage to the environment and said fund may be kept in a separate account and utilized in terms of an action plan for protection of the environment. Such action plan may be prepared by the CPCB within three months"

On the directions of Hon'ble NGT dated 03.08.2018 in the matter of OA No. 593/2017 (WP (CIVIL) No. 375/2012, Paryavaran Suraksha Samiti & Anr. Vs. Union of India & Ors, CPCB has prepared Methodology for Assessing Environmental Compensation. The Methodology prepared by CPCB has been accepted by Honble NGT vide orders dated 28.08.2019 in same case.

The Central Pollution Control Board vide letter dated 10.04.2019 circulated record notes of discussion and decision taken in 63rd conference of Chairman and Member Secretary of PCBs/Committees held on 18.03.2019, wherein it has been decided that SPCBs/PCCs may frame their guidelines on Environmental Compensation (EC) based on CPCB's report.

Accordingly, HSPCB vide order no. HSPCB/PLG/2019/6043-50 dated 29.04.2019 has adopted the modalities/methodology for assessing, imposing and utilization of environmental compensation from the polluting units in the State of Haryana. The Environment compensation assessment committee constituted at head office level vide order Endst. No. HSPCB/2019/6094-6119 dated 06.05.2019 for examination and finalization of environment compensation report submitted by the Regional Officers.

Hon'ble NGT in its order dated 19.11.2019 in the matter of OA No 1038/2019 held that in absence of exact date of violation environment compensation should be imposed for last 5 years. Hon'ble NGT has also given the reference of orders of Hon'ble Supreme Court of India in matter of Indian Council for Enviro Legal Action & Ors. Vs. Union of India & Ors., (1996) 3 SCC 212 Para 16 and in matter of Vellore Citizens Welfare Forum Vs. Union of India & Ors. (1996) 5 SCC 647 Para 12-18 –holding that "Polluter Pay" principle is accepted principle and part of environmental law of the country, even without specific statute.

Thereafter, HSPCB vide order Endst. No. HSPCB/PLG/2019/734-765 dated 20.12.2019 partially modified this office order dated 29.04.2019 regarding date of computation of environment compensation.

Hon'ble NGT vide orders dated 12.03.2019 in OA No. 710 of 2017 held that SPCBs are also authorized to recover compensation from polluters or laying down their own scale which should be not less than that fixed by CPCB.

In supersession of earlier orders of board, the revised procedure for examining and assessing the environmental compensation submitted by regional officer of HSPCB, ECAC and branch in charges is as follows:-

Area of applicability

The Cases for levying environmental compensation are as under:-

a. Units discharging the environmental pollutants in excess of the standards prescribed under EP Rules, 1986 and as prescribed in the consent granted to such units under Water Act, 1974/Air Act, 1981.

b. Non-compliance of the any directions issued by the State Board under the provisions of Water Act, 1974, Air Act, 1981 and EP Act, 1986.

c. Non-adherence to the action plans submitted by unit to the Board for making compliances.

d. Failure to install Online Continuous Emission/ Effluent Monitoring system, intentional avoidance of data submission or data manipulation by tampering OCEMS

e. Accidental discharges lasting for short durations resulting into damage to the environment.

f. Intentional discharges of effluent and/or emissions to the environment including bypassing the pollution control devices on land, water and air, which results damages to the environment.

g. Injection of treated/partially treated/ untreated effluent to ground water.

h. Discharge of untreated/partial treated Sewage by STP and/or CETP

i. Failure of preventing the pollutants being discharged in water bodies.

j. Operating without obtaining prior consent to operate under the Water (Prevention and Control of Pollution) Act, 1974 and/or Air (Prevention and Control of Pollution Act, 1981.

k. Operating without installation pollution control devices of water and/or emission.

l. Failure to implement responsibilities assigned /stipulated for CBWTF and Health care facilities covered under provisions of Bio Medical Waste Management Rules 2016 (as amended).

m. Failure to implement responsibilities assigned /stipulated for industrial sectors/units/CHWDF under provisions of Hazardous Waste Management Rules 2016 (as amended).

n. Failure to implement responsibilities assigned /stipulated for industrial sectors/units/CHWDF under provisions of Solid Waste Management Rules 2016 (as amended)

o. Failure to implement other Waste Management Rules.

p. All violations of Graded Response Action Plan (GRAP) in Haryana NCR area.

q. Any other violation of Environmental act/rule/policy not covered above. In such cases concerned regional officer shall forward the case to ECAC mentioning all details of violation and grounds on which EC is recommended to be levied.

Formula of Calculation of Environmental Compensation

The assessment of environment compensation shall be carried out as per methodology and guidelines prepared by CPCB and accepted by Hon'ble NGT for cases specifically mentioned below:-

1. Environment Compensation to be levied for various violation by Industrial Units.
2. Environmental Compensation to be levied for all violations of Graded Response Action Plan (GRAP) in NCR.
3. Environmental Compensation to be levied for failure of preventing the pollutants being discharged in water bodies.
4. Environment Compensation for Discharge of Untreated/Partially Treated Sewage by Concerned Individual/Authority
5. Environment Compensation to be levied on Concerned Individual/Authority for Improper Solid Waste Management
6. Environmental Compensation to be levied for various violations of Healthcare facilities (HCFs).
7. Environmental Compensation to be levied for various violations for Common Biomedical Waste Treatment Facility (CBWTF).
8. Environmental compensation to be levied for various violation of HOWM Rules, 2016.

Note :-

i. The Number of days for which violation took place shall be counted as suggested in methodology and guidelines prepared by CPCB for calculation of EC. The duration of violation in terms of number of days may be different for various violations, In such case, the amount will be calculated individually for different violations and added. Further in case, Honble NGT, Honble High court, Honble Apex court or any

other legal forum, issue orders regarding the number of days then same shall be taken into account for calculation of EC.

ii. In case of results of sample found beyond the prescribed limits, the number of days shall be counted from the date of non compliance observed to the date of implementation of closure order or date of compliance verified. The analysis report submitted with compliance shall be from laboratory of Board or laboratory recognized by the Board.

iii. In absence of exact date of violation environment compensation should be imposed for last 5 years.

iv. In specific cases, where the Board is of the view that the damages caused to the environment are of such magnitude that it may require enormous efforts/money to restore the environment or reconstruct/repair property, a detailed study may be ordered to be carried out by ECAC through one or more expert agencies/institutions to assess such damages and work out the cost of restoration and environment compensation to be levied on polluters. The expenditure incurred on such study (studies) shall be borne by the polluters.

Procedure to impose Environmental Compensation

1. Concerned RO will issue the Show cause notice of 15 days to the unit mentioning the ground on which EC is proposed to be imposed and tentative amount of EC to be levied.
2. After expiry of period of SCN, concerned RO will carry out assessment of EC after examining the reply submitted by unit (in case received). Accordingly concerned RO will submit the detailed report to head office within 07 days.
3. The environment assessment report recommended by RO will be checked by Branch/Cell Incharge and submitted to ECAC alongwith details of violations and grounds on which EC is being recommended on the industrial sector/non industrial sector / units within a period 07 days.
4. The Environmental Compensation assessment Committee (ECAC) will examine and finalize amount of EC to be imposed, within 15 days' time from receipt of the details from the concerned branch.
5. The amount finalized by ECAC will be processed by concerned branch in head office and to place before competent authority for final orders of imposition of EC on defaulting units. The competent authority for issuing direction for levy and deposition of EC will be the same as prescribed for issuing direction under section 33-A of Water Act, 1974, section 31-A of Air Act, 1981and section 5 of EP Act, 1986.

Action to be taken in case failure to deposit Environmental Compensation

a. EC imposed will need to be deposited by Project Proponent at concerned Regional Offices within a period of 30 days from issue of directions. In case of failure to deposit EC amount within 30 days, concerned RO will follow up with defaulting unit and issue show cause notice intimating the further course of action proposed to taken.

b. The cases of new/renewal of CTO, suspension of closure order of the defaulting unit shall not be entertained until and unless the EC is deposited.

c. Legal actions against the defaulter in accordance with law shall also be initiated against the unit by concerned RO.

d. Incase PP fails to deposit EC after expiry of six months, the concerned RO shall request to concern Deputy Commissioner to recover the EC amount in accordance with law of Haryana Land Revenue Act or any other Act for the time being in force.

Chapter-1

Environment Compensation to be levied for various violation by Industrial Units:-

The environmental compensation for the industries will be calculated as per the following formula:

EC=PI X N X R X S X LF

Where,

EC is Environmental Compensation in ₹
PI = Pollution Index of industrial sector
N = Number of days of violation took place
R = A factor in Rupees (₹) for EC
S = Factor for scale of operation
LF = Location factor

Pollution Index (PI)

The range of Pollution Index for Red, Orange and Green is 60 to 100, 41 to 59 and 21 to 40, respectively.

The following values of PI have been suggested in the CPCB report:—

Category	Red	Orange	Green
PI	80	50	30

Number of days (N)

N, number of days for which violation took place is the period between the day of violation observed/due date of direction's compliance and the day of compliance verified by Regional office

Factor in Rupees (R)

The minimum of 100 and maximum of 500 of factor in Rupees (R) mentioned in report of CPCB.

The CPCB has suggested R as 250 for calculation of the Environmental Compensation in cases of violation.

Factor for scale of operation (S)

The following values of PI have been suggested in the CPCB report:—

Category	Small/micro	Medium	Large
S	0.5	1.0	1.5

Location factor (LF)

Value of Location Factor will be based on population of the city/town and location of the industrial activity. For the industrial unit located within municipal boundary or up to 10 Km. distance from the municipal boundary of the city/town, following values of location factors (LF) have been suggested in the CPCB report based on the population of the city/town

S. No.	Population (In Lacs)*	Location Factor
	Upto one lac	1.0
	1 to <5	1.25
	5 to <10	1.5
	10 and above	2.0

*Population of the city/town as per the latest Census of India

LF will be 1.0 in case unit is located at a distance> 10 Km. from the municipal boundary.

LF is presumed as 1 for city/town having population less than 1 million.

In any case, minimum Environmental Compensation shall be ₹ 5000/day.

Chapter-2

Environmental Compensation to be levied for all violations of Graded Response Action Plan (GRAP) in NCR.

The CPCB has suggested the following EC to be levied on all violations of Graded Response Action Plan (GRAP) in Delhi NCR:-

Activity	State Of Air Quality	Environmental Compensation
Industrial Emissions	Severe +/Emergency	Rs 1.0 Crore
	Severe	Rs 50 Lakh
	Very Poor	Rs 25 Lakh
	Moderate to Poor	Rs 10 Lakh
Vapour Recovery System (VRS) at Outlets of Oil Companies		
i. Not installed	Target Date	Rs 1.0 Crore
ii. Non-functional	Very poor to Severe +	Rs 50.0 Lakh
	Moderate to Poor	Rs 25.0 Lakh
Construction sites (Offending plot more than 20,000 Sq.m.)	Severe +/Emergency	Rs 1.0 Crore
	Severe	Rs 50 Lakh
	Very Poor	Rs 25 Lakh
	Moderate to Poor	Rs 10 Lakh
Solid waste/ garbage dumping in Industrial Estates	Very poor to Severe +	Rs 25.0 Lakh
	Moderate to Poor	Rs 10.0 Lakh
Failure to water sprinkling on unpaved roads		
a) Hot-spots	Very poor to Severe +	Rs 25.0 Lakh
b) Other than Hot-spots	Very poor to Severe +	Rs 10.0 Lakh

Chapter-3

Environmental Compensation to be levied for failure of preventing the pollutants being discharged in water bodies.

Environmental Compensation Formula

The CPCB has suggested that environmental compensation in these cases should be comprised of two components i.e.

1. Cost saved/benefits achieved by the concerned individual/authority by not having proper waste/sewage management system; and
2. Cost to the environment (environmental externality) due to untreated/partially treated waste/sewage because of insufficient capacity of waste/sewage management/treatment facility.

Cost saved/benefits achieved by not having proper waste/sewage management system includes the interest on capital cost of the waste/sewage management facility and daily operation and maintenance (O&M) cost associated with the facility.

Capital Cost Factor may be considered as 10% on loan amount of annual interest rate borrowed by concerned individual/authority for setting-up waste/sewage management facility, for calculation of environment compensation.
Further, O&M cost factor may be considered as 100% of the O&M cost saved, as whole O&M cost is saved by concerned individual/authority for not managing required waste/sewage management system.
Therefore, generalized formula for Environmental Compensation may be described as:

EC= Capital Cost Factor x Marginal Average Capital Cost for Establishment of Waste or Sewage Management or Treatment Facility x (Waste or Sewage Management or Treatment Capacity Gap)

+ O&M Cost Factor x Marginal Average O&M Cost x (Waste or Sewage Management or Treatment Capacity Gap) x No. of Days for which facility was not available + Environmental Externality

Cost to the environment due to untreated/partially treated waste/sewage discharge by concerned individual/authority mentioned in the CPCB report is given as under:-

Table No. 3.1: Environmental externality for untreated/partially treated sewage discharge

Sewage Treatment Capacity Gap (MLD)	Marginal Cost of Environmental Externality (Rs. per MLD/day)	Minimum and Maximum value of Environmental Externality recommended by the Committee (Lacs Rs. Per Day)
Up to 200	75	Min. 0.05, Max. 0.10
201-500	85	Min. 0.25, Max. 0.35
501 and above	90	Min. 0.60, Max. 0.80

Table No. 3.2: Environmental externality for improper municipal solid waste management

Municipal Solid Waste Management Capacity Gap (TPD)	Marginal Cost of Environmental Externality (Rs. per ton per day)	Minimum and Maximum value of Environmental Externality recommended by the Committee (Lacs Rs. Per Day)
Up to 200	15	Min. 0.01, Max. 0.05
201-500	30	Min. 0.10, Max. 0.15
501-1000	35	Min. 0.25, Max. 0.35
1001-2000	40	Min. 0.50, Max. 0.60
Above 2000	Max. 0.80	

The minimum and maximum cost for capital and O&M component for Environmental Compensation mentioned in the CPCB report are given as under:

Table No. 3.3: Minimum and Maximum EC to be levied for untreated/partially treated sewage discharge

Class of the City/Town	Mega-City	Million-plus City	Class-I City/Town and others
Minimum and Maximum values of EC (Total Capital Cost Component) recommended by the Committee (Lacs Rs.)	Min. 2000 Max. 20000	Min. 1000 Max. 10000	Min. 100 Max. 1000
Minimum and Maximum values of EC (O&M Cost Component) recommended by the Committee (Lacs Rs./day)	Min. 2 Max. 20	Min. 1 Max. 10	Min. 0.5 Max. 5

Table No. 3.4: Minimum and Maximum EC to be levied for improper municipal solid waste management

Class of the City/Town	Mega-City	Million-plus City	Class-I City/Town and others
Minimum and Maximum values of EC (Capital Cost Component) recommended by the Committee (Lacs Rs.)	Min. 1000 Max. 10000	Min. 500 Max. 5000	Min. 100 Max. 1000
Minimum and Maximum values of EC (O&M Cost Component) recommended by the Committee (Lacs Rs./day)	Min. 1.0 Max. 10.0	Min. 0.5 Max. 5.0	Min. 0.1 Max. 1.0

Chapter-4

Environment Compensation for Discharge of Untreated/Partially Treated Sewage by Concerned Individual/Authority:

Environmental Compensation to be levied on concerned ULB may be calculated with the following formula:

EC= Capital Cost Factor x [Marginal Average Capital Cost for Treatment Facility x (Total Generation-Installed Capacity) + Marginal Average Capital Cost for Conveyance Facility x (Total Generation -Operational Capacity)] + O&M Cost Factor x Marginal Average O&M Cost x (Total Generation- Operational Capacity) x No. of Days for which facility was not available

+ Environmental Externality x No. of Days for which facility was not available

Alternatively;

EC (Lacs Rs.) = [17.5(Total Sewage Generation – Installed Treatment Capacity) + 55.5(Total Sewage Generation-Operational Capacity)] + 0.2(Sewage Generation-Operational Capacity) x N + Marginal Cost of Environmental Externality x (Total Sewage Generation-Operational Capacity) x N

Where; N= Number of days from the date of direction of HSPCB till the required capacity systems are provided by the concerned authority

Quantity of *Sewage is in MLD*

Chapter-5

Environment Compensation to be levied on Concerned Individual/Authority for Improper Solid Waste Management:

Environmental Compensation to be levied on concerned ULB may be calculated with the following formula:

EC = Capital Cost Factor x Marginal Average Cost for Waste Management x (Per day waste generation-Per day waste disposed as per the Rules) + O&M Cost Factor x Marginal Average O&M Cost x (Per day waste generation-Per day waste disposed as per the Rules) x Number of days violation took place + Environmental Externality x N

Where;

Waste Quantity in tons per day (TPD)

N= Number of days from the date of direction of HSPCB till the required capacity systems are provided by the concerned authority

Simplifying;

EC (Lacs Rs.) = 2.4(Waste Generation - Waste Disposed as per the Rules) +0.02 (Waste Generation - Waste Disposed as per the Rules) x N + Marginal Cost of Environmental Externality x (Waste Generation - Waste Disposed as per the Rules) x N

Chapter-6

Environmental Compensation to be levied for various violations of Healthcare facilities (HCFs).

Environmental Compensation for HCFs = HR x T x S x R x N

Where;

HR – Health Risk factor
T- Type of Healthcare Facility
S – Size of Health Care Facility
R – Environmental Compensation factor
N – Number of days of Violation

Health Risk (HR)

Health Risk (HR) is a number from 0 to 100 and increasing HR value denotes the increasing degree of health risk due to improper handling of BMW in healthcare facility.

	No arrangement for disposal of BMW with CBWTF (1)	Not Applied for Authorizationon (2)	Improper Segregationn of BMW (3)	No pre-Treatment (4)	On-site storage not provided or not adequate (5)	No ETP Despite requirement (6)	Score for each of Other Violations of BMW Rules, 2016 (7)
Heath Risk Score (HR)	30	10	20	10	10	15	5

Note: Score of 5 to be added for each of other violations at column (7), with sum of HR limited to 100

HR is sum of (1) + (2) + (3) + (4) + (5) + (6) + (7) [restricted to 100]

Type of Healthcare Facility (T) is a factor for type of healthcare facility, as given below:

Type of Healthcare Facility	T Factor
Bedded Hospitals	1.0
Bedded Ayush Hospitals	0.5
Non-bedded (veterinary hospital, pathological laboratory, blood bank)	1.0
Non-bedded (clinic, dispensary, and clinical establishment)	0.5
Animal Test Houses	1.0

Size of Health Care Facility (S) is a factor for size of Healthcare Facility (HCFs) based on number of beds of the Healthcare Facility, as given below:

Size of Healthcare Facility (HCFs)	S factor
Non-bedded (clinic, dispensary, and clinical establishment)	0.15
Non-bedded (veterinary institution, pathological laboratory, blood bank)	0.2
1 to 10 bedded HCFs	0.20

Size of Healthcare Facility (HCFs)	S factor
10 to 50 bedded HCFs	0.30
50 to 100 bedded HCFs	0.50
100 to 500 bedded HCFs	1.00
500 and more bedded HCFs	1.50
Animal Test House	1.00

Number of days of Violation (N) Number of days for which violation took place is the period between the day of violation observed/due date of implementation as per BMWM Rules, 2016/due date of compliance of directions and the day of compliance verified by HSPCB.

Environmental Compensation factor (R) is a factor in Rupees, taken as 250

Further, in any case minimum Environmental Compensation in respect to Healthcare Facility shall not beless than Rs.1200/- per day.

2.1 Deterrent Factor for Healthcare Facilities

Incremental effect on Environmental compensation charges are given below:

Scenario	Applicable ECC
Up to 15 days from target date	Original ECC
Between 15 to 30 days beyond target date	Two times
Fails to comply in 2nd inspections including new violations if any	Two times
Between 30 to 45 days beyond target date	Four times
Fails to comply in 3rd inspections including new violations if any	Four times
Beyond 60 days from target date	Closure of HCF
Fails to comply in 4th consecutive inspection	Closure of HCF

Chapter-7

Environmental Compensation to be levied for various violations for Common Biomedical Waste Treatment Facility (CBWTF).

Environmental Compensation for CBWTFs =

PI x S x R x NEnvironmental Compensation

Where;

PI– Pollution Index

S – Size of Operation

R – Environmental

Compensation factorN –

Number of days of Violation

Pollution Index (PI) is a number from 0 to 100 and increasing value of PI denotes the increasing degree of pollution hazard from CBWTF.

Cases	Incinerator emissions not complying with standards notified under BMWM Rules, 2016 (1)	Treated wastewater not complying with standards notified under BMWM Rules, 2016 (2)	Not complying with standards of autoclave/ microwave notified under BMWM Rules, 2016 (3)	Biomedical waste not collected and Disposed off within 48 hours (4)	Each of Other violations to BMWM Rules, 2016/CPCB Guidelines (5)
PI	20	15	15	10	10

Note: Score of 10 can be added at column (5) for each of other violations, provided sum of PI is limited to 100

PI = (1) + (2) + (3) + (4) [Restricted to 100]

Size of Operation (S) Scale of operation for CBWTFs will be taken from following Table;

Authorized Treatment Capacity (Based on Incinerator size)	Scale Factor
Up to 100 Kg/hour	0.25
100 to 250 Kg/hour	0.50
250 to 500 Kg/hour	1.00
> 500 Kg/hour	1.50

Environmental Compensation factor (R) is a factor in Rupees, which is taken as 250

Number of days of Violation (N) Number of days for which violation took place is the period between the day of violation observed/due date of implementation as per BMWM Rules, 2016/due date of compliance of directions and the day of compliance

verified by CPCB/SPCB/PCC.

Further, in any case minimum Environmental Compensation in respect to Common Biomedical Waste Treatment Facility shall not be less than Rs. 3,000/- per day.

For Healthcare facilities having their own treatment and disposal facility, the environmental compensation shall be calculated as in the case of CBWTFs.

3.1 Deterrent Factor for Common Biomedical Waste Treatment Facilities

Incremental effect on Environmental compensation charges are given below:

Scenario	Applicable ECC
Up to 30 days from target date	Original ECC
Between 30 to 60 days beyond target date	Two times
Fails to comply in 2nd inspection including new violations if any	Two times
Between 60 to 90 days beyond target date	Four times
Beyond 90 days	Closure of CBWTF
Fails to comply in 3rd consecutive inspection	Closure of CBWTF

Chapter-8

Environmental compensation to be levied for various violation of HOWM Rules, 2016.

1. Categorization of violations and financial penalty & environmental compensation thereof various violations of HOWM Rules, 2016

For the purpose of imposing financial penalty and environmental compensation, various violations of HOWM Rules, 2016, can be broadly classified into the following two categories:

A. Category A: Only procedural violations of HOWM Rules, 2016, which has not caused damage to environment or third party

B. Category B: violations causing environmental damage including procedural violations

   i. **Category B1:** Cases where mismanagement of hazardous or other waste has resulted or resulting into environmental damage and such damages liability including assessment of remediation required can be assessed in terms of cost also by applying provisions laid down under CPCB's "Guidelines on Implementing Liabilities for Environmental Damages due to Handling & Disposal of Hazardous Waste and Penalty".

   ii. **Category B2**: Cases where mismanagement of hazardous or other waste may have caused environmental damage and such damages & remediation required including cost thereof are difficult to assess.

2. Methodology for Assessing Financial Penalty and Environmental Compensation.

A. Financial Penalty

B. Environmental Compensation

Under such wide variables, the following quantity based environmental compensation calculation in Rupees may be used and be imposed on violating facility operator:

Environmental Compensation (EC) = Q x ERF x R

[.....Equation 1]

Where,

Q is noticed[1] or observed[1] quantity (in tonne) of hazardous or other wastes which have not been managed in compliance with various provisions of the Acts/Rules/Guidelines/conditions of the authorisation/directions issued by CPCB/SPCB/PCC/MoEF&CC (barring procedural violations which have not caused environmental damage)

ERF = Environmental Risk Factor which is a number (as given in Table 1 below) denoting the increasing degree of risk to the environment and human health due to the scenarios as given in the Table 1.

Table 1: Environmental Risk factor (ERF)

S. No.	Violation	ERF	
		For Hazardous Waste	For Other* Waste
1.	When hazardous and other wastes is disposed at unauthorised place or handed over or sold to unauthorised party	1.5	0.3
2.	When treatment has not been imparted , as required, but only partial treatment has been given (by TSDF/Actual user)	1.0	0.2
3.	When product (derived from hazardous or other waste) is not confirming to prescribed specification or is specified for restricted use but sold in open market against (in case of actual user)	1.0	0.2
4.	Wastes found stored beyond the stipulated period (refer Rule 8 of the HOWM Rules, 2008)	0.1	0.05

**Applicable to waste generated indigenously only.*

R= Environmental Compensation factor, which may be taken as Rs. 30,000.

Note:

(i) For facility engaged in generation/ recycling/ utilizing/ disposing of hazardous or other waste and such wastes have never been handed over to common TSDF/ actual user:

Case I: *If authorisation has been taken at any point of time, in such cases, Q may be taken as below:*

Q= Quantity in terms of tone/per year, as specified in authorisation (one year =300 days) x **Y**

[.....Equation 2]

Where, **Y** is Number of years of operation of the facility and may be considered as given in Table 6 below. In case authorisation is given in quantity/day, then convert in tone/year by multiplying the same with 300 days.

Case II: *If authorisation has not been taken at any point of time for all or any given category of hazardous or other waste being generated/utilized*

When above scenario comes to the notice of SPCB/PCC/CPCB, it may be difficult to find Q as records pertaining to quantity of generation/utilization of hazardous or other waste may not be available. In such case, a generalised way of calculating Environmental Compensation (EC) in Rupees may be used as below:

EC (in Rupees) = T x S x C x ECF x Y

[.....Equation 3]

Where,

T = Type of facility factor and may be taken as below from Table 2 below:

Table 2: Type of facility factor

Sl. No.	Scale of operation	Factor
1.	(i)Actual user procuring hazardous waste from outside their premises including importing hazardous or other waste from other country	1.5
2.	(i) Actual user engaged in utilizing/ recycling of only other wastes which are generated indigenously, and; (ii) All facility other than at Sl. No. (1) and 2(i) above	1

S = Scale of Operation factor of the facility and may be taken from Table 3 as below:

Table 3: Scale of operation of the facility

Scale of operation	Scale Factor
Large	1.5
Medium	1
Small or Micro	0.5

ECF = Environmental Compensation Factor, which is summation of one or more ECF, as applicable, as given in Table 4 below:

Table 4: Environmental Compensation Factor

S. No	Type of operations from where waste is generated	ECF
1.	Main Process (when significant quantity of waste generation like spent acid, process sludge, spent solvent, etc.)	45,00,000
2	Pollution control equipment like ETP, APCDs, etc. such as ETP sludge, incineration bottom residues, cyclone residue, etc.	35,00,000
3	Ancillary equipment used for supporting the industrial process such as DG set, etc.	10,00,000
4	Handling of hazardous chemicals and wastes (waste packaging materials like emptied drums/bags/etc. contaminated with hazardous chemicals/wastes) and Cleaning activities like cotton/cloth waste contaminated with oil/grease/grease, hazardous chemical storage tank, etc.	20,00,000
5.	Other operations not listed above	10,00,000

C = Category of Facility factor and be taken from Table 5 as given below;

Table 5: Category of Facility Factor

Type of Facility	T Factor
Red Category	1
Orange Category	0.2
Green Category	0.05

Y = Number of years of operation of the facility and may be considered from Table 6 as below:

Table 6: Number of days of operation of the facility

S.No	Years of Operations	Factor to be taken
1.	More than 03 years	5
2.	Equal to less than 03 years	Actual duration of operation in months/12

In cases where non-compliances have been observed for known period wherein quantity (Q) of hazardous or other waste correlated to such violations is also known – e.g. in-adequate storage facility in cases of authorised facility or failure to comply with any directions of SPCB/PCC/CPCB (say directions issued w.r.t. non-compliance of incinerator emission standards and facility continued to operate). Amount of EC for such cases may be calculated based on Q associated with such violations period and number of days for which violation took place. Such number of days for which violation took place is the period between the day of violation observed/ due date of compliance of directions and the day of compliance verified by CPCB/ SPCB/ PCC.

EC = EC (as derived from Equation 1) + (Rs. 5000 x Nos. of days for which violation took place]

[.....Equation 4]

(i) Apart from the above cases, there could be following violations or other similar type violations (which are not covered in the various above mentioned scenarios) in hazardous waste TSDF or actual user facility:

a. The leachate is illegally disposed or send to unauthorised party
b. Violations in leachate management or the leachate management facility requires upgradation as per direction of CPCB/ SPCB/ MoEF&CC
c. Waste Water generated during the process is disposed illegally or not as per the consent conditions
d. Effluent Treatment Plant is not meeting the norms stipulated under EPA, 1986 or CTO issued by SPCB/PCC
e. Effluent Treatment Plant exist but requires upgradation so

as to meet the conditions specified under CTO or CPCB' guidelines/SoP

f. Treated effluent not managed as per the conditions specified under CTO or CPCB' guidelines/SoP

Under such circumstances, the environment compensation may be calculated as below:

Environmental Compensation (EC) = PI×N×R×S×LF

.....Equation 5]

Where,

PI is Pollution index (based on the CPCB guidelines on Revised Classification of Industrial Sectors under Red, Orange, Green and White Categories) and to be taken from Table 7 below:

Table 7: Classification of industrial sector

Category	Pollution Index
Red	80
Orange	50
Green	30

N is Number of days for which violation took place is the period between the day of violation observed/ due date of compliance of directions and the day of compliance verified by CPCB/ SPCB/ PCC.

R is Environmental Compensation factor in Rupees R to be taken as 250

S = Scale of Operation of the facility and may be taken from Table 8 below;

Table 8: Scale of operation

Scale of operation	Factor
Micro or small	0.5
Medium	1.0
Large	1.5

LF could be based on population of the city/town and location of the industrial unit. For the industrial unit located within municipal boundary or up to 10 km distance from the municipal boundary of the city/town, following factors (LF) may be taken from Table 9 below:

Table 9: Location factor based on population

S. No.	Population* (million)	Location Factor#
1	Less than 1	1.0
2	1 to < 5	1.25
3	5 to <10	1.5
4	10 and above	2.0

*population of the city/town as per the latest Census of India

LF will be 1.0 in case unit is located > 10km from municipal boundary

C. Deterrent Factor

(a) In case of non-timely submission of Environmental Compensation and Financial Penalty

The Environmental Compensation Charges and Financial Penalty shall be deposited by the violating facility within the stipulated time period specified under directions issued by CPCB/SPCB/PCC. In case, such facility does not submit the same within the stipulated time frame the amount will be exponentially increased. The details of exponential increase are given below

Table 10: Environmental Compensation Charges and Financial Penalty w.r.t. non-timely submission

Sl. No.	Amount Deposition time period	Environmental Compensation and Financial Penalty Amount
1.	Within 15 days from the stipulated time period as directed by CPCB/SPCB/PCC	Original amount with interest @ 12% per annum for number of days delayed after the stipulated date of amount deposition
2.	After 15 days but within 03 months after the stipulated time period as directed by CPCB/SPCB/PCC	Two times the original amount with interest @ 12% per annum for number of days delayed after 15 days of the stipulated date of
3.	After 03 months and up to 06 months from the stipulated time period	Four times the original amount with interest @ 12% per annum for number of days delayed after three months of the stipulated date of amount deposition
4.	After 06 month	Closure of unit/facility and court

(a) In case of repeated violations

In case the violators found repeatedly non-complying with previous violations or new violations, the amount of Environmental Compensation and Financial Penalty be

exponentially increased. The details of exponential increase in such cases are given below:

Table 11: Environmental Compensation Charges in case of repeated violation

Sl. No.	Time Period for compliance	Environmental Compensation and Financial Penalty Amount
1.	First time violation	Original amount
2.	Second time violation	Two times the original amount
3.	Third time violation	Four times the original amount
4.	Fourth time violation	Closer of unit and Court case

Annexure-A

Performa for recommendation for environmental compensation by Regional Officer.

1.	Name & address of the unit	
2.	Name and designation of the officer(s) inspected the unit	
3.	Product(s) and bio-products	
4.	Manufacturing process	
5.	Status of CTE	
6.	Status of CTO	
7.	Date of inspection of the unit	
8.	Date of commissioning	
9.	Detail of violation observed during inspection:	a. Operational / not operational b. Established and Operating without CTE/CTO of the Board. c. ETP not installed/ not adequate d. APCM not installed/ not adequate e. Reverse pumping/by-passing the effluent/air emissions f. Others
10.	Category of the unit	i. Red / Orange / Green ii. Large / Medium / Small Scale
11.	Complaint / Court case, if any.	
12.	Detail of sampling and analysis of effluent/air emission exceeding the norms.	Type of sample / A/R no. & date / Parameter / Results Effluent Air emissions Noise
13.	Reasons for not collection of samples, if not collected.	
14.	Detail of Show Cause Notice for EC issued with date.	
15.	Reply of Show Cause Notice, if any received.	
16.	No. and date of closure order issued by the Board	
17.	Compliance of closure order if applicable.	

18.	Present status of compliance made by the unit, if any after issue of show cause notice.	
19.	**Cases for levying environmental compensation:-** a) Units discharging the environmental pollutants in excess of the standards prescribed under EP Rules, 1986 and as prescribed in the consent granted to such units under Water Act, 1974/Air Act, 1981. b) Not complying with the directions issued, such as direction for closure due to non-installation of OCEMS, non-adherence to the action plans submitted etc. c) Intentional avoidance of data submission or data manipulation by tempering the Online Continuous Emission/ Effluent Monitoring system. d) Accidental discharges lasting for short durations resulting into damage to the environment. e) Intentional discharges to the environment including bypassing the pollution control devices -- land, water and air resulting into acute injury or damages to the environment. f) Injection of treated/partially treated/ untreated effluent to ground water. g) All violations of Graded Response Action Plan (GRAP)	

	in Delhi NCR area. h) Failure of preventing the pollutants being discharged in water bodies and failure to implement Waste Management Rules.	
20.	Date of last inspection and sampling i.e. prior present inspection (Water and/or Air and/or other pollution	
21.	Justification of imposing environmental compensation for last five year	
22.	Final reasoned recommendations in respect of EC and documents attached to be verified.	
Environment Compensation to be levied on Industrial Units		
23.	PI - Pollution Index (Red : 80, Orange : 50 and Green : 30)	
24.	N - No of days of violation	From_____ to _____
25.	R - Factor in Rupees	
26.	S - Factor for scale of operation (0.5 for micro or small, 1.0 for medium and 1.5 for large unit)	
27.	LF - Location Factor (as per census)	
28.	EC= PI x N x R x S x LF	
29.	Total Amount calculated	

OR

Environmental Compensation to be levied on all violations of Graded Response Action Plan (GRAP) in NCR.

	Activity	State of Air Quality	Environmental Compensation (Rs.)	Recommended by RO
30.	**Industrial Emissions**	Severe +/Emergency	Rs. 1.0 Crore	
		Severe	Rs. 50 Lakh	
		Very Poor	Rs. 25 Lakh	
		Moderate to Poor	Rs. 10 Lakh	
31.	**Vapour Recovery System (VRS) at Outlets of Oil Companies**			
	i. Not Installed	Target Date	Rs. 1.0 Crore	
	ii. Non-Functional	Very poor to Severe+	Rs. 50 Lakh	

		Moderate to Poor	Rs. 25 Lakh	
32.	**Construction sites (Offending plot more than 20,000 Sq.m.)**	Severe +/Emergency	Rs. 1.0 Crore	
		Severe	Rs. 50 Lakh	
		Very Poor	Rs. 25 Lakh	
		Moderate to Poor	Rs. 10 Lakh	
33.	**Solid Waste/garbage dumping in Industrial Estates**	Very poor to Severe +	Rs. 25.0 Lakh	
		Moderate to Poor	Rs. 10 Lakh	
34.	**Failure to water sprinkling on unpaved roads**			
	a) Hot-spots	Very poor to Severe +	Rs. 25.0 Lakh	
	b) Other than Hot-spots	Very poor to Severe +	Rs. 10.0 Lakh	
	OR			
35.	**Environmental Compensation to be levied in case of failure of preventing the pollutants being discharged in water bodies and failure to implement waste management rules**			**Recommendation of RO**
	EC= Capital Cost Factor x [Marginal Average Capital Cost for Treatment Facility x (Total Generation-Installed Capacity) + Marginal Average Capital Cost for Conveyance Facility x (Total Generation -Operational Capacity)] + O&M Cost Factor x Marginal Average O&M Cost x (Total Generation- Operational Capacity) x No. of Days for which facility was not available + Environmental Externality x No. of Days for which facility was not available Alternatively; **EC (Lacs Rs.) = [17.5(Total Sewage Generation – Installed Treatment Capacity) + 55.5 (Total Sewage Generation-Operational Capacity)] + 0.2(Sewage Generation-Operational Capacity) x N + Marginal Cost of Environmental Externality x (Total Sewage Generation-Operational Capacity) x N** Where; N= Number of days from the date of direction of CPCB/SPCB/PCC till the required capacity systems are provided by the concerned authority Quantity of Sewage is in MLD			
	OR			
36.	**Environment Compensation to be Levied on Concerned Individual/Authority for Improper Solid Waste Management:**			**Recommendation of RO**
	EC = Capital Cost Factor x Marginal Average Cost for Waste Management x (Per day waste generation-Per day waste disposed as per the Rules) + O&M Cost Factor x Marginal Average O&M Cost x (Per day waste generation-Per day waste disposed as per the Rules) x Number of days violation took place + Environmental Externality x N			

	Where; Waste Quantity in tons per day (TPD) N= Number of days from the date of direction of CPCB/SPCB/PCC till the required capacity systems are provided by the concerned authority Simplifying; **EC (Lacs Rs.) = 2.4 (Waste Generation - Waste Disposed as per the Rules) +0.02 (Waste Generation - Waste Disposed as per the Rules) x N + Marginal Cost of Environmental Externality x (Waste Generation - Waste Disposed as per the Rules) x N**	

Signature of AEE/Sc.B **Signature of Regional Officer**

Documents to be enclosed:.

i) Copy of show cause notice dated _____.
ii) Copy of spot inspection report dated____.
iii) Copy of reply of show cause notice if any.
iv) Copy of analysis report(s).
v) Copy of CA certificate regarding investment.
vi) Proof of commissioning.
vii) Copy of last inspection report (i.e. prior to the present inspection)
viii) Copy of proof of location factor.

AGENDA ITEM NO. 191.08

PURCHASE OF PLOTS FOR NEWLY OPENED REGIONAL OFFICES

Scanned with CamScanner

File No.HSPCB-140001/30/2022-Estate Office-HSPCB

08/1

Agenda Item No. 191.8 — Purchase of plots for newly opened Regional Offices.

At present, the HSPCB has 18 Regional Offices and 4 Laboratories out of these following Regional Offices and Laboratories are being run from rental building and in 2021-2022 financial year an amount of Rs. 77,79,384/- has been paid as rent:-

Sr. No.	Name of Regional Office/Laboratory
1.	Regional Office, HSPCB, Gurugram (North)
2.	Regional Office, HSPCB, Gurugram, South (from HSIIDC Building) (Plot purchased but building yet to be constructed)
3.	Regional Office, HSPCB, Bahadurgarh (Plot purchased but building yet to be constructed)
4.	Sub Regional Headquarter at Gurugram (case is under process for taking the building on rent.
5.	Regional Office, HSPCB, Panchkula
6.	Regional Office, HSPCB, Bhiwani
7.	Regional Office, HSPCB, Kurukshetra
8.	Regional Office, HSPCB, Kaithal
9.	Regional Office, HSPCB, Karnal
10.	Regional Office, HSPCB, **Palwal**
11.	Regional Office, HSPCB, **Ambala**
12.	Regional Office, HSPCB, **Dharuhera**
13.	Regional Office, HSPCB, **Sonepat** (Plot purchased but building yet to be constructed)
14.	Laboratory, HSPCB, **Gurugram**
15.	Laboratory, HSPCB, **Panchkula.**

The Board has already purchased the plots for following Regional Offices for construction of office buildings:-

Sr. No.	Name of Region and status
1.	Plot has been purchased for Bahadurgarh Region, HSPCB measuring 1942.56 Sq.m. Plot No. IN-2, Sector-17, I.E., Bahadurgarh in the year 2020. At present the case is under process regarding hiring of architect for preparing/approval of drawing/map for construction of building.

08/2

2.	Plot has been purchased for **Sonepat** Region, measuring 625 Sq.m. in Sector-15, Part-II, Sonepat in the year 2001. Board has allotted the work to PWD for construction of building and financial sanction has granted of Rs. 377.23 Lac vide order dated 17.02.2021 to release amount to PWD.
3.	Plot has been purchased for **Panipat** Region measuring 1079 Sq.m. at Site No. 2 (Bays No.1 to 4), near Income Tax Office, Panipat in the year 2019. PWD has submitted rough estimate i.e. Rs. 939.52 Lakh for construction of the building and case is under process regarding financial sanction.
4.	Plot has been purchased of **Gurugram (South)** Region, measuring 1012.50 Sq.m., Plot No. 29 C, Sector-3, IMT Manesar, Gurugram in the year 2014. The case has been sent to PWD for providing rough estimate regarding construction of building.

It will be in the interest of the Board to purchase its own plots for construction of office buildings for the following regional offices/laboratories, as per area mentioned against each, from HSVP/HSIIDC, at the reserve price:-

Sr. No.	Name of Region/Office	Area Required (in Sq. Mtrs.)
1.	HSPCB, Panchkula.	6000
2.	a) Sub Regional Headquarter at Gurugram b) Regional Office, Gurugram (N) c) Laboratory, HSPCB, Gurugram.	4047
3.	Regional Office, HSPCB, Ambala	1100
4.	Regional Office, HSPCB, Bhiwani	1100
5.	Regional Office, HSPCB, Dharuhera at Rewari.	1100
6.	Regional Office, HSPCB, Kaithal	1100
7.	Regional Office, HSPCB, Karnal	1100
8.	Regional Office, HSPCB, Kurukshetra	1100
9.	Regional Office, HSPCB, Palwal	1100

Therefore Agenda is submitted before the Board of Directors for consideration and approval please, please.

AGENDA ITEM NO. 191.09

ADOPTION OF STANDARDS OF EFFLUENT UNDER WATER ACT, 1974 AND STANDARDS OF EMISSION UNDER AIR ACT, 1981 NOTIFIED BY THE MOEF AND AMENDMENT THEREOF

Scanned with CamScanner

09/1

Agenda item No. 191.9

Adoption of standards of effluent under Water Act, 1974 and standards of emission under Air Act, 1981 notified by the MOEF and amendment thereof.

That the Ministry of Environment and Forest & Climate Control (MoEF & CC) has notified environment standards for emission and effluent discharge under Environment Protection Rules, 1986. The relevant part of Section 3 of Environment Protection Rules 1986 (as amended) is given as under:-

"(1) For the purpose of protecting and improving the quality of the environment and preventing and abating environmental pollution, the standards for emission of discharge of environmental pollutants from the industries, operations or processes shall be as specified in 1 [Schedule I to IV].

(2) Notwithstanding anything contained in sub-rule (1), the Central Board or a State Board may specify more stringent standards from those provided in Schedule I to IV in respect of any specific industry, operation or process depending upon the quality of the recipient system and after recording reasons therefore in writing.

(3) The standards for emission or discharge of environmental pollutants specified under sub-rule (1) of sub-rule (2) shall be complied with by an industry, operation or process within a period of one year of being so specified.]

(3A) (i) Notwithstanding anything contained in sub-rules (1) and (2), on and from the 1st day of January, 1994, emission or discharge of environmental pollutants from the [industries, operations or processes other than those industries, operations or processes for which standards have been specified in Schedule-I shall not exceed the relevant parameters and standards specified in schedule VI.

Provided that the State Boards may specify more stringent standards for the relevant parameters with respect to specific industry or locations after recording reasons

therefore in writing.

(ii) The State Board shall while enforcing the standards specified in Schedule VI follow the guidelines specified in Annexure I and II in that Schedule.

That keeping in view the above mentioned provisions and the practice of evolving the standards for effluent & emission by the CPCB in addition to the MoEF & CC, the Board vide resolution (**ANNEXURE-1**) of agenda No. 82.16 (**ANNEXURE-2**) and 82.17 (**ANNEXURE-3**) in the 82nd meeting held on 04.06.1990, decided that EPA Standards notified under EPA 1986 by the MoEF & CC and the CPCB are required to be adopted by the Board and the standards were accordingly adopted by the Board.

Thereafter, effluent & emission standards evolved by the MoEF & CC as well as the CPCB under the Water Act, 1974 & the Air Act, 1981 were placed before the Board in its 84th meeting held on 29.11.1990 vide No. 84.20 (**ANNEXURE-4**) and 84.21 (**ANNEXURE-5**) for adoption and the same was approved **(ANNEXURE-6)**.

It may be noted that the relevant portion of the Resolution No. 84.20 **(ANNEXURE-4)** reads as under:

"The Board adopted the effluent & emission Standards vide resolution No. 82.16 & 82.17 of 82nd meeting of the Board. It was also decided that Board may adopt Standards from time to time as & when the same are evolved by Central Pollution Central Board or Ministry of Environment & Forests, New Delhi."

Perusal of the contents of the resolution No 84.20 reflect that expression ***".....xxx....xxx.....Board may adopt standards from time to time as and when the same are evolved .....xxx....xxx....."*** does not indicate that all standards evolved by MoEF & CPCB (as amended time to time) are to be construed/interpreted to be adopted in the way that all standards shall be deemed to be adopted. This has created legal issues during trial of the accused in prosecution cases.

To avoid ambiguity left in the resolution No. 84.20, the following resolution may be approved by the Board: ***"That all the standards of effluent as well as emission evolved by the MoEF and CPCB (as amended time to time) shall be***

Generated from eOffice by SANDEEP SHARMA CLERK, CLERK 1 ESTABLISHMENT BRANCH, HSPCB on 22/03/22 11:48 AM

09/3

deemed to be adopted as the standards of the Board under Water Act, 1974 & Air Act, 1981 provided that in case any stringent standards are specified by HSPCB for any subject, where standards are also notified by the MoEF/CPCB, the standards of the Board shall be followed".

The agenda may be approved.

09/4

Annexure-I

HARYANA STATE BOARD FOR THE PREVENTION & CONTROL OF WATER POLLUTION, KOTHI No.661, SECTOR-8/B, CHANDIGARH.

No.HSPCB/Estt/90/ 7225-41 Dated: 12.6.90

To

1. Sh.R.A.Goel,
Chairman,
Haryana State Board for the Prevention & Control of Water Pollution, Chandigarh.
2. The Director of Industries,
Haryana, Chandigarh
3. The Deputy Secretary to Govt. Haryana,
Environment Department, Chandigarh.
4. The Director,
Health Services, Haryana,
Chandigarh.
5. The Engineer-in-Chief,
Haryana, P.W.D. Public Health Branch,
Chandigarh.
6. The Engineer-in-Chief,
Irrigation Department, Haryana,
Chandigarh.
7. The Chief Administrator,
Faridabad Complex Administration,
Faridabad.
8. Sh.Balwinder Singh,
S/O Sh.Shiv Ram, President,
Municipal Committee, Yamuna Nagar.
9. Sh.Ram Bhagat, S/o Sh.Ami Lal,
President
Municipal Committee,
Hissar.
10. Sh.Sunder Lal Sethi, S/o Sh.Amir Chand,
President, Municipal Committee,
Rohtak.
11. Sh.Sri Krishan S/o Sh.Tek Chand,
President, Municipal Committee,
Sonepat.
12. The Managing Director,
Haryana State Industrial Dev. Corporation,
Chandigarh.
13. The Managing Director,
Minor Irrigation Tubewells Corpn.
Chandigarh.

09/5

(ii)

14. Sh.B.D.Kapoor,Chairman
Haryana Committee of PHD Chamber of Commerce
& Industries,Opposite Asian Games Village,
New Delhi.

15. Sh.Sudershan Sareen,
Past President,
Plot No.183, Sector:24,
Faridabad.

16. Sh.Randhir Singh,
Near Chaubisi Chowk, Meham,
Distt. Rohtak.

17. Sh.C.P. Teneja,
Member Secretary,
Haryana Water Pollution Control Board,
Chandigarh.

Subject:- Minutes of the 82nd Meeting of the Haryana State Board for the Prevention and Control of Water Pollution,held on 4.6.90 at 11 00A.M.

....

Sir,

Kindly refer to this office letter No.WPCB/Estt./90/6901-17, dated 28.5.90 on the subject noted above.

A copy of the minutes of the 82nd Meeting of the Board held on 4.6.90 at 11.00A.M., is enclosed herewith for your information and necessary action. Supplementary Agenda Item No.82.93(a) to 82.100(s) are also enclosed herewith.

Yours faithfully,

DA/As above.

11/6/90
MEMBER SECRETARY,
Haryana Pollution Control Board,
CHANDIGARH.

Endst.No.WPCB/Estt./90/ 7242 Dated:- 12.6.90

A copy of the above is forwarded to the Commissioner and Secretary to Govt.,Haryana,Environment Deptt., Chandigarh for information and necessary action with reference to this office Endst.No.WPCB/Estt./90/6918, dated 28.5.90.

D.A./As above.

11/6/90
MEMBER SECRETARY,
Haryana Pollution Control Board,
CHANDIGARH.

...contd.....

09/6

(iii)

Endst.No.WPCB/Estt./90/ 7243 Dated: 12.6.90

A copy of the above is forwarded to the Director, Local Bodies, Haryana, Chandigarh for information and necessary action with reference to this office letter No.WPCB/Estt./90/6919 dated 28.5.90.

DA/As above.

MEMBER SECRETARY
Haryana Pollution Control Board,
CHANDIGARH.

Endst.No.WPCB/Estt./90/7244-50 Dated: 12.6.90.

A copy of the above is forwarded to all officer/ section incharge in Haryana State Board for the Prevention and Control of Water Pollution, Chandigarh for information and necessary action with reference to this office endst. No.WPCB/Estt./90/6920-25 dated 28.5.1990.

DA/As above.

MEMBER SECRETARY
Haryana Pollution Control Board,
CHANDIGARH.

Endst.No.WPCB/Estt./90/ 7251 - 57 Dated: 12.6.90

A copy of the above is forwarded to all Environmental Engineer in Regional Offices for information and necessary action with reference to this office endst.No.WPCB/Estt./90/6926-32 dated 28.5.1990.

DA/as above.

MEMBER SECRETARY
Haryana Pollution Control Board,
CHANDIGARH.

09/7

5

Item No. 82.12 Establishment of Design, Planning and Research Cell.	The Board considered the item and approved as proposed.
Item No. 82.13 Deligation of powers to officers for the grant of consent under Air/Water Act.	The Board considered the item and approved as proposed.
Item No. 82.14 Approval of comments on Consent committee recommendations.	The Board considered the item and approved as proposed.
Item No. 82.15 Purchase of Ambassador car in lieu of old condemned and disposal of the condemned car No.HYE 645.	The Board considered the item and approved as proposed.
Item No. 82.16 Laying down of standards under section 17(i)(g) of Water(Prevention & Control of Water Pollution)Act, 1974 for discharge of sewage and trade effluent.	The Board considered the item and approved as proposed.
Item No. 82.17 Emission standards under section 17(i)(g) of Air (Prevention & Control of Pollution)Act, 1981.	The Board considered the item and approved as proposed.
Item No. 82.18 Procedure for the purchase of Scientific Equipments/ Instruments.	The Board considered the item and approved as proposed.

09/8

Annexure 9

Draft No. DFA/217136 Attachment:Annexure-2.pdf

16/1/252

Agenda Item No. 82.16

Laying down of standards under 17(i)(g) of Water (Prevention & Control of Pollution)Act, 1974 for discharge of sewage And trade effluent.

****

The Board vide resolution No. 4.10 in its 4th meeting, 32.3 in its 32nd meeting and 44.12 in its 44th meeting adopted ISI standards as Haryana State Board Standards in respect of tolerance limits for discharge of sewage/ trade effluent under section 17(I) (g) of the Water (Prevention & Control of Water Pollution) Act, 1974. In all full wing standard have been adopted under Water (Prevention & Control of Pollution) Act, 1974 as amended from time to time.

IS:2490-I-1981.
IS:2296-1974.
IS:4764-1973.
IS:2490-Part-II-1974 for specific Industry (Distillery.)
IS:2490-Part-III-1974(Tanning.)
IS:2490.IV-1974 Straw Board.
IS:2490-Part-V-1974 Electroplating.
IS:2490-Part-VI-1976 Dye Stuff and Dye Intermediate.
IS:2490-Part-VII-1976 Coke Oven.
IS:2490-Part-VIII-1976 Phosphatic Fertilizer Industry.
IS:2490-Part-IX-1977 Nitrogerous Fertilizer Industry.

The item was put up before the Board in its various meetings vide item No. 75.14, 76.9, 79.25, & than 81.7 for adoption of additional standards available on the subject.

Vide Agenda Item No. 76.9 the Board constituted a Sub-Committee to consider the proposals. The Sub-committee had its various meetings on 5.4.89, 25.4.89, 01.9.89, 27.4.89 and 25.1.90. The details of deliberations were put up in 81st meeting vide agenda item No. 81.7, the sub-committee held its 6th meeting on 16.4.90.

In this meeting Shri B.D.Kapoor, Member Secretary pointed out that note given in the notification of Govt. of

09/9

16/2/253

India dated 15.4.1987 should not be applicable for electroplating Units. Committee was of the opinion that the foot Note is applicable for Cement Industry and not for electroplating Unit.

Regarding standard notified by E.P.A Rules, Chairman informed the standards notified under E.P.A are applicable in whole of India & such the States Pollution Control Board are required to enforce these and Industries are to comply with these standards under EPA Rules are for the information of members of the sub-committee only as these have been notified & enforced already even in Haryana under E.P.A, which is applicable in whole of India(Copies enclosed (Annexure-A)

It was recommended by the Committee that these standards which are already approved by the Board as mentioned above in its various meetings shall be aplicable for implementation of provision of the Water Act. (Copy enclosed at Annexure-B)

Regarding adoption of additional standards as mentioned below it was decided that matter be postponed by one month, by which time PHD Chamber of Commerce and after receiving the comments , the matter will be reviewed again and accordingly put up before the Board.

1. Standards for Petrochemical Industries.
2. Standards for Pharmaceuticals mfg. and formulation Industry.
3. Standards for pesticides manufacturing and formulation Industry.

No comments have been received from the PHD Chamber of Commerce & Industries, and as such it is proposed to adopt the above mentioned three standards. Copy enclosed (Annexure C). These standards are already presented by the Central Board even for Haryana and there is no escape from their enforcement.

The Industries are required to comply with the provisions of Water (Prevention & Control of Pollution) Act, 1974 and also comply with recently enacted E.P.A., 1986. The purpose of the both Acts is same to control environmental pollution. The Ministry of Environment & Forests have notified effluent standards for 18 categories of specific Industries. These standards are applicable to whole of India and same have

contd...

09/10

16/3/254

Already been adopted by the adjoining States. A comparative showing the adoption is attached Annexure-D, alongwith letters of Punjab Pollution Control Board, U.P. Pollution Control Board and Rajasthan Pollution Control Board at Annexure-D.

The following Specific standards notified under E.P.A, 1986 by the Ministry of Environment & Forests may also be adopted under (i)(g) of Section 17 of Water Act, 1974.

1. Caustic Soda.
2. Man Made Fibre Synthetic.
3. Oil Refinery.
4. Sugar Industry.
5. Thermal Power Plant.
6. Cotton Textile Industry.(Composite & Processing)
7. Synthetic Rubber.
8. Small Pulp & Paper
9. Composite Woollen Mills.
10. Integrated Iron & Steel.
11. Dye and Dye intermediate Industries.
12. Electroplating Industries.
13. Coke Oven.
14. Fermentation Industry(Distilleries, Maltries & Breweries).
15. Leather Tanneries.
16. Fertilizer Industry.
(a) Straight Nitrogeneous Fertilizer Excluding Calcium Ammonium Nitrate.
(b) Straight Nitrogeneous including Calcium.
(c) Complex Fertilizer Including Calcium Ammonia Nitrate.
(d) Complex Fertilizer excluding Calcium Ammonium Nitrate.
(e) Straight Phosphatic Fertilizer.
17. Natural Rubber Industry.
18. General Standards for discharge of effluents.

It is proposed therefore to adopt also the above mentioned 18 standards under Water Act, 1974 in addition to standards already adopted by the Board i.e. IS 2296-1982, and 4764-1973 as per Annexure-A.

Further it is proposed that all E.P.A. Standards notified under EPA 1986 by Ministry of Environment & Forests and so enforce fully already even in Haryana may be adopted by the Board also under the Water Act, 1974 so as to ensure uniformity of application and enforcement under the various laws in Haryana.

Submitted for the consideration & approval of the Board Pl.

09/11

(ii)

Subject: Minutes of the 84th Meeting of the Haryana State Board for the Prevention and Control of Water Pollution, held on 29.11.1990 at 11.00 A.M.

Sir,

Kindly refer to this office letter No.WPCB/Estt/90/ 8990-9086 dated 25.11.1990 on the subject noted above.

A copy of the minutes of the 84th meeting of the Board held on 29.11.90 at 11.00 A.M. is enclosed herewith for your information and necessary action. Supplementary Agenda Item No.84.109(s) to 84.122(s) are also enclosed herewith.

Yours faithfully,

DA/As above.

MEMBER SECRETARY,
Haryana Pollution Control Board,
Chandigarh.

Endst.No.WPCB/Estt/90/ Dated:

A copy of the above is forwarded to the Commissioner and Secretary to Govt. Haryana,Environment Department,Chandigarh for information and necessary action with reference to this office Endst.No.WPCB/Estt/90/9087 dated 25.11.1990.

DA/As above.

MEMBER SECRETARY
Haryana Pollution Control Board,
CHANDIGARH.

Endst.No.WPCB/Estt/90/ 9118-20 Dated: 3-12-90

A copy of the above is forwarded to all Officer/Section Incharge in Haryana State Board for the Prevention & Control of Water Pollution,Chandigarh for information and necessary action with reference to this office endst.No.WPCB/Estt/90/9088-9017 dated 25.11.90.

DA/As above.

MEMBER SECRETARY,
Haryana Pollution Control Board,
CHANDIGARH.

Endst.No.WPCB/Estt/90/ Dated:

A copy of the above is forwarded to all Environmental Engineers in Regional Offices for information and necessary action with reference to this office endst.No.WPCB/Estt/90/9018-9024 dated 25.11.9

DA/As above.

MEMBER SECRETARY,
Haryana Pollution Control Board,
CHANDIGARH.

Annexure-3

09/12

17/1/303

Agenda Item No.82.17

Emission Standards Under section 17(i)(g) of the Air (Prevention and Control of Pollution) Act, 1981.

***

Under the provisions of Air Act the State Board has to lay down emission standards for the Quality of Air in consultation with the Central Water Pollution Control Board and having regard to the standards laid down by the Central Board.

The Board vide Resolution No. 56.14 in its 56th meeting, 60.12 in its 60th meeting, 69.44 and 69.45 in its 69th meeting and 63.99 in its 73rd meeting adopted following standards based on the Central Pollution Control Board and Environment Protection Act standards.

1. Ambient Air Quality Standards.
2. Emission Standards for Stone Crushers.
3. Emission standards for Cement Industry.
4. Emission standards for Fertilizer (Urea)
5. Emission standards For Calcium Carbide.
6. Emission standards for Copper,Lead & Zinc Smelting Industry.
7. Emission standards for Carbon Black.
8. Emission standards for Fertilizer (Phosphate)
9. Emission Standards for Oil Refineries.
10. Emission standards for Aluminium.
11. Emission standards for Boiler.
12. Emission Standards for Diesel Operated Generator Sets.

The detail of the case for adoption of standards was put up in various meeting of the Board vide item No. 55.14, 69.44, 73.99 and again in 75.15, 76.10, 74.259 and then its 81st meeting vide item No. 81.5 for adoption of additional standards available on the subject.

A sub Committee was constituted in 76th meeting of the Board to consider the proposal for adoption of the standards. The Sub-committee held various meetings from time to time.

Contd...

09/13

17/2/'90

As per the decision of the Board in its 81st meeting the item was discussed in sub-committee meeting held on 15.4.90.

The Chairman informed that the standards notified under EPA are applicable in whole of India as such the State Pollution Control Board are required to enforce these and industries are to comply with these standards. It was also made clear that standards under EPA Rules are for the information of Members of the Sub-Committee only, as these have been notified under EPA which is applicable to whole of India (Copy enclosed.) (Annexure'A') under EP Act, 1986.

The Sub-Committee observed that the standards which already stand approved by the Board in its various meetings are also applicable for implementation of provisions of Air Act(Copy enclosed at Annexure 'B')

Regarding additional standards the following decision were arrived at.Adoption of Emission standards for Man Made Fibre Industry as per IS 9233(1)-1985 & IS 9005-1978 respectively be postponed for one year.

Adoption of the following standards be postponed for 2 years.

1. Ambient Air Quality Standards for industrial workers.
2. Permissible noise exposure for Industrial Workers.
3. Noise limit for Automobile Manufacturing Stage.
4. Noise limit for domestic appliances.
5. Code of practice for controlling Noise from other than Industries and Automobile.

The Industries are required to comply with the provision of Air Act and also with the recently enacted EPA, 1986. The Board has adopted standards for 16 type of Industries including Stone Crushers, Boilers and D.G.Sets and also fixed standards for Ambient Air Quality. The Ministry of Environment & Forest, Government of India, Under EPAct, 1986 has notified emission standards for 16 categories of Industries.

1. There is variation in the standards in respect of following Industries as detailed in Annexure 'C' Page _____.

contd

09/14

17/3/305

1. Emission Standards for Thermal Power Plant.
2. Emission Standards for Nitric Acid.
3. Emission Standards for Sulphuric Acid.
4. Emission standards for Iron & Steel.
5. It is now proposed to follow the EPAct, 1986 standards in force already for the above units under Air Act as well by HPCB.

The following additional standards have been notified by the Ministry of Environment & Forests under E.P.Act, 1985.

1. Asbestos.
2. Large Pulp & Paper.
3. Chloro Alkali (Caustic Soda.)
4. Reheating furnace. (Reverberatory)
5. Integrated Iron & Steel (Coke Oven Refrectory Melting Plant.)

The position of adjoining states in respect of following additional standards and revised standards is enclosed at Annexure 'C' alongwith letters from PPCB, RPCB, & UPCB. These States and Boards are also enforcing already the minimum Central Board or EPAct standards.

It is proposed that the following 10 E.P.A standards may be adopted under section 17 (1) (g) of the Air Act, 1981 in addition to standards already adopted by the Board in respect of 12 more categories (Annexure 'D')

1. Emission Standards for Thermal Power Plant.
2. Emission standards for Nitric Acid.
3. Emission standards for Sulphuric Acid.
4. Emission standard for Iron & Steel Integrated.
5. Emission standard for Iron & Steel.
6. Asbestos.
7. Large Paper & Pulp.
8. Chloralkali (Caustic Soda.)
9. Reheating Furnace. (Reverberatory)
10. Integrated Iron & Steel (Coke Oven Refrectory Melting Plant.)

Further it is proposed that E.P.A Standards notified under E.P.A 1986 by Ministry of Environment & Forests and so inforce fully already even in Haryana may be adopted by the

contd...

09/15

17/4/306

Board also under the Air Act, 1981 so as to ensure uniformity of application and enforcement under the various laws in Haryana.

Submitted for consideration and approval of the Board.

Annexure-A

09/16

25/1/239

Agenda item no. 84.29

Emission Standards under Air Act, 1981 & effluent Standards under Water Act, 1974.

The Board adopted the effluent & emission Standards vide resolution No.82.16 & 82.17 of 82nd meeting of the Board. It was also decided that Board may adopt standards from time to time as & when the same are evolved by Central Pollution Central Board or Ministry of Environment and Forests, New Delhi.

Recently a reference has been received from CPCB, vide their letter No.P.1/3(XXXII)90/Plg/6477,dt.20.9.90 wherein compilation of standards prepared by CPCB for liquid effluents, gaseous emission, automobile exhaust and noise pollution were enclosed.

The Central Pollution Central Board New Delhi has further evolved the following standards:-

1. Bulian Refining.
2. Inorganic Chemicals.
3. Paint Manufacturing.
4. Tinnemies(Primary).

5. Emission standards under Air Act, 1981.
1. Induction furnace.
2. Noise.
3. Automobile.
   a) Petrol Driven.
   b) Diesel Driven.
   c) Mass emission Standards at manufacturing stage.
4. Foundries(Arc Furnace).

The Central Pollution Central Board New Delhi is the nodal agency for the State Board to guide in matter relating to laying down of effluent emission standards at Annexure'A' (from page 20/2/209 to 20/23/230).

The Standards evolved by the Central Pollution Control Board are evolved at the national level by the experts from different part of the country. The adoption of above mentione standards would facilitate the efficient and effective working of water & Air pollution control.

The Board may kindly approve the same.

Draft No. DFA/217136
519247/2021/SSC

Attachment:Annex-5.pdf

Annexure-5

09/17

21/1/231

Agenda Item No.84.21

Effluent Standards under Section 17(1)(g) of Water (Prevention & Control of Pollution) Act, 1974.

Under Section 17(1)(g) of the Water (Prevention & Control of Pollution)Act, 1974 State Boards are required to lay down, modify or annual effluent standards for the sewage and trade effluents and for the quality of receiving Waters(not being water in an interstate stream) resulting from the discharge of effluent and to classify waters of the state. As per the definations given section 2(k) of the Water Act for " trade effluent" - includes any liquid, gaseous or solid substance which is discharged from any pre-mises used for carrying on any trade or industry, other than domestic sewage.

Accordingly, the Haryana Pollution Control Board has adopted 21 number available effluent standards in consultation with the Ministry of Env.& Forests, Govt. of India and the Central Pollution Control Board vide resolution No.82.17 of the 82nd meeting of the Board. Further, Board proposes to adopt any other effluent standards as would be notified/evolved by the Central Pollution Control Board or the Ministry of Environment & Forests, Govt. of India, New Delhi from time to time.

Regarding standards for gaseous substances, the Board has already adopted 21 number emission standards under section 17(1)(g) of Air(Prevention & Control of Pollution) Act, 1981 vide Resolution No.82.17 and 83.49 . A copy of emission standards enclosed at annexure 'A' at pages 21/3/233 to 21/10/240.

It is proposed to adopt these emission(Gaseous) standards under section 17(1)(g) of Water (Prevention & Control of Pollution) Act, 1974, so that stream or well or sewer or land are safeguarded from such gaseous substances emanated under the trade effluent.

Contd.

28/39

519247/2021/SSC

09/18

-2- 21/2/232

Further, regarding solid substances covered under definiation of trade effluent as per section 2(k) of the Water, Act, 1974, it is submitted that no standards have been laid down either by the Ministry of Env.& Forests, Govt. of India or by Central Pollution Control Board, New Delhi. So, it is proposed that the Central Board and Ministry of Environment & Forests, Govt. of India, New Delhi would be requesting them to evolve such standards.

Submitted for consideration & approval pl.

Annexure-6

09/19

(11)

Subject: Minutes of the 84th Meeting of the Haryana State Board for the Prevention and Control of Water Pollution, held on 29.11.1990 at 11.00 A.M.

Sir,

Kindly refer to this office letter No.HPCB/Estt/90/ 8990-9036 dated 25.11.1990 on the subject noted above.

A copy of the minutes of the 84th Meeting of the Board held on 29.11.90 at 11.00 A.M. is enclosed herewith for your information and necessary action. Supplementary Agenda Item No.84.104(s) to 84.122(s) are also enclosed herewith.

Yours faithfully,

DA/As above.

MEMBER SECRETARY,
Haryana Pollution Control Board,
Chandigarh.

Endst.No.HPCB/Estt/90/ Dated:

A copy of the above is forwarded to the Commissioner and Secretary to Govt. Haryana, Environment Department, Chandigarh for information and necessary action with reference to this office Endst.No.HPCB/Estt/90/9087 dated 25.11.1990.

DA/As above.

MEMBER SECRETARY
Haryana Pollution Control Board,
CHANDIGARH.

Endst.No.HPCB/Estt/90/ 9119-29 Dated: 3-12-90

A copy of the above is forwarded to all Officer/Section Incharge in Haryana State Board for the Prevention & Control of Water Pollution, Chandigarh for information and necessary action with reference to this office endst.No.HPCB/Estt/90/9083-9017 dated 25.11.90.

DA/As above.

MEMBER SECRETARY,
Haryana Pollution Control Board,
CHANDIGARH.

Endst.No.HPCB/Estt/90/ Dated:

A copy of the above is forwarded to all Environmental Engineers in Regional Offices for information and necessary action with reference to this office endst.No.HPCB/Estt/90/9818-9824 dated 25.11.9

DA/As above.

MEMBER SECRETARY,
Haryana Pollution Control Board,
CHANDIGARH.

Annexure 6
09/20

Minutes of the 84th meeting of the Haryana State Board for the Prevention & Control of Water Pollution, held on 29.11.1990 at 11.00 A.M. in the Board's office, Kothi No. 561, Sector-33, Chandigarh.

Item No. 84.1

Constitution of the Board - Thanks for the old members & welcome the new members.

The new members were welcomed by the Chairman who thanked those present for their making it convenient to attend the meeting.

Item No. 84.2

Exemption sought by the members of the Board from attending the 84th meeting of the Board.

It was brought to the notice of the Board that no members of the Board had sought exemption from attending the Board's meeting except the Managing Director, Haryana Sugar Mills Federation, Chandigarh which was allowed by the Board.

Item No. 84.3

Confirmation of the minutes of the 83rd meeting of the Haryana State Board for the Prevention & Control of Water Pollution.

The Draft minutes as issued by the Board were confirmed by the Board without any amendment.

Item No. 84.4

Review of the action taken on the decisions taken in the 83rd meeting of the Board.

The action taken on the previous minutes was noted by the Board.

Item No. 84.5

Posting of Sr. Accounts Officer on deputation with the Board.

The Board approved the proposal in the agenda item in respect of re-cruitment of the Accounts Officer desiring that it may also be specifi that the retiring or any retired officer's age limit for retention in the Board would be limited to 65 years.

Item No. 84.6

Grant of Dewali Gestival Advance to Class-IV employees.

Approved by the Board.

Item No. 84.7

Final payment of G.P.F. amount in respect of Sh. Gurdev Singh, Ex-Steno-typist.

Approved by the Board.

09/21

AGENDA ITEM No.84.20

Emission Standards under Water Act, 1974

Approved by the Board.

AGENDA ITEM No.84.21

Effluent Standards under Section 17(1) of (g) of Water(Prevention & Control of Pollution) Act, 1974.

Approved by the Board.

AGENDA ITEM No.84.22

Prosecution of Industry M/S Adhunik Woolen Mills, GT Road, Panipat under Water (Prevention & Control of Pollution) Act, 1974)

Approved by the Board.

AGENDA ITEM No.84.23

Prosecution under Air Act, 1981-M/S Dev Papers(P)Ltd., Bibipur, Bhiwani Road, Jind.

Approved by the Board.

AGENDA ITEM No.84.24

Prosecution of M/S Dev Paper(P) Ltd., Bibipur, Bhiwani Road, Jind under Water(Prevention & Control of Pollution) Act, 1974.

Approved by the Board.

AGENDA ITEM No.84.25

Prosecution of M/S Adrash Woolen Industries, G.T.Road, Panipat under Water(Prevention & Control of Pollution) Act, 1974.

Approved by the Board.

AGENDA ITEM No.84.26

Prosecution of M/S Swatantra Bharat Woolen Mills, Sher Shah Suri Marg, G.T.Road, Panipat under Water(Prevention & Control of Pollution) Act, 1974.

Approved by the Board.

AGENDA ITEM No.84.27

Prosecution of M/S Maha Laxmi Spinning Mills Samat Road, Panipat under Water(Prevention & Control

Approved by the Board.

AGENDA ITEM NO. 191.10

QUANTIFICATION AND CONTRIBUTION OF PADDY STUBBLE BURNING EMISSIONS IN HARYANA TO PM2.5 CONCENTRATION IN ITS SURROUNDING CITIES AND DELHI

Scanned with CamScanner

Agenda Item No.:- 191.10 **Quantification and contribution of paddy stubble burning emissions in Haryana to PM2.5 concentration in its surrounding cities and Delhi**

The Study report on "Quantification and contribution of paddy stubble burning emissions in Haryana to PM2.5 concentration in its surrounding cities and Delhi" was sanctioned to IIT Delhi vide letter no. 2272 dated 17.09.2018 and No. 2406 dated 01.10.2018 which are annexed as **Annexure-A**. The agenda was approved in the Board's meeting vide agenda items No. 182.14 is annexed at **Annexure-B**. Accordingly, the final report has been received from IIT Delhi regarding their study on the "Quantification and contribution of paddy stubble burning emissions in Haryana to PM2.5 concentrations in its surrounding cities and Delhi" is annexed as **Annexure-C**. The conclusions as per the study are placed below:

Major Conclusions:

The following conclusion has been submitted on the basis of study carried out by IIT Delhi, for quantification and contribution of paddy stubble burning emissions Haryana to PM2.5 concentrations in its surrounding cities and Delhi.

- Significant contributions from stubble burning emissions in north India is observed from the study, which uses NCAR's fire emissions as input to estimate stubble.
- Both models show that the maximum contributions from stubble burning emissions could be in the range of 15-17%.
- Overall, if the estimations from NCAR's burning emissions are precise, then the contributions of stubble burning to PM2.5 in Haryana are in the range of 8-17%.

The study report is placed before the Board for consideration and approval, please.

10/2

Annexure-'A'

HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA
Ph-2577870-73 E-mail: drpkmkhspcb@gmail.com

No. HSPCB/Aircell/2018/2272 Dated: 17-9-2018

To

Sh. Mukesh Khare, Professor,
Department of Civil Engineering,
Indian Institute of Technology, Delhi.

Sub:- **Study proposal on "Quantification and Contribution of Paddy Stubble Burning emissions in Haryana to $PM_{2.5}$ concentrations on surrounding regions".**

Please refer to your letter dated 04.09.2018 vide which you have submitted the proposal for the study on "Quantification and Contribution of Paddy Stubble Burning emissions in Haryana to $PM_{2.5}$ concentrations on surrounding regions". Your proposal has been carefully examined and considered by the Board. The study has been accorded sanction with the following terms and conditions;

Terms & Conditions:-

1) Study

The source apportionment study shall be conducted with specific reference to the Quantification and Contribution of Paddy Stubble Burning emissions in Haryana to $PM_{2.5}$ concentrations on surrounding cities of Haryana and Delhi, with the following specific objectives;

i. Critical Analysis of past trend of PM2.5 concentrations in Haryana state using secondary data.
ii. Analysis of meteorological data of different region of Haryana using secondary data.
iii. Carrying out chamber studies to estimate emission factors of SO2, NOx and PM2.5 from paddy stubble burning.
iv. Development of emission inventory for paddy stubble burning in Haryana state.
v. PM2.5 dispersion modelling using advanced regional scale model WRF-Chem.
vi. Validation of model predictions using ground based CPCB measurements, NASA's satellite based AOD data and SAFAR AQI data.

vii. Comparison of results from WRF-Chem simulation by IIT Delhi & NEERI and GEOS-Chem simulation carried out by TATA-MIT group.

viii. Estimating the contributions of Haryana Paddy burning to total PM2.5 in north Indian cities.

ix. Estimating the estimated change in temperature in north Indian cities due to projected paddy burning emissions in Haryana.

2) **Time period.**

The time period for the study will be One year from the date of acceptance of this offer and final report of the study including all objectives proposed in the study, shall be submitted immediately after completion of the study. No extension will be granted after the study period.

3) **Financial Conditions.**

The study is approved at a cost of Rs. 24 Lakh + GST. The whole payment will be made to IIT Delhi and IIT Delhi will share the amount applicable with CSIR-NEERI at its own level. The payment will be made in four installments i.e.

i. 25% amount will be released at the beginning of the study.

ii. 50% amount will be released after six months of the beginning of the study.

iii. 25% amount will be released after 12 months or at the time of completion of the study. And the 2nd and 3rd installments shall be released subject to a certificate from your organization on utilization of the previous installment released and the percentage of work completed.

You are requested to send your consent for the terms and conditions mentioned above, for further necessary action at our end.

Sr. Scientist (HQ)
For Chairman

10/4

HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA
Ph-2577870-73 E-mail: dirkmkhspcb@gmail.com

No. HSPCB/Aircell/2018/ 3406 Dated: 21/11/2018

To

Sh. Mukesh Khare, Professor
Department of Civil Engineering,
Indian Institute of Technology, Delhi.

Sub:- Study proposal on "Quantification and Contribution of Paddy Stubble Burning emissions in Haryana to $PM_{2.5}$ concentrations on surrounding regions".

Please refer to your email dated 20.09.2018 vide which you have submitted that GST components should not be included because IIT Delhi do not have the GST number and you have also requested to release Rs. 12 Lakhs each separately to IIT Delhi and NEERI respectively.

In view of above, in continuation of this office letter no. 2272 dated 17.09.2018, the financial conditions of the study project are amended as under.

1. 1st installment of Rs. 12 Lakhs will be release to IIT Delhi without GST applicable.
2. 2nd installment of Rs. 12 Lakhs + GST will be release to NEERI after completion of the study and submission of the report.

The other terms and conditions will remain same as already conveyed vide this office letter no. 2272 dated 17.09.2018 (copy enclosed).

DA/ As above.

Sr. Scientist (HQ) 26/11
For Chairman

Annexure-'B'

Agenda Item No. 182.7
Regarding the decision for streamlining the authorization under Bio-Medical Waste Management Rules and CTE/CTO for Health Care Facilities.
The proposal contained in Agenda Note was approved.

Agenda Item No. 182.8
Appointment of 2 Software Developers from Haryana Knowledge Centre Ltd. through Haryana State Electronics Development Corporation Ltd. Panchkula.

The proposal contained in Agenda Note was approved.

Agenda Item No. 182.9
Exemption from additional consent fees (late fees) for obtaining consent to establish and consent to operate under Water Act, 1974 and Air Act, 1981 for the residential building projects falling under the provisions of EIA notification no. S.O. 3999 (E) dated 09.02.2016.

The proposal contained in Agenda Note was approved.

Agenda Item No. 182.10
Annual Action Plan of the Board for the year 2018-19 for consideration and Ex-post approval.

The proposal contained in Agenda Note was approved.

Agenda Item No. 182.11 (S)
Sanction for GST @ 18% on annual payment of GIS Cell.

The proposal contained in Agenda Note was approved.

Agenda Item No. 182.12 (S)
Purchase of land for construction of office building of Regional Office, Panipat.

The proposal contained in Agenda Note was approved.

Agenda Item No. 182.13 (S)
Voluntary Retirement of Sh. Chand Saini, Senior Environmental Engineer.

The proposal contained in Agenda Note was approved.

Agenda Item No. 182.14 (S)
Study on "Quantification and Contribution of Paddy Stubble burning emissions in Haryana to PM2.5 concentrations on surrounding regions".

The proposal contained in Agenda Note was approved.

Agenda Item No. 182.15 (S)
Procedure for obtaining authorization under Hazardous and other Waste (Management & Transboundary Movement) Rules, 2016.
The proposal contained in Agenda Note was approved.

10/6

14/1/146

Agenda Item No. 182.14(S) **Study on "Quantification and Contribution of Paddy Stubble burning emissions in Haryana to PM2.5 concentrations on surrounding regions".**

A proposal was received from Sh. Mukesh Khare, Professor, IIT Delhi though email on dated 23.07.2018 to conduct a apportionment study on Impact of stubble burning on air pollution in NCR and NCT Delhi. Accordingly a meeting / presentation was fixed with Sh. Mukesh Khare's team including representative of NEERI on dated 31.08.2018 in Haryana State Pollution Control Board.

In reference of above said meeting, IIT Delhi in coordination with NEERI submitted detailed proposal alongwith financial aspects for study on above said project. The copy of same is enclosed as **Annexure –A.**

The proposal submitted by IIT Delhi was considered and same was conveyed to IIT Delhi vide this office letter no 2272 dated 17.09.2018 (enclosed as **Annexure-B**). The financial conditions to release the payment to IIT Delhi and NEERI were further amended as requested by both the institutes and same was also conveyed to both the institutes vide this office letter no. 4512-14 dated 31.10.2018 (enclosed as **Annexure-C**).

The matter is placed before the Board for ex-post facto approval please.

10/7

14/3/148 Annexure - 2

INDIAN INSTITUTE OF TECHNOLOGY DELHI

Environmental Engineering Group
Department of Civil Engineering
HAUZ KHAS, NEW DELHI - 110 016 INDIA

MUKESH KHARE, Ph.D. Engg. (UK)
Professor

Phone : +91-11-2659 1212 (Off.)
: +91-11-2685 9284 (Res.)
Fax : +91-11-2658 1117
E-mail : mukeshk@civil.iitd.ac.in
kharemukesh@yahoo.co.in
Website : www.urbanindiaresearch.com

1. IIT Delhi: Prof. Mukesh Khare and Dr. Sri Harsha Kota of IIT Delhi have vast experience in air quality modelling and development of emission factors. They have carried out numerous projects on source apportionment of air pollutants, urban and regional air quality modelling sponsored by DST, CPCB and NERC-UK.
2. CSIR-NEERI Delhi Zonal Centre: Dr. S.K. Goyal and Dr. Sunil Gulia of CSIR-NEERI are experts in data analysis and developing emission inventories. They carried out numerous projects on air pollution sponsored by MOEFCC and CPCB.
3. TATA-MIT: Prof. Les Norford, Prof. Steve Barrett and Ms. Ruoyu Lan from TATA-MIT group, USA are experts in global scale air quality modelling.

The main deliverable of this study is estimating contribution of stubble burning in Haryana to $PM_{2.5}$ concentrations in north Indian cities including Delhi.

The specific deliverables are:

1. Dispersion potential by analysis of secondary meteorological, historical air quality data and satellite fire count data.
2. Emission rates of SO_2, NO_2 and $PM_{2.5}$ from Haryana paddy stubble burning.
3. Contribution of Haryana paddy stubble burning emissions to $PM_{2.5}$ concentrations and temperature increase in north Indian cities.

The total duration of the study will be one year from the date of award of the project and transfer of the funds to IITD and NEERI. The budget of the study would be Rs. 24, 00, 000 + GST as per GoI norms (as applicable). The payment should be separately transferred to IIT Delhi and CSIR-NEERI as per their budget (*the details of the bank for transfer of funds for IITD and NEERI are attached*). The other project partner, TATA-MIT group, do not need any financial support but only need logistical support in terms of quantity of stubble burnt in Haryana since 2005, etc.

A detailed proposal including the specific objectives, methodology, time schedule, budget, responsibilities of participating institutions and brief CV of the team is enclosed for your kind perusal.

Please contact us for any further clarification required in this regard.

Thank you

Mukesh Khare

Encl:

1. Detailed proposal

14/4/149

INDIAN INSTITUTE OF TECHNOLOGY DELHI

Environmental Engineering Group
Department of Civil Engineering
HAUZ KHAS, NEW DELHI - 110 016 INDIA

MUKESH KHARE, Ph.D. Engg. (UK)
PROFESSOR

Phone : +91-11-2659 1212 (Off.)
+91-11-2685 9284 (Res.)
Fax : +91-11-2658 1117
E-mail : mukeshk@civil.iitd.ac.in
kharemukesh@yahoo.co.in
Website : www.urbanindiaresearch.com

A collaborative Research Proposal

On

Quantification and contribution of paddy stubble burning emissions in Haryana to $PM_{2.5}$ concentrations on surrounding regions

NEERI
ISO 9001:2008

Massachusetts Institute of Technology

Project Partners

Indian Institute of Technology Delhi
Prof. Mukesh Khare, Dr Sri Harsha Kota

CSIR-NEERI Delhi, Zonal Centre
Dr. S.K. Goyal, Dr. Sunil Gulia

Massachusetts Institute of Technology
Prof. Les Norford, Prof. Steve Barrett, Ms. Ruoyu Lan

14/5/150

Introduction

High air pollution level in terms of particulate matter in Delhi and surrounding cities is a matter of concern by Public and regulators throughout the year. However, episodic situations (air pollution episode) during the months of October-November from last few years is well known problem and one of the prime topics in Indian media every year. Few days of this period, a thick blanket of smog covers the northern states such as Punjab, Haryana, Delhi etc. Hazy weather was witnessed recently which might have been due to the pollution levels caused during post-Diwali period and smoke generated from burning of agriculture stubble. Agricultural stubble burning may emit significant quantity of air pollutants like NO_x, SO_2, CO, NH_3 and particulate matter (Mittal et al., 2009).The burning of agriculture residue (Paddy Crop's residue) in states of Haryana and Punjab during this period is reported extensively by media as one of the major sources of air pollution in Delhi for last few years (HT, 2015; HT, 2016, Indian Express, 2017).

Based on the source apportionment analysis using monitoring data of Delhi city, Sharma and Dikshit (2016) have estimated that burning of biomass contributes almost 13.43-35.35% in winter and 5.24-27.24% in summer which is further linked with the burning of agriculture residue in and outside Delhi. However, roadside open burning of organic and plastic waste, burning of wood during winter for cooking and heating and the unintentional burning of municipal solid waste at landfill sites are common practices in Delhi city. Though Delhi has been a focal point, however, many other neighbouring cities also get impacted.

Therefore, it is important to fill the knowledge gap pertaining to quantification and contribution of Paddy Stubble burning towards in the state of Haryana to overall concentration of particulate matter in Haryana, Delhi and surrounding cities. The assessment of paddy crop residue burning in the Haryana states and its impact on surrounding air quality before the next cycle.

In view of the occurrence of air pollution episode in Delhi NCR when Paddy stubble burning happens in the state of Haryana, the Haryana State Pollution Control Board, (HSPCB), Panchkula desires that IIT Delhi delineate a study plan in terms of a proposal carrying out the quantification and contribution of Paddy stubble burning in Haryana to overall PM level in the surrounding regions. The study is proposed to be undertaken jointly by IIT Delhi and CSIR-NEERI-Delhi Zonal Centre.

Agricultural stubble is the biomass left in the field after harvesting of the grain part of the crop. Large quantities of crop residues are generated every year form paddy and wheat crop. Processing of farm produce through milling also produces large amount of residues. These residues are used as animal feed, thatching for rural homes, residential cooking fuel and

industrial fuel. However, a large portion of the crop residues is not utilized and left in the fields. The disposal of such a large amount of crop residues is a major challenge. To clear the field rapidly and inexpensively and allow tillage practices to proceed unimpeded by residual crop material, the crop residues are burned in situ. Farmers opt for burning because it is a quick and easy way to manage the large quantities of crop residues and prepare the field for the next crop well in time. Money and time are the two main factors which persuade farmer to burning the stubble.

Scope of the Proposed Study

Source apportionment study conducted with specific reference to the quantification and contribution of paddy stubble burning in Haryana state to $PM_{2.5}$ concentration in surrounding cities of Haryana and Delhi.

Specific Objectives

1. Critical Analysis of past trend of $PM_{2.5}$ concentrations in Haryana state using secondary data.

2. Analysis of meteorological data of different region of Haryana using secondary data.

3. Carrying out chamber studies to estimate emission factors of SO_2, NO_x and $PM_{2.5}$ from paddy stubble burning.

4. Development of emission inventory for paddy stubble burning in Haryana state.

5. $PM_{2.5}$ dispersion modelling using advanced regional scale model WRF-Chem.

6. Validation of model predictions using ground based CPCB measurements, NASA's satellite based AOD data and SAFAR AQI data.

7. Comparison of results from WRF-Chem simulation by IIT Delhi & NEERI and GEOS-Chem simulation carried out by TATA-MIT group.

8. Estimating the contributions of Haryana Paddy burning to total $PM_{2.5}$ in north Indian cities.

9. Estimating the estimated change in temperature in north Indian cities due to projected paddy burning emissions in Haryana.

Methodology

1. Ambient air quality trends of Haryana and Delhi regions will be evaluated using the collected data from CAAQM stations of Haryana and Delhi city. The analysis will include annual, seasonal, monthly and daily variations. Air quality data will be collected from all 24 CAAQM stations located in Haryana and representative stations of Delhi city.

2. The meteorological data of different CAAQMS and IMD stations located in Haryana will be collected and analysed for the year 2018. The analysis of meteorological condition provide understanding of dispersion potential of the atmosphere in the region.
3. The district wise cropping patterns of Haryana State will be analysed and used for emission inventory development. Chamber studies will be carried out to calculate the $PM_{2.5}$, NO_2, SO_2 and NH_3 emitted per unit weight of paddy stubble burnt. Further, district wise $PM_{2.5}$ emission load generated due to burning of stubble will be estimated.
4. The $PM_{2.5}$ dispersion modelling will be carried out using developed emission inventory and meteorological data. The emissions will be generated based on modified TERI emission inventory. The TERI inventory will be modified to incorporate the paddy stubble burning emission inventory developed in this study. The WRF-Chem model will be used for the dispersion of pollutants. The 4×4 km resolution model which is centred in Haryana, will include all the north Indian states. Two different sets of simulations, one with emissions from all the sources (base case) and another with only emissions from paddy stubble burning will be carried out. Hourly concentrations of PM2.5 will be predicted for the entire simulation year (2018). The results from the base case simulations will be validated using all the ground based measurements carried out by CPCB and other pollution control boards. The estimated AOD from the base case simulation in different grids will be compared with that NASA's MODIS AOD data. Moreover, the base case model's results will be used to estimate AQI, which will be validated using SAFAR's AQI at respective locations.
5. The ratio of concentrations from the two simulations will help in estimating the contribution of paddy stubble burning on $PM_{2.5}$ concentrations at selected cities, including New Delhi in different seasons of the year.
6. The probable change in ambient temperature in north Indian states due to the emissions from paddy stubble burning will be estimated.

Study Region

Haryana state along with Punjab is the rice bowl state of India. Almost 90-95% of Paddy area in Punjab, Haryana and Western UP is under intensive Rice-Wheat-System (RWS). RWS in Haryana is mostly concentrated in the north-eastern and north-western part of Yamuna and Ghaggar flood plains. The total cultivated area for rice crop was increased from 9.13 Lakh ha. in year 1997 to 14.22 ha. in year 2017 which shows an increment of 56%. Fig. 1 shows the google map of Haryana State.

10/12

14/8/153

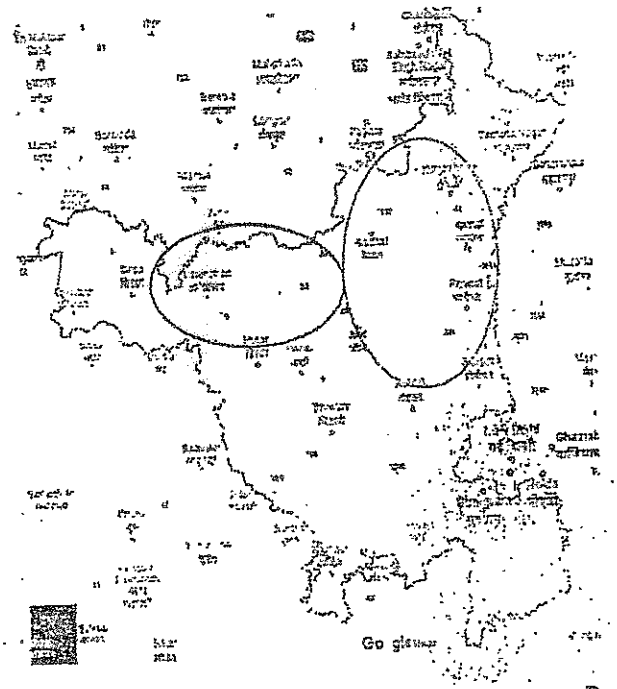


Fig. 1: Google Map of Haryana State (Circle represent maximum Paddy Growing area

Details about chamber in IIT Delhi to estimate emission rates

This chamber has dimensions as per EPA-5G, where the iso-kinetic sampling is strictly ensured with the two devices dedicatedly installed for it. Also, the emission chamber installed ensures the better sample measurements. Instruments such as GRIMM, Gas analysers etc. will used to measure particulates and gases like NO_2, CO, CO_2 etc. Moreover, there is a facility to attach filter paper to this set up to generate source chemical speciation profile of PM.

Fig. 2: Chamber facility in IIT Delhi to estimate emission rates.

14/9/154

Study Duration

One Year from the date of the award of the project.

Gantt chart

S.No.	Action Plan	Year					
		02	04	06	08	10	12
	Recruitment & Setting up of chamber						
	Collection and Analysis of past secondary data						
	Analysis of fire count data						
	Chamber study & Modifying emission inventory						
	Air Quality Modelling • Base case simulation and validation of model						
	Air Quality Modelling • Estimating contribution of stubble burning Haryana to PM2.5 and change in temperature in north Indian cities						
	Documentation (Report writing)						

Contribution of different institutes

1. IIT Delhi (Prof. Mukesh Khare and Dr. Sri Harsha Kota)

- Chamber studies to estimate $PM_{2.5}$, NO_2, SO_2 and NH_3 emitted per unit weight of paddy stubble burnt.
- Predicting concentrations of pollutants using WRF-Chem, and validating predictions using ground based concentrations data, satellite based AOD data and SAFAR AQI.
- Estimating the contributions of paddy stubble burning in Haryana on $PM_{2.5}$ in north Indian cities.
- Predicting change in ambient temperature in north-Indian cities due to contributions of paddy stubble burning in Haryana.

2. CSIR-NEERI Delhi (Dr. S.K. Goyal and Dr. Sunil Gulia)

- Critical analysis of secondary historical $PM_{2.5}$ concentrations and meteorological data to assess dispersion potential $PM_{2.5}$ concentration of all CAAQMS of HSPCB and manual stations (if any) will be collected for last three years. The meteorological data of HSPCB stations and IMD stations will be collected to evaluate the seasonal variation in dispersion potential of the study region with special focus on stubble burning period.
- Analysis of fire count data during the stubble burning period of last three years using satellite data and to develop correlation between air quality data and fire count data.

- Developing emission inventory of paddy stubble burning in Haryana using emission factors developed by IIT Delhi.

Reference

1. HT, 2016. Delhi chokes on smoke from neighbouring states, 24th October, 2016. http://www.hindustantimes.com/delhi/delhi-chokes-on-smoke-from-neighbouring-states/story-zAKXfIe5M0UXLNYfZa0H.html.
2. HT, 2015. Deadly burning of crop residue in nearby states leads to a blanket of smoke over Delhi. Hindustan Times (Gurgaon), 26th October 2015 (http://www.pressreader.com/india/hindustan-times-gurgaon/20151026/281500750109279).
3. Indian Express (2017): https://indianexpress.com/article/explained/delhi-air-pollution-smog-crop-stubble-burning-delhi-school-shut-odd-even-scheme-manish-sisodia-amarinder-singh-arvind-kejriwal-punjab-farmers-4930457/ 9th Nov. 2017

Budget Estimate

S. No.	Items	Amount (Rs.)		
		IIT Delhi	CSIR-NEERI DZC	Total
1.	Man Power *(JRF-2- No's) (Rs.25,000+ HRA)*	4,00,000	4,00,000	8,00,000
2.	Consumables	3,00,000	3,00,000	6.00,000
3.	Non-recurring	1,00,000	0,00,000	1,00,000
3.	Travel	1,00,000	1,50,000	2.50.000
4.	Contingencies	1,00,000	1,50,000	2,50.000
5.	Overhead expenses (20%)	2,00,000	2,00,000	4.00.000
Total		12,00,000	12.00.000	24,00,000

The Total budget for the proposed will be Rs. 24,00, 000 + GST as per GoI norms.

Payment Terms

100% of project fee (Rs. 24,00,000 + GST) in advance with work order to initiate the study.

Note: The payment to IIT Delhi (Rs. 12,00,000 + GST) and CSIR-NEERI (Rs. 12,00,000 + GST) should be made separately. Bank details of both organizations are attached with the proposal.

The study findings can be published in national/international journals/conferences by project investigators jointly for wider scientific interests with due acknowledgement to the HSPCB.

Brief CV of Project Investigators

Prof. Mukesh Khare

Professor Mukesh Khare is the Fellow of Institution of Engineers India and Fellow of Wessex Institute of Great Britain. He is a Chartered Engineer and was born in Varanasi, India. He obtained his Ph.D. degree in Faculty of Engineering from Newcastle University, UK and has managed a range of environmental projects throughout his professional career. With a specialization in air quality modelling, Prof. Khare's experience has covered research and development studies, teaching, consulting, modelling, editorial activities. In addition, Prof. Khare has authored more than 150 research publications primarily for peer reviewed journals and conference proceedings. He has two sons and lives and work in Indian Institute of Technology Delhi, India.

Contact Information

E-mail: mukeshk@civil.iitd.ac.in

Room No 220, Civil Engineering Department, IIT Delhi, Hauz Khas, New Delhi

Pin Code-110016

Tel (during hours): 91-11-26591212; Fax: +91 11 2658 1117

Professional Education

- 1984-1989: Ph.D. (Faculty of Engineering), Newcastle University, UK
- 1977-1979: M. Tech (Civil Engineering) University of Roorkee, India
- 1973-1977: B. Tech (Civil Engineering), University of Roorkee, India.

Relevant Publications

- Prashant Kumar, Suresh Jain, B.R. Gurjar, Prateek Sharma, Mukesh Khare, Lidia Morawska (2013). "New Directions: Can a Blue Sky Return to a Indian Megacities?", Atmospheric Environment, 71, pp. 1-4.
- Sumit Sharma, Prateek Sharma and Mukesh Khare (2013), "Hybrid modelling approach for effective simulation of reactive pollutants like Ozone", Atm. Env. 80, pp408-14.
- Sunil Gulia, S.M. Shiva Nagendra and Mukesh Khare (2014), "Performance evaluation of ISCST3, ADMS-Urban and AERMOD for urban air quality management in a mega city of India", Intern. J. of Sustainable Development and Planning, Vol. 9 (6) pp. 778– 793.
- Sunil Gulia, S.M. Shiva Nagendra, Mukesh Khare, Khanna, I. (2015), "Urban air quality management-A review", Atmospheric Pollution Research, doi: 10.5094/APR.2015.033.

Sunil Gulia, Akarsh Shrivastava, A.K. Nema and Mukesh Khare (2015). [redacted] urban air quality around a heritage site using AERMOD: A case study of [redacted] India. Environmental Modelling and Assessment, DOI: 10.1007/s10666-015-[redacted]

Gulia S., Kumar A., and Khare M. (2015). Performance Evaluation of CALPUFF and AERMOD dispersion model for air quality assessment of an Industrial complex. Journal of Scientific and Industrial Research, 74 (05), 302-307.

Isha Khanna, Mukesh Khare, Prashant Gargava (2015). Health Risks Associated with Heavy Metals in Fine Particulate Matter: A Case Study in Delhi City, India. Journal of Geoscience and Environment Protection, 2015, 3, 72-77

Sunil Gulia, S.M. Shiva Nagendra, Mukesh Khare (2015) Comparative Evaluation of Air Quality Dispersion Models for $PM_{2.5}$ at Air Quality Control Regions in India and US Cities, MAPAN, 30(04), 249-260.

Kumar, P., Khare, M., Harrison, R. M., Bloss, W. J., Lewis, A., Coe, H., & Morawska, L. (2015). New Directions: Air pollution challenges for developing megacities like Delhi. *Atmospheric Environment*.

14/13/158

Dr. Sri Harsha Kota

Outline of Relevant Experience

Dr. Sri Harsha Kota is an Assistant Professor in Department of Civil Engineering at Indian Institute of Technology Delhi. He has more than ten years of research experience in the field of air quality modeling and monitoring. His main areas of interests lie in development of air quality models, estimation of emission factors, regional air quality modelling, using machine learning tools to understand the relation between air pollution and human health, and source apportionment of air pollutants. He is actively engaged in research collaborations with scientists in India, US and China. He has authored more than forty journal publications.

Employment History

- May 2018- Assistant Professor, Indian Institute of Technology, Delhi (IITD). India
- *Aug 2014-May 2018 Assistant Professor, Indian Institute of Technology, Guwahati* (IITG), India
- Dec 2016-Jan 2017 Visiting Professor, Louisiana State University, USA
- Jan 2014-Jul 2014 Graduate Researcher, Texas Transportation Institute, Texas, USA
- Aug 2007-Dec 2013 Graduate Research Assistant, Texas A&M University (TAMU), Texas, USA

Educational Background

- PhD in Civil Engineering, Texas A&M University (TAMU), USA
- PG in Environmental Law & Policy in National Law University, India
- MS in Civil Engineering, Texas A&M University (TAMU), USA
- BE in Civil Engineering, Osmania University, India

Relevant Publications

- Sri Harsha Kota,... 2018. Year-long simulation of gaseous and particulate air pollutants in India. Atmospheric Environment,180, 244-255.
- Hao Guo, Sri Harsha Kota,... 2017. Source apportionment of PM2.5 in North India using a source-oriented regional air quality model. Environmental Pollution, 231. 426-436.
- Shovan Kumar Sahu and **Sri Harsha Kota**. 2017. Significance of PM2.5 air quality in the Indian capital. Aerosol and Air Quality Research, 17(2), 588-597.
- Sri Harsha Kota,... 2015. Evaluation of MEGAN Predicted Biogenic Isoprene Emissions at Urban Locations in Southeast Texas. Atmospheric Environment, 110, 54-64.

10/18

14/14/159

- Sri Harsha Kota,... 2014. Evaluation of On-road Vehicle CO and NO_x National Emission Inventories Using an Urban-scale Source-oriented Air Quality Model. Atmospheric Environment, 85, 99-108.
- Sri Harsha Kota,... 2013. Simulating Near-road Roadway Dispersion of Gaseous Air Pollutants using a Three-Dimensional Eulerian Model. Science of the Total Environment, 454-455, p348-357.

14/15/160

Dr. S.K. Goyal

Sr. Principal Scientist & Head

CSIR-NEERI, Delhi Zonal Centre,

A 93/94, Naraina Industrial Area, Phase I

New Delhi 110028, India

Email: sk_goyal@neeri.res.in; goyalneeri@gmail.com

Mobile: +91-9423400470; Tel: +91-11-45609107, Fax: +91-11-45609106

Educational Qualification

- B.E. (Pulp & Paper), IIT Roorkee, 1987, 3rd Rank
- M.E. (Chemical), IIT Roorkee, 1989, Gold Medalist
- Ph.D. (Environmental Engineering), RTM Nagpur University, Nagpur, 2002

Research Experience (1987- Feb 2013)

[1987-1989 – IIT Roorkee, Roorkee and Jan 1990 till date ... CSIR-NEERI, Nagpur]

His research experience is in multi-disciplinary areas which include quantification and minimization of uncertainties associated with ambient air monitoring (monitoring method sensitivity analysis, audit system development), preparation of emission inventory for industrial, vehicular & areas sources, and air quality modeling for different sources of air pollution leading to air resource management with the overall objective of improvement in air quality.

He has significantly contributed to various projects relating to Carrying Capacity based developmental planning studies for different topographical zones leading to sustainable development of the region like Doon Valley, National Capital Region, Jamshedpur Region and Greater Kochi Region), environmental impact assessment for different industrial sectors (refinery, power plants, paint industry), assimilative capacity based industrial development planning studies, stack emission monitoring with QA/QC and performance evaluation of pollution control systems, energy recovery from distillery and hospital wastewaters through bench and pilot scale studies using fixed film reactor technology, paper manufacturing process optimization (pulping, bleaching & paper making) and waste management for non-conventional raw materials based pulp and paper mills with economic evaluation.

He has also conducted air quality review studies in India, Thailand, Indonesia, Sri Lanka, Myanmar and Nepal under the project on Review of GEMS/Air Monitoring Stations in South East Asia Region for UNEP/WHO, Geneva.

10/20

14/16/161

Publications

Based on the research work carried out, he has published more than 80 research papers in peer reviewed international and national journals/conference proceedings. He has also contributed 13 chapters in edited books and more than 50 technical reports, and delivered more than 100 presentations/lectures in international/national conferences/ workshops/ training programs.

He has authored three technical guidance documents, 1) "Air Quality Monitoring Network Design Considerations for Developing Countries" for WHO-SEARO, New Delhi, 2) "Urban Air Pollution in India: Status and Challenges" for Indian National Science Academy (INSA), New Delhi, and 3) "Contribution of Energy Sector to NOx Emissions" for Indian Nitrogen Group (ING), New Delhi.

Some of the Publications in air quality

1. Sivacoumar, R., Bhanarkar, A. D., Goyal, S. K., Gadkari, S. K., & Aggarwal, A. L. (2001). Air pollution modeling for an industrial complex and model performance evaluation. *Environmental Pollution, 111*(3), 471-477.
2. Goyal S.K. (2002). Effect of Sample Flow rate and Sampling Duration on Absorption of NO_2 in the Sodium Arsenite Monitoring Method. *Journal of Environmental Monitoring (UK), Vol. 4 (4), pp. 579-582.*
3. Goyal S.K. (2003). Comparison of Two Manual Methods of Nitrogen Dioxide Determination in Ambient Air. *Environmental Monitoring and Assessment*, Vol. 89 (3), pp. 305-314.
4. Goyal S.K. Gavane A.G. (2005). Effect of Analytical Techniques on Measured NO_2 Concentration Levels in Ambient Air. *Environmental Monitoring and Assessment*, Vol. 105, pp. 1-9.
5. Bhanarkar, A. D., Goyal, S. K., Sivacoumar, R., & Rao, C. C. (2005). Assessment of contribution of SO 2 and NO 2 from different sources in Jamshedpur region, India. Atmospheric Environment, 39(40), 7745-7760.
6. Goyal S.K. Ghatge S.V. Nema P., Tamhane S.M. (2006). Understanding Urban Vehicular Pollution Problem vis-a-vis Ambient Air Quality –Case Study of a Megacity (Delhi, India). *Environmental Monitoring and Assessment*, 119 (1-3), pp. 557-569.
7. Goyal S.K. (2006). Effect of Reagent (Dye) Addition in Wet Chemical Method of Sulfur Dioxide Determination in Ambient Air. *Environmental Monitoring and Assessment*, 120 (1-3), pp. 461-476.

14/17/162

8. Goyal S.K. and Chalapati Rao C.V. (2007). Assessment of Atmospheric Assimilation Potential for Industrial Development in an Urban Environment: Kochi (India). *Science of the Total Environment*, April 2007; 376/1-3, 27-39.

9. Goyal S.K. and Chalapati Rao C.V. (2007). Air Assimilative based Environment Friendly Siting of New Industries – A Case Study of Greater Kochi Region, India. *Journal of Environment Management, 84 (4)*, pp.-473-483

10. Goyal S.K., Goel Sangita and Tamhane S.M. (2009). Assessment of Environmental Benefits of Flyover Construction over Signalized Junctions: A Case Study. *Environmental Monitoring and Assessment, Jan 2009, Vol. 148, pp. 397-408.* DOI 10.1007/s 10661-008-0170-4.

Area of Work (March 2013 - August 2016) as Head of EIRA Division, NEERI, Nagpur

- Environmental Impact Assessment Studies for Different Sectors/ Regions
- Assimilative Capacity based Sustainable Industrial Development
- Carrying Capacity based Regional Development Planning for Sustainable Development

Current Area of Work (Sept 2016 onwards...) as Head, NEERI-Delhi Zonal Centre, Delhi

- EIA / Regional EIA, Assimilative/Carrying Capacity, Sustainable Development, and Air & Water/ wastewater related studies

14/18/163

Dr. Sunil Gulia
Scientist Fellow
CSIR-NEERI, Delhi Zonal Centre
Email: s_gulia@neeri.res.in; sunilevs@gmail.com,
Contact No.: 08447505460

Dr. Gulia is a progressive environmentalist with more than 08 years of technical experience in Air Quality Modeling and Urban Air Quality Management, Environment Impact Assessment, Vehicular Pollution Management, Indoor Air Quality. NABET accredited FAE of Air Pollution Modeling and Meteorology. Expertise on Air Pollution Dispersion Modeling Software, i.e., CALPUFF, AERMOD, ADMS_ Urban, EDMS, ISCST3 and CALINE-4. Sound knowledge of air quality monitoring methods and instrumentations.

Professiqnal Career

1. CSIR-NEERI Delhi Zonal Centre: October, 2016- till date
   Scientist Fellow
2. IIT Delhi: September, 2013 – Sept.2016
   Senior Project Scientist
3. Central Road Research Institute, New Delhi: March, 2013 – August, 2013
   Senior Project Fellow
4. IIT Delhi: May, 2010 – February, 2013
   Senior Research Fellow
5. M/s. Ireo Pvt. Ltd., Gurgaon: December, 2009 – April, 2010
   Assistant Manager-Environment
6. M/s. Voyants Solution Pvt. Ltd., Gurgaon: July, 2008 – November, 2009
   Assistant Manager-Environment Management System.
7. Central Road Research Institute, New Delhi: October, 2007- June, 2008
   Project Trainee

Educational Qualifications

- PhD, IIT Delhi, 2015
- M.Tech (Environmental Sc. & Engg.), G.J.U.S & T, Hisar, Haryana, 2008
  Division: First, CGPA: 8.31
- M.Sc. (Environmental Sciences), G.J.U.S & T, Hisar, Haryana, 2006
  Division: First, 65%

14/19/164

Ph.D. RESEARCH

Thesis Title: *Urban* Local Urban Air Quality Management (ULAQM) Framework for NO_2 and $PM_{2.5}$ using Hybrid Models. Civil Engineering Department, IIT Delhi, India

RESEARCH PROJECTS

1. Carrying Capacity based Environmentally Sustainable Iron & Manganese Ore Mining Activities in Keonjhar, Sundergarh and Mayurbhanj Districts of Odisha State
2. ECO-innovative, Safe and Energy Efficient wall paints and materials for a healthier indoor environment (ECOSEE): Funded by EU under FP7;
   Role: Sr. Project Scientist, IIT Delhi
   - Interaction mechanism of VOCs and building materials
3. Evaluation of economic Loss due to idling of vehicles at Signalized Intersection and Mitigation measures (ELSIM): Funded under 12th Five year plan
   Role: Senior Project Fellow, CRRI, New Delhi
   - Fuel consumption during vehicles in idling condition at traffic signals.
   - Supervision of traffic fleet and fuel station survey.
   - Development of emission inventory of pollutants during idling conditions.
4. Evaluation of quantitative dispersion model for urban air quality assessment,: Sponsored by UKIERI,
   Role: Senior Research Fellow, IIT Delhi
   - Performance evaluation of five Gaussian based air quality models namely DFLSM, GFLSM, CALINE4, AERMOD and ADMS for Indian and UK urban traffic conditions.
   - Identification of most suitable air quality model for Indian conditions for urban air quality assessment.

SELECTED RESEARCH PUBLICATIONS

- Sunil Gulia, S. M. Shiva Nagendra, Mukesh Khare (2016). Extreme Events of Reactive Ambient Air Pollutants and their Distribution Pattern at Urban Hotspots. Aerosol and Air Quality Research. doi: 10.4209/aaqr.2016.06.0273.
- Sunil Gulia, Akarsh Shrivastava, A.K. Nema, Mukesh Khare (2015). Assessment of urban air quality around a heritage site using AERMOD: A case study of Amritsar city, India. Environmental Modelling and Assessment, 20(6), 599-608.

14/20/165

3. Sunil Gulia, S.M. Shiva Nagendra, Mukesh Khare, Isha Khanna (2015). Urban air quality management–A review. Atmospheric Pollution Research, 6, 286-304.

4. Gulia, S., Nagendra, S., & Khare, M. (2015). Comparative Evaluation of Air Quality Dispersion Models for $PM_{2.5}$ at Air Quality Control Regions in Indian and UK Cities. MAPAN, 30(4), 249-260.

5. Gulia S., Kumar A., and Khare M., (2015). Performance Evaluation of CALPUFF and AERMOD dispersion model for air quality assessment of an Industrial complex. Journal of Scientific and Industrial Research Journal of Scientific & Industrial Research, 74, 302-307.

6. Sunil Gulia, S.M. Shiva Nagendra and Mukesh Khare (2014). Performance evaluation of ISCST3, ADMS-Urban and AERMOD for urban air quality management in a mega city of India. International journals of sustainable development and planning, 9 (6), 778 – 793.

7. Dhyani R., Singh A., Sharma N., Gulia S., (2013). Performance Evaluation of CALINE4 Model in Complex Terrain – A case study of Himachal Pradesh, India. International Journal of Environment and Pollution, Vol.52, No.3/4, pp.244-262.

8. Sunil Gulia, Richa Sehgal, Sumit Sharma, Mukesh Khare (2016). Emission Inventorisation and Modelling of Non-Methane Volatile Organic Compounds from Petrol Distribution Centres in an Urban Area. Proceeding of International conference on Water, Environment, Energy and Society, at Bhopal, during 15-18th March.

10/25

Annexure-III

14/23/168

HSPCB

HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA
Ph-2577870-73 E-mail: drokmkhspcb@gmail.com

No. HSPCB/Aircell/2018/2511

Dated: 11-10-2018

To

Sh. Mukesh Khare, Professor,
Department of Civil Engineering,
Indian Institute of Technology, Delhi.

Sub:- Study proposal on "Quantification and Contribution of Paddy Stubble Burning emissions in Haryana to $PM_{2.5}$ concentrations on surrounding regions".

Please refer to this office letter no. 2272 dated 17.09.2018, no. 2406 dated 01.10.2018 and your email dated 04.10.2018 vide which you have requested that payment of 50% to project cost may be released in advance separately to each Institute i.e. Rs. 6 Lakhs to IIT Delhi and Rs. 6 Lakhs to NEERI.

In view of above, in continuation of this office letters referred above, the financial conditions of the study project are amended as under;

1) The 1st installment of Rs. 12 lakhs (Rs. 6 Lakhs to IIT Delhi and Rs. 6 lakhs to NEERI).
2) The 2nd installment of Rs. 12 Lakhs + GST (Rs. 6 Lakhs to IIT Delhi and Rs. 6 lakhs + GST (i.e. @ 18% of Rs. 12 Lakhs) to NEERI) after completion of the study.

The other terms and conditions will remain same as already conveyed vide this office letter no. 2272 dated 17.09.2018 (copy enclosed).

DA/ As above.

Environmental Engineer (HQ)
For Chairman

Final Report

Quantification and contribution of paddy stubble burning emissions in Haryana to $PM_{2.5}$ concentrations in its surrounding cities and Delhi

The results of this study are highly dependent on the accuracy of the US National Centre for Atmospheric Research (NCAR) fire emission estimates.

Abstract

In this report the analysis of the transport of $PM_{2.5}$ from Haryana to Delhi due to the stubble burning events has been carried out using chemical transport model simulations during peak burning in post-monsoon season. Additionally, secondary monitored concentrations and meteorological data analysis is also presented. For this, the time series, wind rose, pollution rose and polar plots were plotted. The preliminary exploratory analysis shows that there are remote chances of transport of primary $PM_{2.5}$ from Haryana to Delhi because of very low wind speeds observed at all stations in Haryana as well as Delhi. As a result it seems that long range transport of secondary particulates may be the cause of high $PM_{2.5}$ concentrations in Delhi. Further analysis using US EPA's chemical transport models, Community Multiscale Air Quality Model (CMAQ) and Weather Research Forecasting (WRF)-Chem models.

1.0 Introduction

High air pollution level in terms of particulate matter in Delhi and surrounding cities is a matter of concern by Public and regulators throughout the year. However, episodic situations (air pollution episode) during the months of October-November from last few years is well known problem and one of the prime topics in Indian media every year. Few days of this period, a thick blanket of smog covers the northern states such as Punjab, Haryana, Delhi etc. Hazy weather was witnessed recently which might have been due to the pollution levels caused during post-Diwali period and smoke generated from burning of agriculture stubble. Agricultural stubble burning may emit significant quantity of air pollutants like NO_x, SO_2, CO, NH_3 and particulate matter. The burning of agriculture residue (Paddy Crop's residue) in states of Haryana and Punjab during this period is reported extensively by media as one of the major sources of air pollution in Delhi for last few years.

Based on the source apportionment analysis using monitoring data of Delhi city, Sharma and Dikshit (2016) have estimated that burning of biomass contributes almost 13.43-35.35% in winter and 5.24-27.24% in summer which is further linked with the burning of agriculture residue in and outside Delhi. However, roadside open burning of organic and plastic waste, burning of wood during winter for cooking and heating and the unintentional burning of municipal solid waste at landfill sites are common practices in Delhi city. Though Delhi has been a focal point, however, many other neighbouring cities also get impacted. Therefore, it is important to fill the knowledge gap pertaining to quantification and contribution of Paddy Stubble burning towards in the state of Haryana to overall concentration of particulate matter in Haryana, Delhi and surrounding cities.

In view of the occurrence of air pollution episode in Delhi NCR when Paddy stubble burning happens in the state of Haryana, the Haryana State Pollution Control Board, (HSPCB), Panchkula requested to IIT Delhi and CSIR-NEERI Delhi Zonal Centre to do the study and quantify the contribution of Paddy stubble burning in Haryana to overall PM level in the surrounding regions.

2.0 Methodology

The meteorological and $PM_{2.5}$ data for the time period of September 15 to November 15 for the years 2015-2018 has been analysed. The data has been taken from the CPCB's online portal (https://app.cpcbccr.com/ccr/#/caaqm-dashboard-all/caaqm-landing), that provides the time series meteorological and pollutant data for different averaging time periods. The preliminary exploratory analysis involved the plotting of time series, wind rose and pollution rose plots for the time period under consideration. For this, the data of the following parameters have been used:

i. $PM_{2.5}$
ii. Wind speed
iii. Wind direction

Table 3.1: List of CAAQMS considered for Analysis

Sr. No	Name of Station	Direction w.r.t Centre of Delhi
Delhi City		
1	Narela	North West
2	Punjabi Bhagh	West
3	Najafgarh	South west
4	Dwarka	South west
Haryana State		
1	Panchkula	North
2	Gurugram	South
3	Rohtak	North West

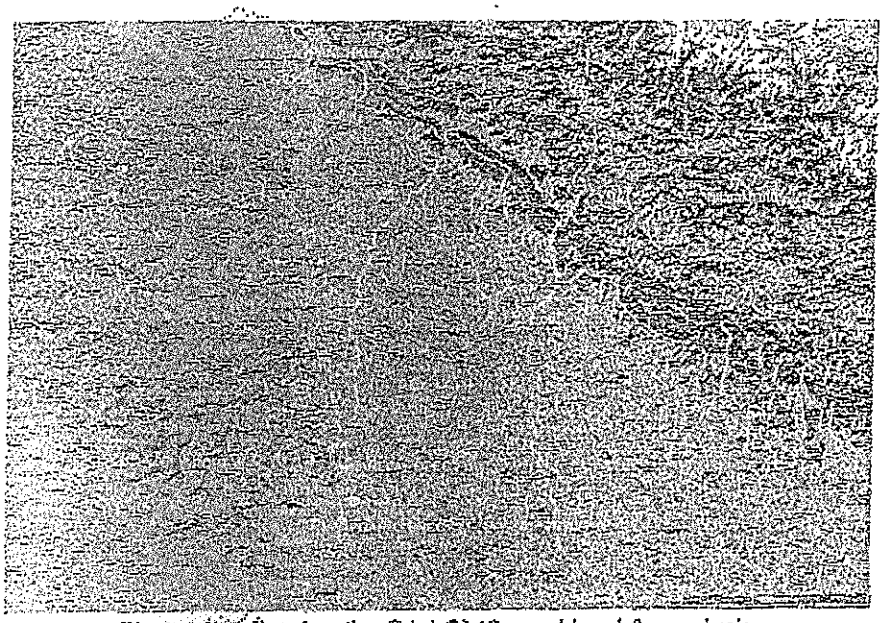


Fig 1. Map showing the CAAQMS considered for analysis

2.1 Wind rose diagrams

It shows a graphical representation of the direction the wind blows from at a given location over a given period, the direction of the prevailing winds. A wind rose is usually shown in a circular pattern and shows the frequency of winds blowing from different directions. The length of each bar or spoke shown in the circle represents the frequency of time that the wind blows from the direction it is pointing to. The frequency scale is usually shown as concentric circles, based on the centre of the rose, getting further from the centre with increasing frequency. The centre of the rose represents a frequency of zero. Some wind roses carry further information by using colour codes on each spoke to represent different speed ranges with the frequency represented by the length of banding on the spoke.

2.2 Pollution Rose diagrams

Pollution rose diagrams are a tool that, for each wind direction, depicts the associated air quality, either as a mean concentration or as a frequency of the time that pollution levels exceed some designated threshold value of interest and is used to infer the distribution and strength of emission sources around the sampling station. It can also be described as a tool which graphically displays pollutant concentration and wind direction with wind speed frequencies at a location over a period. Presented in a circular format, the pollution rose shows the pollutant concentration blowing from directions over a specified period. The length of each "spoke" or "petal" around the circle is related to the frequency that the pollutant is dispersed from a direction per unit time. The

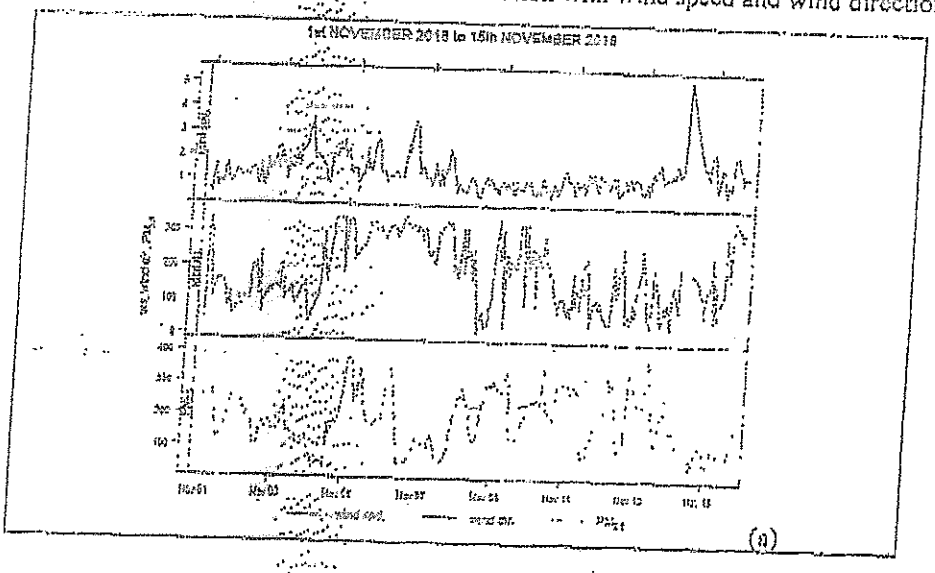
concentric circles represent the frequency of wind speed values that were measured corresponding to a wind direction.

3.0 Data Analysis

3.1 $PM_{2.5}$ Levels in Delhi City

i. Najafgarh (NFG):

Fig. 3.1 shows the time series and windrose plot of PM2.5 concentration and wind parameters of CAAQMS located at Najafgargh (NFG). Further, Fig. 4.2 shows the pollution rose and polar plot which correlate the PM2.5 concentration with wind speed and wind direction.



(a)

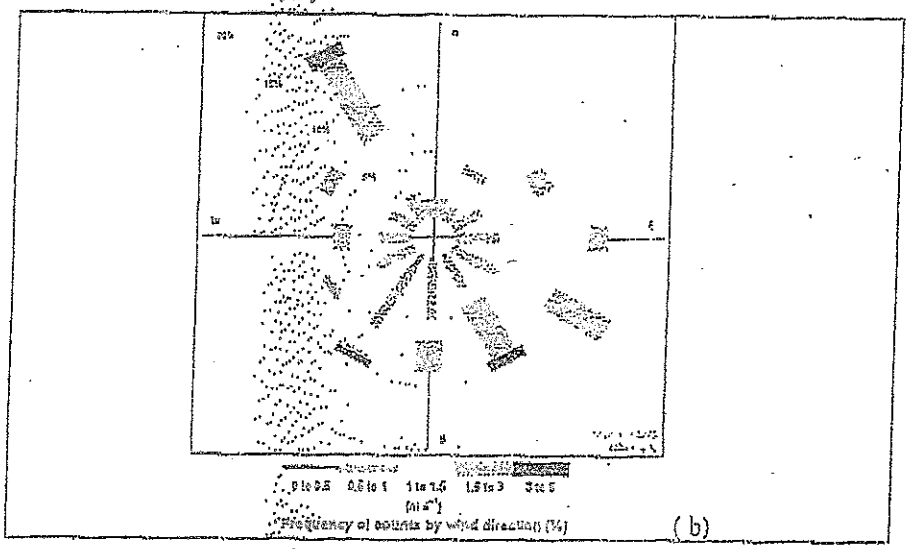
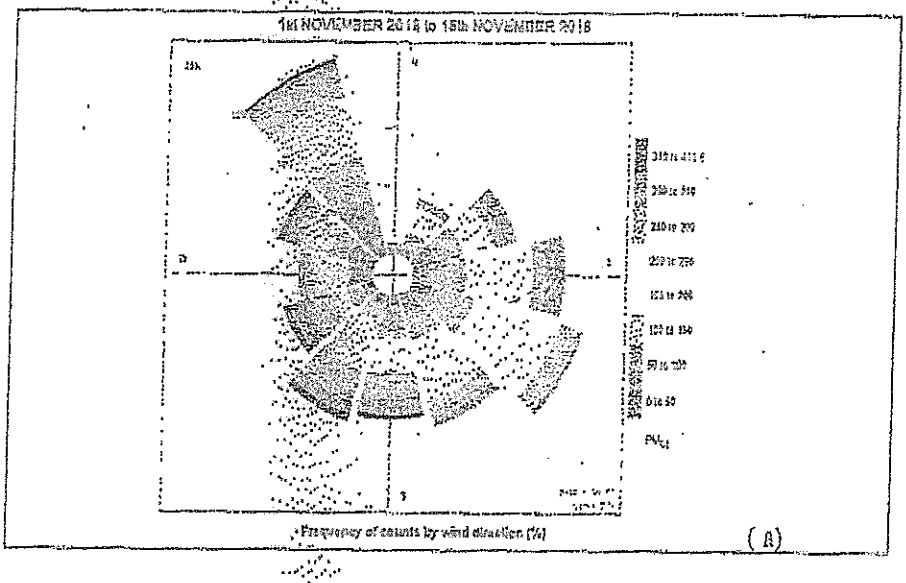


Fig. 3.1: Time Series of $PM_{2.5}$ (a) and Wind rose diagram (b) of meteorological parameters



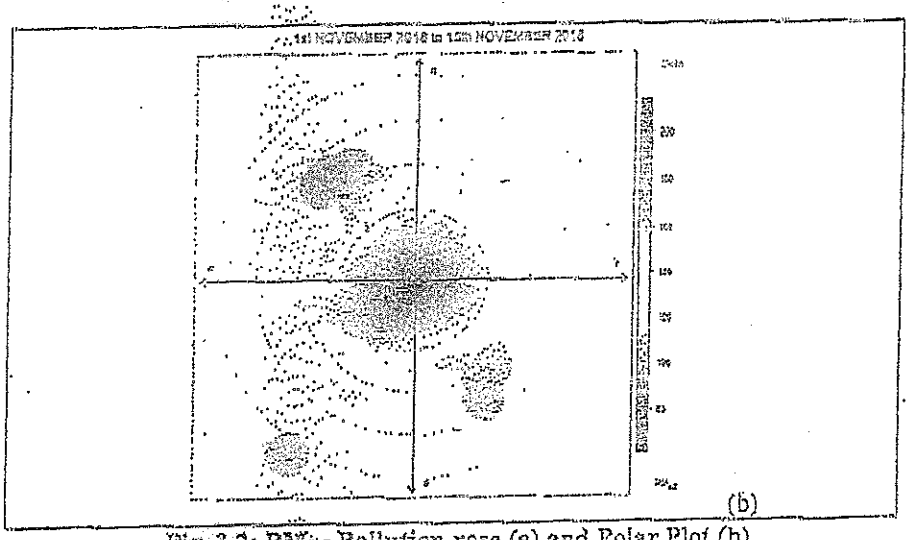
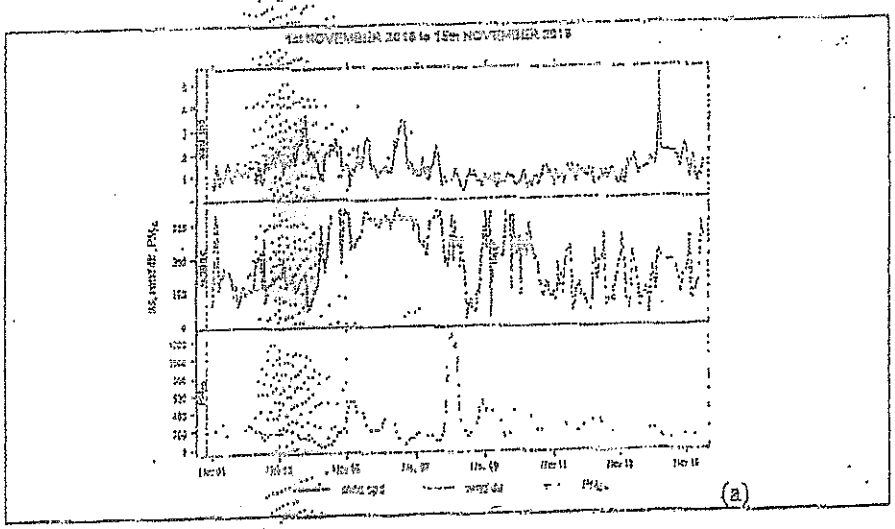


Fig. 3.2: $PM_{2.5}$ Pollution rose (a) and Polar Plot (b)

From the above plots it is observed that for the period of Nov 1 to Nov15, 2018, the wind speeds are high from Nov 4 to Nov 7 and mostly lie in the fourth quadrant as per the wind direction. The $PM_{2.5}$ concentrations are also observed to be peak during the period from Nov 5 to Nov 13 when average wind speed was ~1m/s blowing from the northwest direction. From the pollution rose, 15% of the wind speeds correspond to the North west direction (lie in 4th quadrant). This can be attributed to the $PM_{2.5}$ contribution from the stubble burning occurring during the period in Haryana. For the rest of the days the wind speeds are very low thus unfavourable for dispersion.

ii. Dwarka:



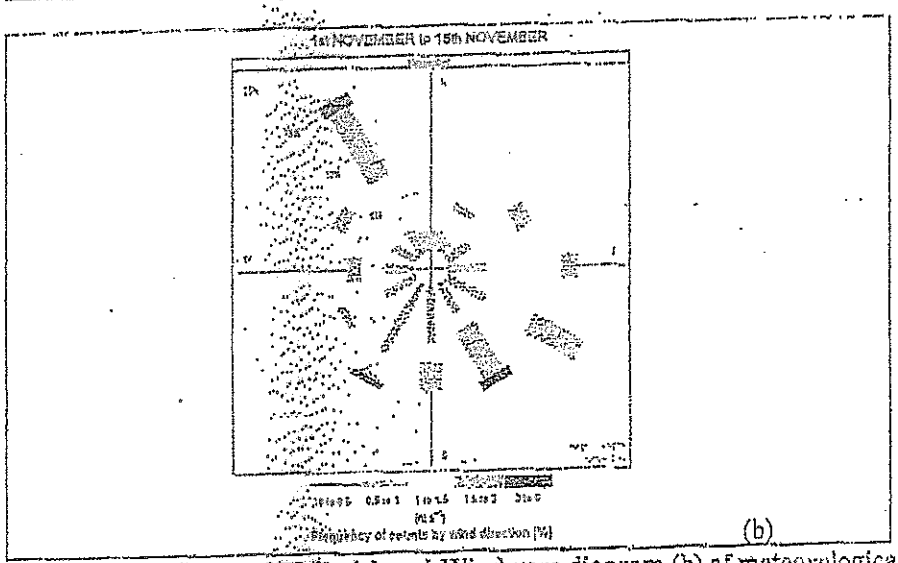


Fig. 3.3: Time Series of $PM_{2.5}$ (a) and Wind rose diagram (b) of meteorological parameters

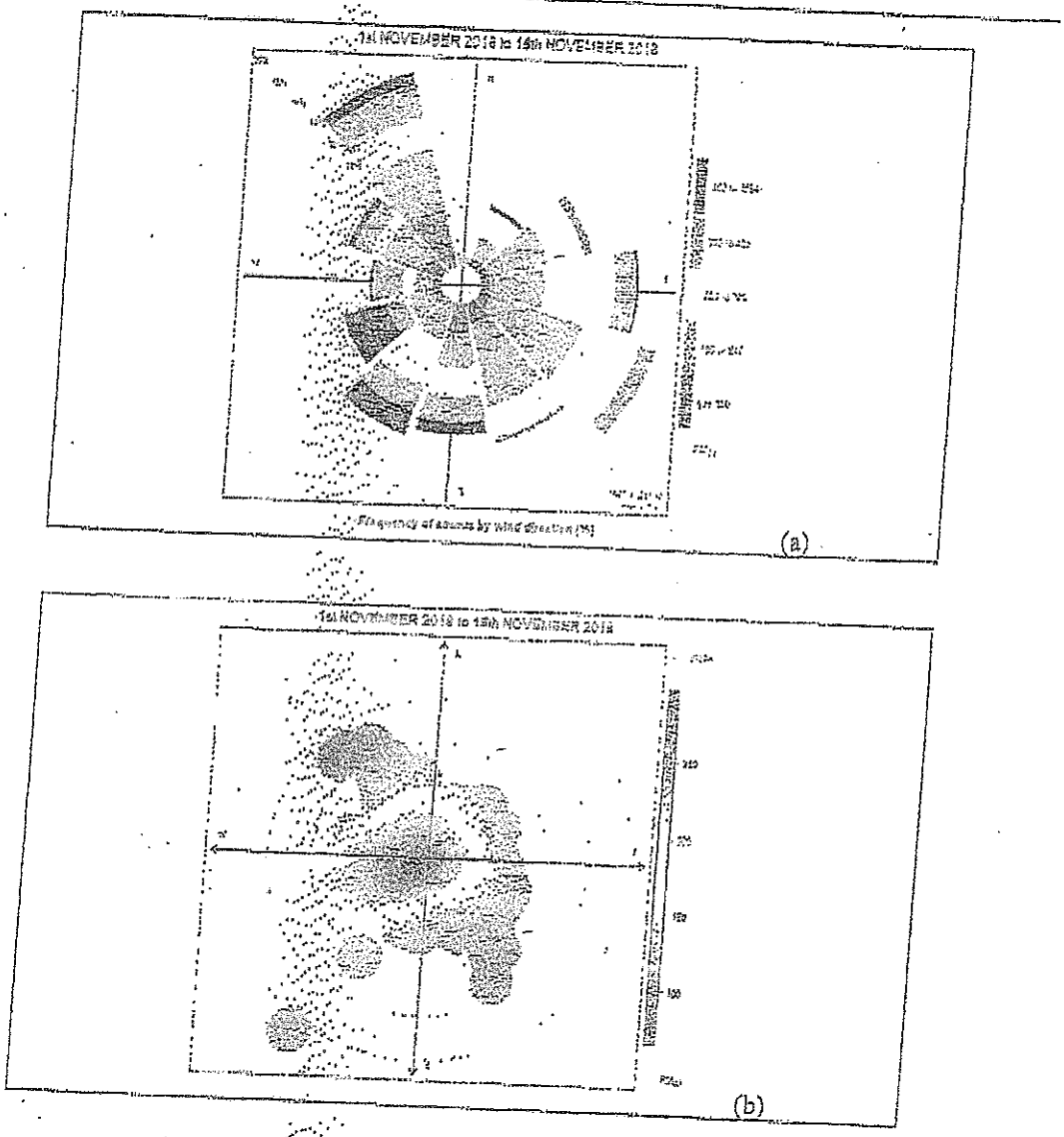
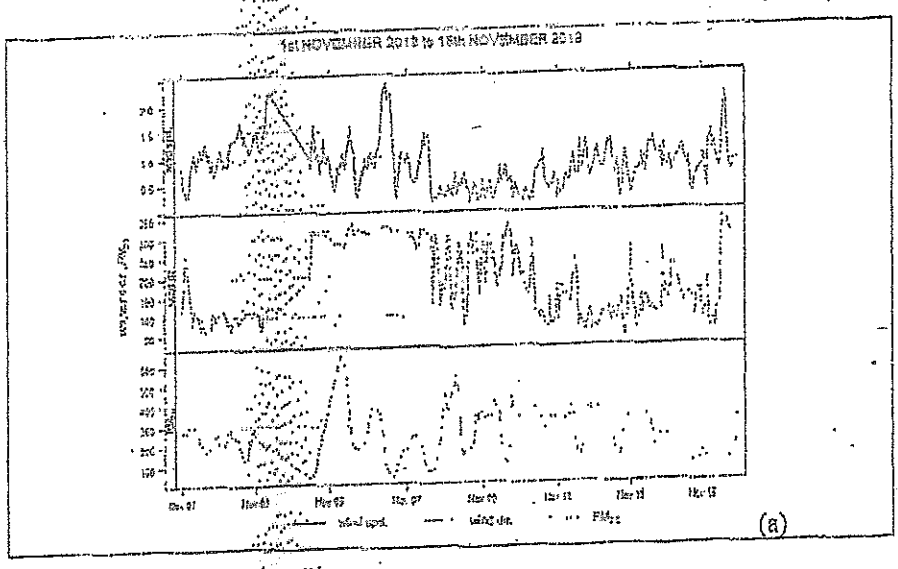


Fig. 3.4: $PM_{2.5}$ Pollution rose (a) and Polar Plot (b)

From the timeseries plot it, the peak in $PM_{2.5}$ concentration is observed from Nov 5- Nov 10 with average wind speed of ~1.5m/s majorly blowing from the north west direction. From the pollution rose and the wind rose diagram it can be concluded that as higher wind speeds are mainly observed to be blowing from the north west direction, it can be said that there is significant contribution of $PM_{2.5}$ from the Haryana region.

iii. Narela:



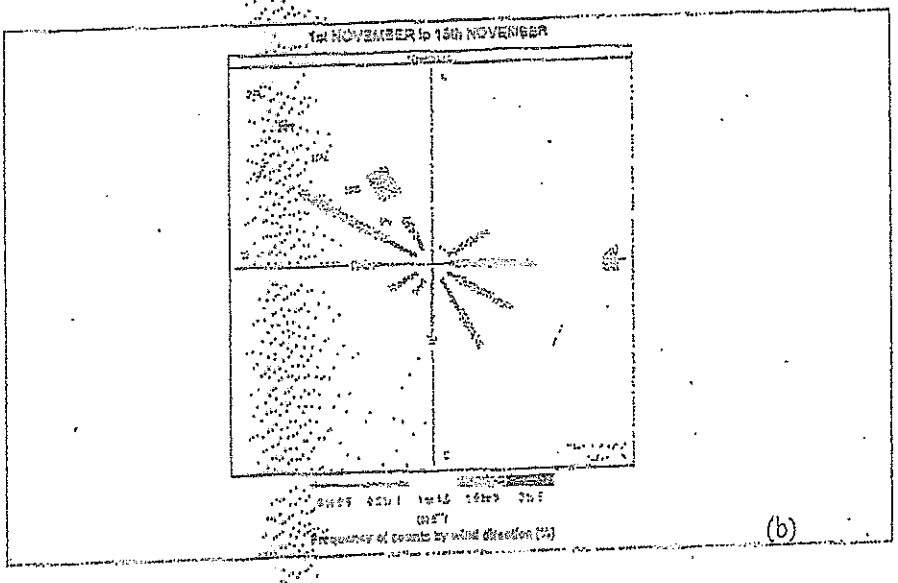
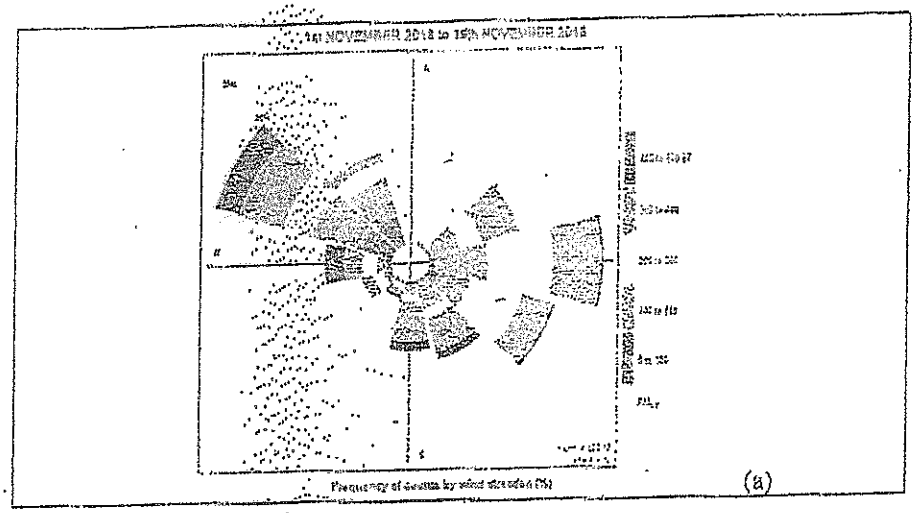


Fig. 3.5: Time Series of $PM_{2.5}$ (a) and Wind rose diagram (b) of meteorological parameters



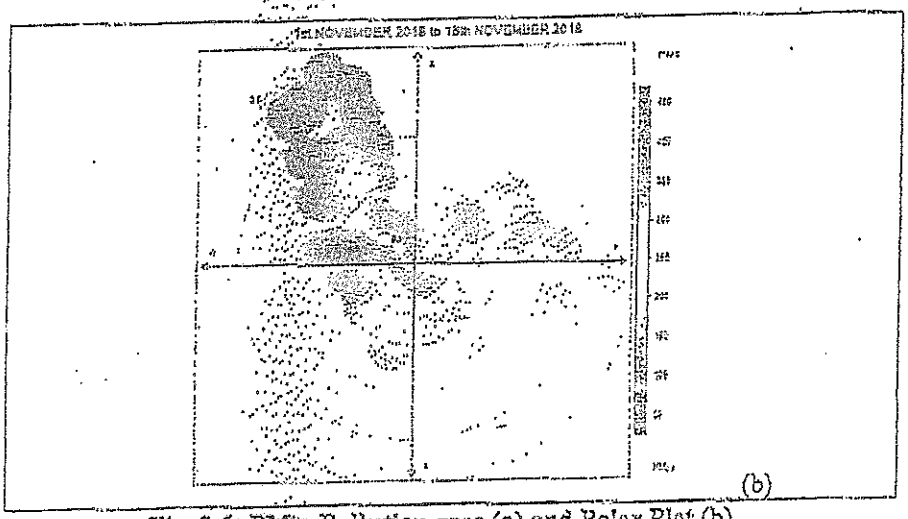
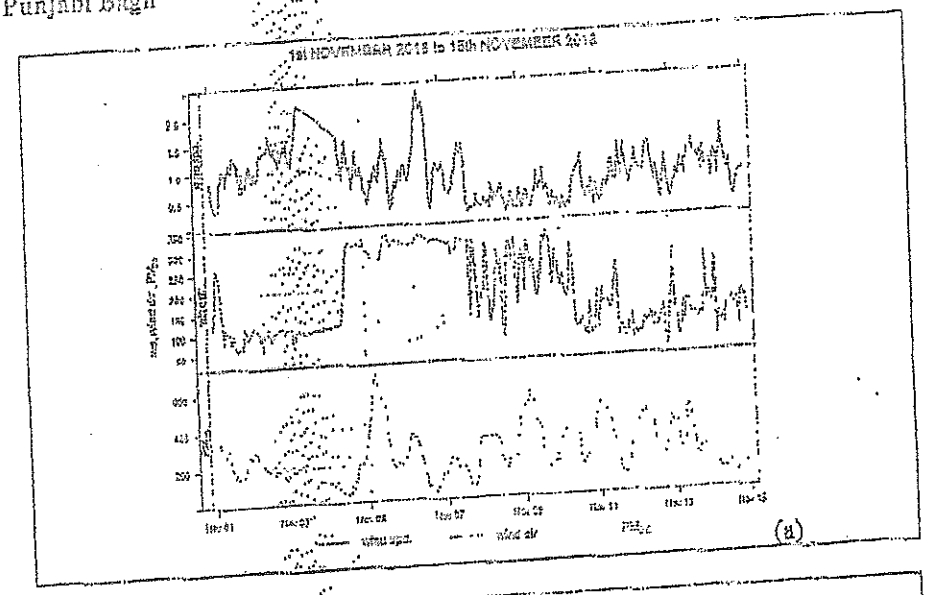


Fig. 3.6: $PM_{2.5}$ Pollution rose (a) and Polar Plot (b)

For Narela, the peaks in the $PM_{2.5}$ concentrations are observed from 5th Nov to Nov 13th with average wind speeds of ~1m/s blowing from north west direction from 4th to 10th Nov. The wind speeds are higher during 6th to 7th Nov suggesting that $PM_{2.5}$ may have been transported over from Haryana. The lower wind speeds might be responsible for suppressed dispersion which lead to higher $PM_{2.5}$ concentrations from Nov 5 to Nov 13. From Nov 1-3 and from 11 Nov onwards the wind is majorly blowing from east direction with average wind speed of 1.5m/s.

iv. Punjabi Bagh



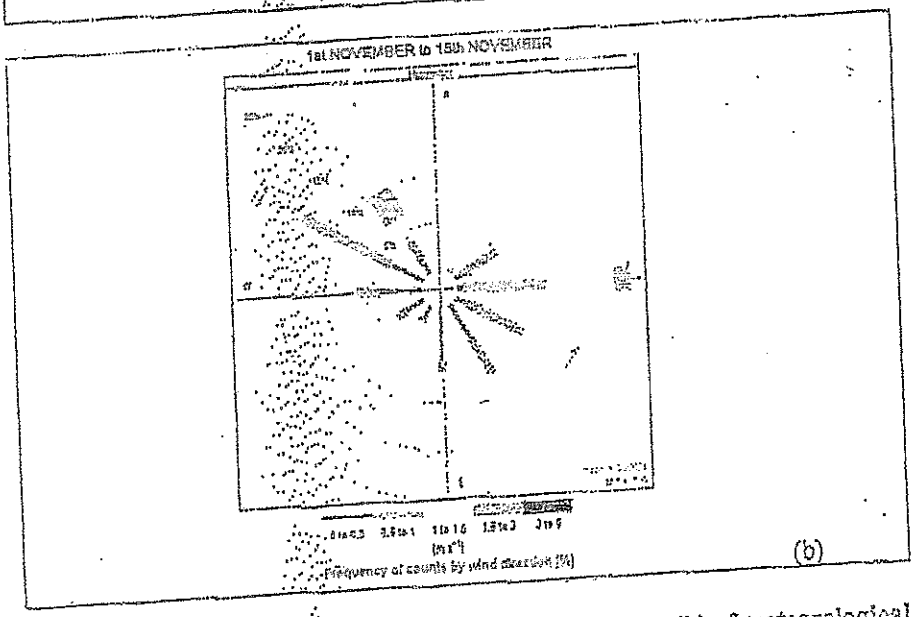


Fig. 3.7: Time Series of $PM_{2.5}$ (a) and Wind rose diagram (b) of meteorological paramaters

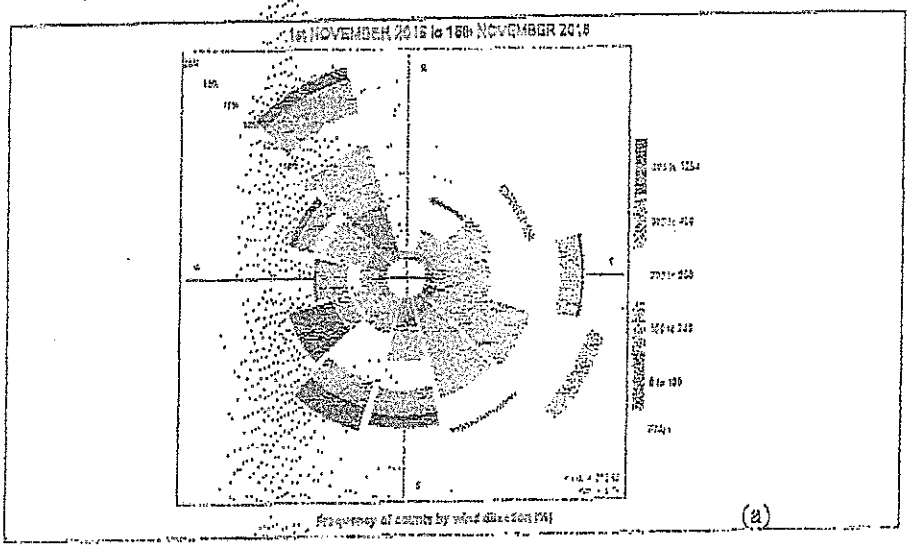


Fig. 3.8: $PM_{2.5}$ Pollution rose (a) and Polar Plot (b)

For Punjabi Bagh, the $PM_{2.5}$ concentrations are way above the permissible limits as prescribed by CPCB for the entire period from 1st to 15th of November. However, peaks in the $PM_{2.5}$ concentrations can be observed from Nov 5- Nov 13 when the wind was blowing from north west for Nov 5- Nov 10 with an average wind speed of 1 m/s. Higher wind speeds blowing from the north west direction are observed on 4th, 5th and 6th Nov. Thus, we can say there can be $PM_{2.5}$ that was transported over from Haryana. For the rest of the days the local sources may be the ones

contributing to the $PM_{2.5}$. The higher concentrations can also be attributed to the lower wind speeds leading to suppressed dispersion and dilution of the $PM_{2.5}$.

4.2 $PM_{2.5}$ Levels in Haryana State

v. Panchkula (Haryana)

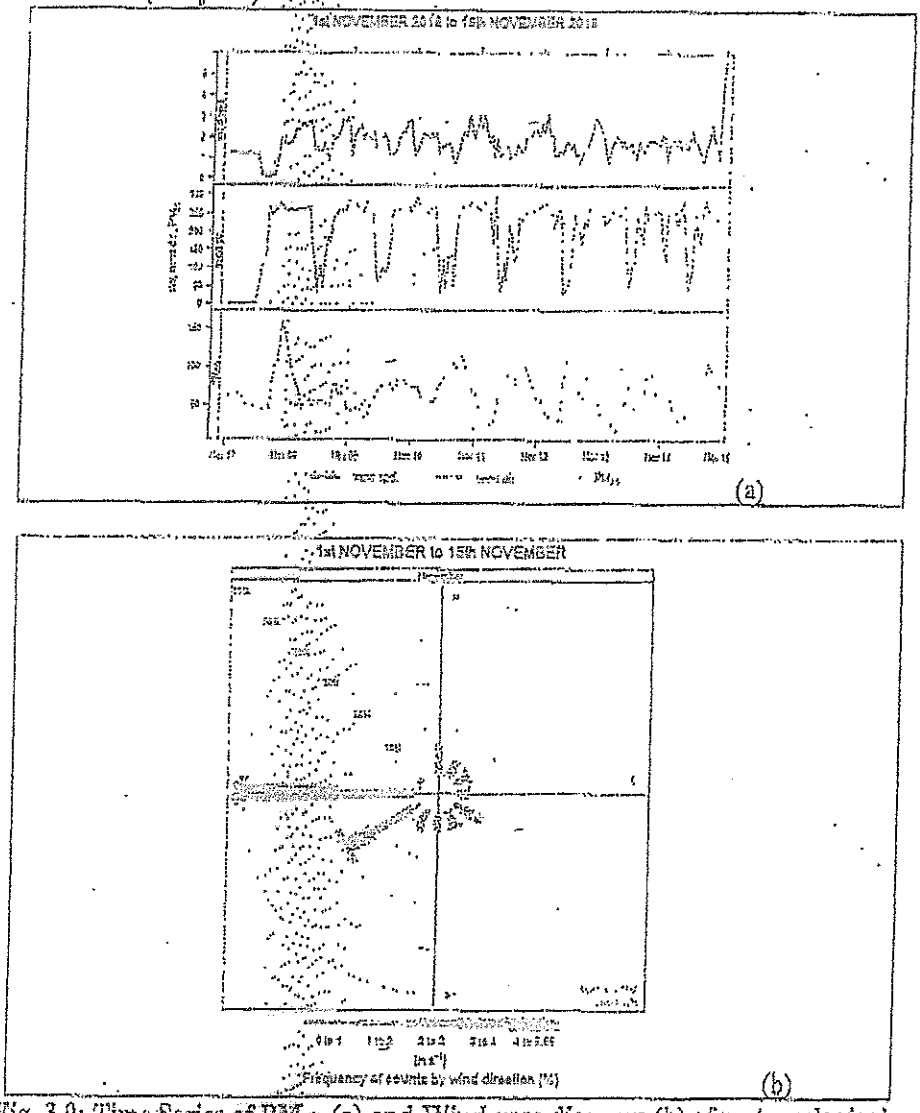
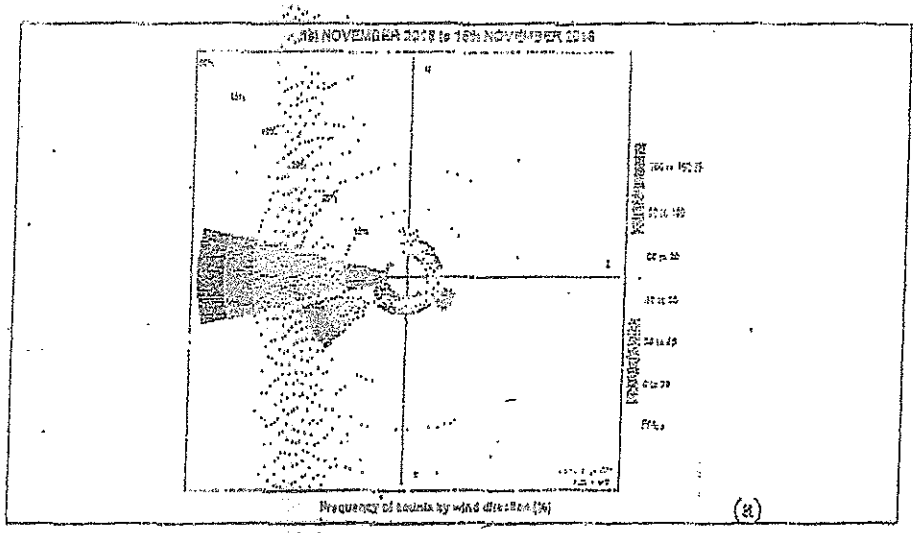


Fig. 3.9: Time Series of $PM_{2.5}$ (a) and Wind rose diagram (b) of meteorological parameters



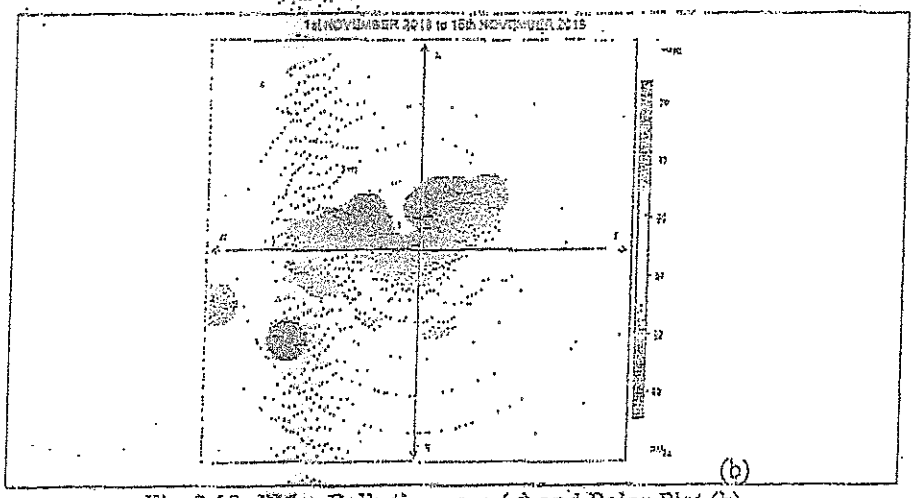


Fig. 3.10: $PM_{2.5}$ Pollution rose (a) and Polar Plot (b)

The $PM_{2.5}$ concentrations before the 7th of November are observed to be under the permissible limits for Panchkula. However, a sharp peak in the $PM_{2.5}$ concentrations is seen on the 8th of November as is seen in all the stations in Delhi. The concentration is still very low as that compared to those of Delhi for the same day. The wind is observed to blow majorly from the west to east direction with average wind speeds of ~2m/s. Thus, it can be said that no significant contribution of $PM_{2.5}$ is made from Panchkula area to Delhi's $PM_{2.5}$ concentrations.

vi. Rohtak

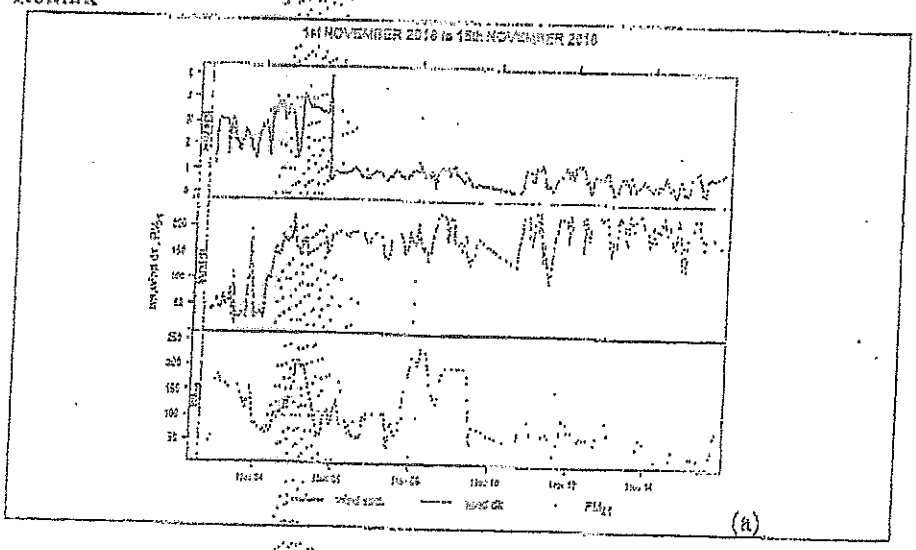


Fig. 3.11: Time Series of $PM_{2.5}$ (a) and Wind rose diagram (b) of meteorological parameters

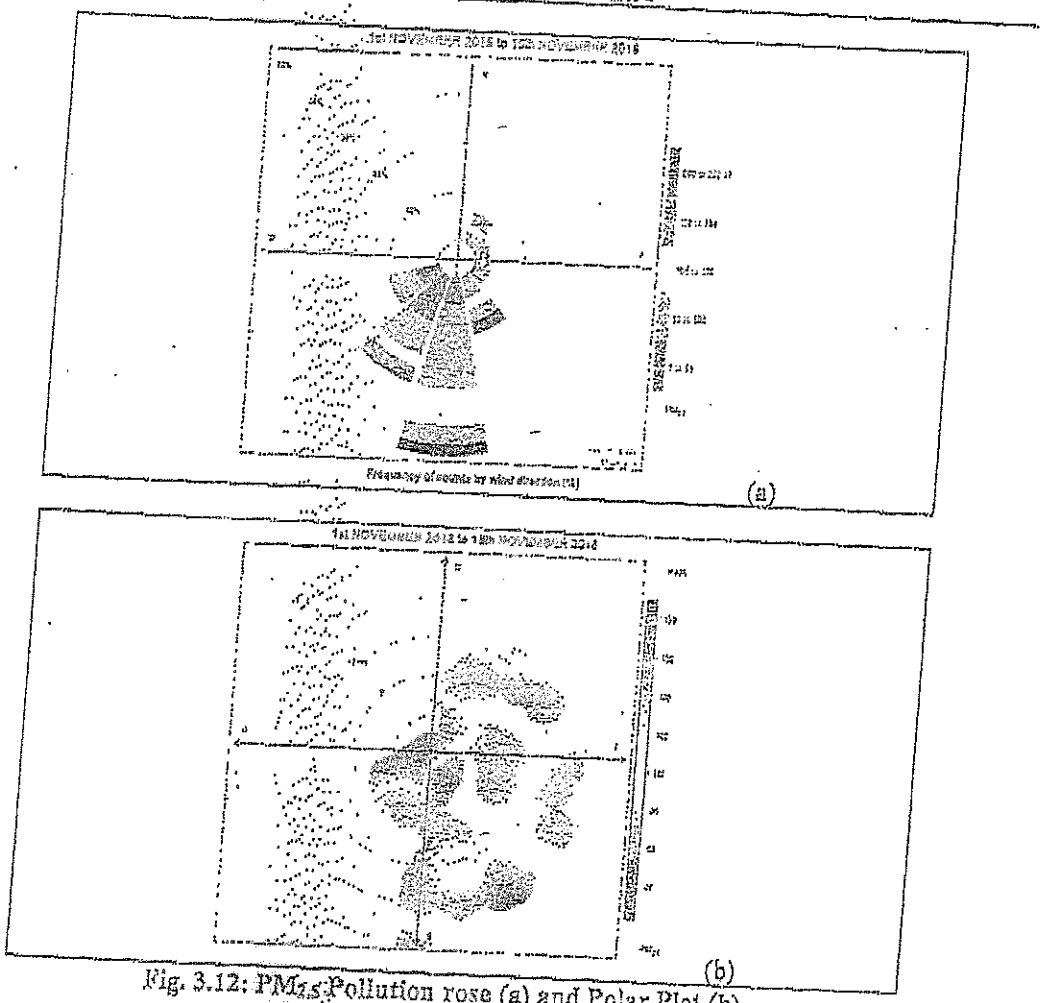


Fig. 3.12: $PM_{2.5}$ Pollution rose (a) and Polar Plot (b)

For Rohtak, Average wind speed of 3m/s can be seen from the 2nd to 5th Nov with high $PM_{2.5}$ concentrations with dominant wind direction being (blowing from) south east for the period. For the rest of the days from 5th to 15th November very low $PM_{2.5}$ concentrations have been measured with winds majorly blowing from the south west direction. No wind direction is observed to lie in fourth quadrant i.e. upwind of Delhi.

vii. Gurugram

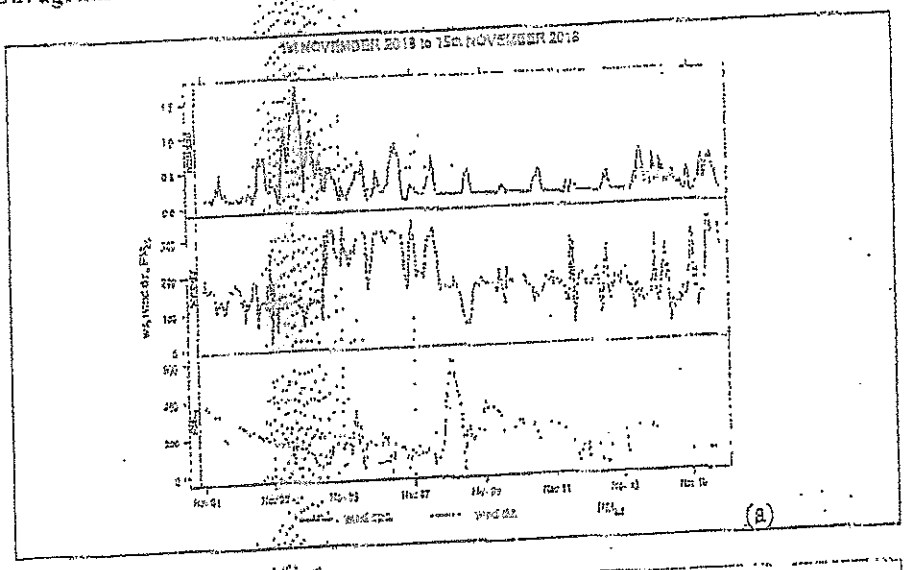


Fig. 3.13: Time Series of $PM_{2.5}$ (a) and Wind rose diagram (b) of meteorological parameters

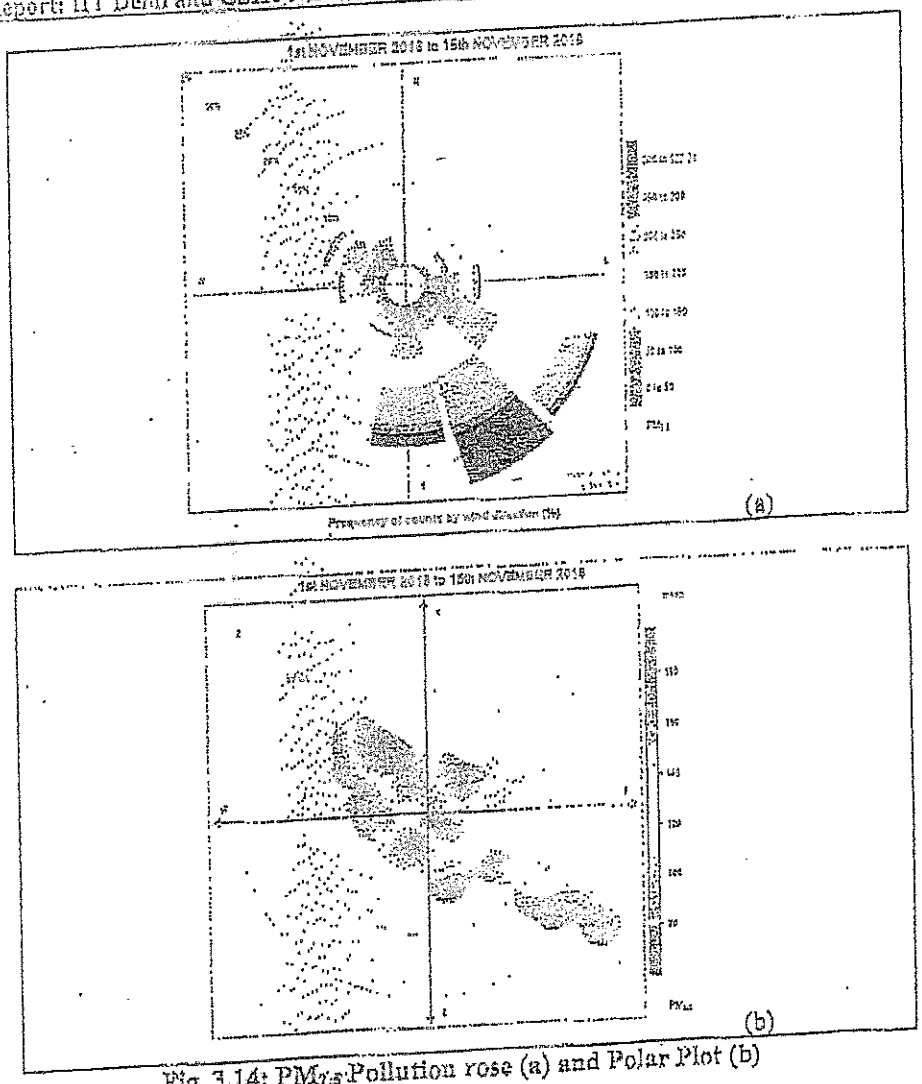


Fig. 3.14: $PM_{2.5}$ Pollution rose (a) and Polar Plot (b)

Gurugram observed a peak in the $PM_{2.5}$ concentrations on the 8th of November with winds blowing from south east direction at average wind speed of 0.25m/s. For most of the time the winds were observed to be blowing from the south east direction with average wind speed being ~0.5m/s. The wind speeds being very low suggest that no movement of $PM_{2.5}$ should take place over from Gurugram to Delhi.

The following inferences can be made from the above table and the pollution rose, wind rose, time series and the polar plots:

1. The wind speeds at every station in Delhi are very low during the events when the wind direction was observed to be blowing in a direction coming from Haryana.
2. It can be concluded that for such low wind speeds the source of $PM_{2.5}$ for stations in Delhi can be local.
3. During peak concentrations, i.e. from 10th to 13th of November, the wind direction observed at Panchkula suggest that winds are blowing away from Delhi, and the wind speeds recorded for the same time period are very low which suggest that there was very low or no transport.
4. In Rohtak, the wind directions observed were never found to be favourable for transport of $PM_{2.5}$ over to Delhi. Thus, there are little or no chances of contribution of $PM_{2.5}$ over from the Rohtak region of Haryana to Delhi.
5. In Gurugram, peak concentrations on 10th and 13th of November when the wind direction indicated possible transport might have taken place from Gurugram region to Delhi, was associated with low wind speeds. Moreover, there is no stubble burning activities in the Gurugram district.
6. These observations suggest that the transport of $PM_{2.5}$ from Haryana to Delhi must be taking place due to long range transport in the form of secondary particulates at upper air.

Thus, overall there are very less chances of transport of $PM_{2.5}$ from Haryana to Delhi and further analysis using advance models such as CALPUFF and WRF-Chem are needed to substantiate these preliminary findings.

4 Chemical Transport modelling

4.1 Source oriented CMAQ modelling

The Community Multi-scale Air Quality Model (CMAQ) version 5.0.2 was used in this study with SAPRC-11 photochemical mechanism and AERO6 aerosol chemistry. Changes made to better predict the secondary organic and inorganic components of $PM_{2.5}$ are only briefly summarized here: (i) heterogeneous chemistry pathways to estimate the formation of sulfate and nitrate from SO_2 and NO_2 in the gas phase, (ii) more detailed treatment of isoprene oxidation chemistry, (iii) SOA yields were corrected for vapor wall-loss, and (iv) improvement in predicting secondary organic aerosol (SOA) by adding surface controlled reactive uptake of dicarbonyls, isoprene epoxydiol and methacrylic acid epoxide. There were 18 layers in the model with surface layer thickness of 35 m and the overall model height of 20 km. Annual anthropogenic emissions of CO, NOx, SO_2, ammonia, non-methane volatile organic compounds (VOCs), $PM_{2.5}$, PM_{10}, elemental carbon (EC) and organic carbon (OC) were generated from EDGAR, version 4.3 (http://edgar.jrc.ec.europa.eu/terms_of_use.php).

Source contributions of PPM and its chemical components were estimated using tagged non-reactive PPM tracers. The tracers are set to 0.001% of primary emissions from each source sector and go through all atmospheric processes same as other species. This small ratio does not significantly change particle size and mass. Then the PPM concentrations from a given source is calculated by scaling the simulated tracer concentrations from that source by 10^5, and source profiles are used to estimate PPM components concentrations using

$$C_{ij} = PPM_i \times A_{ij}$$

where C_{ij} is component j concentration from source i, PPM_i is the concentration of total PPM from source i, and A_{ij} is the ratio of j component in PPM mass from source i.

The source contributions to SIA were determined by tracking SO_2, NOx, and NH_3 through atmospheric processing using tagged reactive tracers. Both the photochemical mechanism and aerosol module were expanded so that SO_4, NO_3, and NH_4 and their precursors from different sources are tracked separately throughout the model calculations. Reactions R1, R2, and R3 show how the nitrate formation is tracked from NO_2 reaction with hydroxyl radical (OH) in original CMAQ to source-oriented version as shown below:

$$NO_2 + OH \rightarrow HNO_3(g) \leftrightarrow NO_3^-$$

$$NO_2_X1 + OH \rightarrow HNO_3_X1(g) \leftrightarrow NO_3^-_X1$$

$$NO_2_X2 + OH \rightarrow HNO_3_X2(g) \leftrightarrow NO_3^-_X2$$

In the source-oriented CMAQ, NO_2 is expanded to two species NO_2_X1 and NO_2_X2, representing the emissions from two sources. $NO_3^-_X1$ and $NO_3^-_X2$ represent the contributions of NO_2 from sources 1 and 2 to nitrate. Similar treatment is applied for all SIA precursors and related gas and aerosol processes.

Emissions from Haryana and fire emissions source was tracked simultaneously. The tracers are set to 0.001% of primary emissions from each source sector and go through all atmospheric processes same as other species. This small ratio does not significantly change particle size and mass.

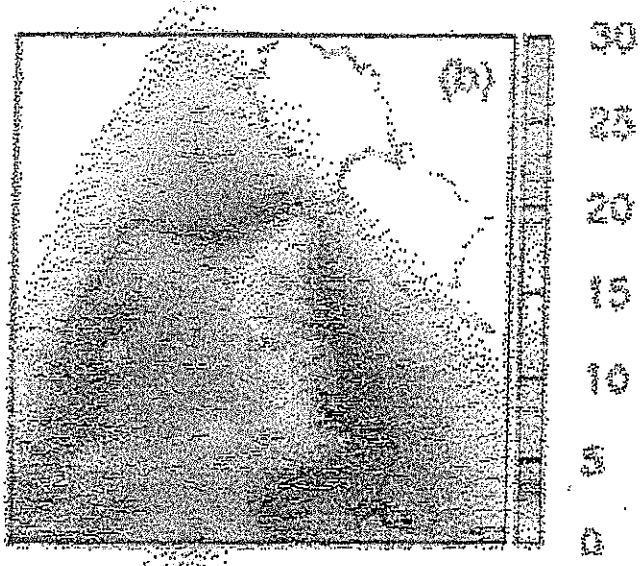


Figure 4.1 Yearly averaged Contribution of Haryana Emissions to PM2.5 in north India

Contribution of Stubble burning emissions during post-monsoon in Haryana to Delhi

Source oriented analysis revealed that the contribution of stubble burning emissions as per emissions generated from the Fire Inventory from National Center for Atmospheric Research (FINN), which are based on satellite observations can go as high as 15-17% in morning hours.

4.2 WRF-Chem results

WRF-Chem is the Weather Research and Forecasting (WRF) model coupled with Chemistry. The model simulates the emission, transport, mixing, and chemical transformation of trace gases and aerosols simultaneously with the meteorology. The model is used for investigation of regional-scale air quality, field program analysis, and cloud-scale interactions between clouds and chemistry. The following results were obtained from the simulations done in WRF Chem. Two sets of simulations was carried out, one with fire emissions another without stubble burning emissions. The below spatial concentrations plots are for hours with maximum or minimum concentrations during the stubble burning episodes in north India during postmonsoon seasons.

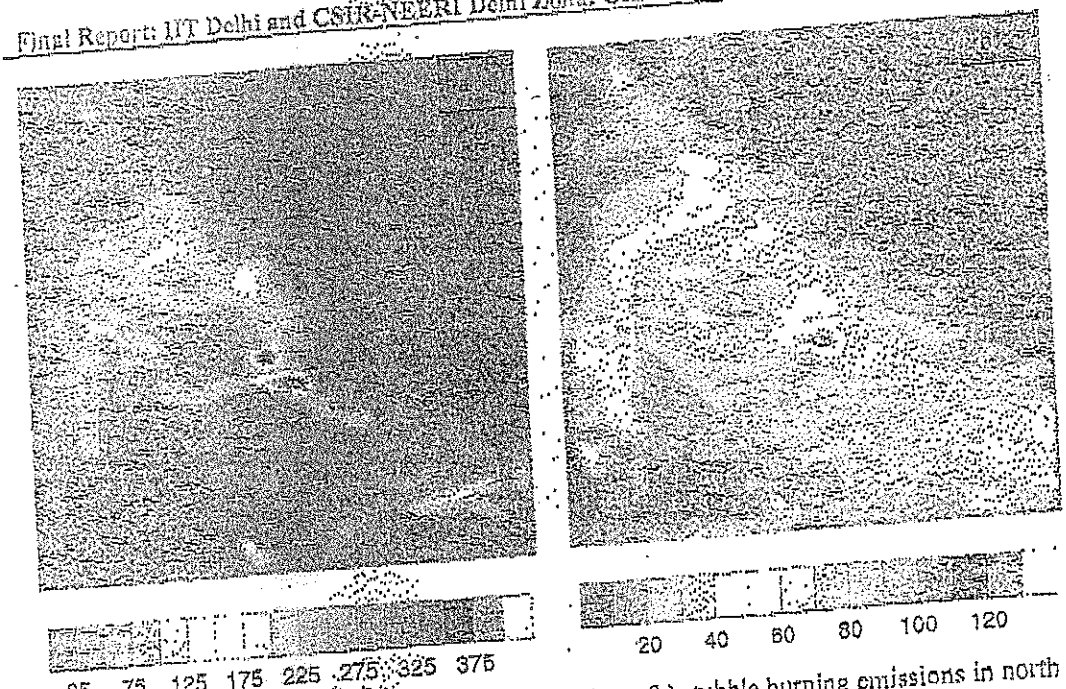


Figure 4.2 $PM_{2.5}$ concentrations with (a) and without (b) stubble burning emissions in north India. An hour with maximum concentrations is shown.

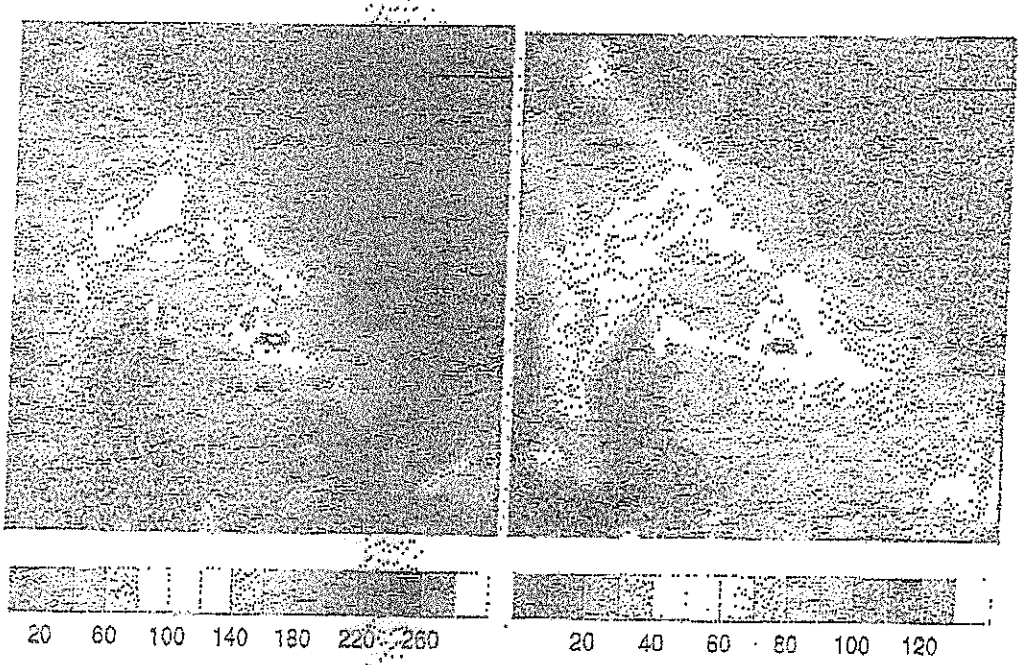


Figure 4.3 $PM_{2.5}$ concentrations with (a) and without (b) stubble burning emissions in north India. An hour with maximum concentrations is shown.

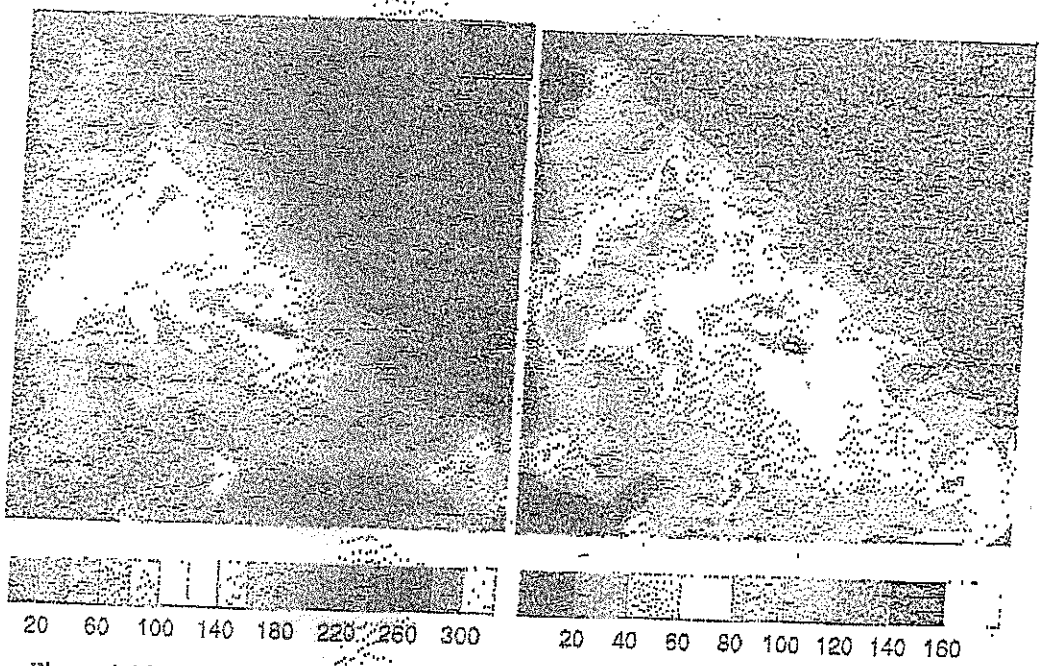


Figure 4.4 $PM_{2.5}$ concentrations with (a) and without (b) stubble burning emissions in north India. An hour with maximum concentrations is shown.

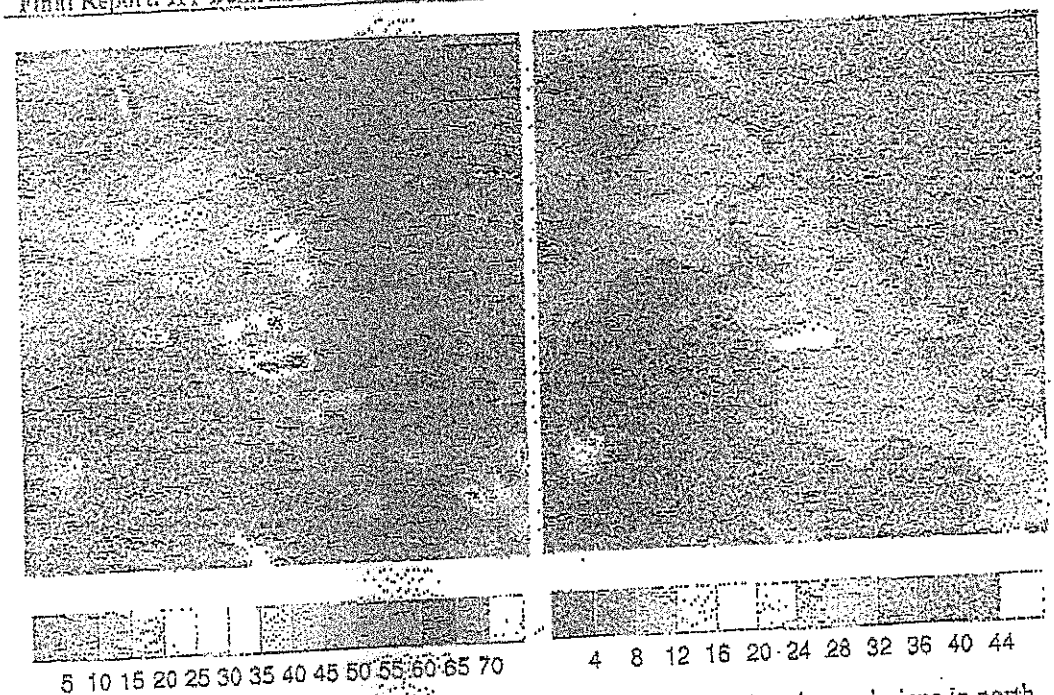


Figure 4.5 $PM_{2.5}$ concentrations with (a) and without (b) stubble burning emissions in north India. An hour with minimum concentrations is shown.

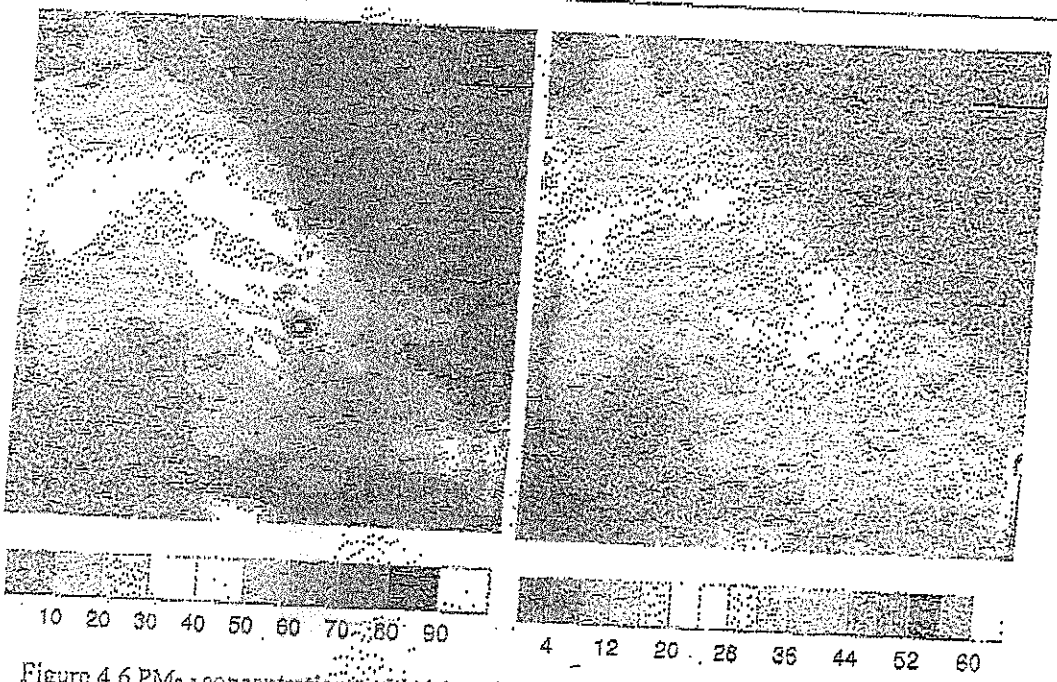


Figure 4.6 $PM_{2.5}$ concentrations with (a) and without (b) stubble burning emissions in north India. An hour with minimum concentrations is shown.

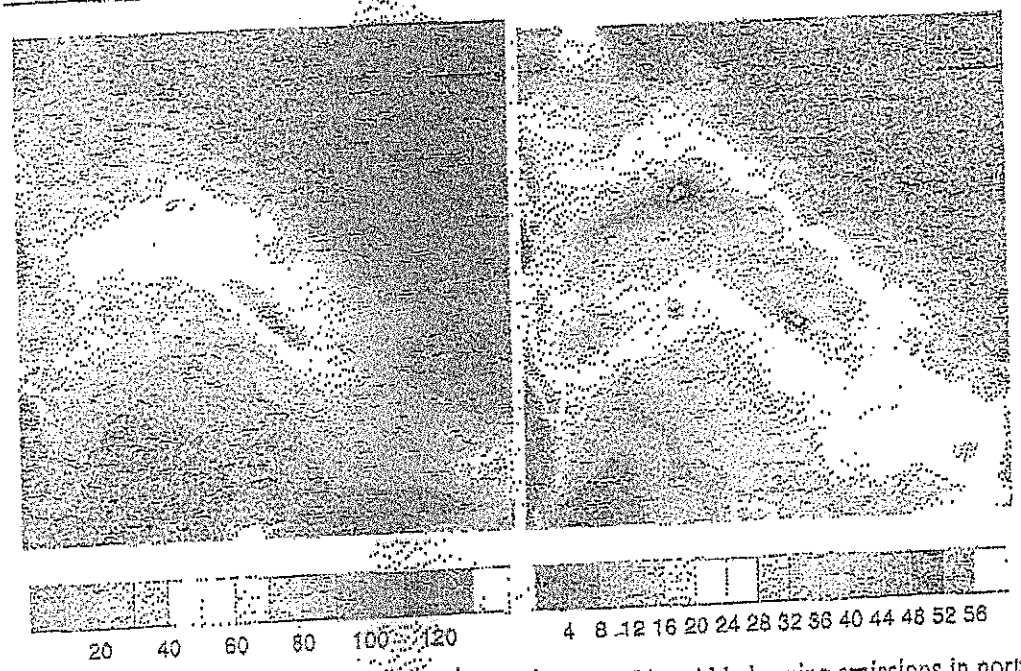


Figure 4.7 $PM_{2.5}$ concentrations with (a) and without (b) stubble burning emissions in north India. An hour with maximum concentrations is shown.

Further analysis was carried out to understand the contributions from stubble burning emissions in Haryana to $PM_{2.5}$ in Delhi. Tables 1 and 2 show the contributions ($\mu g/m^3$) from Haryana stubble burning emissions on hours with maximum and minimum $PM_{2.5}$ concentrations, respectively.

Table 4.1 $PM_{2.5}$ concentration in Delhi and its contribution from stubble burning in Haryana. Note: Only top three hours which had maximum contribution from Haryana are selected.

Concentration in Delhi ($\mu g/m^3$)	Contribution from Haryana ($\mu g/m^3$)
382.03	61.52
316.22	45.57
328.26	36.29

Table 4.2 $PM_{2.5}$ concentration in Delhi and its contribution from stubble burning in Haryana, Note: Only bottom three hours which had minimum contribution from Haryana are selected.

$PM_{2.5}$ Concentration in Delhi ($\mu g/m^3$)	Contribution from Haryana ($\mu g/m^3$)
50.09	7.55
35.55	4.73
41.39	3.35

Major Conclusions:

The following inferences can be made from the above table and the pollution rose, wind rose, time series and the polar plots:

- Significant contributions from stubble burning emissions in north India is observed from this study, which uses NCAR's fire emissions as input to estimate stubble.
- Both models show that the maximum contributions from stubble burning emissions could be in the range of 15-17%.
- Overall, if the estimations from NCAR's burning emissions are precise, then the contributions of stubble burning to $PM_{2.5}$ in Haryana are in the range of 8-17%.

File No. HSPCB-100003/7/2020-Air-Cell-HSPCB (Computer No. 50937)

Note No. #1

47_AIR CELL__SINGLE FILE REGARDING STABBLE BURNING IN HRY-N.pdf

23/11/2020 10:33 AM

MONIKA RAWAT
(CLERK-1 AIR CELL)

Note No. #2
submitted for further necessary action please.

06/01/2021 4:04 PM

MONIKA RAWAT
(CLERK-SSC-ONE)

Note No. #3

- as desired the file is submitted for further necessary action please.

06/01/2021 4:06 PM

SANJAY KUMAR
(ASSISTANT 1)

Note No. #4
The final report has been recived from IIT delhi regarding their study on the "Quantification and contribution of peddy stubble burning emissions in Haryana to PM2.5 concentrations in its surrounding cities and Delhi" which is placed at CP-356-383. The major conclusions as per the study(CP-383) are as follows:-

Major Conclusions:
The following inferences can be made from the above table and the pollution rose, wind rose, time series and the polar plots:

- Significant contributions from stubble burning emissions in north India is observed from this study, which uses NCAR's fire emissions as input to estimate stubble.
- Both models show that the maximum contributions from stubble burning emissions could be in the range of 15-17%.
- Overall, if the estimations from NCAR's burning emissions are precise, then the contributions of stubble burning to PM2.5 in Haryana are in the range of 8-17%.

The study/report may be sent to all ROs, DCs, Agriculture department and other stakeholder departments for further necessary action and to submit action taken report on the same please.

07/01/2021 11:00 AM

NIPUN GUPTA
(ASSISTANT ENVIRONMENTAL ENGINEER SCIENTIFIC SERVICE CELL)

AGENDA ITEM NO. 191.11

REGARDING HIRING OF OFFICE BUILDING FOR SUB REGIONAL HEAD QUARTER, HSPCB

Scanned with CamScanner

191/11

Agenda Item No. 191.11 **Regarding hiring of office building for Sub Regional Head Quarter, HSPCB.**

The proposal for strengthening of the HSPCB was approved by the Govt. and sanction for creation of Sub Regional Head Quarters of the Board at Gurugram, with the following posts, was communicated vide Memo. No. 2/24/2019-1 Env dated 04.10.2019:

Sr No	Designation	Number of Posts
1	Chief Scientific Officer	01
2	Senior Scientist	02
3	Senior Environmental Engineer	01
4	Scientist C	03
5	Scientist B	03
6	Assistant	02
7	Clerk	02
8	Peon	04

The Board vide agenda Item No. 184.18 (S) has approved that the Chairman & Member Secretary, HSPCB would officiate from the Sub Regional Headquarter when in Station.

For establishment of the Sub Regional Head Quarter at Gurugram, a suitable building is required to be hired and for this purpose a Committee, consisting of the following officers, was constituted:

1. Regional Officer, HSPCB, Gurugram (North)
2. Regional Officer, HSPCB, Gurugram (South)
3. Laboratory In-charge, Gurugram.

The Committee, vide letter dated 29.12.2021, sent its recommendations, according to which approx 4941 sq. feet area is required to be hired for the Sub Regional Headquarters. One vacant floor of the Office complex of Housing Board, Haryana, located at MG Road, Gurugram, was recommended to be hired @ Rs 35/- per sq.ft for the purpose.

The matter is placed before the Board of Directors for consideration and approval for hiring the premises, as recommended by the Committee, please.

AGENDA ITEM NO. 191.12

TO APPROVE/ADOPT THE AUDITED BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT OF THE BOARD FOR THE FINANCIAL YEAR 2017-18

Scanned with CamScanner

AGENDA ITEM No. 191.12

To approve/adopt the Audited Balance Sheet and Income and Expenditure Account of the Board for the Financial Year 2017-18.

The Governor of Haryana, in Consultation with the Comptroller and Auditor General of India has appointed M/s Brij Gupta & Co. Chartered Accountant, Panchkula as Statutory Auditor under section 40(3) of the water(Prevention and Control of Pollution) Act,1974 for auditing the accounts of the Haryana State Pollution Control Board, Panchkula for the F.Y 2017-2021.

The accounts for the F.Y 2016-17 have already been audited by the statutory auditor and sent to the Government. Now M/s Brij Gupta & Co. Chartered Accountant, Panchkula has audited the Accounts of the Board for the F.Y 2017-18. The copy of the auditor's report **Annexure-A**, audited Balance Sheet, Income and Expenditure Account for the F.Y 2017-18 **Annexure-B** and reply of auditor's report at **Annexure-C** is enclosed for consideration, approval and authentication.

After the approval and authentication of the Board, the Financial statement will be sent to state Government as required under section 40(7) of the water (Prevention and Control of Pollution) Act, 1974.

The Audited Balance Sheet, Income & Expenditure Account for the F.Y 2017-18 is placed before the Board of Directors for consideration and approval.

CML

Annexure - A

12/2

BRIJ GUPTA & CO.

Chartered Accountants
H. No.: 729-A (Basement), Near HUDA Offices, Sector-8, Panchkula – 134109 (Haryana).
Ph.: 0172-4654660, e-mail: bmg729@yahoo.com

INDEPENDENT AUDITOR'S REPORT

We have audited the accompanying financial statements of "Haryana State Pollution Control Board" Panchkula (the 'Board') which comprise the Balance Sheet as at 31st March2018 and Statement of Income and Expenditure for the Year ended 31st March 2018.

Management's Responsibility for the Financial Statement

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position and financial performance of the Board. This responsibility includes design, implementation and maintenance of internal control relevant to the preparation of the financial statements that give a true and faire view and are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that we comply with ethical requirements, plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risks assessments the auditor considers internal control relevant to the Board's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting polices used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.
We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

On the basis of such checks of the books of accounts and records as we considered appropriate and the information and explanations given to us during the course of the audit, we enclose our observations as per **Annexure-I** of our audit report.

Contd.2

BRIJ GUPTA & CO. PANCHKULA FRN-003970N CHARTERED ACCOUNTANTS

12/3

Opinion

In our opinion and to the best of our Information and according to the explanations given to us, subject of the observations as per Annexure-I, the financial statements give the information in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India:

a) In the case of the Balance Sheet, of the state of affairs of the Board as at 31st March, 2018.
b) In the case of the Statement of Income and Expenditure, of the Excess of Income over Expenditure for the Year ended 31st March, 2018.

We further report that:

a) We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit;
b) In our opinion proper books of account as required by law have kept been by the Board so far as appears from our examination of those books.
c) The Balance Sheet and Statement of Income and Expenditure, dealt with by this report are in agreement with the books of account..

For **BRIJ GUPTA & CO.**
Chartered Accountants
(FRN: 003070N)

(CA. B M GUPTA)
Partner
M.No.081962

UDIN: 22081962AENFVL6729

Place: Panchkula
Dated: 10th March 2022

BRIJ GUPTA & CO. PANCHKULA FRN-003070N CHARTERED ACCOUNTANTS

ANNEXURE-I TO AUIDTOR'S REPORT

Referred to in our report of even date on the accounts of "Haryana State Pollution Control Board" Panchkula for the year ended 31st March, 2018:

1. **Water (Prevention and Control of Pollution) Act,1974 and the Air(Prevention and Control of Pollution) Act,1981 regarding Annual Report:-**

   As per clause 35 sub-clause 2 of "The Air (Prevention and Control of Pollution) Act, 1981. 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 copies thereof shall be forwarded to the State Government within four months from the last date of the previous financial year and that government shall cause every such report to be laid before the State Legislature within a period of nine months from the last date of the previous financial year.

   As per clause 39 sub-clause 2 of 'Water (Prevention and control of Pollution) Act, 1974'

   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 copies thereof shall be forwarded to the State Government within four months from the last date of the previous financial year and that government shall cause every such report to be laid before the State Legislature within a period of nine months from the last date of previous financial year.

   As informed the Board has not compiled with the above mentioned time schedule for furnishing the Annual Returns of its accounts due to delay in getting the accounts finalized and audited.

2. **Loss incurred due to surplus funds not invested in FDR with banks:** The Board incurred a loss of Rs.33.64 Lakhs as it kept surplus funds in saving accounts instead of FDR with various banks as per detail here under

Name of Bank	Amount (Rs.)	Period (Days)	Diff. in FDR & SB rate	Interest Loss(Rs.)
Andhra Bank (3843)	61,57,289	365	2.75%	1,69,325
PNB (4180)	45,000	365	2.75%	1,237
PNB(5744)	26,76,735	365	2.75%	73,610
PNB(7912)	20,00,00,000	61	2.75%	9,19,178
PNB(7912)	10,00,00,000	21	2.75%	1,58,219
PNB(7912)	15,00,00,000	44	2.75%	4,97,260
PNB(7912)	10,00,00,000	19	2.75%	1,43,150
PNB(7912)	5,00,00,000	19	2.75%	71,575
PNB(7912)	5,00,00,000	16	2.75%	60,274

Contd.2

RNJ GUPTA & CO. PANCHKULA FRN-000870N CHARTERED ACCOUNTANTS

PNB(7912)	10,00,00,000	79	2.75%	5,95,205
IndusInd Bank	28,00,00,000	32	2.75%	6,75,068
Total				33,64,101

3. **Loss due to wrong claim of TDS in Income Tax Return:**

The Board has short claimed TDS amount of Rs.3,72,540/- as per detail hereunder

TDS to be claimed as per Form 26AS	Rs.1,92,05,961/-
TDS claimed as per Income Tax Return	Rs. 1,88,33,421/-
Short Claim as per Income Tax return	Rs. 3,72,540/-

Due to this, the Board has suffered a loss of Rs. 3,72,540/-.

4. **Unrecoverable TDS on Interest Income**

a) TDS for the F.Y 2010-11 to F.Y 2015-16 are shown as Loans and Advances. The sum total of these amounts is Rs.1,02,82,084/- which are shown as assets but are not recoverable and thus a loss to the Board.

5. **Defaults in filing of TDS Returns.**

As per Traces, a default of Rs. 33,680/- persists upto 31/03/2018 in filing TDS Returns upto 31/03/2018.

6. **Bank Reconciliation Statements:**

i) PNB Sec-6, PKL (A/c No. 7912)
Board has issued cheques amounting to Rs.39,76,122/- during the period 10/02/2016 to 27/12/2017 which have not been presented to the bank and have become stale. Similarly Board has received credits amounting to Rs.15,72,600/- in the bank which have not been identified and accounted for in its books of account.

ii) PNB (A/c 20327915)
Bank reconciliation statement was not made available for our verification. The difference in the amount as per cash book and as per Bank is Rs. 47,698/-. In the absence of reconciliation details we are unable to comment upon it.

iii) PNB (A/c 41180)
Bank reconciliation statement was not made available for our verification. The difference in the amount as per cash book and as per Bank is Rs. 45000/-. In the absence of reconciliation details we are unable to comment upon it.

Contd.3

NIRU GUPTA & CO. PANCHKULA FRN-003070N CHARTERED ACCOUNTANTS

12/6

iv) UBI (A/c 18039)
Bank reconciliation statement was not made available for our verification. The difference in the amount as per cash book and as per bank is Rs. 10,000/-. In the absence of reconciliation details we are unable to comment upon it.

v) The Banks for which reconciliation were provided to us, the statements do not mention the dates on which the entry appearing in the BRS has been cleared or reversed in future.

vi) Outstanding entries (cheque issued but not presented and cheque deposited but not credited by the bank) have not been reversed. In case, certain cheques deposited which were not credited may become irrecoverable as the particulars of the issuer of the cheque are not available and it is not known from whom this amount is recoverable and loss to the Board on account of non-recovery of these amounts can not be ascertained. We advise that sincere efforts be made to recover the amounts for which cheques has been deposited but which have not been cleared by the banks as it directly affects the income of the Board.

vii) Andhra Bank (A/c 283)

The Board has kept an amount of Rs. 64,07,272/- in this saving account and no transaction has been made during the year. The purpose of keeping the account is not known.

7. **In Respect of Fee charged for Various Consents :**

Air Consent Fee, Water Consent Fee, NOC Fee, Noise Fee, BMW Fee, Recognition Fee, Public Hearing Fee and Appeal Fee which have been received are duly accounted for but the amounts which were recoverable under the above heads but have not been recovered needs to be quantified and steps taken to recover the same. Copies of the bills raised for these Fee should be numbered and sent to the Head Office for full control and reconciliation to determine the unrecovered amount.

8. **In Respect of Fee charged for Lab Sample Testing :**

Year wise detail of fee collection and reports issued by the Board on account of various tests was not available. In absence of any record, we are unable to quantify the amounts which have been claimed but not recovered.
Any such fee remaining recoverable as on 31.03.2018 due to dishonour of cheques or otherwise is also not ascertainable.

Contd.4

SIRAJ GUPTA & CO. PANCHKULA CHARTERED ACCOUNTANTS

12/7

9. **Advance against Purchases**

The Board had released advances to the following suppliers during the previous year which have not been adjusted in the current year.

Name of Supplier	Amount (Rs.)
Controller Printing and Stationery Department	1,36,710/-
Hartron	13,98,266/-
Sigma Aldrich Chemical	6,872/-
HAREDA	40,78,000/-
Mahindra and Mahindra	6/-
CPR Environmental Education Central Chennai	40,500/-
NIC (National Informatics Centre)	36,27,683/-
Reliance Broadcast Network Limited	73,034/-
Haryana Tourism	5,00,000/-

10. **Advances to RO's**

The Board had released advances of Rs. 62,84,652/- as on 31/03/2017 out of which Rs.61,01,372/- have not been adjusted throughout the year. Further, during the year fresh advances have been released to Regional offices at Dharuhera, Faridabad, Gurgaon South, Jind, Panchkula, Sonipat and Yamuna Nagar without asking for utilisation of opening balances

11. **Confirmation of Balances:**

Balance confirmations from suppliers and regional offices were not obtained. The amount of un reconciled items that may emerge after the confirmations and reconciliation of accounts cannot be determined and the consequential impact on financial statements remain unascertained. All debit and credit balances including advances are as per book balances. No confirmations for these balances have been obtained.

12. **Tax Deduction at Source by Banks on Interest on FDRs:**

The Board has not obtained certificate for the amount of interest earned and TDS deducted during the year from various banks with whom it is keeping accounts in fixed deposits. In absence of confirmation of TDS from the Banks, it is difficult to verify that all the TDS deducted from Interest on FDRs have been duly accounted for in the Board's accounts and same has been duly reflected in Form 26AS. In case, certain TDS was deducted from the interest on FDRs but was unconfirmed by Banks and was inadvertently not reflected in 26AS which may lead to loss to the Board due to omission of this claim in Income Tax Return.

Therefore, the Board is advised to take necessary steps to claim the Actual Tax deducted during the year and also follow up with the banks that

Contd.5

BRIJ GUPTA & CO. PANCHKULA FRN 018170N CHARTERED ACCOUNTANTS

whatsoever TDS has been deducted by them gets reflected in 26 AS. It may be ensured that PAN of the Board is updated in the records of each and every bank.

13. **Filing of Income Tax Returns:**

a) F.Y 2017-18

Interest on FDRs as per Income and Expenditure Account Rs. 25,34,91,443/-

Interest on FDRs as per Income Tax Return- Rs. 21,11,72,376/-

TDS as per Form-26AS- Rs. 1,92,05,961/-

TDS as per Income Tax Return- Rs. 188,33,421/-

The differences in the Interest on FDRs as per Income and Expenditure Account and as per Income Tax Return along with differences in TDS claimed under Income Tax Return and TDS as per Form-26AS have not been explained.

b) All the Income Tax returns have been filed on the basis of Provisional Financial Statements which do not tally with the Financial Statements. In the Income Tax Return filed for the year, tax has been calculated on Gross income of Rs. 37,37,67,570/- whereas as per Audited Financial Statement, income for the year before provision of Income Tax is Rs. 43,50,78,206/-.

c) On going through the copy of Assessment Order for AY 2018-19 (FY2017-18) it has been observed that a return with a total income of Rs.22,21,99,962/- was filed. Rs 2,69,562/- was the Interest paid for the Assessment year 2018-19 (FY2017-18) U/S 234. **Thus the Board paid undue amount of interest inspite of no shortage of funds with the Board.**

d) Provision for Income Tax amounting to Rs7,90,06,224 /- for the FY 2017-18 has been made in the books of account and accordingly reflected in the financial statements, which was not provided in the Provisional Balance Sheet.

14. **Fixed Assets:**

The WDV of fixed assets of the Board is worth Rs.12,94,88,342/- as on 31st March, 2018. During the F.Y 2017-18, total net additions of Rs.14,42,308/- were made.

Fixed Assets register showing the quantitative details of various assets was not made available to us for verification. Further as explained to us, no physical verification of fixed assets was carried out during the F.Y2017-18.

15. **Inventories of Lab Materials:**

The Board purchased Lab material amounting to Rs.2,75,530/-.Stock registers for lab materials were not shown to us. Hence we cannot comment

Contd.6

BRIJ GUPTA & CO. PANCHKULA CHARTERED ACCOUNTANTS

12/9

as to whether proper entries of receipt and issues of stock are maintained or not. The periodic physical verifications of the stocks have not been conducted by the Board during 2017-18. The quantity of the stock lying with the concerned departments as at the close of year cannot be determined.

Thus we are not able to figure out the value of unconsumed closing stocks of lab materials as on 31st March, 2018. The inventories in hand as at the end of the year are also not available and the entire purchases during the year are booked as expenses and that too on cash basis.

16. **Mixed System of Accounting**

The Board is following mixed system of accounting as certain Income and Expenses are recognized on cash basis whereas others are recognised on accrual basis. It is observed that bills/claims for various expenses are submitted/approved/settled/paid and recorded on Payment basis irrespective of the period they pertain to and in many cases after a long gap from the date they were incurred. In our opinion the Board should follow Mercantile/Accrual system of accounting so that expenditure incurred and income accrued in a year is accounted for in the same year.

17. **Internal Audit and Internal Control**

The Board is not having any system of internal audit of its accounts, neither by Internal Auditor nor by External Auditor. Further based on our enquiries, In respect of some aspects no proper system of internal control procedure was apparently in place. Bank Reconciliation does not identify cheques issued which have been dishonoured but not reversed. Cheques dishonoured may not be renewed in absence of internal audit procedures. The absence of record, reconciliation and claims of TDS may lead to loss to the Board. The entries for Income as per the Income Tax Return, Income Tax Paid, TDS claimed and interest paid on late deposit of taxes were not made from year to year.

18. **Grants in Aid:**

The Board receives 80% of the cess fee receipts during the year as Grant in Aid from Govt. of India. During the year, the Board received Rs. 2,85,12,631/- as cess fee and Board's Share should be Rs. 2,28,10,104/-. However, in the Income and Expenditure Account for the year, the Grant in Aid has been taken as Rs. 2,29,63,360/-. Thus the account is not reconciled.

19. **Miscellaneous Receipts:**

Miscellaneous Receipts amounting to Rs. 1,38,48,503/- include all receipt the nature of which could not be identified. It includes huge amounts received through ICICI Bank (E-Gateway) and also includes securities which are refundable. Miscellaneous Receipts have been treated as Income irrespective of whether they are capital or revenue.

Contd.7

GURU GUPTA & CO. PANCHKULA FRN 003670N CHARTERED ACCOUNTANTS

12/10

20. **Dishonoured Cheques:**

We have observed during our random audit checks in respect of dishonoured cheques that the income account is reversed/debited without debiting the party from whom the cheque was received.
However in the absence of any records it is difficult to trace party wise detail regarding dishonoured cheques and to ensure that such payments have been realized in future. There is no list of cheques dishonoured which have not been reversed. In our opinion the lack of Internal Control on this issue may result in leakage of revenue.

21. **Confirmation of Liabilities:**

Apart from various other outstanding liabilities, the following amounts have also been shown in the books of accounts to be payable as on 31st March 2018:

Earnest money payable	Rs. 14,22,066/-
Security Deposit (Refundable)	Rs. 100,72,49,198/-
G.P.F Liability	Rs. 9,20,00,168/-
C.P.F Liability	Rs. 1,98,98,731/-

No party/person wise details, confirmations and reconciliation of such amounts are being maintained in the case of Earnest money payable and Security Deposits (Refundable) which may lead to wrong claims. Further no details are available in respect of securities which are required to be forfeited.

The balance as per person wise detail of G.P.F. Liability is Rs. 9,13,21,196/- and of C.P.F Liability is Rs. 1,95,20,335/-. These amounts do not match with the balances in the Books of Accounts.

22. **C.R.E.P Fund:**

The Board has liability in shape of a fund called "C.R.E.P Fund" amounting to Rs.15,20,000/- outstanding in the Balance Sheet for more than 7 years.

23. **Leave Encashment, Gratuity and Pension Fund:**

The Board has maintained various funds like Leave Encashment Fund, Gratuity Fund and Pension Fund with LIC for employee benefits, Claims paid during the year are booked as an expense and interest earned on these funds is booked as an Income. These claims are paid by LIC and reduced from respective funds. It is not certain as to who calculates these and whether individual accounts of the persons and their reconciliation is done from time to time.

Contd.8

BRIJ GUPTA & CO. PANCHKULA CHARTERED ACCOUNTANTS

12/11

24. **Amount released to Eco Clubs:**

Detail of amounts released to various Eco Clubs during the year and reimbursement obtained from Ministry of Environment, Forest and Climate change was not available for verification.

For **BRIJ GUPTA & CO.**
Chartered Accountants
(FRN: 003070N)

(CA. B M GUPTA)
Partner
M.No.081962

UDIN: 22081962AENFVL6729

Place: Panchkula
Dated: 10th March 2022

BRIJ GUPTA & CO. PANCHKULA FRN 003070N CHARTERED ACCOUNTANTS

AUDIT OBSERVATIONS FOR F.Y. 2017-18

1. **Loss incurred due to surplus funds not invested in FDR with banks:**
The Board incurred a loss of Rs.33.64 Lakhs as it kept surplus funds in saving accounts instead of FDR with various banks as per detail here under

Name of Bank	Amount (Rs.)	Period (Days)	Diff. in FDR & SB rate	Interest Loss(Rs.)
Andhra Bank (3843)	61,57,289	365	2.75%	1,69,325
PNB (4180)	45,000	365	2.75%	1,237
PNB(5744)	26,76,735	365	2.75%	73,610
PNB(7912)	20,00,00,000	61	2.75%	9,19,178
PNB(7912)	10,00,00,000	21	2.75%	1,58,219
PNB(7912)	15,00,00,000	44	2.75%	4,97,260
PNB(7912)	10,00,00,000	19	2.75%	1,43,150
PNB(7912)	5,00,00,000	19	2.75%	71,575
PNB(7912)	5,00,00,000	16	2.75%	60,274
PNB(7912)	10,00,00,000	79	2.75%	5,95,205
IndusInd Bank	28,00,00,000	32	2.75%	6,75,068
Total				33,64,101

2. **Loss due to wrong claim of TDS in Income Tax Return:**

The Board has short claimed TDS amount of Rs.3,72,540/- as per detail hereunder

TDS to be claimed as per Form 26AS	Rs.1,92,05,961/-
TDS claimed as per Income Tax Return	Rs. 1,88,33,421/-
Short Claim as per Income Tax return	Rs. 3,72,540/-

Due to this, the Board has suffered a loss of Rs. 3,72,540/-.

3. **Unrecoverable TDS on Interest Income**
a) TDS for the F.Y 2010-11 to F.Y 2015-16 are shown as Loans and Advances. The sum total of these amounts is Rs.1,02,82,084/- which are shown as assets but are not recoverable and thus a loss to the Board.

4. **Defaults in filing of TDS Returns.**

As per Traces, a default of Rs. 33,680/- persists upto 31/03/2018 in filing TDS Returns upto 31/03/2018.

5. **Depreciation**
Rates of depreciation were wrongly applied on Laboratory Equipments, Library books and Computers. After rectification and with additions in Other Office Equipments and Computers, the total depreciation during the year has increased by Rs.34,11,376/- and the income has decreased by Rs.34,11,376/-.

Contd..2

6. **Bank Reconciliation Statements:**

i) PNB Sec-6, PKL (A/c No. 7912)
Board has issued cheques amounting to Rs.39,76,122/- during the period 10/02/2016 to 27/12/2017 which have not been presented to the bank and have become stale. Similarly Board has received credits amounting to Rs.15,72,600/- in the bank which have not been identified and accounted for in its books of account.

ii) PNB (A/c 20327915)
Bank reconciliation statement was not made available for our verification. The difference in the amount as per cash book and as per bank is Rs. 47,698/-. In the absence of reconciliation details we are unable to comment upon it.

iii) PNB (A/c 41180)
Bank reconciliation statement was not made available for our verification. The difference in the amount as per cash book and as per bank is Rs. 45000/-. In the absence of reconciliation details we are unable to comment upon it.

iv) UBI (A/c 18039)
Bank reconciliation statement was not made available for our verification. The difference in the amount as per cash book and as per bank is Rs. 10,000/-. In the absence of reconciliation details we are unable to comment upon it.

v) The Banks for which reconciliation were provided to us, the statements do not mention the dates on which the entry appearing in the BRS has been cleared or reversed in future.

vi) Outstanding entries (cheque issued but not presented and cheque deposited but not credited by the bank) have not been reversed. In case, certain cheques deposited which were not credited may become irrecoverable as the particulars of the Issuer of the cheque are not available and it is not known from whom this amount is recoverable and loss to the Board on account of non-recovery of these amounts can not be ascertained. We advise that sincere efforts be made to recover the amounts for which cheques has been deposited but which have not been cleared by the banks as it directly affects the income of the Board.

vii) Andhra Bank (A/c 283)

The Board has kept an amount of Rs. 64,07,272/- in this saving account and no transaction has been made during the year. The purpose of keeping the account is not known.

Contd..3

7. **In Respect of Fee charged for Various Consents :**

Air Consent Fee, Water Consent Fee, NOC Fee, Noise Fee, BMW Fee, Recognition Fee, Public Hearing Fee and Appeal Fee which have been received are duly accounted for but the amounts which were recoverable under the above heads but have not been recovered needs to be quantified and steps taken to recover the same. Copies of the bills raised for these Fee should be numbered and sent to the Head Office for full control and reconciliation to determine the unrecovered amount.

8. **In Respect of Fee charged for Lab Sample Testing :**

Year wise detail of fee collection and reports issued by the Board on account of various tests was not available. In absence of any record, we are unable to quantify the amounts which have been claimed but not recovered.
Any such fee remaining recoverable as on 31.03.2018 due to dishonour of cheques or otherwise is also not ascertainable.

9. **Advance against Purchases**

The Board had released advances to the following suppliers during the previous year which have not been adjusted in the current year.

Name of Supplier	Amount (Rs.)
Controller Printing and Stationery Department	1,36,710/-
Hartron	13,98,266/-
Sigma Aldrich Chemical	6,872/-
HAREDA	40,78,000/-
Mahindra and Mahindra	6/-
CPR Environmental Education Central Chennai	40,500/-
NIC (National Informatics Centre)	36,27,683/-
Reliance Broadcast Network Limited	73,034/-
Haryana Tourism	5,00,000/-

10. **Advances to RO's**

The Board had released advances of Rs. 62,84,652/- as on 31/03/2017 out of which Rs.61,01,372/- have not been adjusted throughout the year. Further, during the year fresh advances have been released to Regional offices at Dharuhera, Faridabad, Gurgaon South, Jind, Panchkula, Sonipat and Yamuna Nagar without asking for utilisation of opening balances

Contd..4

11. **Confirmation of Balances:**

Balance confirmations from suppliers and regional offices were not obtained. The amount of un reconciled items that may emerge after the confirmations and reconciliation of accounts cannot be determined and the consequential impact on financial statements remain unascertained. All debit and credit balances including advances are as per book balances. No confirmations for these balances have been obtained. Balance confirmation as on 31.03.2018 was also not obtained from LIC regarding Pension fund and Leave Encashment fund.

12. **Computer Expenses:**

Computer purchases of Rs.2,12,018/- were shown as computer expenses and Income Tax Return was filed on this basis. On our pointing out, due to rectification of this error computer expenses are reduced by Rs.2,12,018/- and depreciation has increased by Rs.42,404/-. The net effect of this rectification is increase in WDV of computer by Rs.1,69,614/- and increase in net income by Rs.1,69,614/-.

Similarly, purchase of Other Office Equipments were shown as computer expenses and Income Tax Return was filed on this basis. On our pointing out, due to rectification of this error, computer expenses are reduced by Rs.3,89,901/- and depreciation has increased by Rs.58,485/

The net effect of this rectification is increase in WDV of computer by Rs.3,31,416/- and increase in net income by Rs.3,31,416/-.

13. **Tax Deduction at Source by Banks on Interest on FDRs:**

The Board has not obtained certificate for the amount of interest earned and TDS deducted during the year from various banks with whom it is keeping accounts in fixed deposits. In absence of confirmation of TDS from the Banks, it is difficult to verify that all the TDS deducted from Interest on FDRs have been duly accounted for in the Board's accounts and same has been duly reflected in Form 26AS. In case, certain TDS was deducted from the interest on FDRs but was unconfirmed by Banks and was inadvertently not reflected in 26AS which may lead to loss to the Board due to omission of this claim in Income Tax Return.

Therefore, the Board is advised to take necessary steps to claim the Actual Tax deducted during the year and also follow up with the banks that whatsoever TDS has been deducted by them gets reflected in 26 AS. It may be ensured that PAN of the Board is updated in the records of each and every bank.

Contd..5

14. **Filing of Income Tax Returns:**

a) F.Y 2017-18

Interest on FDRs as per Income and Expenditure Account Rs. 25,34,91,443/-

Interest on FDRs as per Income Tax Return- Rs. 21,11,72,376/-

TDS as per Form-26AS- Rs. 1,92,05,961/-

TDS as per Income Tax Return- Rs. 188,33,421/-

The differences in the Interest on FDRs as per Income and Expenditure Account and as per Income Tax Return along with differences in TDS claimed under Income Tax Return and TDS as per Form-26AS have not been explained.

b) All the Income Tax returns have been filed on the basis of Provisional Financial Statements which do not tally with the Financial Statements. In the Income Tax Return filed for the year, tax has been calculated on Gross income of Rs. 37,37,67,570/- whereas as per Audited Financial Statement, income for the year is Rs. 43,50,78,206/-.

c) On going through the copy of Assessment Order for AY 2018-19 (FY2017-18) it has been observed that a return with a total income of Rs.22,21,99,962/- was filed. Rs 2,69,562/- was the Interest paid for the Assessment year 2018-19 (FY2017-18) U/S 234. **Thus the Board paid undue amount of interest inspite of no shortage of funds with the Board.**

d) Provision for Income Tax amounting to Rs7,90,06,224 /- for the FY 2017-18 has been made in the books of account and accordingly reflected in the financial statements, which was not provided in the Provisional Balance Sheet.

15. **Fixed Assets:**

The WDV of fixed assets of the Board is worth Rs.12,94,88,342/- as on 31st March, 2018. During the F.Y 2017-18, total net additions of Rs.14,42,308/- were made. Fixed Assets register showing the quantitative details of various assets was not made available to us for verification. Further as explained to us, no physical verification of fixed assets was carried out during the F.Y2017-18.

16. **Inventories of Lab Materials:**

The Board purchased Lab material amounting to Rs.2,75,530/-.Stock registers for lab materials were not shown to us. Hence we cannot comment as to whether proper entries of receipt and issues of stock are maintained or not. The periodic physical verifications of the stocks have not been conducted by the Board during 2017-18. The quantity of the stock lying with the concerned departments as at the close of year cannot be determined.

Contd..6

Thus we are not able to figure out the value of unconsumed closing stocks of lab materials as on 31st March, 2018. The inventories in hand as at the end of the year are also not available and the entire purchases during the year are booked as expenses and that too on cash basis.

17. **Mixed System of Accounting**

The Board is following mixed system of accounting as certain Income and Expenses are recognized on cash basis whereas others are recognised on accrual basis. It is observed that bills/claims for various expenses are submitted/approved/settled/paid and recorded on Payment basis irrespective of the period they pertain to and in many cases after a long gap from the date they were incurred. In our opinion the Board should follow Mercantile/Accrual system of accounting so that expenditure incurred and income accrued in a year is accounted for in the same year.

18. **Internal Audit and Internal Control**

The board is not having any system of internal audit of its accounts neither by Internal Auditor nor by External Auditor. Further based on our enquiries, in respect of some aspects no proper system of internal control procedure was apparently in place. Bank Reconciliation does not identify cheques issued which have been dishonoured but not reversed. Cheques dishonoured may not be renewed in absence of internal audit procedures. The absence of record, reconciliation and claims of TDS may lead to loss to the Board. The entries for Income as per the Income Tax Return, Income Tax Paid, TDS claimed and interest paid on late deposit of taxes were not made from year to year.

19. **Grants in Aid:**

The Board receives 80% of the cess fee receipts during the year as Grant in Aid from Govt. of India. During the year, the Board received Rs. 2,85,12,631/- as cess fee and Board's Share should be Rs. 2,28,10,104/-. However, in the Income and Expenditure Account for the year, the Grant in Aid has been taken as Rs. 2,29,63,360/-. Thus the account is not reconciled.

20. **Miscellaneous Receipts:**

Miscellaneous Receipts amounting to Rs. 1,38,48,503/- include all receipt the nature of which could not be identified. It includes huge amounts received through ICICI Bank (E-Gateway) and also includes securities which are refundable. Miscellaneous Receipts have been treated as Income irrespective of whether they are capital or revenue.

Contd..7

21. **Dishonoured Cheques:**

We have observed during our random audit checks in respect of dishonoured cheques that the income account is reversed/debited without debiting the party from whom the cheque was received.
However in the absence of any records it is difficult to trace party wise detail regarding dishonoured cheques and to ensure that such payments have been realized in future. There is no list of cheques dishonoured which have not been reversed. In our opinion the lack of Internal Control on this issue may result in leakage of revenue.

22. **Confirmation of Liabilities:**

Apart from various other outstanding liabilities, the following amounts have also been shown in the books of accounts to be payable as on 31st March 2018:

Earnest money payable	Rs. 14,22,066/-
Security Deposit (Refundable)	Rs. 100,72,49,198/-
G.P.F Liability	Rs. 9,20,00,168/-
C.P.F Liability	Rs. 1,98,98,731/-

No party/person wise details, confirmations and reconciliation of such amounts are being maintained in the case of Earnest money payable and Security Deposits (Refundable) which may lead to wrong claims. Further no details are available in respect of securities which are required to be forfeited.

The balance as per person wise detail of G.P.F. Liability is Rs. 9,13,21,196/- and of C.P.F Liability is Rs. 1,95,20,335/-. These amounts do not match with the balances in the Books of Accounts.

23. **C.R.E.P Fund:**

The Board has a liability in a shape of a fund called "C.R.E.P Fund" amounting to Rs.15,20,000/- outstanding in the Balance Sheet for more than 7 years.

24. **Leave Encashment, Gratuity and Pension Fund:**

The Board has maintained various funds like Leave Encashment Fund, Gratuity Fund and Pension Fund with LIC for employee benefits, Claims paid during the year are booked as an expense and interest earned on these funds is booked as an Income. These claims are paid by the LIC and reduced from respective funds. It is not certain as to who calculates these and whether Individual accounts of the persons and their reconciliation is done from time to time. It is not clear whether any Annuity is purchased by the LIC or not as is required by Master Policy as agreement with LIC was not available for our verification. In absence of calculation of Interest paid by LIC, its accuracy cannot be verified.

Contd..8

25. **Security Deposits (Refundable)- Rs. 100,72,49,198**

Under this head, an amount of Rs. 194,96,491/- was wrongly credited during the year as the amount was already considered in the year 2016-17. After correction during the course of audit, the income for the year has increased by Rs. 194,96,491/- and liability has decreased by Rs. 194,96,491/-.

26. **Amount released to Eco Clubs:**

Detail of amounts released to various Eco Clubs during the year and reimbursement obtained from Ministry of Environment, Forest and Climate change was not available for verification.

For Brij Gupta & Co.
Chartered Accountants

CA B M GUPTA
(Partner) 19/02/2022

HARYANA STATE POLLUTION CONTROL BOARD, PANCHKULA (HARYANA)

BALANCE SHEET AS AT 31ST MARCH 2018

PREVIOUS YEAR	LIABILITIES	AMOUNT	TOTAL	PREVIOUS YEAR	ASSETS	AMOUNT	TOTAL
	CAPITAL ACCOUNT:				**FIXED ASSETS:**		
37,008,956	Opening balance (as on 01.04.17)	37,008,956		139,894,109	(as per Annexure 'D' attached)	129,488,342	129,488,342
37,008,956			37,008,956		**CURRENT ASSETS, LOANS AND ADVANCES:**		
					1. CURRENT ASSETS		
	EXCESS OF INCOME OVER EXPENDITURE:			23,218	a) Cash in Hand	7,354	
				319,087,186	b) Balance with bank	870,926,147	
					(As per Annexure 'E' attached)		
3,710,376,316	Opening balance (as on 01.04.17)	4,049,316,015		31,950	c) Stamps in Franking Machine	44,199	
119,939,699	Add: Amount transferred from	336,071,982		3,350,619,919	d) Fixed deposit with bank	3,247,211,838	
	Income & Expenditure Account						
4,049,316,015			4,049,387,997	115,901,814	e) Interest Accrued	171,820,110	
				3,793,666,089			4,300,017,608
	CURRENT LIABILITIES & PROVISIONS:						
841,961,290	a) Security Deposits (Refundable)	1,007,349,198					
6,373,209	b) Expense Payable (Annexure 'A')	7,141,665			**2. LOANS AND ADVANCES**		
5,111,099	c) Other Current Liabilities (Annexure 'B')	4,334,294		12,994,278	a) Advances against purchases (Annexure 'F')	18,996,314	
10,948,603	d) Unutilized Grant in Aid	9,748,603		30,000,000	b) Advance Construction of Residential Complex	30,000,000	
5,857,973	e) Cess received, payable to Govt. of India	996,337		1,891,253	c) Staff Advances (Annexure 'G')	3,659,392	
1,320,000	f) CRF Fund	1,320,000		6,423,309	d) Imprest with staff/others (Annexure 'H')	7,013,448	
17,004,714	g) CPF Liability	19,008,711		102,682,447	e) Pension Fund with LIC	71,366,633	
1,926,066	h) Earnest Money	1,422,066		53,401,710	f) Gratuity Fund with LIC	49,230,750	
902,109	i) Grant in Aid/to Chhl	611,994		33,403,974	g) Leave encashment with LIC	30,374,926	
90,09 5,887	j) GPF Liability	92,000,108		12,751,436	h) Ditch Drain Fund	11,725,267	
6,0 9	k) Amount due to Staff (Annexure 'C')	5,259		1,000	i) Advance to Pension & Gratuity Account	1,000	
21, 8 1, 90	l) Provision for Income Tax A/c	79,006,224		324,470	j) Tax Deducted at Source FY 2010-11	324,470	
	m) Compensation Fund	23,000		616,014	k) Tax Deducted at Source FY 2011-12	616,014	
	n) SOT Fee Payable	1,309,000		735,673	l) Tax Deducted at Source FY 2012-13	735,673	
998,533,647			1,225,370,926	433,174	m) Tax Deducted at Source FY 2013-14	433,174	
				2,360,240	n) Tax Deducted at Source FY 2014-15	2,360,240	
				5,693,514	o) Tax Deducted at Source FY 2015-16	5,693,514	
					p) Advance Income Tax (F.Y. 2016-17)	9,741,110	
					q) Advance Income Tax (F.Y. 2017-18)	90,000,000	
					r) Tax Deducted at Source FY 2017-18	19,205,961	
				895,366,833	s) Income Tax Paid under Protest	895,366,833	
				1,101,698,424			1,238,261,928
5,084,858,618	G. TOTAL(Rs.)		5,667,767,878	5,084,858,618	G. TOTAL(Rs.)		5,667,767,878

Annexure-B 12/22

For Haryana State Pollution Control Board

(Senior Accounts Officer)

(Member Secretary)

Dated : 10th March, 2022
Place : Panchkula

AUDITORS' REPORT
As per our attached report of even date

For Brij Gupta & Co.
Chartered Accountants
FRN 003070N

BRIJ GUPTA & CO. PANCHKULA FRN 003070N CHARTERED ACCOUNTANTS

CA B M Gupta
(Partner)
M.No.081962

HARYANA STATE POLLUTION CONTROL BOARD, PANCHKULA (HARYANA)

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDING 31ST MARCH 2018

PREVIOUS YEAR	EXPENDITURE	AMOUNT	TOTAL	PREVIOUS YEAR	INCOME	AMOUNT	TOTAL
	ADMINISTRATIVE EXPENSES:-				**A:Grant-in Aid**		
	A: ESTABLISHMENT EXPENSES			12,061,587	Received From Govt. of India	22,963,360	
105,001	Leave Salary	874,765					22,963,360
12,188,483	Gratuity	7,932,212					
1,101,238	New Pension Board Contribution	2,654,314			**A: FEES**		
17,030	House Rent Board Contribution	6,222					
108,468	Pension Contribution	963,994		146,133	HWM Fee	12,000	
477,174	CPF Board Contribution	1,070,386		20,694	Right To Information Fee	18,408	
134,121,819	Salary A/c	146,511,936		219,767,713	Air Consent Fee	123,403,123	
48,496,517	Pension Account	41,984,829		9,450	Appeal Fee	510,000	
4,140,206	LTC/HTC	219,913		232,448,243	Water Consent Fee	225,442,837	
7,945,910	Leave Encashment	5,482,401		8,879,367	Sample Testing Fee	7,495,419	
				40,575,474	NOC Fee	43,408,225	
				335,900	Noise/Sound Pollution	187,598	
				989,550	Authorization Fee/ BMW Fee	345,250	
				440,000	Recognition Fee	620,000	
				-	Public Hearing	1,718,690	
			207,660,972	53,069	O.I.S. Board Contribution	60,448	
208,702,746					NWMP Scheme	637,371	
							426,822,729
208,702,746	**TOTAL (A)**		207,660,972	515,729,081	**TOTAL (A)**		
	B: OTHER EXPENDITURE:-				**B: INTEREST**		
				205,487	Car Advance	237,715	
2,357,109	Rent, Rates & Taxes	1,675,232		13,446	Computer Advance	3,867	
690,778	Telephone Expenses	1,077,081		4,300	Scooter Advance	2,156	
815,178	Postage & Telegram	676,127		5,666	Moped Advance	2,400	
				884,790	GIBA	725,749	
				240,112,743	Interest on FDR A/c	253,491,443	
				29,700,722	Interest on Savings A/c	26,743,183	
				154,739	Marriage Advance	153,637	
							281,360,150
3,863,065			3,428,440	271,051,893			
212,565,811	**BALANCE CARRIED FORWARD**		211,089,412	786,780,973	**BALANCE CARRIED FORWARD**		708,182,879

For GUPTA & CO.
PANCHKULA
FRN 003470N
CHARTERED ACCOUNTANTS

PREVIOUS YEAR	EXPENDITURE	AMOUNT	TOTAL	PREVIOUS YEAR	INCOME	AMOUNT	TOTAL
212,565,811	BALANCE BROUGHT FORWARD		211,089,412	786,780,978	BALANCE BROUGHT FORWARD		708,182,879
21,000	Honorarium A/c	25750		10,192,631	C. MISCELLANEOUS RECEIPTS	13,848,503	
4,900,750	NGT Penalty	-					
5,555,661	Water & Electricity Charges	5578364					
537,450	Education Allowance	490800					
3,647,021	Medical Reimbursement	2401416					
127,543	Repairs of Office Equipment	397004					
516,264	Property Tax	-					
370,800	Seminar & Workshop	2500					
1,875,666	Office Expenditure	3817018					
972,321	Printing & Stationary	1074801					
1,019,567	Professional Charges	669490					
1,171,034	Environmental Awareness	10029911					
450,653	Hospitality & Entertainment	723193					
37,399	Newspaper & Magazine	36854					
-	Liveries	1500					
37,698	Bank Charges	63066					
4,913,573	Advertisement & Publicity	7694001					
863	Insurance GIS	-					
1,002,197	TA Expenditure	1079360					
869,935	Repairs & Maintenance (Lab)	31050					
904,303	Repairs & Maintenance (Building)	839191					
5,366,253	Computer Expenses	3693540					
3,609,758	Laboratoiy Expenses	3778427					
1,620,338	Lab. Materials	275530					
267,632	Repairs & Maintenance (Others)	415768					
25,000	Ex-Gratia	25000					
300,000	Financial Assistance	-					
4,371,040	Legal Expenses	4514307					
67,212	Custom Duty	-					
214,314	Insurance Of Vehicle & Building	223011					
2,728,000	Research & Development Project Report & Studies	3771700					
-	Misc Expenses	299610					
46,589,281			60,251,623	10,192,631			13,848,503
259,126,092	BALANCE CARRIED FORWARD		261,341,035	796,973,604	BALANCE CARRIED FORWARD		722,031,382

BERI GUPTA & CO. PANCHKULA FRN 015810N CHARTERED ACCOUNTANTS

PREVIOUS YEAR	EXPENDITURE	AMOUNT	TOTAL	PREVIOUS YEAR	INCOME	AMOUNT	TOTAL
259,126,092	BALANCE BROUGHT FORWARD		261,341,035	796,973,604	BALANCE BROUGHT FORWARD		722,031,382
	TOTAL (B)						
	C: VEHICLE RUNNING & MAINTENANCE						
3,937,360	P.O.L	4,540,869					
1,055,433	Repairs	1,204,234					
4,992,793	TOTAL (C)		5,745,103				
	D: INCOME TAX A/c						
100,316,580	Income Tax (Previous Year)						
95,238,238	Income Tax(2017-2018)	79,006,224					
198,554,818	TOTAL (D)		79,006,224				
	E: OTHER ADMN. EXPENSES						
80,000	Audit Fees	94,400					
6,925,849	Interest on OPF Accounts	6,898,183					
1,281,647	Interest on CPF Accounts	1,326,380					
8,287,496	TOTAL (E)		8,318,963				
9,973,707	F: DEPRECIATION (as per Annexure attached)	11,548,075	11,548,075				
319,039,699	To Excess Of Income Over Expenditure transferred to Balancesheet		356,071,982				
796,973,604	GRAND TOTAL(Rs.)		722,031,382	796,973,604	GRAND TOTAL(Rs.)		722,031,382

For Haryana State Pollution Control Board

(Senior Accounts Officer)

(Member Secretary)

Dated : 10th March 2022
Place : Panchkula

AUDITORS' REPORT
As per our attached report of even date

For Brij Gupta & Co.
Chartered Accountants
FRN003070N

BRIJ GUPTA & CO. PANCHKULA FRN-003070N CHARTERED ACCOUNTANTS

CA B M Gupta
(Partner)
M.No.081962

HARYANA STATE POLLUTION CONTROL BOARD, PANCHKULA (HARYANA)

ANNEXURE 'D' OF FIXED ASSETS AS PER BOOKS AS ON 31ST MARCH, 2018

Sr. NO.	PARTICULARS	WDV AS ON 01.04.2017	ADDITIONS UPTO 30.09.2017	ADDITIONS AFTER 01.10.2017	SALES DURING THE	TOTAL AS ON 31.03.2018	Rate of Depreciation	DEPRECIATION DURING THE YEAR	WDV AS ON 31.03.2018
1	Land A/C	80,275,027			-	80,275,027	0%	-	80,275,027
2	Building Under Construction	1,155,018				1,155,018	0%	-	1,155,018
3	Building A/C	25,595,866			-	25,595,866	10%	2,559,587	23,036,279
4	Air Conditioners/Coolers	33			-	33	15%	5	28
5	Fans	23			-	23	10%	2	21
6	Paper Copying machine	11			-	11	15%	2	9
7	Other Office Equipments	6,829,212	666,231	170,847	-	7,666,290	15%	1,137,130	6,529,160
8	Laboratary Equipments	14,605,898			-	14,605,898	40%	5,842,359	8,763,539
9	Furniture & fixtures	3,641,644	57,598	35,678	-	3,734,920	10%	371,708	3,363,212
10	Library Books	5,186	16,390	700	-	22,176	40%	8,731	13,445
11	Car	6,121,416			35,500	6,085,916	15%	912,887	5,173,029
12	Cycle	112			-	112	15%	17	95
13	Computers A/c	1,364,563	318,446	212,018	-	1,895,127	40%	715,647	1,179,480
	TOTAL(Rs.)	139,894,109	1,058,668	419,243	35,500	141,036,417		11,548,075	129,488,342

(Senior Accounts Officer)

DATE : 10th March 2022

PLACE : Panchkula

(MEMBER SECRETARY)

BHU GUPTA & CO. PANCHKULA FRN 003070N CHARTERED ACCOUNTANTS

12/25

HARYANA STATE POLLUTION CONTROL BOARD, PANCHKULA (HARYANA)
ANNEXURE 'F' FOR ADVANCE AGAINST PURCHASES AS ON 31ST MARCH, 2018

PREVIOUS YEAR	PARTICULARS	CURRENT YEAR
-	Haryana Forest Development Corporation	384,904
136,710	Controller Printing & Stationery deptt.	136,710
2,413,858	Hartron Chandigarh	7,462,821
6,872	Sigma Aldrich Chemical	6,872
4,078,000	HAREDA	4,078,000
6	Mahindra & Mahindra	6
40,500	CPR Environmental Education Central Chennai	40,500
5,745,298	NIC (National Informatics Centre)	6,279,320
73,034	Reliance Broadcast Network Limited	73,034
500,000	Haryana Tourism	500,000
-	Usha Enterprises	34,387
12,994,278	**TOTAL(Rs.)**	**18,996,554**

HARYANA STATE POLLUTION CONTROL BOARD, PANCHKULA (HARYANA)
ANNEXURE 'G' OF STAFF ADVANCES AS ON 31ST MARCH, 2018

PREVIOUS YEAR	PARTICULARS	CURRENT YEAR
2,807	Computer Advance	2,807
44,725	Scooter/Motor Cycle Advance	26,725
3,190	Cycle Advance	3,190
524,875	Marriage Advance	501,885
50,999	CPF Advance	23,499
764,280	Car Advance	558,036
2,259,387	House Building Advance	1,499,404
1,226,793	GPF Advance	1,229,620
4,896	Advance for POL to Director Env.	4,896
-	Moped Advance	-
9,300	Advance for T.A.	9,300
4,891,252	**TOTAL(Rs.)**	**3,859,362**

HARYANA STATE POLLUTION CONTROL BOARD, PANCHKULA (HARYANA)
ANNEXURE 'H' OF ADVANCES TO STAFF & Ro's AS ON 31ST MARCH, 2018

PREVIOUS YEAR	PARTICULARS	CURRENT YEAR
	A: ADVANCE TO STAFF	
201	Sh. Vinay Jhingan, ADA	201
500	Sh. Ranbir, Peon	500
105,868	Sh. Yogesh Yadav	-
6,000	Sh. Vinod Kumar Driver	6,000
10,000	Sh. S. Naryanan	-
2,576	Sh. Pardeep Kumar	-
2,511	Sh. Mastinder Singh	2,511
5,000	Sh. Manish Kumar	5,000
	Sh. Sunil Kaumar	93,900
	Sh. Roshan Lal	1,000
	Sh. Kashmir Singh	3,846
6,000	Sh. Avtar Singh Driver	12,088
83	Sh. Bijender Kumar	5,083
138,739	**TOTAL(Rs.) (A)**	**130,129**

ARUN GUPTA & CO PANCHKULA FRN: 000570N CHARTERED ACCOUNTANTS

HARYANA STATE POLLUTION CONTROL BOARD, PANCHKULA (HARYANA)
ANNEXURE 'A' EXPENSES PAYABLE AS ON 31ST MARCH, 2018

PREVIOUS YEAR	PARTICULARS	CURRENT YEAR
6,367,185	Salaries Payable	7,046,974
197,750	Audit Fee Payable	292,150
7,274	House Rent Payable	2,438
6,572,209	**TOTAL(Rs.)**	**7,341,562**

HARYANA STATE POLLUTION CONTROL BOARD, PANCHKULA (HARYANA)
ANNEXURE 'B' OF OTHER CURRENT LIABILITIES AS ON 31ST MARCH, 2018

PREVIOUS YEAR	PARTICULARS	CURRENT YEAR
280,422	GIS Payable	7,212
4,290	HBA Payable	38,610
3,870	Car Advance Payable	3,870
831,404	Leave Encashment Payable	632,797
101,284	CPF Payable	134,167
376,685	TDS Payable	423,283
974,505	GPF Payable	937,505
2,295	Scoter Advance Payable	2,295
323,344	New Pension Scheme Payable	1,079,876
316,800	Gratuity Payable	1,074,679
3,214,899	**TOTAL(Rs.)**	**4,334,294**

HARYANA STATE POLLUTION CONTROL BOARD, PANCHKULA (HARYANA)
ANNEXURE 'C' OF AMOUNT DUE TO STAFF AS ON 31ST MARCH, 2018

PREVIOUS YEAR	PARTICULARS	CURRENT YEAR
5,163	Sh. Sushil Kumar	5,163
893	Sh. Vikas driver	126
6,056	**TOTAL(Rs.)**	**5,289**

HARYANA STATE POLLUTION CONTROL BOARD, PANCHKULA (HARYANA)
ANNEXURE 'E' OF BANK BALANCES AS PER BOOKS AS ON 31ST MARCH, 2018

PREVIOUS YEAR	PARTICULARS	CURRENT YEAR
21,270,148	PNB (A/c 20328057)	24,333,918
1,976,717	PNB (A/c 20328136)	3,525,693
3,700,129	PNB (A/c 20328215)	15,127,056
4,721,659	PNB (A/c 20327915)	3,598,365
10,002	UBI 18039	10,002
6,157,289	Andhra Bank (A/c 283)	6,407,272
45,000	PNB (A/c 41180)	45,000
94,373,418	PNB Sec-6, PKL (A/c No. 7912	269,959,869
182,682,363	ICICI Bank (A/c No.E - Gateway	6,732,022
1,473,728	Indusind Bank	537,430,312
2,676,735	PNB Sector 8 (A/c No. 5744)	3,756,639
319,087,188	**TOTAL(Rs.)**	**870,926,147**

BRIJ GUPTA & CO. PANCHKULA FRN-003070N CHARTERED ACCOUNTANTS

	B: ADVANCE TO Ro's	
379003	Advance Gurgaon North	379,003
110000	Advance Lab , Faridabad	110,000
100000	Advance Lab Gurgaon	100,000
100000	Advance Lab Hissar	100,000
335483	Advance Ro Bahadurgarh	335,483
531536	Advance Ro Ballabgarh	531,536
742683	Advance Ro Dharuhera	842,683
481390	Advance Ro Faridabad	410,390
200000	Advance RO Gurgaon South	1,171,000
297005	Advance RO Hisar Region	297,005
200000	Advance RO Jind	207,500
867373	Advance RO Panchkula	747,593
447335	Advance Ro Panipat	447,335
425488	Advance Ro Sonepat	585,436
1067356	Advance Yamuna Nagar	1,517,356
6284652	**TOTAL(Rs.) (B)**	**7,782,320**
6423390	**TOTAL(Rs.) (A+B)**	**7,912,448**

HARYANA STATE POLLUTION CONTROL BOARD, PANCHKULA (HARYANA)
ANNEXURE 'I' OF INTEREST INCOME ON FDR & SAVINGS A/c DURING THE YEAR 2017-2018

PREVIOUS YEAR	PARTICULARS	CURRENT YEAR
217,079,266	Interest Received on FDR	178,361,187
102,741,185	Less : Accrued Intrest on Previous Year	115,901,814
115,901,814	Add: Accrued Interest on Current Year	171,826,110
9,872,848	Add: TDS (2017-2018)	19,205,961
240,112,743	**TOTAL(Rs.)**	**253,491,443**

For Haryana State Pollution Control Board

(Senior Accounts Officer)

(Member Secretary)

Dated : 10th March 2022
Place : Panchkula

BRIJ GUPTA & CO. PANCHKULA FRN 000307N CHARTERED ACCOUNTANTS

Annexure C

OBSERVATIONS	REPLY
1) Water (Prevention and Control of Pollution) Act,1974 and the Air(Prevention and Control of Pollution) Act,1981 regarding AnnualReport:- As per clause 35 sub-clause 2 of "The Air (Prevention and Control of Pollution) Act, 1981. 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 copies thereof shall be forwarded to the State Government within four months from the last date of the previous financial year and that government shall cause every such report to be laid before the State Legislature within a periodof nine months from the last date of the previous financial year. As per clause 39 sub-clause 2 of 'Water (Prevention and control of Pollution)Act, 1974' 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 copies thereof shall be forwarded tothe State Government within four months from the last date of the previous financial year and that government shall cause every such report to be laid before the State Legislature within a period of nine months from the last date of previous financial year. As informed the Board has not complied with the above mentioned time schedule for furnishing the Annual Returns of its accounts due to delay ingetting the accounts finalized and audited.	The audited balance sheet and income & expenditure account for the financial year 2015-16 & 2016-17 have already been sent to State Government after approval given by B.O.D of the Board in its 190th meeting held on 2.2.2022 vide Agenda item No. 190.7 & 190.7(S), vide office letter no. HSPCB/2022/1661 dated 14.3.2022. The Governor of Haryana, in consultation with the Comptroller and Auditor General of India has appointed M/s Brij Gupta & Co., Chartered Accountant , Panchkula as Statutory Auditor under section 40(3) of the water(Prevention & Control of Pollution) Act,1974 for auditing the accounts of Haryana State Pollution Control Board , Panchkula for the financial year 2017-21 vide letter No. 2/16/1997-1Env dated 22.6.2021 **Annexure X-1 & X-2** . The Chartered Accountant has audited the balance sheet, income & expenditure account for the financial year 2017-18. The Chartered Accountant has started the audit of the account of the Board for the financial year 2018-19 and has been requested to complete the audit immediately.

2)Loss incurred due to surplus funds not invested in FDR with banks: The Board incurred a loss of Rs.33.64 Lakhs as it kept surplus funds in saving accounts instead of FDR with various banks as per detail here under

Name of Bank	Amount (Rs.)	Period (Days)	Diff. in FDR & SB rate	Interest Loss(Rs.)
Andhra Bank	61,57,289	365	2.75%	1,69,325
(3843) PNB (4180)	45,000	365	2.75%	1,237
PNB(5744)	26,76,735	365	2.75%	73,610
PNB(7912)	20,00,00,000	61	2.75%	9,19,178
PNB(7912)	10,00,00,000	21	2.75%	1,58,219
PNB(7912)	15,00,00,000	44	2.75%	4,97,260
PNB(7912)	10,00,00,000	19	2.75%	1,43,150
PNB(7912)	5,00,00,000	19	2.75%	71,575
PNB(7912)	5,00,00,000	16	2.75%	60,274
PNB(7912)	10,00,00,000	79	2.75%	5,95,205
IndusInd Bank	28,00,00,000	32	2.75%	6,75,068
Total				33,64,101

The Haryana State Pollution Control Board received the amount under various head in the banks directly from various industries/firms/units etc. on account of fees & performance security etc. on day to day basis. The emergent expenditure is incurred from receipts and balance funds if any is invested in fixed deposit (FDR's) in the banks. As such there is no loss of interest to the Board.

3)Loss due to wrong claim of TDS in Income Tax Return:
The Board has short claimed TDS amount of Rs.3,72,540/- as per detail here under TDS to be claimed as per Form 26AS Rs.1,92,05,961/- TDS claimed as per Income Tax Return Rs. 1,88,33,421/-Short Claim as per Income Tax return Rs. 3,72,540/-

Due to this, the Board has suffered a loss of Rs. 3,72,540/-.

The Chartered Accountant M/s Jain & Associates , Panchkula has been engaged for filing of Income Tax Return of the Board. The C.A has been requested to advise in the matter. On receipts of the advise from the C.A , final action will taken.

4) Unrecoverable TDS on Interest Income A) TDS for the F.Y 2010-11 to F.Y 2015-16 are shown as Loans and Advances. The sum total of these amounts is Rs.1,02,82,084/- which are shown as assets but are not recoverable and thus a loss to the Board.	The Chartered Accountant M/s Jain & Associates , Panchkula has been engaged for filing of Income Tax Return of the Board. The C.A has been requested to advise in the matter. On receipts of the advise from the C.A , final action will taken.
5) Defaults in filing of TDS Returns. As per Traces, a default of Rs. 33,680/- persists upto 31/03/2018 in filing TDSReturns upto 31/03/2018.	The Chartered Accountant M/s Jain & Associates , Panchkula has been engaged for filing of Income Tax Return of the Board. The C.A has been requested to advise in the matter. On receipts of the advise from the C.A , final action will taken.
6) Bank Reconciliation Statements: i) PNB Sec-6, PKL (A/c No. 7912) Board has issued cheques amounting to Rs.39,76,122/- during the period 10/02/2016 to 27/12/2017 which have not been presented to the bank and have become stale. Similarly Board has received credits amounting to Rs.15,72,600/- in the bank which have not been identified and accounted for in its books of account. ii) PNB (A/c 20327915) Bank reconciliation statement was not made available for our verification. The difference in the amount as per cash book and as per Bank is Rs. 47,698/-. In the absence of reconciliation details we are unable to comment upon it. iii) PNB (A/c 41180) Bank reconciliation statement was not made available for our verification. The difference in the amount as per cash book and as per Bank is Rs. 45000/-. In the absence of reconciliation details we are unable to comment upon it.	i) All the outdated/stale cheques/demand drafts have been sent to all the concerned regional officers with the direction to send the fresh demand drafts/cheques after taking from the parties/firms etc. ii) Bank reconciliation statement will be provided to the Chartered Accountant. iii) Bank reconciliation statement will be provided to the Chartered Accountant.

iv) UBI (A/c 18039) Bank reconciliation statement was not made available for our verification. The difference in the amount as per cash book and as per bank is Rs. 10,000/-. In the absence of reconciliation details we are unable to comment upon it.	iv) Bank reconciliation statement will be provided to the Chartered Accountant.
v) The Banks for which reconciliation were provided to us, the statements do not mention the dates on which the entry appearing inthe BRS has been cleared or reversed in future.	v) Accounts are being reconciled.
vi) Outstanding entries (cheque issued but not presented and cheque deposited but not credited by the bank) have not been reversed. In case, certain cheques deposited which were not credited may become irrecoverable as the particulars of the Issuer of the cheque are not available and it is not known from whom this amount is recoverable and loss to the Board on account of non-recovery of these amounts can not be ascertained. We advise that sincere efforts be made to recover the amounts for which cheques has been deposited but which have not been cleared by the banks as it directly affects the income ofthe Board.	vi) All the outdated/stale cheques/demand drafts have been sent to all the concerned regional officers with the direction to send the fresh demand drafts/cheques after taking from the parties/firms etc.
vii) Andhra Bank (A/c 283) The Board has kept an amount of Rs. 64,07,272/- in this saving account and no transaction has been made during the year. The purpose of keeping the account is not known.	vii) The saving account in the concerned banks has been closed.
7) In Respect of Fee charged for Various Consents : Air Consent Fee, Water Consent Fee, NOC Fee, Noise Fee, BMW Fee, Recognition Fee, Public Hearing Fee and Appeal Fee which have been received are duly accounted for but the amounts which were recoverable under the above heads but have not been recovered needs to be quantified and steps taken to recover the same. Copies of the bills raised for these Fee should be numbered and sent to the Head Office for full control and reconciliation to determine the unrecovered amount.	All the regional officers have been requested to send the information regarding confirmation of the fee charged for various consents for the year 2017-18 & 2018-19 vide letter no .HSPCB/Acctts/2022/1538 dated 28.2.2022

8) In Respect of Fee charged for Lab Sample Testing : Year wise detail of fee collection and reports issued by the Board on account of various tests was not available. In absence of any record, we are unable to quantify the amounts which have been claimed but not recovered. Any such fee remaining recoverable as on 31.03.2018 due to dishonour of cheques or otherwise is also not ascertainable.	All the regional officers have been requested to send the information regarding confirmation of the fee charged for various consents for the year 2017-18 & 2018-19 vide letter no. HSPCB/Acctts/2022/1538 dated 28.2.2022
9)Advance against Purchases The Board had released advances to the following suppliers during the previous year which have not been adjusted in the current year. Name of Supplier — Amount (Rs.) i) Controller Printing and Stationery Department — 1,36,710/- ii)Hartron — 13,98,266/- iii)Sigma Aldrich Chemical — 6,872/- iv)HAREDA — 40,78,000/- v)Mahindra and Mahindra — 6/- vi)CPR Environmental Education Central Chennai — 40,500/- vii)NIC (National Informatics Centre) — 36,27,683/- viii)Reliance Broadcast Network Limited — 73,034/- ix)Haryana Tourism — 5,00,000/-	i) Action is under process (Estate Office). ii) Outstanding amount has been adjusted in Febuary, 2022 along-with other outstanding advance. iii) The advance has been adjusted in the month 3/2022. iv) The outstanding amount has already been adjusted in the month 10/2018 v) Rs.7 adjusted in the month 5/2021. vi) The outstanding amount adjusted in the month 1/2022 vii) Advance Rs.1139985(13.11.2017),Rs.181065(26.11.2019),Rs5199739 (31.3.2019), Rs.22804(16.12.2021) & Rs.2140563(24.2.2022) adjusted. viii) Action is under process (Publicity Cell). ix) Action is under process (Publicity Cell).
10) Advances to RO's The Board had released advances of Rs. 62,84,652/- as on 31/03/2017 out of which Rs.61,01,372/- have not been adjusted throughout the year. Further, during the year fresh advances have been released to Regional offices at Dharuhera, Faridabad, Gurgaon South, Jind, Panchkula, Sonipat and Yamuna Nagar without asking for utilisation of opening balances	All the concerned regional officers have been given direction for the adjustment /clearance of pending advance.

11) Confirmation of Balances: Balance confirmations from suppliers and regional offices were not obtained. The amount of un reconciled items that may emerge after the confirmations and reconciliation of accounts cannot be determined and the consequential impact on financial statements remain unascertained. All debit and credit balances including advances are as per book balances. No confirmations for these balances have been obtained.	All the regional officers have been given directions regarding confirmation of imprest and advance balances as on 31.3.2018 and 31.3.2019 vide letter no. HSPCB/Acctts/2022/1527-1529 dated 28.02.2022.
12) Tax Deduction at Source by Banks on Interest on FDRs: The Board has not obtained certificate for the amount of interest earned and TDS deducted during the year from various banks with whom it is keeping accounts in fixed deposits. In absence of confirmation of TDS from the Banks, it is difficult to verify that all the TDS deducted from Interest on FDRs have been duly accounted for in the Board's accounts and same has been duly reflected in Form 26AS. In case, certain TDS was deducted from the interest on FDRs but was unconfirmed by Banks and was inadvertently not reflected in 26AS which may lead to loss to the Board due to omission of this claim in Income Tax Return. Therefore, the Board is advised to take necessary steps to claim the Actual Tax deducted during the year and also follow up with the banks that whatsoever TDS has been deducted by them gets reflected in 26 AS. It may be ensured that PAN of the Board is updated in the records of each and everybank.	The Chartered Accountant M/s Jain & Associates , Panchkula has been engaged for filing of Income Tax Return of the Board. The C.A has been requested to advice in the matter. On receipts of the advice from the C.A , final action will taken.

13) Filing of Income Tax Returns: a) F.Y 2017-18 Interest on FDRs as per Income and Expenditure Account Rs. 25,34,91,443/- Interest on FDRs as per Income Tax Return- Rs. 21,11,72,376/- TDS as per Form-26AS-Rs. 1,92,05,961/-TDS as per Income Tax Return-Rs. 188,33,421/- The differences in the Interest on FDRs as per Income and Expenditure Account and as per Income Tax Return along with differences in TDS claimed under Income Tax Return and TDS as per Form-26AS have not been explained. b) All the Income Tax returns have been filed on the basis of Provisional Financial Statements which do not tally with the Financial Statements. In the Income Tax Return filed for the year, tax has been calculated on Gross income of Rs. 37,37,67,570/- whereas as per Audited Financial Statement, income for the year before provision of Income Tax is Rs. 43,50,78,206/-. c)On going through the copy of Assessment Order for AY 2018-19 (FY2017- 18) it has been observed that a return with a total income of Rs.22,21,99,962/- was filed. Rs 2,69,562/- was the Interest paid for the Assessment year 2018-19 (FY2017-18) U/S 234. **Thus the Board paid undue amount of interest inspite of no shortage of funds with the Board.** d) Provision for Income Tax amounting to Rs7,90,06,224 /- for the FY 2017- 18 has been made in the books of account and accordingly reflected in the financial statements, which was not provided in the Provisional Balance Sheet.	The Chartered Accountant M/s Jain & Associates , Panchkula has been engaged for filing of Income Tax Return of the Board. The C.A has been requested to advise in the matter. On receipts of the advise from the C.A , final action will taken.

14) Fixed Assets: The WDV of fixed assets of the Board is worth Rs.12,94,88,342/- as on 31st March, 2018. During the F.Y 2017-18, total net additions of Rs.14,42,308/- were made. Fixed Assets register showing the quantitative details of various assets was not made available to us for verification. Further as explained to us, no physical verification of fixed assets was carried out during the F.Y2017-18.	Fixed Assets Register is being maintained in the Board, Regional Offices & laboratories as per past practice. Presently physical verification of store is being conducted from the year 2018-19.
15) Inventories of Lab Materials: The Board purchased Lab material amounting to Rs.2,75,530/-.Stock registers for lab materials were not shown to us. Hence we cannot comment as to whether proper entries of receipt and issues of stock are maintained or not. The periodic physical verifications of the stocks have not been conducted by the Board during 2017-18. The quantity of the stock lying with the concerned departments as at the close of year cannot be determined. Thus we are not able to figure out the value of unconsumed closing stocks of lab materials as on 31st March, 2018. The inventories in hand as at the end of the year are also not available and the entire purchases during theyear are booked as expenses and that too on cash basis.	Fixed Assets Register is being maintained in the laboratories as per past practice. Presently physical verification of store is being conducted from the year 2018-19.
16) Mixed System of Accounting The Board is following mixed system of accounting as certain Income and Expenses are recognized on cash basis whereas others are recognized on accrual basis. It is observed that bills/claims for various expenses are submitted/approved/settled/paid and recorded on Payment basis irrespective of the period they pertain to and in many cases after a long gap from the date they were incurred. In our opinion the Board should follow Mercantile/Accrual system of accounting so that expenditure incurred and income accrued in a year is accounted for in the same year	The accounts of the Board are being maintained on cash based system and Mercantile/Accrual system is not feasible to be maintained due to delay in the finalization of cases. Further, Accounting system of the HSPCB has now been computerized on Tally Software.

17) **Internal Audit and Internal Control** The Board is not having any system of internal audit of its accounts, neither by Internal Auditor nor by External Auditor. Further based on our enquiries, In respect of some aspects no proper system of internal control procedure was apparently in place. Bank Reconciliation does not identify cheques issued which have been dishonoured but not reversed. Cheques dishonoured may not be renewed in absence of internal audit procedures. The absence of record, reconciliation and claims of TDS may lead to loss to the Board. The entries for Income as per the Income Tax Return, Income Tax Paid, TDS claimed and interest paid on late deposit of taxes were not made from year toyear.	Internal & external audit system has already been adopted by the Board. One Post of Section Officer, One Post of Accounts Officer and One Post of Sr. Accounts Officer of the Finance Department have already been sanctioned in the Board to Control over accounts & presently all the payment/receipts are being scrutinized/ pre- audited. Action on the dishonoured cheques/demand draft is being taken.
18) Grants in Aid: The Board receives 80% of the cess fee receipts during the year as Grant in Aid from Govt. of India. During the year, the Board received Rs. 2,85,12,631/- as cess fee and Board's Share should be Rs. 2,28,10,104/-. However, in the Income and Expenditure Account for the year, the Grant in Aid has been taken as Rs. 2,29,63,360/-. Thus the account is not reconciled.	Prior to 01.07.2017 total amount of the water cess received from the parties/firm etc. were accounted for in the accounts of the HSPCB and the same were deposited in the accounts of Pay & Account Officer, Ministry of Environment , Forests & Climate Change New Delhi. Thereafter 20% of the total cess amount were released to HSPCB as Grant (Cess) under the water (Prevention and Control of Pollution) Cess Act,1977. From 1.7.2017 it has been considered by the Govt. of India and decided in consultation with Ministry Of Finance to allow SPCB's PCC's to retain 80% of such arrears of water cess after collection and remitted only 20% share in the CFI. While remitting the 20% share into CFI, it should clearly be maintained that 80% share of water cess has been retained by the SPCB's/PCC's vide Govt. of India MOEF & CC new Delhi letter no. Q-17011/01/2017-CPW dated 23rd April, 2018(3.5.2018). As pointed out by the Chartered Accountant, reconciliation will be made.
19) Miscellaneous Receipts: Miscellaneous Receipts amounting to Rs. 1,38,48,503/- include all receipt the nature of which could not be identified. It includes huge amounts received through ICICI Bank (E-Gateway) and also includes securities which are refundable. Miscellaneous Receipts have been treated as Income irrespectiveof whether they are capital or revenue.	Bank reconciliation is being made.

20) Dishonoured Cheques: We have observed during our random audit checks in respect of dishonouredcheques that the income account is reversed/debited without debiting the party from whom the cheque was received. However in the absence of any records it is difficult to trace party wise detail regarding dishonoured cheques and to ensure that such payments have beenrealized in future. There is no list of cheques dishonoured which have not been reversed. In our opinion the lack of Internal Control on this issue may result in leakage of revenue.	All the outdated/stale cheques/demand drafts Party/Firm wise have been sent to all the concerned Regional Officers with the direction to send the fresh demand drafts/cheques after taking from the parties/firms etc. The list of Parties/Firms wise dishonored Cheques/Drafts will be submitted to the C.A.
21)Confirmation of Liabilities: Apart from various other outstanding liabilities, the following amounts have also been shown in the books of accounts to be payable as on 31st March 2018: Earnest money payable Rs. 14,22,066/- Security Deposit (Refundable) Rs.100,72,49,198/- G.P.F Liability Rs. 9,20,00,168/- C.P.F Liability Rs. 1,98,98,731/- No party/person wise details, confirmations and reconciliation of such amounts are being maintained in the case of Earnest money payable and Security Deposits (Refundable) which may lead to wrong claims. Further no details are available in respect of securities which are required to be forfeited. The balance as per person wise detail of G.P.F. Liability is Rs. 9,13,21,196/-and of C.P.F Liability is Rs. 1,95,20,335/-. These amounts do not match withthe balances in the Books of Accounts.	In this regard, it is submitted that in the tally software individual ledger (party wise) are being maintained and compliance is being done now,

22) **C.R.E.P Fund:** The Board has liability in shape of a fund called "C.R.E.P Fund" amounting to Rs.15,20,000/- outstanding in the Balance Sheet for more than 7 years.	Directions have been issued to Regional office Bahadurgarh, Bhiwani, Rohtak, Sonipat,Yamuna Nagar & Faridabad to send the action taken report/status regarding C.R.E.P Fund (Corporate Responsibility Environment Protection) fund vide letter no. HSPCB/Accts./2022/1668,1669,1670,1671,1672 & 1673 dated 16.3.2022. The Senior E.E (Planning) has also requested to render advice in the matter.
23) **Leave Encashment, Gratuity and Pension Fund:** The Board has maintained various funds like Leave Encashment Fund, Gratuity Fund and Pension Fund with LIC for employee benefits, Claims paid during the year are booked as an expense and interest earned on these funds is booked as an Income. These claims are paid by LIC and reduced from respective funds. It is not certain as to who calculates these and whether Individual accounts of the persons and their reconciliation is done from time totime.	The amount in the leave Encashment fund, Gratuity fund and Pension fund Schemes is released to LIC of India on the request of the Trustee of the Board and on the advice of trustee the amount is released by the LIC of India . The reconciliation is being made by the Trustee of the Board. The calculation Sheet as provided by Trustee has been sent to C.A & Placed at **Annexure –Y-1 & Y-2** .
24) **Amount released to Eco Clubs:** Detail of amounts released to various Eco Clubs during the year and reimbursement obtained from Ministry of Environment, Forest and Climatechange was not available for verification.	An amount of Rs. 1 Crore was received under this head from State Government on 9.3.2018 and the same was returned back on 10.3.2018 with the remarks that Board does not play any role in the matter and since Education Department is itself a big Department and Environment Department Haryana disburse the same to Education Department directly **Annexure- Z**

***

12/39

Annexure-X-I

OFFICE OF THE COMPTROLLER AND AUDITOR GENERAL OF INDIA
10, BAHADUR SHAH ZAFAR MARG, NEW DELHI - 110 124

ACS Env. (Secy)
PS/ACS Env
12-5-2021
Secy-/DG Env.(Secy) 1915
MS/HSPCB

No/CA-V/CORP/HARYANA,HSPOLL(1)/1946
Dated :13/04/2021

हरियाणा सिविल सचिवालय
चण्डीगढ़
परिचालन अनुभाग

Diary No. 972
Date 12.05.2021

To
THE CHIEF EXECUTIVE
HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR 6,
PANCHKULA
CHANDIGARH-134109
HARYANA

JS(Env) 2705
S.Env

Subject : Appointment of Auditors of HARYANA STATE POLLUTION CONTROL BOARD (HSPOLL)

Sir Madam,
I am directed to state that advice of Comptroller and Auditor General of India for the appointment of auditors of your company for the year 2017-2021 has been sent to

THE COMMISSIONER & SECRETARY,
. TO THE GOVERNMENT OF HARYANA, ENVIRONMENT DEPARTMENT
CHANDIGARH-

Vide Letter No. CA V/FRM/HARYANA,S/1946 Dated :13/04/2021

The supplementary audit of the above corporation is entrusted to

Where audit is due for more than one year the auditors would formally certify the accounts of a particular year only after the previous year's audited accounts are adop- ted by the Annual General Meeting of the Company, which hopefully would be held in quick succession to overtake arrears in compilation of accounts. The date by which the compilation of accounts which are in arrears will be completed may kindly be intimated to the undersigned within a fortnight.

Please confirm past audit details including audit fees given above or in the Annex-ure. The changes in details including the fees in the future may kindly be intimated from time to time. Any other remuneration like TA DA, Tax Management consultancy fees paid to the statutory auditor in addition to the audit fees in the last three years and in future may also be intimated. Proposals for re-organisation of units in the future may kindly be sent well before the beginning of the financial year the accounts of which are to be audited

Yours faithfully,
(Raj Kumar)
Sr. Administrative Officer

Dy I Env.

ANNEXURE - II

12/40

LIST OF CHARTERED ACCOUNTANT FIRMS FOR THE YEAR 2017-2021

Sl. No.	Firm Name	PSU Code / Unit Code	Station	Audit Details	Fee (per annum in Rs. (As Intimated by the Psu)
STATUTORY AUDITOR					
1	BRIJ GUPTA & CO *(NR0672)* H.NO.-729A,BASEMENT, NEAR HUDA OFFICES, SECTOR - 8, PANCHKULA PANCHKULA : 134109,HARYANA	HSPOLL CHANGARH (4)	CHANDIGARH		25000

Any change/revision in the audit fee payable to each of the auditor (s) mentioned above should be immediately intimated to this office for record and reference as the selection of auditors is based on the audit fees paid/payable.

Annexure-X2

Govt. of Haryana
Environment Department

ORDER

As per orders of the Comptroller and Auditor General of India vide No. CA.V/CORP/HARYANA,HSPOLL(1)/1946 dated 13.04.2021 the Governor of Haryana is pleased to appoint Brij Gupta & CO. (NRO 672) H.No. 729A, Basement, Near Huda Office's, Sector 8, Panchkula-134109, Haryana as Auditor of Haryana State Pollution Control Board, C-11, Sector-6, Panchkula, Haryana, for the year 2017-2021., under the provision of section 40 (3) of the (Water Prevention & Control of Pollution) Act, 1974.

Where audit is due for more than one year, the auditors would formally certify the accounts of a particular year only after the previous year's audited accounts are adopted by the Annual General Meeting of the Corporation, which hopefully would be held in quick succession to overtake arrears in compilation of accounts

They will be paid Rs. 25,000/- (Rupees Twenty Five Thousand only) per year as fee for this work subject to the condition that the Board will meet the expenditure out of its sanctioned Budget grant.

Dheeraj Khandelwal
Additional chief Secretary to Govt. Haryana,
Environment and Climate Change Department.

Dated Chandigarh
the 15.06.2021

Endst. No.2/16/1997- 1Env. Dated, Chandigarh the 22.06.2021

A copy along with CAG's letter dated 13.04.2021is forwarded to the Chairman, Haryana State Pollution Control Board, C-11, Sector-6, Panchkula, Haryana for further necessary action w.r.t. their letter No. HSPCB/Accts/2021/861 dated 17.02.2021.

2. He is requested to comply all the instructions in the above said CAG's letter.

Superintendent Environment
for Additional chief Secretary to Govt. Haryana,
Environment and Climate Change Department.

Endst. No. 2/16/1997- 1Env. Dated, Chandigarh the 22.06.2021

A copy is forwarded to the Comptroller and Auditor General of India, 10, Bahadur Shah Zafar Marg, New Delhi- 110124 with reference to their letter No CA.V/CORP/HARYANA,HSPOLL(1)/1946 dated 13.04.2021, for information.

-Sd-
Superintendent Environment
for Additional Chief Secretary to Govt. Haryana,
Environment and Climate Change Department.

Annexure-Y-I

Annexure-A

Calculation Sheet of Interest paid by LIC during the Year 2017-18 @ 7.65%.

		Intt.@ 7.65%
Opening Balance (01.04.2017 to 31.03.2018)	Rs.102682445.00	Rs.7855207.00
Amount contributed (26.05.2017 to 31.03.2018)	Rs. 4611728.00	Rs. 298669.00
Total Interest paid by LIC.		Rs. 8153876.00
Less : Intt. Charged on payment made by LIC. during Year 2017-18 (As per Annexure-B)		Rs. 1897588.00
Net Intt. Paid by LIC. during the year 2017-18		**Rs.6256288.00**

Superintending Engineer
Haryana State Electricity Duct ng Board
C-11, Sector-6, Panchkula
13/02/2020

Annexure A-2

Calculation sheet of interest charged by LIC on payment made during the Year 2017-2018 (Annexure-B)

Sr. No.	annuitant_name	Date of Payment	Commutation Amount	Annuity Purchase Price	Total Amt. drawn by LIC	Intt @ 7.65%
1	Parvesh Kumar Sharma	15.06.2017	742340	4650204	5392544	326633
2	Mukesh Kumar Pathak	15.06.2017	550276	3447075	3997351	242124
3	Sh Jasbir Singh	17.06.2017	517931	3244490	3762421	226317
4	Sh Ramesh Kumar	17.06.2017	504872	3162585	3667457	220605
5	Rajender Kumar	19.06.2017	350778	2197415	2548193	152211
6	S P Verma	19.06.2017	757006	4742041	5499047	328474
7	Premi Devi	22.09.2017	0	1650185	1650186	65713.6
8	Smt Rani Karakoti	17.11.2017	520341	3293196	3813537	107103
9	Jagat Singh	21.11.2017	496836	3144330	3641166	99209.3
10	Shri V K Rana	23.01.2018	502461	3228000	3730461	52384.9
11	Anil Kumar	27.01.2018	0	474158	474158	6260.83
12	Smt Santosh Kajal	26.02.2018	0	1791762	1791762	12392.6
13	SHRI JASBIR SINGH	04.07.2017			238470	13544.8
14	SHRI RAJENDER KUMAR	18.12.2017			96906	2091.97
15	SHRI PARVESH KUMAR SHARMA	19.12.2017			239253	5164.92
16	SHRI MUKESH KUMAR PATHAK	19.12.2017			152016	3249.81
17	SHRI RAMESH KUMAR	19.12.2017			46490	1003.61
18	SHRI S.P. VERMA	19.12.2017			174270	3762.08
19	SMT. PREMI DEVI	22.12.2017			138375	2929.19
20	SMT. RANI KARAKOTI	22.12.2017			95832	2028.62
21	SHRI JAGAT SINGH	22.12.2017			68625	1452.69
22	SH ANIL KUMAR	30.01.2018			280738	3530.38
23	SHRI DEV DUTT	14.03.2018			52466	197.933
24	SHRI V.K. RANA	26.03.2018			46268	67.8809
25	Sh. Nanha Ram Gautam	01.03.2016			84354	13436.6
26	Sh. P.C. Sharma	01.09.2017			100093	4426.44
27	Sh. Tej Pal	01.03.2018			76670	482.076
28	Sh. Dev Dutt	01.03.2018			125720	790.486
			4942841	35025442	41984829	1897588

Superintendent (Estt.)
Haryana State Pollution Control Board
Panchkula

19/1/2018

Annexure-2 12/44

HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA
Website – www.hspcb.gov.in E-Mail :hspcbho@gmail.com
Ph:0172-2577870-873

NO.HSPCB/Consent-II/2018 / Dated: 13/3/18

To

The Director,
Environment Department, Haryana,
Chandigarh.

Subject: **Release of Grant-in-aid under the scheme of Eco Clubs established in the state.**

Kindly refer to Sanction order Endst. No. 3435/Sanction/2017/2245-48 dated 22.12.2017 and Memo No. DEH/2017/3431 dated 5.3.2018 on the subject noted above.

In this connection, it is intimated that an amount of Rs. 100 Lac has been received in this office for providing financial assistance to 5250 Eco Clubs in the Haryana State @ Rs. 1850/- per Eco Club which amount to Rs. 97,12,500/- and remaining amount of Rs. 2,87,500/- for organizing the State Level Eco-Club Camp.

Further, it is informed that the Board does not play any role in the matter and since Education Department is in itself a big department. The Competent Authority has desired to return the amount of Rs. 100 Lac to Environment Department, Haryana for distributing the same to Education Department directly.

In view of above, I have been directed to request you to kindly send the amount of Rs. 100 Lac to Education Department directly please.

DA/As above

Sr. Env. Engineer-II (HQ)
For Chairman

Endst. No. HSPCB/Consent-II/2018 / 3562 Dated: 13/3/18

A copy of the above is forwarded to the Sr. Accounts Officer, HSPCB Panchkula for information and necessary action. He is requested to return the amount of Rs. 100 Lac to Environment Department, Haryana as received vide their sanction order Endst. No. 3435/Sanction/2017/2245-48 dated 22.12.2017 regarding providing financial assistance to Eco Clubs in the State of Haryana.

The above said amount was received in Bank's SB A/c No 2938000120328057 HK Sahib Singh on 1-3-2018

Sr. Env. Engineer-II (HQ)
For Chairman

AGENDA ITEM NO. 191.13

BUDGET ESTIMATE OF HARYANA STATE POLLUTION CONTROL BOARD FOR THE FINANCIAL YEAR 2022-23

Scanned with CamScanner

13/1

Agenda item No. 191.13

Budget Estimate of Haryana State Pollution Control Board For the Financial year 2022-23

As required under section 38 of the Water (Prevention and Control of Pollution)Act,1974, the Board shall during the financial year, prepare its Budget in respect of the ensuing financial year, showing the estimated receipt and expenditure for forwarding the same to the State Govt.

The State Pollution Control Boards all over the country are striving to achieve the objective of pollution-free environment. The Haryana State Pollution Control Board is charged with the responsibility of prevention and control of pollution of water, air, noise, hazardous waste, biomedical waste etc. in the State. Therefore, an attempt has been made to present the Budget for the financial year 2022-23 to achieve the overall objectives as enshrined in the Water Act/Air Act and the Environment Protection Act.

Actual receipts and expenditure for the financial years 2019 - 20 , 2020-21,2021-22 (actual receipts and expenditure for the months 4/2021 to 2/2022 & estimated for 3/2022) and budget estimate for the financial year 2022-23, are as under:-

(Rs. in Crore)

FY 2019-20		FY 2020-21		FY 2021-22		BE FY 2022-23	
Actual Receipts	Actual Expen-diture	Actual Receipts	Actual Expen-diture	Receipts (4/2021 to 2/2022 Actual & 3/2022 Estimated)	Expenditure	Receipts	Expen-diture
80.83	62.04	91.74	75.31	83.11 + 7.25 = 90.36	39.17 + 14.94 = 54.11	98.14	101.66
-	-	91.86 (IT Refund)	-	15.48 (IT Refund)	-	-	-
80.83	62.04	183.60	75.31	105.84	54.11	98.14	101.66

As per above detail, budget estimate for the year 2022-23 is Rs.101.66 Crore against the estimated receipt Rs. 98.14 Crore. The actual excess expenditure, if any, during the financial year 2022-23 will be met out from the Board's surplus fund. The details of receipts and expenditure is at **Annexure A, B & Form F.**

The budget estimate for the financial year 2022-23 is placed before the Board of Directors for consideration and approval.

13/02

Budget Estimate of the Haryana State Pollution Control Board for the financial year 2022-23

***

(a) **Receipt Head:-** The actual receipt during the year 2020-21 was Rs. 183.60 Crore. In the year 2021-22, actual receipt is Rs. 98.59 Crore for the months 4/ 2021 to 2/ 2022 & for the month 3/2022, Rs. 7.25 Crore of receipt has been estimated. As such, the total receipt during the financial year 2021-22 is estimated to be Rs.105.84 Crore.

During the financial year 2022-23, the estimated receipt is Rs.98.14 Crore, out of which the receipt on account of consent fee (Water & Air) is estimated to be Rs.46.70 Crore (Consent Fee under Water Act, 1974 of Rs.24.70 Crore & Consent Fee under Air Act, 1981 of Rs.22.00 Crore) Similarly, receipt on account of appeals/authorizations/public hearings/NOC Fee is anticipated as Rs 7.28 Crore. The details of estimated receipt are given in **Annexure-A.**

(b) **Expenditure Head:-** A provision of Rs.101.66 Crore has been made under the expenditure head for the financial year 2022-23. The main constituents of expenditure are as follows:-

Salaries:- An amount of Rs.30.80 Crore has been provided for financial year 2022-23, as against actual expenditure of Rs.29.49 Crore during the year2021-22.

The Detail of estimated expenditure is given in **Annexure-B**

Rupees in Crores

Salaries							
2019-20		2020-21		2021-22		2022-23(Estimated)	
Employees	Expen-diture	Employees	Expen-diture	Employees	Expen-diture	Employees	Expen-diture
418	29.45	416	31.07	426	29.49	426	30.80

c) **Strengthening of existing laboratories and setting up of additional laboratories**

The Board is considering a proposal for strengthening of existing laboratories at Panchkula, Hisar, Faridabad and Gurugram, by way of purchase of equipments/instruments during the financial year 2022-23 and a budget provision of Rs.5.00 Crore is being made for the same.

d) **Advertisement and Publicity**

The State Govt. has issued notification dated 1.4.2010 to impose complete ban on plastic carry bags and Govt. of India has recently amended Plastic Waste Management Rules, 2016.The provisions of these notifications are required to be given wide publicity through print and electronic media. Further, the Board has framed a scheme for institution of awards for best performing blocks for non-burning of crop residue. This scheme needs to be given wide

publicity through Radio Jingles, Doordarshan etc. Besides this, the Board is contemplating to celebrate all important days of the environment calendar like World Earth Day, World Environment Day, World Ozone Day etc.

The Board has incurred expenditure of Rs.0.77 Crore for the months 4/2021 to 2/2022 & Rs. 0.20 Crore is expected to be incurred during month the 3/2022, against the proposed budget of Rs.2.50 Crore for the purpose of advertisements and publicity to create awareness amongst the general public on the subjects of abatement of pollution and betterment of environment. A budget provision of Rs.2.00 Crore is being made for the financial year 2022-23.

e) Seminars, Workshops & Training

The Board is deputing its officers to attend various seminars/workshops/training on the subjects of pollution control and environment. An amount of Rs.0.46 Crore was incurred during the month 4/2021 to 2/2022 and Rs. 0.15 Crore (approximate) is expected to be incurred in the month 3/2022.

A provision of Rs. 1.00 Crore is being made in the budget for the financial year 2022-23 for imparting training to the officers of the Board and other stake holders working in the field of pollution control & environment.

f) Research & Development

The Board is monitoring the crop residue burning through HARSAC and expenditure to the tune of Rs.0.07 Crore was incurred during the month 4/21 to 2/22 and Rs. 0.25 Crore (approximate) is expected to be incurred in the month 3/ 2022. A provision of Rs. 2.00 Crore is being made in the budget for the financial year 2022-23 for under taking research & development activities that may help to control pollution.

g) Construction of Residential Complex for the Board's employees /Purchase of Plot/construction of Building for Regional offices

The Board has approved the construction of residential complex for the employees of the Board in Sector-23, Panchkula vide Agenda Item no. 130.7. HUDA has allotted 1.5 acres of land for the said construction of residential complex. Now, the construction work of the residential complex has been completed by the HSAMB and the possession is due to be taken from HSAMB. An amount of Rs.32.68 Crore has so far been released to the HSAMB.

The Board has its own office buildings at Ballabgarh/Faridabad, Hisar, Panipat,

13/04

Yamuna Nagar. Plots for office buildings have been purchased at Sonepat, Bahadurgarh, Panipat & Gurugram (South). Plots for office buildings at Ambala, Bhiwani, Dharuhera, Panchkula, Kurukshetra, Kaithal, Karnal, Palwal & Gurugram (North) are to be purchased. As such a budget provision of Rs.28.00 Crore is being made for the financial year 2022-23.

***

13/05

Estimate Budget provision of Haryana State Pollution Control Board for the Financial Year 2022-23

Receipts

(Rs. In Crore)

	SUMMARY	Actual Receipt F.Y 2019-20	Actual Receipt F.Y 2020-21	Actual Receipt F.Y. 2021-22 (4/2021 to 2/2022)	Proposed Receipt F.Y 2021-22 (3/2022)	Total F.Y 2021-22	Proposed F.Y. 2022-23	Remarks
1	Board Receipts.	78.23	90.94	78.35	6.58	84.93	95.78	Annexure-A
2	Cess Receipts (from G.O.I.)	2.60	0.80	0.36	0.03	0.39	0.00	Annexure-A
3	Refund from Income Tax Department	0.00	91.86	15.48	0.00	15.48	0.00	Annexure-A
4	Grant-in Aid from CPCB 5 Continuous Ambeint Air Quality Monitoring Station (CAAQMS)	0.00	0.00	0.00	0.00	0.00	2.36	Annexure-A
5	Grant-in Aid from CPCB Expension of Real Time Ambient Noise Network indentified Cities	0.00	0.00	0.00	0.64	0.64	0.00	Annexure-A
6	Grant-in Aid from CPCB Grant in Aid (General) control of pollution	0.00	0.00	4.40	0.00	4.40	0.00	Annexure-A
	Total (1 to 6)	80.83	183.60	98.59	7.25	105.84	98.14	
	Excess expenditure over income	-	-	-	7.69	-	3.52	
	Excess income over expenditure	18.79	108.29	59.42	-	51.73	-	

Expenditure

	SUMMARY	Actual Expenditure F.Y 2019-20	Actual Expenditure F.Y 2020-21	Actual Expenditure F.Y 2021-22 (4/2021 to 2/2022)	Proposed Expenditure F.Y 2021-22 (3/2022)	Total F.Y 2021-22	Proposed F.Y 2022-23	Remarks
1	Salaries	29.45	31.07	25.74	3.75	29.49	30.80	Annexure-B
2	Office Expenses	7.23	9.91	6.55	4.25	10.80	22.25	Annexure-B
3	Loans & Advances	0.01	0.04	0.04	0.00	0.04	0.05	Annexure-B
4	Income Tax	9.00	7.00	0.00	0.00	0.00	0.50	Annexure-B
5	Strenghling of existing Lab, Air quality Monitoring & other Capital Exp	16.35	27.29	6.84	6.94	13.78	48.06	Annexure-B
	Total (1 to5)	62.04	75.31	39.17	14.94	54.11	101.66	

Note :- The excess expenditure if any during the fianacial year 2022-23 will be met out from the Board's surplus fund

ANNEXURE-A 13/06

FORM 'F'

(See Rule 24(3)

Head of Account Receipts/ Income							(Rs. In Crore)
Sr. No.	Head of Account	Actual Receipts F.Y 2019-20	Actual Receipts F.Y 2020-21	Actual Receipts F.Y 2021-22 (04/2021 to 02/2022)	Proposed Receipt F.Y 2021-22 (3/2022)	Total Receipt F.Y 2021-22	Proposed B.E F.Y 2022-23
1	2	3	4	5	6	7	8
1	Samples Testing Fee (Air & Water)	1.12	1.61	1.21	0.50	1.71	1.80
2	Consent Fee (Water Act, 1974)	15.29	21.63	14.28	1.50	15.78	24.70
3	Consent Fee (Air Act, 1981)	17.89	25.95	17.72	1.60	19.32	22.00
4	CTE (NOC Fees)	4.80	4.79	3.86	0.24	4.10	4.90
5	Public Hearing	0.09	0.28	0.25	0.12	0.37	0.38
6	Forfeiture of performace security	0.26	0.53	0.38	0.12	0.50	0.00
7	Authorisation fee/Recognition fee/Apeal fee/Right to Information fee/Sound Pollution/Noise Monitoring fees etc.	0.31	0.77	0.71	0.50	1.21	2.00
8	Cess Receipts (from G.O.I.)	2.60	0.80	0.36	0.03	0.39	0.00
9	Interest on fixed /saving deposits	38.47	35.38	39.94	2.00	41.94	40.00
10	Refund of Income Tax	0.00	91.86	15.48	0.00	15.48	0.00
11	Grant in Aid from CPCB 5 Continuous Ambeint Air Quality Monitoring Station (CAAQMS)	0.00	0.00	0.00	0.00	0.00	2.36
12	Grant in Aid from CPCB Expenstion of Real Time Ambient Noise Network in Identified Cities	0.00	0.00	0.00	0.64	0.64	0.00
13	Grant in Aid from CPCB Grant in Aid (General) control of pollution	0.00	0.00	4.40	0.00	4.40	0.00
	Total (Sr. No. 1 to 13)	**80.83**	**183.60**	**98.59**	**7.25**	**105.84**	**98.14**

Annexure 'B'

13/07

FORM'F'

{See Rule 24(3)(i)}

Budget and Account Heads

Administration

(Rs.in Crore)

Head of Account(Expenditure)							
Sr. No.	Head of Account	Actual Expenditure F.Y 2019-20	Actual Expenditure F.Y 2020- 21	Actual Expenditure F.Y 2021-22 (4/2021 to 02/2022)	Proposed Expenditure F.Y 2021-22 (3/2022)	Total F.Y 2021-22	Proposed B.E F.Y 2022-23
1	2	3	4	5	6	7	8
1	SALARIES						
i)	Pay and Allowances	28.95	30.83	25.25	3.50	28.75	30.00
ii)	Medical Expenses	0.24	0.19	0.41	0.15	0.56	0.60
iii)	Travelling Allowance	0.26	0.05	0.08	0.10	0.18	0.20
	Sub Total =	29.45	31.07	25.74	3.75	29.49	30.80
2	OFFICE EXPENSES						
i)	Office Expenses	7.23	9.91	6.55	4.25	10.80	22.25
ii)	Legal Expenses	0.53	0.52	0.31	0.18	0.49	0.65
iii)	Furniture and fixture	0.53	0.09	0.02	0.02	0.04	0.50
iv)	Machinery and Equipments	0.05	0.08	0.05	0.05	0.10	0.53
v)	Computerisation of Office	0.20	0.53	0.21	0.15	0.36	1.00
vi)	Purchase of Vehicles	0.00	0.00	0.00	0.02	0.02	2.00
vii)	Income Tax	9.00	7.00	0.00	0.00	0.00	0.50
viii)	Strengthening of existing laboratory and setting up of additional laboratory	0.22	0.37	0.00	0.00	0.00	5.00
ix)	Purchase of CAAQMS	0.60	2.78	0.88	0.00	0.88	0.00
x)	Equipment for Ambient Air Monitoring & stack monitoring Kit	0.00	0.00	0.00	0.00	0.00	2.00
xi)	Development /Extension Activities (advertisement publicity on environment awareness, research & development, Seminar training)	1.07	1.07	1.30	0.60	1.90	5.00
xii)	Financial Assistance for Environmental Improvement Projects.(installation of treatment plant, common effluent treatment plants third party audit of CBWTF's)	0.00	0.00	0.00	0.00	0.00	0.25
xiii)	Grant-in-Aid from CPCB Expenstion of Real Time Ambient Noise Network in Identified Cities	0.00	0.00	0.00	0.00	0.00	0.64
xiv)	Grant-in-Aid from CPCB Grant in Aid (General) control of pollution	0.00	0.00	0.00	1.91	1.91	2.49
xv)	Construction of Residential Complex for the Board's employees /Purchase of Plot/construction of Buildings for Regional offices	12.65	21.85	4.07	4.00	8.07	28.00
	Sub Total (office expenses) =	32.08	44.20	13.39	11.18	24.57	70.81

3	LOANS AND ADVANCES						
i)	Loans and Advances to Staff	0.01	0.04	0.04	0.01	0.05	0.05
	Sub Total(Loans and Advances) =	0.01	0.04	0.04	0.01	0.05	0.05
4	CM Relief Fund (Donation)	0.50	0.00	0.00	0.00	0.00	0.00
	Grand Total(1 to 4) =	**62.04**	**75.31**	**39.17**	**14.94**	**54.11**	**101.66**

CM6

13/09

FORM'F'
[See Rule 24(3)(ii)]
Budget and Account Heads
Administration

Head of Account(Expenditure)							(Rs. In Crore)
Sr. No.	Head of Account	Actual Expenditure F.Y 2019-20	Actual Expenditure F.Y 2020-21	Actual Expenditure F.Y 2021-22 (4/2021 to 02/2022)	Proposed Expenditure F.Y 2021-22 (3/2022)	Total F.Y 2021-22	Proposed B.E F.Y 2022-23
1	2	3	4	5	6	7	8
1	Salaries						
i)	Pay and Allowances	28.95	30.83	25.25	3.50	28.75	30.00
ii)	Medical Expenses	0.24	0.19	0.41	0.15	0.56	0.60
iii)	Travelling Allowance	0.26	0.05	0.08	0.10	0.18	0.20
	Sub Total	29.45	31.07	25.74	3.75	29.49	30.80
2	Office Expenses						
i)	Rent, Rates & Taxes	0.42	0.73	0.69	0.15	0.84	0.90
ii)	Water & Electricity	0.52	0.48	0.33	0.15	0.48	1.00
iii)	Postage & Telegram	0.09	0.13	0.05	0.05	0.10	0.20
iv)	Telephone / Mobile expenses	0.12	0.12	0.09	0.10	0.19	0.40
v)	Printing & Stationery	0.26	0.32	0.15	0.10	0.25	0.50
vi)	Liveries	0.01	0.00	0.00	0.00	0.00	0.00
vii)	News Paper & Magazines/ Library Books	0.05	0.02	0.01	0.04	0.05	0.06
viii)	Insurance of vehical	0.03	0.01	0.02	0.01	0.03	0.05
ix)	Hospitality Expenses	0.10	0.06	0.06	0.01	0.07	0.08
x)	Professional Charges	0.20	0.41	0.42	0.15	0.57	0.60
xi)	POL for Vehicles	0.50	0.46	0.35	0.05	0.40	0.50
xii)	Hiring of Taxies expenses	1.88	1.25	1.15	0.61	1.76	1.80
xiii)	R & M of Vehicles	0.15	0.12	0.10	0.01	0.11	0.50
xiv)	Repair & Maintenance of office Building	0.08	0.02	0.02	0.02	0.04	5.00
xv)	Operation & Maintainence of CAAQMS	0.85	3.83	1.21	2.00	3.21	6.79
xvi)	Repair & Maint. of others	0.06	0.80	0.80	0.20	1.00	1.00
xvii)	Misc. office expenses	0.32	0.61	0.51	0.40	0.91	1.00
xviii)	Computer Expenses	0.16	0.28	0.44	0.16	0.60	0.67
xix)	Geographical information system(GIS Cell)	0.03	0.09	0.09	0.00	0.09	0.08
xx)	NIC Payment (Software Development)	0.03	0.05	0.06	0.04	0.10	0.12
xxi)	Engagement of project Management Unit for process improvement & strategic road map for	1.37	0.12	0.00	0.00	0.00	1.00
	Sub Total	7.23	9.91	6.55	4.25	10.80	22.25
xxii)	Legal Expenses	0.53	0.52	0.31	0.18	0.49	0.65
xxiii)	Furniture and Fixture	0.53	0.10	0.02	0.02	0.04	0.50
xxiv)	Machinery & Equipments	0.05	0.08	0.05	0.05	0.10	0.53
xxv)	Income Tax	9.00	7.00	0.00	0.00	0.00	0.50
xxvi)	Computerisation of Office	0.20	0.53	0.21	0.15	0.36	1.00
xxvii)	Purchase of Vehicles	0.00	0.00	0.00	0.02	0.02	2.00

13/10

3	Strengthening of existing laboratory and setting up of additional laboratory	0.22	0.37	0.00	0.00	0.00	5.00
i)	Purchase of CAAQMS	0.60	2.78	0.88	0.00	0.88	0.00
4	Equipment for Ambient Air Quality monitoring stations	0.00	0.00	0.00	0.00	0.00	2.00
5	Development / Extension Activities						
i)	Advertisement & Publicity	0.51	0.62	0.77	0.20	0.97	2.00
ii)	Seminars/Workshops/ Training	0.22	0.14	0.46	0.15	0.61	1.00
iii)	Research & Development Project, Reports and Studies	0.34	0.31	0.07	0.25	0.32	2.00
6	Financial Assistance for Environmental ImprovementProjects (Installation of Sewage Treatment Plants and Common Efluent Treatment Plant)	0.00	0.00	0.00	0.00	0.00	0.25
	Sub Total	12.20	12.45	2.77	1.02	3.79	17.43
7	Grant-in-Aid from CPCB Expenstion of Real Time Ambient Noise Network in Identified Cities	0.00	0.00	0.00	0.00	0.00	0.64
8	Grant-in-Aid from CPCB Grant in Aid (General) control of pollution	0.00	0.00	0.00	1.91	1.91	2.49
9	Construction of Residential Complex for the Board's employees /Purchase of Plot/construction of	12.65	21.85	4.07	4.00	8.07	28.00
	Sub Total	12.65	21.85	4.07	5.91	9.98	31.13
10	LOANS AND ADVANCES						
i)	Marriage Advance	0.00	0.00	0.02	0.00	0.02	0.02
ii)	W heat Advance	0.01	0.00	0.01	0.01	0.02	0.02
iii)	Festival Advance.	0.00	0.03	0.01	0.00	0.01	0.01
	Sub Total =	0.01	0.03	0.04	0.01	0.05	0.05
	CM Relief Fund (Donation)	0.50	0.00	0.00	0.00	0.00	0.00
	Grand Total	**62.04**	**75.31**	**39.17**	**14.94**	**54.11**	**101.66**

(Figure in Rs.)

FORM-E (PART-II)

HARYANA STATE POLLUTION CONTROL BOARD, PANCHKULA

ESTABLISHMENT

Statement of details of provision proposed for pay of Technical/Scientific Staff for the year 2022-23

Sr.No.	Name and Designation		Total Filled up Posts	Pay Matrix Level	Scale/FPL	Basics Pay 01.04.2022	DA @31%	HRA	Medical	Total	Provision for Year till increment Date	Date of Increment (a)	Amount of Increment @3% of the col (c)	D.A @31%	HRA	Medical	Provision for the Year After Increment Date (Amount in Rupees)	Total For the Year (18+14) (BP+DA+Medical)
	1		2	3	4	5	6	7	8	9	10	11	12	13			14	15
	1. Sr. ENV. ENGINEER		6															
1	Sh. Jatinder Pal Singh			FPL-14	118500-207800	130600	40486	20896	1000	192982	578946	01.07.22	134518	41701	21523	1000	1788673	2367619
2	Sh.Satinder Pal				118500-207800	130600	40486	20896	1000	192982	578946	01.07.22	134518	41701	21523	1000	1788673	2367619
3	Sh.Sanjeev Kumar Budhiaraja				118500-207800	130600	40486	20896	1000	192982	578946	01.07.22	134518	41701	21523	1000	1788673	2367619
4	Sh.Naveen Gulia				118500-207800	130600	40486	20896	1000	192982	578946	01.07.22	134518	41701	21523	1000	1788673	2367619
5	Sh.Balraj Singh				118500-207800	130600	40486	20896	1000	192982	578946	01.07.22	134518	41701	21523	1000	1788673	2367619
6	Sh.Bhupender Singh				118500-207800	134500	41695	21520	1000	198715	1788435	01.01.23	138535	42946	22166	1000	613939	2402374
	2. ENV. ENGINEER		17	FPL-11	67700-191000													
1	Sh.Rakesh Kumar Bhosle					108800	33728	17408	1000	160936	482808	01.07.22	112064	34740	17930	1000	1491607	1974415
2	Smt. Poonam Langayan					93800	29078	15008	1000	138886	416658	01.07.22	96614	29950	15458	1000	1287203	1703861
3	Smt.Smita Kanodia					93800	29078	15008	1000	138886	416658	01.07.22	96614	29950	15458	1000	1287203	1703861
4	Sh.Dinesh Kumar					93800	29078	15008	1000	138886	416658	01.07.22	96614	29950	15458	1000	1287203	1703861
5	Sh.Shakti singh					93800	29078	15008	1000	138886	416658	01.07.22	96614	29950	15458	1000	1287203	1703861
6	Sh.Bhupinder Chahal					91100	28241	14576	1000	134917	404751	01.07.22	93833	29088	15013	1000	1250411	1655162
7	Sh.Nirmal Kumar					93800	29078	15008	1000	138886	416658	01.07.22	96614	29950	15458	1000	1287203	1703861
8	Sh. Kamaljit Singh					93800	29078	15008	1000	138886	416658	01.07.22	96614	29950	15458	1000	1287203	1703861
9	Sh.Sandeep Singh					93800	29078	15008	1000	138886	416658	01.07.22	96614	29950	15458	1000	1287203	1703861
10	Sh.Nitin Mehta					93800	29078	15008	1000	138886	416658	01.07.22	96614	29950	15458	1000	1287203	1703861

11	Sh.Virender Singh Punia					93800	29078	15008	1000	138886	416658	01.07.22	96614	29950	15458	1000	1287203	1703861
12	Sh.Vijay Chaudhary					83300	25823	13328	1000	123451	370353	01.07.22	85799	26598	13728	1000	1144121	1514474
13	Sh.Dinesh Yadav					91100	28241	14576	1000	134917	404751	01.07.22	93833	29088	15013	1000	1250411	1655162
14	Sh.Kuldeep Singh					88400	27404	14144	1000	130948	392844	01.07.22	91052	28226	14568	1000	1213618	1606462
15	Sh.Shalender Arora					93800	29078	15008	1000	138886	416658	01.07.22	96614	29950	15458	1000	1287203	1703861
16	Sh.Rajinder Sharma					93800	29078	15008	1000	138886	416658	01.07.22	96614	29950	15458	1000	1287203	1703861
17	Sh.Vinay Gautam					83300	25823	13328	1000	123451	370353	01.07.22	85799	26598	13728	1000	1144121	1514474
	3. SCIENTIST 'B'		13	FPL-09	53100-167800													
1	Sh.Apamesh Kumar					59700	18507	9552	1000	88759	798831	01.07.22	61491	19062	9839	1000	274175	1073006
2	Sh.Narender Hooda					58000	17980	9280	1000	86260	258780	01.07.22	59740	18519	9558	1000	799360	1058140
3	Sh.Neeraj Bala					53100	16461	8496	1000	79057	237171	01.07.22	54693	16955	8751	1000	732588	969759
4	Sh. Sukh Ram					58000	17980	9280	1000	86260	258780	01.07.22	59740	18519	9558	1000	799360	1058140
5	Sh.Vikas Grewal					59700	18507	9552	1000	88759	798831	01.01.23	61491	19062	9839	1000	274175	1073006
6	Sh.Sunil Kumar Sheoran					65200	20212	10432	1000	96844	871596	01.07.22	67156	20818	10745	1000	299158	1170754
7	Smt.Pinki					65200	20212	10432	1000	96844	290532	01.07.22	67156	20818	10745	1000	897474	1188006
8	Dr.Monika					65200	20212	10432	1000	96844	290532	01.07.22	67156	20818	10745	1000	897474	1188006
9	Dr. Kirti					65200	20212	10432	1000	96844	290532	01.07.22	67156	20818	10745	1000	897474	1188006
10	Sh.RamNiwas Sharma					61500	19065	9840	1000	91405	274215	01.07.22	63345	19637	10135	1000	847054	1121269
11	Sh. Piyush Kumar					53100	16461	8496	1000	79057	237171	01.07.22	54693	16955	8751	1000	732588	969759
12	Sh. Ravinder Singh					53100	16461	8496	1000	79057	237171	01.07.22	54693	16955	8751	1000	732588	969759
13	Sh. Shivendra Singh					53100	16461	8496	1000	79057	237171	01.07.22	54693	16955	8751	1000	732588	969759
	4. ASSTT. ENV. ENGINEER		36	FPL-09	53100-167800													
1	Sh.Vinay Singh Gill					71300	22103	11408	1000	105811	317433	01.07.22	73439	22766	11750	1000	980598	1296031
2	Sh.Mohit Kumar Mudgil					63300	19623	10128	1000	94051	282153	01.07.22	65199	20212	10432	1000	871593	1153736
3	Sh.Navneet					61500	19065	9840	1000	91405	274215	01.07.22	63345	19637	10135	1000	847054	1121269
4	Sh.Naresh Kumar					63300	19623	10128	1000	94051	282153	01.07.22	65199	20212	10432	1000	871583	1153736

5	Sh.Ravinder Yadav					61500	19065	9840	1000	91405	822645	01.01.23	63345	19637	10135	1000	282351	1104996
6	Sh.Sanjiv Kumar					59700	18507	9552	1000	88759	266277	01.07.22	61491	19062	9839	1000	822526	1088803
7	Sh.Sachin Kumar					61500	19065	9840	1000	91405	822645	01.01.23	63345	19637	10135	1000	282351	1104996
8	Sh.Rajinder Singh Bhati					59700	18507	9552	1000	88759	798831	01.01.23	61491	19062	9839	1000	274175	1073006
9	Sh.Ombir Singh Bajwan					56300	17453	9008	1000	83761	251283	01.07.22	57989	17977	9278	1000	776194	1027477
10	Sh.Ajay Singh					65200	20212	10432	1000	96844	290532	01.07.22	67156	20818	10745	1000	897474	1188006
11	Smt.Akansha Tanwar					65200	20212	10432	1000	96844	290532	01.07.22	67156	20818	10745	1000	897474	1188006
12	Sh. Ashwani					65200	20212	10432	1000	96844	290532	01.07.22	67156	20818	10745	1000	897474	1188006
13	Smt.Neha Saharan					65200	20212	10432	1000	96844	290532	01.07.22	67156	20818	10745	1000	897474	1188006
14	Sh.Nipun Gupta					65200	20212	10432	1000	96844	290532	01.07.22	67156	20818	10745	1000	897474	1188006
15	Sh.Pardeep Singh					65200	20212	10432	1000	96844	290532	01.07.22	67156	20818	10745	1000	897474	1188006
16	Sh.Vipin Kumar					65200	20212	10432	1000	96844	290532	01.07.22	67156	20818	10745	1000	897474	1188006
17	Sh. Vikas Chand					65200	20212	10432	1000	96844	290532	01.07.22	67156	20818	10745	1000	897474	1188006
18	Sh.Harish Kumar					65200	20212	10432	1000	96844	290532	01.07.22	67156	20818	10745	1000	897474	1188006
19	Sh. Sidharth Bhargava					77500	24025	12400	1000	114925	1034325	01.01.23	79825	24746	12772	1000	355028	1389353
20	Sh.Randeep Sindhu					56300	17453	9008	1000	83761	251283	01.07.22	57989	17977	9278	1000	776194	1027477
21	Sh.Amit					56300	17453	9008	1000	83761	251283	01.07.22	57989	17977	9278	1000	776194	1027477
22	Sh.Amit F/o Sh.Raj Singh					56300	17453	9008	1000	83761	251283	01.07.22	57989	17977	9278	1000	776194	1027477
23	Sh.Abhijeet Singh Tanwar					56300	17453	9008	1000	83761	251283	01.07.22	57989	17977	9278	1000	776194	1027477
24	Sh.Anuj Narwal					56300	17453	9008	1000	83761	251283	01.07.22	57989	17977	9278	1000	776194	1027477
25	Sh.Divyansh Krishna					56300	17453	9008	1000	83761	251283	01.07.22	57989	17977	9278	1000	776194	1027477
26	Sh.Divyanshu					56300	17453	9008	1000	83761	251283	01.07.22	57989	17977	9278	1000	776194	1027477
27	Sh.Hardik Siroha					56300	17453	9008	1000	83761	251283	01.07.22	57989	17977	9278	1000	776194	1027477
28	Sh.Kapil Singh					56300	17453	9008	1000	83761	251283	01.07.22	57989	17977	9278	1000	776194	1027477
29	Sh.Kuldeep Singh					56300	17453	9008	1000	83761	251283	01.07.22	57989	17977	9278	1000	776194	1027477
30	Sh.Manish Yadav					56300	17453	9008	1000	83761	251283	01.07.22	57989	17977	9278	1000	776194	1027477
31	Sh.Ujjwal					56300	17453	9008	1000	83761	251283	01.07.22	57989	17977	9278	1000	776194	1027477
32	Sh. Ajay Ahalawat					56300	17453	9008	1000	83761	251283	01.07.22	57989	17977	9278	1000	776194	1027477
33	Sh.Parveen Kumar					59700	18507	9552	1000	88759	266277	01.07.22	61491	19062	9839	1000	822526	1088803
						69700	21607	11152	1000	103459	310377	01.07.22	71791	22255	11487	1000	956795	1269172

34	Sh. Sudhir Mohan					69700	21607	11152	1000	103459	310377	01.07.22	71791	22255	11487	1000	958795	1269172
35	Dr.Vishal Arora					83600	25916	13376	1000	123892	371676	01.07.22	86109	26693	13777	1000	1148209	1519885
36	Sh. Deepak Rana					65200	20212	10432	1000	96844	290532	01.07.22	67156	20818	10745	1000	897474	1188006
	5. JUNIOR ENV. ENGINEER		1	FPL-06	35400-112400													
1	Sh. Vikash Kumar					50500	15655	8080	1000	75235	225705	01.07.22	52015	16125	8322	1000	697158	922863
	6. LAB. ATTENDANT		2	FPL-02	19900-63200													
1	Sh.Veer Chand					31100	9641	4976	1000	46717	420453	01.01.23	32033	9930	5125	1000	144266	564719
2	Sh. Sajjan Singh					30200	9362	4832	1000	45394	408546	01.01.23	31106	9643	4977	1000	140177	546723
	7. FIELD ATTENDENT		7		16900-53500													
1	Sh.Ram Phal					38400	11904	6144	1000	57448	172344	01.07.22	39552	12261	6328	1000	532273	704617
2	Sh.Umed Singh					38400	11904	6144	1000	57448	172344	01.07.22	39552	12261	6328	1000	532273	704617
3	Sh.Pawan Sharma					28000	8680	4480	1000	42160	126480	01.07.22	28840	8940	4614	1000	390553	517033
4	Sh.Sandeep Kumar					18400	5704	2944	1000	28048	252432	01.01.23	18952	5875	3032	1000	86578	339010
5	Sh.Kuldeep					17900	5549	2864	1000	27313	81939	01.07.22	18437	5715	2950	1000	252922	334861
6	Sh.Ankush					17900	5549	2864	1000	27313	81939	01.07.22	18437	5715	2950	1000	252922	334861
7	Sh.Rupinder Singh					17900	5549	2864	1000	27313	81939	01.07.22	18437	5715	2950	1000	252922	334861
	TOTAL		**82**			**5670000**	**1757700**	**907200**	**82000**	**8416900**	**31129080**		**5840100**	**1810431**	**934416**	**82000**	**71949772**	**103078852**

FORM-E (PART-II) (Figure in Rs.)

HARYANA STATE POLLUTION CONTROL BOARD, PANCHKULA

ESTABLISHMENT

Statement of details of provision proposed for pay of Ministerial Staff for the year 2022-23

Sr.No.	Name and Designation	Total Filled up Post	Pay Matrix Level	Scale/FPL	Basics Pay 01.04.2022	DA @31%	HRA	Medical	Total	Provision for Year till Increment Date	Date of Increment	Amount of Increment @3% of the col	DA @31%	HRA	Medical	Provision for the Year After Increment Date	Total For the Year (10+14) (BP+DA+Medical)
	1	2	3	4	5	6	7	8	9	10	(a)	(c)				(Amount in Rupees)	
	1.CHAIRMAN	1	AISL-17	225000(Fixed)-112500(Pension)							11	12	13			14	15
1	Sh.P.Raghavendra Rao, I.A.S Retd				112500	34875	36000	-	183375	2200500	-	-	-	-	-	-	2200500
	2. MEMBER SECRETARY	1	AISL-15	188200-224100													
1	Sh.S. Narayanan, I.F.S				199100	61721	-	-	260821	782463	01.07.22	205073	63573	-	-	2417811	3200274
	3. SR.ACCOUNTS OFFICER	1	FPL-11	67700-191000													
1	Sh.Mohan Singh				88400	27404	14144	1000	130948	392844	01.07.22	91052	28226	14568	1000	1213618	1606462
	4. DISTRICT ATTORNEY	1	FPL-12	78800-197200													
1	Sh. Satbir Singh				94100	29171	15056	1000	139327	417981	01.07.22	96923	30046	15508	1000	1291291	1709272
	5. P.S. to CHAIRMAN	1	FPL-11	44900-142400													
1	Sh. Hukam Chand				47600	14756	7616	1000	70972	212916	01.07.22	49028	15199	7844	1000	657640	870556
	6.SUPERINTENDENT	3	FPL-07	44900-142400													
1	Smt. Rakhi Sharma				54100	19871	10256	1000	95227	857043	01.01.23	66023	20467	10564	1000	294161	1151204
2	Sh. Sandeep Sharma				70000	21700	11200	1000	103900	311700	01.07.22	72100	22351	11536	1000	962883	1274583
3	Sh.Nafe Singh				50500	15655	8080	1000	75235	225705	01.07.22	52015	16125	8322	1000	697158	922863
	7. DY. SUPDT.	2	FPL-06	35400-112400													

1	Smt. Poonam Sharma					46200	14322	7392	1000	68914	206742	01.07.22	47586	14752	7614	1000	638563	845305
2	Sh.Yogesh Yadav					43600	13516	6976	1000	65092	195276	01.07.22	44908	13921	7185	1000	603133	798409
	8.ASSTT.DISTT.ATTORNEY		2	FPL-09	53100-167800													
1	Sh. Sudhir Sindhar					78500	24335	12560	1000	116395	349185	01.07.22	80855	25065	12937	1000	1078712	1427897
2	Smt.Meenakshi Bhardwaj					63300	19623	10128	1000	94051	282153	01.07.22	65199	20212	10432	1000	871583	1153736
	9. Law Officer		1	FPL-09	53100-167800													
1	Sh. Paramjit Singh					80900	25079	12944	1000	119923	359769	01.07.22	83327	25831	13332	1000	1111416	1471185
	10.Adminstrative Officer		1	FPL-09	53100-167800													
1	Sh.Jasbir Singh					75600	23436	12096	1000	112132	336396	01.07.22	77868	24139	12459	1000	1039194	1375590
	11. ASSISTANT		10	FPL-06	35400-112400													
1	Sh.Tara Chand					41100	12741	6576	1000	61417	184251	01.07.22	42333	13123	6773	1000	569068	753317
2	Smt.Sumitra Devi					39900	12369	6384	1000	59653	178959	01.07.22	41097	12740	6576	1000	552713	731672
3	Smt.Saroj Bala					39900	12369	6384	1000	59653	178959	01.07.22	41097	12740	6576	1000	552713	731672
4	Sh.Sudershan					39900	12369	6384	1000	59653	178959	01.07.22	41097	12740	6576	1000	552713	731672
5	Sh.Jai Parkash Parihar					39900	12369	6384	1000	59653	178959	01.07.22	41097	12740	6576	1000	552713	731672
6	Sh.Thakur Lal					39900	12369	6384	1000	59653	178959	01.07.22	41097	12740	6576	1000	552713	731672
7	Sh.Sanjay Kumar					39900	12369	6384	1000	59653	178959	01.07.22	41097	12740	6576	1000	552713	731672
8	Sh. Vidya Parkash					39900	12369	6384	1000	59653	178959	01.07.22	41097	12740	6576	1000	552713	731672
9	Sh. Shambhu Parshad					39900	12369	6384	1000	59653	178959	01.07.22	41097	12740	6576	1000	552713	731672
10	Sh.Pawan Kumar					39900	12369	6384	1000	59653	178959	01.07.22	41097	12740	6576	1000	552713	731672
	12. STENO TYPIST		1	FPL-2	19900-63200													
1	Smt. Rekha Rahi					43500	13485	6960	1000	64945	194835	01.07.22	44805	13890	7169	1000	601770	796605
	13. CLERKS		10		19900-63200													
1	Sh.Pardeep Kumar					33000	10230	5280	1000	49510	148530	01.07.22	33990	10537	5438	1000	458688	607218

2	Smt.Divya Joshi					24500	7595	3920	1000	37015	111045	01.07.22	25235	7823	4038	1000	342859	453904
3	Smt. Rani Bhatnagar					24500	7595	3920	1000	37015	111045	01.07.22	25235	7823	4038	1000	342859	453904
4	Ms. Bhawna Dhiman					24500	7595	3920	1000	37015	111045	01.07.22	25235	7823	4038	1000	342859	453904
5	Sh.Surender Kumar Yadav					24500	7595	3920	1000	37015	111045	01.07.22	25235	7823	4038	1000	342859	453904
6	Sh. Sandeep Sharma					24500	7595	3920	1000	37015	111045	01.07.22	25235	7823	4038	1000	342859	453904
7	Smt. Kiran Sharma					24500	7595	3920	1000	37015	111045	01.07.22	25235	7823	4038	1000	342859	453904
8	Smt. Monika Rawat					24500	7595	3920	1000	37015	111045	01.07.22	25235	7823	4038	1000	342859	453904
9	Sh. Sunil Kumar					24500	7595	3920	1000	37015	111045	01.07.22	25235	7823	4038	1000	342859	453904
10	Sh. Dinesh Kumar					24500	7595	3920	1000	37015	111045	01.07.22	25235	7823	4038	1000	342859	453904
	14. DRIVERS		**8**	**FPL-04**	**25500-81100**													
1	Sh.Daya Nand					63900	19809	10224	1000	94933	284799	01.07.22	65817	20403	10531	1000	879759	1164558
2	Sh.Vikas Verma					58400	18104	9344	1000	86848	260544	01.07.22	60152	18647	9624	1000	804811	1065355
3	Sh.Bhagwan Dass					56700	17577	9072	1000	84349	253047	01.07.22	58401	18104	9344	1000	781645	1034692
4	Sh.Shardha Nand					55000	17050	8800	1000	81850	245550	01.07.22	56650	17562	9064	1000	758480	1004030
5	Sh. Kashmir Singh					33100	10261	5296	1000	49657	148971	01.07.22	34093	10569	5455	1000	460050	609021
6	Sh. Balwan Singh					35100	10881	5616	1000	52597	157791	01.07.22	36153	11207	5784	1000	487304	645095
7	Sh.Jagpal					35100	10881	5616	1000	52597	157791	01.07.22	36153	11207	5784	1000	487304	645095
8	Sh.Vinod Kumar					35100	10881	5616	1000	52597	157791	01.07.22	36153	11207	5784	1000	487304	645095
	15. PEONS		**21**	**DL**	**16900-53500**													
1	Smt. Shyam Kaur					32300	10013	5168	1000	46481	145443	01.07.22	33269	10313	5323	1000	449149	594592
2	Sh.Anil					27200	8432	4352	1000	40984	122952	01.07.22	28016	8685	4483	1000	379652	502604
3	Sh.Gagan					18400	5704	2944	1000	28048	252432	01.01.23	18952	5875	3032	1000	86578	339010
4	Sh.Ashish Sharma					18400	5704	2944	1000	28048	252432	01.07.22	18952	5875	3032	1000	86578	339010
5	Ms.Amit Kumari					18400	5704	2944	1000	28048	252432	01.01.23	18952	5875	3032	1000	86578	339010
6	Sh.Sandeep					18400	5704	2944	1000	28048	252432	01.01.23	18952	5875	3032	1000	86578	339010
7	Sh.Angrej					18400	5704	2944	1000	28048	252432	01.01.23	18952	5875	3032	1000	86578	339010
8	Ms.Pooja Yadav					18400	5704	2944	1000	28048	252432	01.01.23	18952	5875	3032	1000	86578	339010
9	Sh.Vikas Jangra					18400	5704	2944	1000	28048	252432	01.01.23	18952	5875	3032	1000	86578	339010
10	Sh.Ramehar					18400	5704	2944	1000	28048	252432	01.01.23	18952	5875	3032	1000	86578	339010
11	Sh.Mukesh					18400	5704	2944	1000	28048	252432	01.01.23	18952	5875	3032	1000	86578	339010
12	Sh.Rahul					18400	5704	2944	1000	28048	252432	01.01.23	18952	5875	3032	1000	86578	339010
13	Sh.Gouri Shanker					18400	5704	2944	1000	28048	252432	01.01.23	18952	5875	3032	1000	86578	339010
14	Sh.Amit Kumar					18400	5704	2944	1000	28048	252432	01.01.23	18952	5875	3032	1000	86578	339010
15	Sh.Pardeep Kumar					18400	5704	2944	1000	28048	252432	01.01.23	18952	5875	3032	1000	86578	339010
16	Smt Batli Devi					18400	5704	2944	1000	28048	252432	01.01.23	18952	5875	3032	1000	86578	339010
17	Sh.Manish Sharma					33300	10323	5328	1000	49951	149853	01.07.22	34299	10633	5488	1000	462776	612629
18	Sh.Anuj Kumar					18400	5704	2944	1000	28048	252432	01.01.23	18952	5875	3032	1000	86578	339010
19	Sh.Parveen Kumar					18400	5704	2944	1000	28048	252432	01.01.23	18952	5875	3032	1000	86578	339010
						17900	5549	2864	1000	27313	81939	01.07.22	18437	5715	2950	1000	252922	334861

20	Sh.Vinod S/o Sh.Mahender					117400	36394	16784	1000	173578	520734	01.07.22	120922	37486	19348	1000	1608798	2129532
21	Sh.Sandeep S/o Sh.Rai Lal					17400	5394	2784	1000	26578	79734	01.07.22	17922	5556	2868	1000	246108	325842
	16. MALI-CUM-CHOWKIDAR		2	DL	16900-53500													
1	Sh. Dukhi Ram					31400	9734	5024	1000	47158	141474	01.07.22	32342	10026	5175	1000	436885	578359
2	Sh. Bishna Ram					32300	10013	5168	1000	48481	145443	01.07.22	33269	10313	5323	1000	449149	594592
	17. SWEEPER		1	DL	16900-53500													
1	Sh. Mahipal					38400	11904	6144	1000	57448	172344	01.07.22	39552	12261	6328	1000	532273	704617
	Total		67			2807600	870356	435360	65000	4178316	17281005		2775953	860545	411341	65000	33829881	51110886
	Grand Total		149			8477600	2628056	1342560	147000	12595216	48410085		8616053	2670976	1345757	147000	105779652	154189737

(Ministerial + Technical)			
	Actual(in Crores)	Add:10%	Total(in Crores)
Salary	15.42	1.54	16.96
LTC	0.10	0.01	0.11
Additional D A 10%	0.26	0.03	0.29
CPF and NPS Board Contribution	0.62	0.06	0.68
Leave Salary & Pension Contribution	0.21	0.02	0.23
Pension of Board Employees	0.22	0.02	0.24
Contribution of Gratuity (Board Employees)	0.80	0.08	0.88
Leave encashment contribution (Board Emp.)	0.55	0.06	0.61
Wages to Outsourced Staff	7.33	0.73	8.06
Hartron Salary	0.31	0.03	0.34
Total (Salary of Ex-Gratia+Board Members)	0.39	0.04	0.43
GRAND TOTAL :	26	3	29

Salary of Ex-Gratia Employees	
Smt. Komal Kanojia	0.05
Smt.Krishana Devi	0.07
Smt. Sudesh Kumari	0.04
Total	0.16

Salary of Board Members	
Sh.. P.K. M.K Dass	0.07
Sh. Y.K. Garg	0.08
Sh. Jasbir Dahiya	0.03
Sh. Sarwan Kumar	0.03
Sh. Vijay Kumar	0.03
Total	0.24

Budget provision for salary is being made Rs. 30.00 Crore

AGENDA ITEM NO. 191.14

REGARDING AMENDMENT IN DELEGATION OF POWERS UNDER THE PROVISIONS OF WATER (PREVENTION AND CONTROL OF POLLUTION) ACT, 1974, AIR (PREVENTION AND CONTROL OF POLLUTION) ACT, 1981 AND RULES FRAMED UNDER THE ENVIRONMENT PROTECTION ACT, 1986

Scanned with CamScanner

14/1

Agenda Item No. 191.14 **Regarding amendment in delegation of powers under the provisions of Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981 and Rules framed under the Environment Protection Act, 1986.**

The Board vide agenda No. 190.01 (Annexure-I) in its 190th meeting held on 02.02.2022 has redefined the already delegated powers in different Board meetings and approved the consolidated delegation of power to the Chairman and other officers of the Board. These powers deal with various cases of consent to establish and consent to operate under provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981 and authorization/registration under provisions of the Rules framed under the Environment Protection Act, 1986. The minutes of the meeting were circulated vide letter no. HSPCB/Esstt./2022/EG-36/505-513 dated 03.02.2022 (Annexure-II).

The Board has approved the agenda item No. 190.01 wherein at Sr. no. 9 the following was approved:-

Sr. No.	Subject	Officers proposed for delegation of powers	Officers left due to oversight
9	Powers for obtaining information, collection of samples and entry and inspection of units under the provisions of Sec 20, 21 and 23 of Water Act and Sec 24, 25 and 26 of Air Act as well as under the provisions of different Waste Management Rules	Chairman and MS, HSPCB—Full powers. ROs and Field Officers in their respective jurisdiction as per the mandate of inspections allotted by HQ or on directions by Chairman /MS, HSPCB. Outside their jurisdictions, directions/permissions are required from Chairman /Member Secretary for visit or inspection Senior Environmental Engineer /Senior scientist/ Chief Environmental Engineer / Chief Scientific Officer in their respective jurisdictions or outside their respective jurisdictions on obtaining permissions/directions by Chairman / MS, HSPCB in both cases.	Environmental Engineer/ Scientist-'C'/ Assistant Environmental Engineer/ Scientist-'B'/ Sr. Scientific Assistant/ Junior Scientific Assistant/ Junior Environmental Engineer.

As per section 20, 21 and 23 of the Water Act, 1974 and section 24, 25 and 26 of the Air Act 1981, a State Board or any officer empowered by it have power of performing the functions of the Board under relevant section of these Acts.

In the present delegation of powers approved vide agenda item no. 190.1, few posts were left due to oversight which were approved in past Board Meetings. The delegation of power by the post is required to avoid the legal complications at later stage.

In view of above, the post of Environmental Engineer/Scientist-C/Asstt. Environmental Engineer/Scientist B/Sr. Scientific Assistant/Junior Scientific Assistant/Junior Environmental Engineer may be inserted at Sr. no. 9 of the approved agenda item No. 190.1.

Submitted for consideration and approval please.

****

14/2 Annexure-I

01/1

Agenda Item No. 190.01 **Delegation of powers under the provisions of Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981 and Environment Protection Rules framed under the Environment Protection Act, 1986**

The Haryana State Pollution Control Board is a statutory body having perpetual succession and to performs functions and duties as provided under the Water (Prevention and Control of Pollution) Act, 1974; Air (Prevention and Control of Pollution) Act, 1981 and to perform such duties as delegated to it by the State Government or by the Government of India, under the Environment Protection Act, 1986.

Section 11-A of the Water (Prevention and Control of Pollution) Act, 1974 provides that the Chairman of a Board shall exercise such powers and perform such duties as may be prescribed or as may, from time to time, be delegated to him by the Board.

Section 64 of the Water (Prevention and Control of Pollution) Act, 1974 empowers the State Government to make Rules to carry out the purposes of the Water Act,1974. The State Government has notified the Rules vide Notification No. GSR-125/CA.6/74/S.64/78 dated 22nd December 1978 called as the Haryana (Prevention and Control of WaterPollution) Rules, 1978 and has also made some amendments in the said Rules, from time to time.

Section 54 of the Air (Prevention and Control of Pollution) Act, 1981 empowers the State Government to make Rules to carry out the purposes of the Air Act, 1981. The State Government has notified the rules vide Notification No. GSR.73/C.A.14/81/S.54"83 dated 15thDecember 1983, called as the Haryana Air (Prevention and Control of Pollution) Rules, 1983 and has also made some amendments in the said Rules, from time to time.

For regular day to day functioning of the Board, the Chairman, Member Secretary, and other Officers of the Board have been delegated with the powers – administrative, executive and financial powers. Administrative powers for various officers of the Board have already been defined and entrusted by the Rules enacted by the Government of Haryana. Similarly, many of the executive and financial powers have also been delegated to various officers of the Board, as per the Annexures I and II respectively, as under:

Annexure I (i) Powers already delegated by the Board in various meetings

(ii) The State Government, under Ease of Doing Business (EoDB), Haryana has empowered the Haryana Enterprises Promotion Centre (Invest Haryana) for grant of various clearances

(iii) Redefined and consolidated proposed powers to be delegated by the Board now

Annexure-II – Financial Powers

It is, therefore, proposed that the executive and financial powers already delegated by the Board may be confirmed and proposed consolidated delegation to various officers of the Board may be considered for approval by this new Board, as per the Annexures enclosed.

Annexure I

(i) The Haryana State Pollution Control Board has earlier delegated various powers to the Chairman and other officers of the Board in various meetings of the Board of Directors, as under:

Sr. No.	Provisions of Water Act (P&CP) 1974/ Air Act(P&CP) 1981/ EP rules issued under EP act 1986	Nature of power already delegated	Authority /officer/ official to whom power already delegated	Extent of power already delegated	Meetings of the Board and Agenda Item No. /office order etc.
	1	2	3	4	5
	Water Act, 1974 and Air Act, 1981				
1.	• Under section 20 of Water Act 1974, State pollution control boards or any officer empowered by it in this behalf have power to obtain any information to perform the function conferred on it by or under this Act. • Under section 25 of Air Act 1981, State pollution control boards or any officer empowered by it in this behalf have power to obtain any information to perform the function conferred on it by or under this Act.	Power u/s 20,21 and 23 of Water Act, 1974 and u/s 24 of Air Act, 1981	Regional Officer	Full power	135.8 (s)
2.	• Under section 21 of Water Act1974, State pollution control boards or any officer empowered by it in this behalf have power to take sample of water from any stream or well or samples of any sewage or trade effluent.	Power for collection of sample u/s 21 of Water Act, 1974	Scientist-C/ Environmental Engineer /Asstt. Environmental Engineer/Scientist-B /Senior scientific Assistant /Junior scientific Assistant/ Junior Environmental Engineer	Full power	51.9 (s)
	• Under section 26 of Air Act 1981, State pollution control boards or any officer empowered by it in this behalf have power to take sample of air or emission from any chimney, flue or duct or any other outlet for the purpose of analysis	Power for collection of sample u/s 26 of Air Act, 1981	Environmental Engineer/ Asstt. Environmental Engineer/ Scientist B/ Sr. Scientific Assistant	Full power	52.10
3.	• Under section 23 of Water Act, any officer empowered by state	Power of Entry and Inspection of	Environmental Engineer/	Full power	52.11

14/3

Sr. No.	Provisions of Water Act (P&CP) 1974/ Air Act(P&CP) 1981/ EP rules issued under EP act 1986	Nature of power already delegated	Authority /officer/ official to whom power already delegated	Extent of power already delegated	Meetings of the Board and Agenda Item No. /office order etc.
	board have power of Entry and Inspection of any plant, record, register, document or any other material object or for conducting a search of any place for the purpose of performing any of the functions of the Board entrusted to him.	industry under section 24 of Air Act1981	Asstt. Environmental Engineer/ Scientist B/ Sr. Scientific Assistant/ /Junior scientific Assistant/ Junior Environmental Engineer		
	• Under section 24 of Air Act1981, any officer empowered by state board have right of Entry and Inspection of any plant, record, register, document, or any other material object or for conducting a search of any place for the purpose of performing any of the functions of the Board entrusted to him	Power u/s 20, 21 and 23 of Water Act, 1974 and u/s 24 of Air Act, 1981	Regional Officer	Full power	135.8 (S)
4.	• Under section 25 of Water Act1974, no person shall, without the previous consent of the State Board, establish or take any steps to establish any industry, operation or process, or any treatment and disposal system or any extension or addition thereto, which is likely to discharge sewage or trade effluent into a stream or well or sewer or on land. The state board may grant consent subjected to such conditions as specified therein or refuse such consents for the reasons recorded therein. • Under section 21 of Air Act1981, no person shall, without the previous consent of the State Board, establish or operate any industrial plant in an air pollution control area. The state board shall grant consent applied for subjected to such conditions and for such period as specified therein or refuse such consents. It shall be open to the State Board to cancel such consent before the expiry of the period, if the conditions subject to whichsuch consent has been granted are not fulfilled. Before cancelling consent or refusing consent under provision, a reasonable opportunity of being heard shall be given to the person concerned.	Power to grant consent	Chairman	Full power	36.11
		Power for refusal of consent	Chairman	Full power	53.3 (s)
		Grant/refusal of consent to establish (CTE) and consent to operate (CTO) application under Water Act, 1974, Air Act, 1981 and authorization under Hazardous Waste Rules in respective area of jurisdiction for Red and orange category of industries	Regional Officers	For the projects having investment up to Rs 10 crore or CLU cases up to 01 acre	175.4
			Nodal Officer of HSPCB at HEPC	For the projects having investment more than Rs 10 crore or CLU cases more than 01 acre	175.6
		Grant/ refusal of CTO and CTE application under Water Act, 1974, Air Act, 1981 and authorization under Hazardous Waste Rules in respective area of jurisdiction for Green category	-do	-do-	178.17
5.	• Under section 27 of Water Act 1974, state board may review	Power to review consent as per	Chairman	Full power	117.3

Sr. No.	Provisions of Water Act (P&CP) 1974/ Air Act(P&CP) 1981/ EP rules issued under EP act 1986	Nature of power already delegated	Authority /officer/ official to whom power already delegated	Extent of power already delegated	Meetings of the Board and Agenda Item No. /office order etc.
	any condition of consent granted under section 25 or section 26 of this act • Under section 21 of Air Act 1981, It shall be open to the State Board to cancel such consent before the expiry of the period, if the conditions subject to which such consent has been granted are not fulfilled. Before cancelling consent or refusing consent under provision, a reasonable opportunity of being heard shall be given to the person concerned.	section 27 of Water Act, 1974			
6.	• Under section 33-A of Water Act 1974, state board have power to issue any directions including the power to direct the closure, prohibition or regulation of any industry, operation or process, the stoppage or regulation of supply of electricity, water or any other service, in writing to any person, officer or authority, and such person, officer or authority • Under section 31-A of Air Act 1981, state board have power to issue anydirections including the power to direct the closure, prohibition or regulation of any industry, operation or process, the stoppage or regulation of supply of electricity, water or any other service, in writing to any person, officer or authority, and such person, officer or authority	Directions u/s 33-A of Water Act, 1974 and 31-A of Air Act, 1981	Chairman	Full Power	147.121 (s)
		Directions u/s33-A of Water Act, 1974 and 31-A of Air Act, 1981 in grave emergency:- a. Units doing reverse pumping of untreated effluent by injecting it directly into aquifer and polluting subsoil water; or b. Unit is illegally operating lead recovery units by using waste batteries in violation of Battery Rules and has not adopted environmentally sound technologies because lead oxide emission can adversely affect the central nervous system beings and living creatures; or c. When there is leakage/spillage of hazardous/obnoxious gas in	Regional Officers	Specific Power	136.5

Sr. No.	Provisions of Water Act (P&CP) 1974/ Air Act(P&CP) 1981/ EP rules issued under EP act 1986	Nature of power already delegated	Authority /officer/ official to whom power already delegated	Extent of power already delegated	Meetings of the Board and Agenda Item No. /office order etc.
		the atmosphere or releasing toxic of hazardous material in water bodies used for drinking water source and endangering lives of people at large or other living creatures. d. It has been the concern of the Govt. and the Board for some time now that decisive action is not being taken with regard to illegal or unscientific disposal of polluted effluents including disposal by ways of transporting potentially or decidedly polluting effluent from manufacturing/process industries and disposing these off at various places through tankers; In addition to power already delegated vide agenda item no. 136.5, for issuance of closure directions against the industrial sectors/units, found operating in [violation of directions of the EPCA][1] and as directed by Hon'ble Apex Court, Hon'ble High Court and Hon'ble NGT and	Regional Officers	Specific Power	187.11 (S)

9/4/19

Sr. No.	Provisions of Water Act (P&CP) 1974/ Air Act(P&CP) 1981/ EP rules issued under EP act 1986	Nature of power already delegated	Authority /officer/ official to whom power already delegated	Extent of power already delegated	Meetings of the Board and Agenda Item No. /office order etc.
		Hon'ble NGT to issue closure directions against such industrial sectors/units.			
7.	• Under section 49 of Water Act 1974, state board or any officer authorized by it in this behalf have power to take cognizance of any offence under this Act by making complaint to the court • Under section 43 of Air Act 1981, state board or any officer authorized by it in this behalf have power to take cognizance of any offence under this Act by making complaint to the court	Cognizance of offence under Water and Air Act	Chairman	Full Power for Whole state of Haryana	150.11 (S)
			Member secretary	Whole state of Haryana	
			Regional Officer	Within area of Region	
			AEE/Scientist-B/ SSA/JEE/JSA	Within area of field assigned to him by Board/ chairman/regional officer	
			The officers exercise power after getting approval of chairman of board		
8.	• Under section 17 of Water Act 1974, The Board may establish or recognise a laboratory or laboratories to enable the Board to perform its functions under this section efficiently, including the analysis of samples of water from any stream or well or of samples of any sewage or trade effluents. • Under section 17 of this Act, A State Board may establish or recognise a laboratory or laboratories to enable the State Board to perform its functions under this section efficiently	Power for recognition of laboratories under Water Act, 1974 and Air Act, 1981	Chairman	Full power	111.4
9.	Powers under section 21 of Air Act, 1981 to allow change of nomenclature (name) in consent and authorisation granted by Board to units.	Powers under to allow change of nomenclature (name) in consent and authorisation granted by Board to units.	Chairman	Full Power	178.22

Sr. No.	Provisions of Water Act (P&CP) 1974/ Air Act(P&CP) 1981/ EP rules issued under EP act 1986	Nature of power already delegated	Authority /officer/ official to whom power already delegated	Extent of power already delegated	Meetings of the Board and Agenda Item No. /office order etc.
10.	Powers under Section 33A of Water Act and 31A of Air Act and as per the direction Hon'ble National Green Tribunal.	Imposition of Environment Compensation on non-complying polluting units	Chairman	Full Power	184.10
11.	Under Section 12 (3B) of Water Act, the Board may, by general or special order, and subject to such conditions and limitations, if any, as may be specified in the order delegate to any officer of the Board such of its powers and functions under this Act as it may deem necessary	Authorization to allot consent work among officers of board as per requirement, being administrative matter	Chairman	Full power	136.4
		Nomination of officers of the Board to Haryana Enterprises Promotion Centre (HEPC) to grant clearances/sanctions in addition to their own duties	Chairman	Full Power	176.23 (S)
		Environment Protection Act/Rules, 1986			
12.	Under section 19 of EP Act 1986, Central Government or any authority or officer authorized in this behalf by it have power to take Cognizance of any offence under this Act by making complaint to the court The Central Government Notification No. S.O. 394 (E) dated 16.04.1987 has authorized Secretary to State Government, Environment, Chairman or Member Secretary of state pollution control board for whole of state and Regional Officers of the State Pollution Control Board who have been delegated powers under section 20, 21 and 23 of the Water (Prevention and Control of Pollution) Act, 1974 and section 24 of the Air (Prevention and Control of Pollution) Act, 1981for area as laid down by the State Board including other officer notified therein , for the purpose of this act	Power u/s 20, 21 and 23 of Water Act, 1974 and u/s 24 of Air Act, 1981	Regional Officer	Full power	135.8(s)
13.	Under section 23 of EP Act 1986, central Government may delegate power to any officer, State Government or other authority by notification as specified in the notification, such of its powers and functions under this Act (except the powers to constitute an authority under sub-section (3) of section 3 and to make rules under	Power to issue directions under Section 5 of the EP Act 1986 to any industry or any local or other authority for the violations of the standards and rules relating to	Chairman	Full power	Central Government vide notification no SO 23(E)

Sr. No.	Provisions of Water Act (P&CP) 1974/ Air Act(P&CP) 1981/ EP rules issued under EP act 1986	Nature of power already delegated	Authority /officer/ official to whom power already delegated	Extent of power already delegated	Meetings of the Board and Agenda Item No. /office order etc.
	section25).	hazardous wastes notified under the Environment (Protection) Act, 1986 for jurisdiction of whole of state			dated 08.01.1997
		Power to issue directions under Section 5 of the EP Act 1986 to any industry or any local or other authority for the violations of the standards and rules relating to bio-medical waste, hazardous chemicals, industrial solid waste and municipal solid waste including plastic waste notified under the Environment (Protection) Act, 1986 for jurisdiction of whole of state.	Chairman	Full power	Central Government vide notification no SO 327(E) dated 10.01.2001
Bio Medical Waste Management Rules, 2016					
14.	Under provisions of rule 10 of Bio Medical Waste Rules 2016, Every occupier or operator handling bio-medical waste, irrespective of the quantity shall make an application in Form II to the prescribed authority i.e. State Pollution Control Board and Pollution Control Committee, as the case may be, for grant of authorisation and the prescribed authority shall grant the provisional authorisation in Form III and the validity of such authorisation for bedded health care facility and operator of a common facility shall be synchronised with the validity of the consents	Power to grant authorization under Bio Medical Waste Rules	Chairman	Full power	114.11
		Power to grant authorization under Bio Medical Waste Rules upto50 beds	Regional Officer	Full power	140.5
E-Waste Management Rules, 2016					
15.	Under provisions of rule 13 of E-Waste Management Rules 2016, every Dismantler or Recycler or refurbisher of e-waste shall make an application, within a period of one hundred and twenty days starting from the date of coming into force of these rules, in Form-4	Grant/refusal of authorization under E Waste Management Rules 2016	Regional Officers	For projects having investment up to Rs 10 crore or CLU cases up	180.15(s)

Sr. No.	Provisions of Water Act (P&CP) 1974/ Air Act(P&CP) 1981/ EP rules issued under EP act 1986	Nature of power already delegated	Authority /officer/ official to whom power already delegated	Extent of power already delegated	Meetings of the Board and Agenda Item No. /office order etc.
				to 01 acre	
	in triplicate to the concerned State Pollution Control Board		Nodal Officer of HSPCB at HEPC	For projects having investment more than Rs 10 crores or CLU cases more than 01 acre	180.15(s)
Plastic Waste management Rules, 2016					
16.	Under provisions of rule 12 of plastic Waste Management Rules 2016, Every person recycling or processing waste or proposing to recycle or process plastic waste shall make an application to the State Pollution Control Board or the Pollution Control Committee, for grant of registration or renewal of registration for the recycling unit, in Form II. Every manufacturer engaged in manufacturer of plastic to be used as raw material by the producer shall make an application to the State Pollution Control Board or the Pollution Control Committee of the Union territory concerned, for the grant of registration or for the renewal of registration, in Form III.	Grant/refusal of registration under the Plastic Waste Management Rules, 2016	Regional Officers	For projects having investment up to Rs 10 crores or CLU cases up to 01 acre	180.17(s)
			Nodal Officer of HSPCB at HEPC	For projects having investment more than Rs 10 crore or CLU cases more than 01 acre	180.17(s)
Hazardous & Other Waste (Management and Transboundary Movement), Rules, 2016					
17.	Under provisions of rules 6 of HOWM Rules 2016, every occupier of the facility who is engaged in handling, generation, collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilisation, offering for sale, transfer or disposal of the hazardous and other wastes shall be required to make an application to the State Pollution Control Board and obtain an authorisation from the State Pollution Control Board	Grant/refusal of authorization under Hazardous Waste Management Rules, 2016	Regional Officers	For projects having investment up to Rs 10 crore or CLU cases up to 01 acre	182.15(s)
			Nodal Officer of HSPCB at HEPC	For projects having investment more than 10	182.15(s)

Sr. No.	Provisions of Water Act (P&CP) 1974/ Air Act(P&CP) 1981/ EP rules issued under EP act 1986	Nature of power already delegated	Authority /officer/ official to whom power already delegated	Extent of power already delegated	Meetings of the Board and Agenda Item No. /office order etc.
				crores or CLU cases more than 01 acre	
			Chairman	Authorization for collection and transportation of hazardous waste for recycling or utilization including co processing for the facilities established outside the state	182.15(s)

(ii) The State Government, under Ease of Doing Business Initiative (EoDB), Haryana has empowered the Haryana Enterprise Promotion Centre (Invest Haryana) for grant of various clearances such as Consent to Establish (CTE) and Consent to Operate (CTO) under Water and Air Acts and Authorization under the rules made under Environment Protection Act, 1986. The consent / authorization cases having an investment cost of more than Rs 10 Crore or CLU cases above 1 acre are decided at the level of HEPC (by the officer deputed by the Board with the delegated powers of the Board to grant clearances) and for cases having investment cost less than Rs 10 Crore or CLU cases up to one acre are decided at the level of Regional Officers, Haryana State Pollution Control Board. The powers of grant and refusal of consent / authorization were delegated to RegionalOfficers, HSPCB and nodal officer of HSPCB deputed to HEPC, vide agenda 175.4, 175.6 and 178.17.

(iii) Further, the following already delegated powers in different Board meetings are redefined and a consolidated proposal for delegation of powers to the Chairman and other officers of the Board is placed below:

S No.	Subject	Officers proposed for delegation of powers
1	Grant and refusal/renewal of Consent to Establish **(CTE)** and Consent to Operate **(CTO)** under section 25 of water act 1974 and under section 21 of Air Act 1981 and Authorizations/Registration under different Waste Management Rules under the provisions of EP Act, 1986, to all categories of unit covered under the consent management or under relevant waste management rules.	Chairman for all cases. ROs for cases with an investment cost up to Rs 10 Cr or CLU cases up to one acre in their jurisdiction. Nodal Officer of HEPC for those cases with an investment cost of more than Rs. 10 Cr or CLU cases more than 01 acre in the State. The concerned Regional officer shall issue show cause notice to person, officer or authority, in case of refusal of consent to establish or consent to operate, under concerned Act, of at least 15 days, to file submissions in this behalf, if any, for proposed action to be taken.
2	Withdrawal/review/ cancellation/variation in Consent to Establish **(CTE)** and Consent to Operate **(CTO)** and conditions of consent applied/granted under section 25 of Water and under section 21 of Air Acts and revocation, suspension or cancellation of Authorizations granted under different Waste Management Rules under the provisions of EP Act, 1986.	Chairman for all cases. The concerned Regional officer shall issue opportunity of being heard through show cause notice to person, officer or authority, in case of withdrawal /review/ cancellation/ variation of consent to establish or consent to operate, under concerned Act, of at least 15 days, to file objection/submissions in this behalf, if any, for proposed action to be taken.
3	Recognition of Laboratories under the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.	Chairman, HSPCB
4	Power to give directions under section 33-A of Water and under section 31-A of Air Acts and under different Waste Management Rules under the section 5 of provisions of EP Act, 1986.	Chairman HSPCB in all cases. The concerned Regional Officer shall issue show cause notice with opportunity of being heard to person, officer or authority or occupier of industry, operation, or process, for proposed directions to be issued

		under respective act, of at least 15 days, to file objection/submissions in this behalf, if any. ROs in case of exigencies, as approved by the Board vide agenda item no 135.6 and 187.11(S) in their respective jurisdictions
5	Suspension of directions issued under section 33-A of Water and under section 31-A of Air Acts and under different Waste Management Rules under the section 5 of provisions of EP Act, 1986.	Chairman, HSPCB
6	Cognizance of offences under Section 49 of the Water (Prevention and Control of Pollution) Act, 1974 and under Section 43 of the Air (Prevention and Control of Pollution) Act, 1981.	As already delegated vide agenda item no 150.11(S)
7	Imposition of Environment Compensation on non- complying polluting units under Water, and Air Acts and Environment Protection Act, 1986.	Chairman, HSPCB
8	Powers to allow change of nomenclature (name) in consent and authorisation granted by board to industrial sectors/non-industrial sectors/ units	Chairman, HSPCB
9	Powers for obtaining information, collection of samples and entry and inspection of units under the provisions of Sec 20, 21 and 23 of Water Act and Sec 24, 25 and 26 of Air Act as well as under the provisions of different Waste Management Rules	Chairman and MS, HSPCB– Full powers. ROs and Field Officers in their respective jurisdictions as per the mandate of inspections allotted by HQ or on directions by Chairman /MS, HSPCB. Outside their jurisdictions, directions / permissions are required from Chairman / Member Secretary for visit or inspection. Senior Environmental Engineer /Senior scientist /Chief Environmental Engineer /Chief Scientific Officer in their respective jurisdictions or outside their respective jurisdictions on obtaining permissions/ directions by Chairman /MS, HSPCB in both cases.

14/13

Agenda Item No. 174.4

Revision of delegation of Financial/Administrative powers to Board's Officers.

The Financial powers were delegated to the Board's Officers in its meeting held on 18.10.2000 vide agenda item No. 114.19 (S) and further partially delegated/revised in 127th, 130th, 131st & 134th meeting of the Board. Thereafter, the Board on 08.02.2012 in its 161st meeting consolidated the Financial Powers and delegated the powers to its officers. Further, in the office exigencies some powers have been delegated by the Chairman to the officers of Board by issuing office orders for smooth functioning of the Board. The existing financial powers are in scattered manner which are in different agendas and office orders. It is difficult to reconcile & take a holistic view in the matter. Moreover, these Financial Powers have also become old and are required to be revised, because these were delegated long time ago. Since then, the prices of all commodities have increased manifold, so the existing delegation of powers are not serving the purpose as all matters are referred to the Chairman of the Board for seeking approval.

Keeping in view of above facts, it is necessary to revise these delegated financial/administrative powers & also to consolidate all such delegations of financial powers in one document for easy accessibility. Accordingly, the financial/ administrative powers proposed to be revised are given in the enclosed table at Annexure 'A' & 'B'.

Submitted for consideration and approval of the Board please.

Annexure – 'A'

Sr. No.	Nature of Power	Authority to whom powers delegated in previous meetings of the Board/office order etc.	Extent of Powers delegated at present	Authority to whom Powers proposed to be delegated	Extent of Powers proposed to be delegated
1	2	3	4	5	6
1.	Drawal & Disbursement of salary/T.A./Medical/ Arrear & payment of all other bills	Senior Accounts Officer	Full Power against proper sanction	Senior Accounts Officer	No Change
2.	Approval of Tour Programme within Haryana & Outside Haryana	i. Chairman	Member Secretary/ Senior Environmental Engineers/ Environmental Engineers/ R.O.'s/ Scientist-'C's/ Sr. Accounts Officer, District Attorney and Personal Staff	i. Chairman	Member Secretary/ Senior Environmental Engineers/ Senior Scientist/ Environmental Engineers/ R.O.'s/ Scientist-'C's/ Sr. Accounts Officer, District Attorney and Personal Staff
		ii. Member Secretary	All employees working in the scale of Rs. 8,000/- (old scale) and above except (i) above personal staff.	ii. Member Secretary	All Class-II employees and Tehsildar
		iii. Environmental Engineers/Scientist-'C's/ Sr. Accounts Officer, District Attorney/ Lab Incharges/ Branch Incharges/Registrar	All employees working under them except (i) & (ii) above	iii. Sr. Environmental Engineers /Senior Scientists/ Environmental Engineers/ Scientist-'C's/ Sr. Accounts Officer, District Attorney/ Regional Officers/ Lab Incharges/ Branch Incharges/ Registrar/ Superintendent	All Class III & IV employees working under them.
3.	Sanction of Medical Re-imbursement bills	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Full Powers	Member Secretary	No Change

4.	Grant of Temporary Advance	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 10,000/-	Member Secretary	Upto Rs. 20,000/-
		Sr. Environmental Engineers/ Sr. Scientists	NIL	Sr. Environmental Engineers/ Sr. Scientists	Upto Rs. 10,000/-
		Environmental Engineers/ Scientist 'C'	Upto Rs. 2,000/-	Environmental Engineers/ Scientist 'C'/ Sr. A.O./ District Attorney	Upto Rs. 5,000/-
		Sr. A.O. District Attorney	Upto Rs. 3,000/- Upto Rs. 1,000/-		
5.	Hiring of Accommodation	Chairman	Full Powers as per Rules	Chairman	No Change
6.	To sell or dispose off by auction or otherwise any material, Plant & Machinery etc. found unserviceable.	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto the book value of an item upto Rs. 5,000/-	Member Secretary	Upto the book value of an item upto Rs. 50,000/-
7.	To write off books, maps, furniture & other office material rendered unserviceable.	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Full Powers	Member Secretary	No Change
8.	Losses due to breakages beyond recovery deterioration in stock etc., either in transit or in stores.	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 20,000/-	Member Secretary	Upto Rs. 50,000/-
9.	Shortage in inventory/stock verification.	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 20,000/-	Member Secretary	Upto Rs. 50,000/-
10.	To sanction payment of demurrages. Warfare provided that the amount has become payable due to unavoidable circumstances.	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Rs. 50,000/-	Member Secretary	Upto Rs. 1,00,000/-
11.	Advertisement & Publicity	Chairman	Full Powers	Chairman	No Change
		Member Secretary	NIL	Member Secretary	Full Powers

91/11

12	To sanction expenditure on Postage, Telephones/ Telegrams, water and Electricity charges.	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Rs. 1,00,000/-	Member Secretary	Upto Rs. 2,00,000/-
		Env. Engg./ Scientist 'C' in Regional Offices	Upto Rs. 30,000/- in each case	Env. Engg./ Scientist 'C'/ Regional Officers	Upto Rs. 50,000/- in each case
		Sr. Environmental Engineers/ Sr. Scientists	NIL	Sr. Environmental Engineers/ Sr. Scientists	Upto Rs. 50,000/- in each case
		Environmental Engineers/ Scientist 'C' in Head Office	Upto Rs. 20,000/- in each case	Environmental Engineers/ Scientist 'C' in Head Office	Upto Rs. 40,000/- in each case
		Scientist 'C' being Lab Incharge	Upto Rs. 5,000/-	Scientist 'C" being Lab Incharge	Upto Rs. 20,000/-
		Senior Accounts Officer (being D.D.O.)	Full Powers	Senior Accounts Officer (being D.D.O.)	No Change
13.	Sanction of payment for House tax/ Property tax.	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Full Powers	Member Secretary	No Change
14.	To sanction contingent expenditure of recurring nature i.e. carriage of records, engagement of part time sweeper, water carrier etc., Purchase of Stationery, printing, Binding etc., equipments, temporary fitting in hired building etc.	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 20,000/-	Member Secretary	Upto Rs. 50,000/-
		Environmental Engineers/ Scientist 'C' / Sr. A.O.	Upto Rs. 3,000/- in each case	Sr. Environmental Engineers/ Sr. Scientists /Environmental Engineers/ Scientist 'C' / Sr. A.O.	Upto Rs. 10,000/-
		District Attorney/ Scientist 'B'/ AEE/ Superintendent	Upto Rs. 200/- at a time	District Attorney/ Scientist 'B'/ AEE/ Registrar/ Superintendent	Upto Rs. 500/- at a time
	Non-recurring Expenditure	Senior Accounts officer (being D.D.O.)	Upto Rs. 10,000/-	Senior Accounts officer (being D.D.O.)	No Change
15.	Petrol and Lubricants for official vehicles.	Sr. Accounts Officer	Full Powers	Sr. Accounts Officer	No Change
		Environmental Engineers for Regional Offices	Full Powers provided, entries are made in Log Book	Regional Officers of Regional Offices	No Change

14/17

16	Repair and maintenance of vehicles/equipments/ building and other T & P etc.,	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 15,000/-	Member Secretary	Upto Rs. 50,000/-
		Regional Officers	Upto Rs. 5,000/- subject to the condition that annual maintenance estimate is approved by the Chairman	Regional Officers	Upto Rs. 20,000/- subject to the condition that annual maintenance estimate is approved by the Chairman
17.	To Sanction Legal Expenditure	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 11,000/- in each case	Member Secretary	Full Powers
18.	To sanction expenditure on Liveries	Member Secretary	Full Powers as per norms of Board	Member Secretary	No Change
		Registrar/Superintendent (Estt.)	Upto Rs. 5,000/- in each case	Registrar/Superintendent (Estt.)	Upto Rs. 10,000/-
19.	Payment of consultation charges	Chairman	Full Power	Chairman	No Change
		Member Secretary	Upto Rs. 2,000/-	Member Secretary	Upto Rs. 10,000/-
20.	Payment of Bank Charges	Sr. Accounts Officer	Full Powers	Sr. Accounts Officer	No Change
21.	Inspection of material	Committee consisting of Environmental Engineer/ Scientist 'C'/ Sr. A.O.	Full powers for material to be inspected at Chandigarh. In case of Lab equipments, lab incharge will also be associated	Committee consisting of Sr. Environmental Engineer/ Sr. Scientist/ Environmental Engineer/ Scientist 'C'/ Sr. A.O.	Full powers for material to be inspected at Chandigarh. In case of Lab equipments, lab incharge will also be associated
		Environmental Engineers (Region)/ Scientist 'C'/AEE/ Lab Inchage	Full powers for material to be inspected outside Chandigarh. AEE/ Lab incharge will be nominated by Environmental Engineer/ Scientist 'C' concerned	Environmental Engineers (Region)/ Scientist 'C'/AEE/ Lab Inchage	No Change
22.	To sanction contribution and subscription	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 3,500/-	Member Secretary	Upto Rs. 10,000/-

23.	Repair of furniture and fixture	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 20,000/-	Member Secretary	Upto Rs. 50,000/-
		Regional Officers	NIL	Regional Officers	Upto Rs. 10, 000/-
24.	Purchase of furniture/ equipments	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 20,000/-	Member Secretary	Upto Rs. 50,000/-
		Regional Officers	NIL	Regional Officers	Upto Rs. 20, 000/-
25.	Purchase of Chemicals and Glass Ware/ Repair of Lab Instruments etc.	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 20,000/-	Member Secretary	Upto Rs. 50,000/-
		Environmental Engineer/ Scientist 'C'	Upto Rs. 10,000/-	Sr. Environmental Engineers/ Sr. Scientists /Environmental Engineer/ Scientist 'C'	Upto Rs. 20,000/-
		Lab Incharge	Upto Rs. 50,000/- at a time	Lab Incharge	Upto Rs. 1,00,000/-
26.	Repair of lab Equipment/ Instrument	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 50,000/-	Member Secretary	Upto Rs. 1,00,000/-
		Scientist 'C'/ Lab Incharge	Upto Rs. 20,000/-	Scientist 'C'/ Lab Incharge	Upto Rs. 40,000/-
27.	Repair and maintenance of Air sampling and Stack Monitoring kits	Environmental Engineer/ Scientist 'C' in Regional Offices	Upto Rs. 10,000/-	Environmental Engineer/ Scientist 'C' in Regional Offices	Upto Rs. 20,000/-
28.	Purchase of books/ Magazines/ Journals etc. for Board's Library	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 10,000/- at a time	Member Secretary	Upto Rs. 20,000/- at a time
		Sr. A.O.	Upto Rs. 1,000/- at a time	Sr. A.O.	Upto Rs. 5,000/- at a time
29.	To sanction advances to Board's employees	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 1,00,000/-	Member Secretary	Full Powers
30.	Loan and advances i.e. CPF/ GPF/HBL/Marriage/vehicle, etc. of Group A, B, C & D employees	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Full Powers	Member Secretary	No Change
31.	Final withdrawal from CPF/GPF	Chairman	Full Powers	Chairman	No Change

14/19

32.	Hospitality Entertainment	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 15,000/-	Member Secretary	Upto Rs. 30,000/-
		Sr. Environmental Engineers/ Sr. Scientists	NIL	Sr. Environmental Engineers/ Sr. Scientists	Upto Rs. 10,000/-
		Environmental Engineer/ Scientist 'C'/ Sr. A.O./ D.A./ Registrar	Upto Rs. 500/- per month for their own office/ Board's Guest only	Environmental Engineer/ Scientist 'C'/ Sr. A.O./ D.A./ Registrar/ Sc-B/ AEE/ ADA/ Supdt./S.O.	Upto Rs. 1,000/- per month for their own office/ Board's Guest only
		P.A. (on behalf of Chairman), Sc-'B'/ AEE/ ADA/ Supdt./S.O.	Upto Rs. 500/- at a time	P.A./P.S.(on behalf of Chairman),	Upto Rs. 1,000/- at a time.
33.	Write off irrecoverable losses of store or public money lost by fraud or the negligence of individual or similar other causes	Chairman	Full Powers	Chairman	No Change
34.	Sanction for insurance of vehicles/ office building	Chairman	Full Powers	Chairman	No Change
		Member Secretary	Upto Rs. 1,00,000/- at a time	Member Secretary	Full Powers
		Any Class-I officer looking after the building/vehicle	NIL	Any Class-I officer looking after the building/vehicle	Upto Rs. 10,000/-
35.	Purchase of office assets like furniture photo-state machine/ water cooler/ R.O/ Aqua Guard, Fax/ Computer Accessories and other material required by the Regional Offices	Regional Officers	Upto Rs. 10,000/- (One Time)	Regional Officers	Upto Rs. 20,000/-

Note:- For any items not covered above, the power delegated in P.F.R.
For similar post will be exercised by the officers of the Board also.

Annexure – 'B'

Sr. No.	Nature of Work	Authority to whom the power is delegated	Authority to whom Powers proposed to be delegated	Extent of Powers proposed to be delegated
1	2	3	4	5
1.	Sanction of Casual leave/ Earned Leave/ Commuted Leave & any other kind of leave of Group – A employees.	Member Secretary	Chairman	Sanction of Casual leave/ Earned Leave/ Commuted Leave & any other kind of leave of Group - A employees.
2.	Sanction of Earned Leave/ Commuted Leave & any other kind of leave of Group – B, C & D employees.	Member Secretary	Member Secretary	No Change
3.	Sanction of Casual Leave/ Station Leave	Member Secretary	Regional Officer/ Branch Incharge	Casual Leave/ Station Leave of Group- B, C & D employees
4.	Issuing 'No Objection Certificate' for applying passport	Member Secretary	Member Secretary	No Change
5.	To sign all petitions/ replies/ court cases before any judicial/semi-judicial authority on behalf of the Board.	Member Secretary	Member Secretary/ All Class-I officers of the Board	To sign all petitions/ replies/ court cases before any judicial/semi-judicial authority on behalf of the Board.

In addition to the above, Chairman of the Board shall be empowered to delegate the powers of any kind, to the officers of the Board which, he think fit in the interest of the Board.

14/22

Minutes of 190th meeting of the Haryana State Pollution Control Board, Panchkula, held at 3.00 PM on 02.02.2022 under the Chairmanship of Sh. P. Raghavendra Rao, Chairman, Haryana State Pollution Control Board, Panchkula

The 190th meeting of the Haryana State Pollution Control Board was convened at 3.00 PM on 02.02.2022 through video conferencing under the Chairmanship of Sh. P. Raghavendra Rao, Chairman, Haryana State Pollution Control Board. The list of participants is at Annexure-I.

The Member Secretary of the Board welcomed all the participants and presented the agenda items before the Board. A detailed discussion was held on all the agenda items and the minutes of the meeting are presented as below.

Agenda Item No. 190.1

Delegation of powers under the provisions of Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981 and Environment Protection Rules framed under the Environment Protection Act, 1986.

The proposal contained in Agenda Note was approved.

Agenda Item No. 190.2

Appointment of Board Analyst in Haryana State Pollution Control Board.

The proposal contained in Agenda Note was approved.

Agenda Item No. 190.3

Grant of Bonus / Ex-gratia / Short-term Incentives / token gifts to the Employees of Public Sector Undertakings - Ex-post facto approval.

The proposal contained in Agenda Note was approved.

Agenda Item No. 190.4

Amendment in procedure for obtaining consent to establish and consent to operate under Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 alongwith amended categorization of Red, Orange, Green and White category of Industrial/Non-Industrial Sector/Project/Unit – Ex-post facto approval.

The proposal contained in Agenda Note was approved.

Agenda Item No. 190.5

Regarding to allow only those upcoming industrial units in NCR-Haryana which are using cleaner fuel namely, natural gas (PNG/CNG), liquefied petroleum gas, bio-gas, propane, butane etc. – Ex-post facto approval.

The proposal contained in Agenda Note was approved.

hc
3/2/22

14/23

Agenda Item No. 190.6

Regarding categorization of Industrial / Non-Industrial Sectors/Projects "Restaurants / Dhabas/ Motels/ Marriage Halls/ Banquet Halls/Party Lawns" under Consent Management of the Board based on waste water discharge and floor area – Ex-post facto approval.

The proposal contained in Agenda Note was approved.

Agenda Item No. 190.7

To approve/adopt the Audited Balance Sheet and Income and Expenditure Account of the HSPCB for the Financial Year 2016-17.

The proposal contained in Agenda Note was approved.

Agenda Item No. 190.7(S)

To approve/adopt the Audited Balance Sheet and Income and Expenditure Account of the Board for the Financial Year 2015-16.

The proposal contained in Agenda Note was approved.

The meeting ended with thanks to all the participants.

3/2/22

14/24

LIST OF PARTICIPANTS

1. Sh. P. Raghavendra Rao
   Chairman, Haryana State Pollution Control Board,
   Panchkula.

2. Sh. Devender Singh, IAS
   Additional Chief Secretary to Government Haryana,
   Country Planning and Urban Estates Department.

3. Sh. Vijayendra Kumar, IAS
   Principal Secretary to Government Haryana,
   Industries and Commerce Department.

4. Sh. Navdeep Singh, IPS
   Principal Secretary to Government Haryana,
   Transport Department.

5. Mohammed Shayin, IAS
   Managing Director,
   Haryana Power Generation Limited, Panchkula

6. Sh. Vivek Saxena, IFS
   Managing Director,
   Haryana Forest Development Corporation, Panchkula

7. Sh. S. Narayanan, IFS,
   Member Secretary,
   Haryana State Pollution Control Board, Panchkula.

hc
Upper