ENVIRONMENT AUDIT SCHEME

At a Glance

ENVIRONMENT AUDIT

GPCB

GUJARAT POLLUTION CONTROL BOARD

'Paryavaran Bhavan' Sector-10-A,

Gandhinagar- 382010

Title : Environment Audit Scheme: At a glance

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Vibrant GUJARAT 2015 11-13 Jan. The Global Business Hub | 7th Global Summit

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No. F.E.T.D/ 231 /2015
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Date : 03 JUNE 2015

MANGUBHAI PATEL

MESSAGE

To achieve the objective of sustainable development, an integrated, systematic and holistic approach is required. Use of green technology and eco –friendly products coupled with environmental audit tool in industry will help better preservation, protection and promotion of the environment.

Environmental Audit represent independent, transparent and systematic scrutiny to use of raw materials, products and utilities as well as adequacy of environment management system and its efficient operation towards implementation of environment laws.

There are several cases where environment audit has not only helped in reducing pollution in industry but also helped in improving their bottom line. I am glad that GPCB has got right advise from independent organizations and has modified the scheme, which I am sure would go along way achieving target of sustainable development.

I congratulate GPCB for successful implementation of Environmental Audit Scheme. This guideline related to Environmental Audit gives direction to perform efficiently the audit work in various types of industries by the recognized auditors in the State of Gujarat.

Mangubhai

(Mangubhai Patel)

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BACHUBHAI KHABAD

MESSAGE

Gujarat is passing through the phase of rapid industrialization as well as urbanization. The phenomenal growth of industries also brings in varied type of challenges, especially, in the areas like human health and environmental degradation. Having realized these challenges the State has very proactively taken up these issues inspite of many other challenges. Even the judiciary has helped by serving of various verdicts in environment sector and helped in protecting and conservation of natural resources of the State. The Environmental Audit Scheme is one such outcome of all the judiciary interventions, first of its kind in the country. The Environmental Audit Scheme is under implementation in Gujarat since 1996 and there have been several amendments/modifications thereafter.

National Environmental Engineering Research Institute, Nagpur and J-PAL, South Asia have also suggested for modifications of the scheme which have been adopted now, which I am sure will be immensely beneficial to both; to the industries and to the regulators achieving the common targets of conserving natural resources and environmental protection.

I congratulate team GPCB for coming out with this publication "Environmental Audit Scheme - At a Glance" which will serve to be ready-reckoner and guiding book for the environmental auditors, industries and professionals working in the field of environment.

(Bachubhai Khabad)

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MESSAGE

The Environmental Audit Scheme has been recognized as an important tool for achieving the sustainable development. There have been several case studies in Gujarat wherein the industries have not only been benefited by reducing the pollution and reaped long term profits coupled with an improved image in the society.

The Environment audit scheme has benefitted the regulatory authority to enforcing discipline amongst the industries, arming GPCB as well as association of industries in the concerned areas with necessary information and doing regular monitoring of different industries scattered in entire state of Gujarat from different angles.

While implementing the Environmental Audit Scheme, the State notified certain deficiencies and the entire scheme was subject to the research and testing. I am glad that the scheme is now modified and the modified version has been introduced since the current financial year. This booklet is a compilation of the Environmental audit Scheme which has been modified from time to time and would prove to be ready- reckoner for all the stake holders.

I wish the Environmental Auditors and GPCB team a brilliant success for better implementation of the modified scheme and helping the industries in achieving the real purpose of becoming more and more sustainable while being Environment friendly.

(P. K. Taneja)

3rd June 2015

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MESSAGE

The Land mark judgment, in 1996 by the Honorable High Court on introduction of Environment Audit Scheme first time in the country, was the eye opening judgment for the industrial sectors, government organization, non-government organization as well as people at large, who were neglecting the issue and impact of pollution and health hazards due to industrial activities. We, now have to prepare the road map for the sustainable development with the industrial growth and realize the correct quotation that **"Development is the journey, Environment is the aim"**

We generally understand the financial audit which is being carried out by the Charted Accountant,where our main focus is to see how we can save the money and do not pay for the tax as well as how best it can be utilized for our self. In Safety Audit, we try to see how best we can minimize the accidents or attempt to make zero accident with creating comfortable, safe, and productive work-place environment. In Environment Audit, GPCB try to see that industry makes full attempt/effort for the improvement of Environment Management System in the unit, work efficiently for the protection and preservation of environment and optimum use of resources.

GPCB has recently introduced a procedure for allotment of industry/unit in to auditors of respective zones through the randomization procedure through the software. This will help in appropriate e-governance and transparency in the system.

I hope that this booklet will be of immense use to the auditors and the industries in performing their task and they will be the extra arm to GPCB for functioning the audit work satisfactorily

Dr. K. U. Mistry

Clean Gujarat Green Gujarat

GPCB

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PREFACE

Environmental audit scheme is the output of the verdict given by Honorable High Court of Gujarat as per its order dated 20-12-1996. It states that “industries manufacturing specified products, where qualified technical professional would become a link between the individual industries on one hand and the GPCB and other public authorities as well as association of the industries on the other hand, with the added vital elements of accountability and transparency”. Subsequently two more orders were passed by the Honorable High Court on 13-3-1997 and on 16-9-1999.

GPCB has recognized auditors in accordance with the criteria fixed by the scheme, prepared format for submission of Environmental Audit Reports, made all the stakeholders aware about the scheme and devised formats for submission of adequacy and efficacy certificates about the Environment Management System of the industry. With the help of technical expert committee, it is ascertained by the board that all auditors are having adequate technical qualifications and adequate facilities for sampling and analysis of pollutants.

The scheme was evaluated by the prestigious organization in the field of Environment, NEERI (Nagpur) in 2008 and was concluded that the scheme has strengthened the environmental management and pollution control in the industrial sector of Gujarat State. NEERI also suggested that the scheme should not only be restricted to Gujarat but should also be adopted by other states across the country. The researchers of J-PAL have done comprehensive research on the scheme and have given policy recommendations in the Scheme. The scheme is well received by the Planning Commission as one of the Successful Models of Implementation of Environmental Policies and Programmes in States.

I sincerely thank all the stakeholders associated with GPCB for successful implementation of environment audit scheme.

Hope this Booklet will help all the stakeholders at large.

Hardik Shah
Member Secretary

Clean Gujarat Green Gujarat
ISO 9001-2008 & ISO-14001-2004 Certified Organisation

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1 Preamble

Industrialization and urbanization in Gujarat from last two to three decades has experienced revolutionary rapid industrial growth. Due to this industrialization, problems of environmental pollution of a variety in nature have cropped up in the state. This environmental pollution can result in irreversible changes which might damage the eco-system as well as climate and create diseases which will be difficult to control, if proper effective measures are not taken in time or if continuous vigilance is not maintained. For this, continuous efforts are made by the Ministry of Forests, Environment & Climate Change (MoEF&CC), Forests & Environment Department (F&ED) Government of Gujarat and Gujarat Pollution Control Board (GPCB) along with industries to protect and preserve the environment. For better sustainable development of environment and ecology, it is essential to develop industrial growth with new eco-friendly and green technology.

In 1990 to 1994, due to effluent of industries like chemicals, dye and dye-intermediates, power plant, pulp and paper mills, rolling mills, bulk drug, pharmaceuticals, pesticides etc created problems of pollution of Khari cut canal and river Khari. Subsequently, the farmers from the villages of Kheda District filed a writ petition in the Hon'ble High Court of Gujarat.

The Hon'ble High Court of Gujarat introduced Environmental Audit Scheme vide its order Dt. 20/12/96 in (Misc. Civil Application no 1863 of 1995 with Misc. Civil Application No. 1967 with Misc. Civil Application no 93 of 1995 and its order Dt. 13/3/97) special application no 770 of 1995.

In 1996, the Hon'ble High Court of Gujarat in their verdict directed the Gujarat Pollution Control Board (GPCB) for implementation of an Environmental Audit Scheme for the industries in the State of Gujarat. This also enabled establishment of Common Effluent Treatment Plants for the industrial clusters, with facilities for safe disposal of treated effluent including setting up of Treatment Storage and Disposal Facilities for Solid Hazardous Waste. Hon'ble High Court directed to have qualified technical professionals who can become a link between the individual industries on one hand and the GPCB and other public authorities as well as association of industries on the other hand, with the added vital elements of accountability and transparency. This scheme is to be supervised by the GPCB and implemented effectively. The Court also directed GPCB to prepare a format of audit report to be submitted by the auditors.

The scheme classified the industries which are required to submit periodical audit reports and the time table thereof. It provides for submission of the audit reports to the GPCB first and subsequent action to be taken on. The scheme also envisages actions for failure to submit report for industries and furnishing incorrect information on the part of auditors.

Definition of Environmental Audit:

It is a management tool comprising of a systematic, documented, periodic, and objective evaluation of how well the environment management systems are performing with the aim of:

- Waste prevention and reduction,
- Assessing compliance with regulatory requirements,
- Facilitating control of environment practices by a company management
- Placing environmental information in the public domain

Environment Audit Committee:

GPCB has constituted an expert technical committee as Environment Audit Committee from the inception of the scheme for implementation of recognition procedure for the auditor in context with the environment audit scheme and to recommend GPCB for the same. In addition to this, Environment Audit Committee provides advise/guidance/technical input related to the subject. As per the scope of work, committee members periodically visit the auditor's laboratories and advise them in this matter and will suggest/implement the new parameters which are being introduced by the CPCB/GPCB.

2 Objectives of the Environment Audit Scheme

The scheme was introduced with a view to:

- Enforcing discipline amongst the industries.
- Arming GPCB as well as the Associations of industries in the concerned areas with the necessary information.
- Doing regular monitoring of different industries scattered in the entire State of Gujarat with a perspective of environmental protection & sustainable development.

Judgment of Honorable High Court of Gujarat in the matter of special application no 770 of 1995

(i) What is the degree of pollution potential of a particular industry or class of industries; how an individual unit has provided treatment plants and facilities for liquid effluents, air emissions and solid waste; Whether the said plants and facilities are adequate and efficacious to achieve pollution control norms:

This kind of evaluation can be made by technical experts only after examining the manufacturing activity and effluent treatment process of individual units over a period of time and not by merely taking grab samples on surprise visits.

(ii) Whether effluent treatment plants and facilities are actually being operated or not :

This aspect involves monitoring in the conventional sense and surprise visits are a must.

(iii) Collective monitoring of liquid effluents from common collection systems, common ambient air monitoring and monitoring of disposal of solid waste generated by industries in an estate; .

(iv) For want of adequate time and manpower, GPCB has not been able to effectively examine and evaluate adequacy and efficacy of effluent treatment plants and facilities of a large number of units over a sufficiently long period, nor has it been able to provide for more frequent monitoring of the individual units to find out whether effluent treatment plants and facilities are actually being operated or not. The third part of monitoring is dependent upon available of common infrastructure facilities to be provided by the associations of industries as discussed above."

Clause No. 09 of SPECIAL CIVIL APPLICATION NO.770 OF 1995

3 Independent Evaluation of Environment Audit Scheme

A. National Environmental Research Engineering Institute (NEERI), Nagpur

Gujarat Pollution Control Board is implementing the Environment Audit Scheme since 1996 as per the verdict of Honorable High Court of Gujarat. For more effective implementation and strengthening of Environment Audit Scheme, Gujarat Pollution Control Board has evaluated the scheme through one of the most prestigious institute of the country i.e. National Environmental Research Engineering Institute (NEERI), Nagpur.

NEERI has prepared evaluation report and submitted the recommendation for the strengthening of the scheme which is mentioned below:

Recommendation:

The GPCB has delineated guidelines for environmental audit to be followed by all auditors. The methodology and procedure described by the Board keeping in line with the orders of the Hon'ble high Court of Gujarat do not require major modification. However, minor modifications have been recommended, and discussed individually under each section.

- The guidelines are being followed by all auditors for the audit, and should be continued to be followed strictly.
- Random assessment of Environment Audit Reports received from Scheduled I and Schedule II auditors should be done by experts.
- Establishment of a separate cell for Environmental audit by the GPCB having adequate number of engineers and scientists may provide more effective implementation of this scheme.
- The year for audit purpose should be changed from calendar year to financial year (1st April to 31st March). The last date for submission of the audit report should within two months from the close of the financial year.

Conclusion:

In Gujarat State, the GPCB implemented Environment Audit Scheme as per the orders of the Hon'ble High Court of Gujarat in 1996. Based on the evaluation of the environmental audit formats prepared under the Environmental Audit Scheme, modifications have been suggested to meet the objectives of the environmental audit of industries. In addition, new formats have been recommended which include.

- Performa for intimation to conduct an environmental audit of an activity.
- Certificate by an auditor for the analysis of sample parameters.

Additional information on improvement in effluent/emission quality based on performance of effluent/emission management system is also recommended for achieving progress towards cleaner production activities including retrofitting and proper maintenance of the system thereby attaining the desired objective of the audit scheme. Identifying major hurdles faced during the operation of effluent/emission management systems and remedial measures taken thereof are included in the scheme. Altogether, the scheme has strengthened the environmental management and pollution control in the industrial sector of the Gujarat State.

The necessity of environmental audit is to make the industry realize the impact of its activity and ensure mitigation of the impacts on environment. Hence, environmental auditing for the industries needs to be continued in the interest of environmental protection of the society at large, thereby attaining sustainable development. **The scheme should not only be restricted to the state of Gujarat but can also be adopted by other states across the country to acquire the benefit of the scheme for compliance with environment laws and meeting the environmental challenges.** Thus, benefits gained through implementation of this scheme can be taken advantage of, for sustainable development in the country.

B. J-PAL - Non-Governmental Organization

Pursue to the order of the Government of Gujarat, reputed individual Non-Governmental Organization namely J-PAL has carried out independent evaluation and evidence based policy research for its better effectiveness of the scheme. The said NGO conducted a comprehensive research for three years and came out with the reports in November, 2011 with following major recommendations that aim to increase the effectiveness of the current audit system and can be implemented:

(1) Auditor Assignment: The GPCB would centrally conduct the assignment of industries to auditors eachyear with the method of random assignment.

(2) Backchecks of Audit Work: GPCB would retain Schedule I auditors to backcheck the work of Schedule-II auditors in the field after select audit as envisioned by the original audit scheme.

(3) Audit payments: GPCB would fix the structure of payments to auditors, collect proof of payment and verify the payment amount against the fixed pay structure.

4 Planning Commission report on Successful Models of Implementation of Environmental Policies and Programmes in States

Planning Commission commissioned a study to identify and assess the Successful Models of Implementation of Environmental Policies and Programmes in States.

In that report, as a successful program and policy at state level under the Resource Management subject the third party monitoring outsourcing as Environment Audit Scheme module was narrated as below:

GPCB also has a third party monitoring scheme for industrial effluent quality monitoring. Gujarat also has third-party environmental audit scheme, wherein industries from the most polluting sectors must retain an approved auditor to report pollution readings to the GPCB and to recommend improvements to industry practices. This scheme is in addition to the regular GPCB inspection system. To strengthen this scheme and make it more transparent GPCB implemented a pilot that modified the scheme so that the auditors were paid from a central pool, rather than directly by the firms, and randomly assigned to each industry, rather than being chosen by the industry. Back-checks by independent local technical university was also done.

Report # PlanComm/2011/04 dated: 07/05/2012

5 Important Modifications in Environment Audit Scheme

Over a period of time it is felt that certain modifications in the Environment Audit scheme are required for more effectively and efficiently implementation of the scheme. Accordingly, a meeting was arranged at GPCB on 19/12/2014 under the Chairmanship of Member Secretary, Gujarat Pollution Control Board, to discuss proposed modifications in the Environment Audit Scheme for its implementation in Gujarat, in which representative of Industrial Associations, officers of Chamber of Commerce, Committee Members of Environment Audit scheme, officers from Common Facilities operators as well as selected representatives of Schedule I & II industries and Schedule I & II auditors remained present.

After detail discussion, considering various aspects, suggestions and comments, from the participants, and finally agreed upon by all, the Gujarat Pollution Control Board modified some of the major clauses in the current Environment Audit Scheme as follows, and now onward following changes are applicable for respective clauses in the Environment Audit Scheme. The necessary office order also issued for the modification in respective clauses dated: 23-01-2015. **(Annexure: B)**

No.	Existing provisions	Proposed change
1	A person possessing a degree in **Microbiology / Biochemistry** awarded by a recognized University or Institute in India or abroad	A person possessing a degree in **Microbiology/Bio-Chemistry/Chemistry/Biotechnology/Zoology/Environmental Science/Climate Change/Forensic Science/Life Science or similar other subjects** related to the environment awarded by a University recognized in India or abroad may also be eligible as member in the environmental auditor team.
2	Similarly, at least one member……… to **Chemical industry…..**	**………….chemical industries/analytical laboratory work…..**
3	It will be for the Industrial units to fix and pay the fees for preparation of audit reports by Environmental Auditors	**GPCB will assign industries** to auditors each year using method of random assignment based on the computer program. **GPCB will retain Schedule I auditor for back checks** of Schedule II auditor's audit work as envisioned by original audit scheme. Further back check of schedule I auditor's audit work, any schedule – I auditor can back check other then the same auditor.
4	Auditor assigned by the Industry and **fees are decided by mutually.**	**GPCB would fix the structure of payments** to auditors to avoid unhealthy competition amongst auditors.
5	Upto 31st January of the next year.	Audit period may be decided as per financial year and submission of the Environment Audit report , **up to 30th June of preceding year**

6 E- launching program for the allotment of Industries to the Auditors

For the Implementation of modified Environment Audit Scheme in the state, GPCB has issued an Office Order dated: 23-01-2015 and subsequently release in news paper also. GPCB has updated all the data of auditors and the industries and feed that to the dedicated software prepared by the NIC.

E-launching program was scheduled on 17.03.2015 at Gujarat Pollution Control Board, Gandhinagar and in that meeting the allotment was done by the dedicated software as XGN. In that program, Chairman-GPCB, Member Secretary-GPCB, Experts of Environment Audit Committee, Officers of NIC, Presidents of Industries Associations, Team leaders of Schedule-I and II were remained present.

7 Environment Audit Scheme- under implementation

W.e.f. 01-04-2015

THE ENVIRONMENTAL AUDIT SCHEME:

THE HON'BLE HIGH COURT OF GUJARAT INTRODUCED THE ENVIRONMENTAL AUDIT SCHEME IN ITS ORDER DT. 20/12/96 IN (MISC. CIVIL APPLICATION NO. 1863 OF 1995 WITH MISC. CIVIL APPLICATION NO. 1967 OF 1995 WITH MISC. CIVIL APPLICATION NO. 93 OF 1995 AND IN ITS ORDER DT. 13/3/97) SPECIAL CIVIL APPLICATION NO. 770 OF 1995. SUBSEQUENTLY THE SCHEME IS MODIFIED WITH SOME IMPORTANT CHANGES VIDE OFFICE ORDER NO. GPCB/EAS-C-28/301928 DATED: 23-01-2015. THIS MODIFIED SCHEME IS EFFECTIVE FROM 1ST APRIL, 2015.

I. This Scheme shall be called “The Scheme for Environmental Audit of industries manufacturing specified Products.” Stated in Schedule – I & II as per the Honorable High Court order dtd 13-3-97.

II. DEFINITIONS:

For the purpose of Environmental Audit Scheme the following terminologies are used:

a. **Environmental Auditing:** It is a management tool comprising of a systematic, documented, periodic & objective evaluation of how well the environment management systems are performing with the aim of:

- Waste prevention and reduction.
- Assessing compliance with regulatory requirements.
- Facilitating control of environmental practices by a company's management and
- Placing environmental information in the public domain.

b. **Auditor:** shall mean Environmental auditor recognized by the GPCB.

c. **Environment Audit Report :** shall mean Environment Audit Report required to be submitted under the Scheme in the prescribed format.

d. **Audit Team:** An Audit team shall consist of 4 members in the form of an Environmental Engineer, Chemical Engineer, Chemist and Micro Biology/Bio-Chemistry or Chemistry or Biotechnology or Zoology or Environment Science or Climate Change or Forensic Science or Life Science.

e. **Association of Industries:** shall mean Association of Industries in the concerned estate/area where a particular industrial unit is situated.

f. **Environment Audit Committee:** An expert technical committee as Environment Audit Committee constituted by GPCB from the inception of the scheme for implementation of recognition procedure for the auditor in context with the environment audit scheme and to recommend GPCB for the same. In addition to this, Environment Audit Committee provides advice/guidance/technical input related to the subject. As per the scope of work, committee members periodically visit the auditor's laboratories and advice them in this matter and will suggest/implement the new parameters which are being introduced by the CPCB/GPCB. **(Annexure- A)**

g. **Environmental Management System:** shall include treatment plants, equipments and processes for liquid effluents, air emissions, noise, solid wastes and other pollutants. Also collection, treatment, conveyance and disposal system for such wastes and other pollutants.

h. **Schedule:** means schedules of the environment audit scheme

i. **Specified Industries:** shall mean industries manufacturing/processing any one or more of the products mentioned in Schedule I or Schedule II

j. **Specified Product:** shall mean products/processes specified in Schedule I or Schedule II of this Scheme

III. TERMINOLOGIES:

a. **GoI** shall mean Government of India

b. **MoEF&CC** shall mean Ministry of Environment, Forests & Climate Change

c. **CPCB** shall mean Central Pollution Control Board

d. **GoG** shall mean Government of Gujarat

e. **F&ED** shall mean Forests & Environment Department

f. **GPCB** shall mean Gujarat Pollution Control Board

g. **EAC** shall mean Environment Audit Committee

h. **NIC** shall mean National Informatics Centre

i. **OSHA** shall mean Occupational Safety and Health Administration

j. **ACGIH** shall mean American Conference of Government Industrial Hygienists

k. **IS** shall mean Indian Standards

l. **EARs** shall mean Environment Audit Reports

m. **CTE** shall mean Consent to Establish

n. **CCA** shall mean Consolidated Consent of Authorization

o. **AQC** shall mean Analytical Quality Control.

p. **ASC** shall mean Acetyl Sulphonyl Chloride.

q. **CPC** shall mean Copper Pthelo Cyanine.

r. **ETP** shall mean Effluent Treatment Plant.

s. **CETP** shall mean Common Effluent Treatment Plant.

t. **TSDF** shall mean Treatment Stabilization Disposal Facility.

u. **CBWTF** Common Bio-medical Waste Treatment Facility

v. **E- Waste** shall mean Electronic Waste facility

w. **XGN** shall mean software named eXtended Green Node

IV. APPLICABILITY OF THE SCHEME

(a) This Scheme shall apply to all the industrial units manufacturing and/or processing any one or more of the products mentioned in Schedule I and/or Schedule II to this Scheme, and situated in the State of Gujarat.

(b) Any product the manufacture of which consumes the same or substantially the same raw materials consumed for the manufacture of any of the aforesaid mentioned items/products is same or substantially similar, shall also be considered to be a specified product within the meaning of this Scheme.

(c) An industrial unit which is manufacturing or processing any of the specified products under orders of trial production (whether passed by Honorable High Court or any authority) is also covered by this Scheme.

(d) All common facilities i.e. CETPs /TSDFs/CBWTFs, common Hazardous waste Incinerator, Common Spray Dryer, E-waste and other common facilities etc of the state.

(e) All other industries manufacturing products which are included by the Board in Schedule I or Schedule II as per **specified product list.**

V. ENVIRONMENTAL AUDITORS

The applicant to be environment auditor shall have adequate manpower, experience in relative field, qualifications and laboratory facilities as stated under to qualify as an Environmental Auditor along with appropriate training and knowledge of Environment Audit.

Eligibility criteria for an Environment Auditors :

a) Qualification: Each Audit team must comprise of four members, having following qualification:

Member-I

A person possessing a degree in Environmental Engineering or a degree in Civil Engineering with specialization in Environmental Engineering as an elective subject awarded by the recognized University or Institute in India or abroad.

And

Member-II

A person possessing a degree in Chemical Engineering/Technology awarded by a recognized University or Institute in India or abroad.

And

Member-III

A person possessing a degree in Chemistry or Environmental Science awarded by a recognized University or Institute in India or abroad.

And

Member-IV

A person possessing a degree in Micro Biology/Bio-Chemistry, Chemistry, Biotechnology, Zoology, Environment Science, Climate Change, Forensic Science, Life Science or other similar degree, awarded by a recognized university or institute in India or abroad.

Explanation: A degree means a minimum Bachelor degree (B.E) in engineering and (B.Sc.) in science

b) Experience:

Out of the four members, one engineer (Chemical or Environmental) and one scientist (Chemist or Micro Biology/Bio-Chemistry or Chemistry or Biotechnology or Zoology or Environment Science or Climate Change or Forensic Science or Life Science) shall have a minimum experience of one year in the field of the Environment Management System, in a chemical industry and / or in an environmental analytical laboratory work.

c) Number of teams:

Auditor can have maximum three numbers of teams for audit work having man power, qualifications and experience as shown at (a) and (b). In other words no auditor shall have more than three teams for environment audit work.

d) Number of Audits

No auditor shall take up more than fifteen environmental audit works per team and maximum numbers of environmental audit work to be carried out by each auditor per year shall not exceed forty five under any circumstances.

e) Laboratory :

I) Space: Each auditor must have an adequate laboratory having an area of minimum 30 Sq m for one team, 40 sq m for two teams and 50 sq m for three teams.

ii) Instruments/parameters: The applicant shall have self reliant laboratory with duly calibrated all necessary and required instruments as per Annexure-C and shall have qualified and trained human resources so as to analyze the parameters shown in list annexed as per Annexure-D.

iii) Laboratory shall be in the Gujarat State only as the scheme is applicable for the Gujarat State.

f) Recognisation:

Each auditor whether Schedule I or Schedule II must have valid recognisation from GPCB. No auditor shall submit environmental audit report for any industry, without recognisation.

List of environment auditor having valid recognition is available on website which is updated time to time. (i.e. www.gpcb.gov.in)

g) Function of Environment Auditors:

1) Auditors shall prepare and submit audit reports on the Environmental Management System of individual units manufacturing/ processing specified products.

2) It shall be open to the auditors to make such recommendation as they may think fit for improvement of the existing environmental management system but such recommendation shall not bind the GPCB in any manner.

VI. AUDIT REPORT

(a) Contents of the Report :

Each of the specified industries shall submit to the GPCB, audit report/s in triplicate regarding adequacy and efficacy of its Environmental Management Systems for its products in the light of : -

1.Statutory requirements as under –

i. The Water (Prevention and Control of Pollution) Act, 1974

ii. The Air (Prevention and Control of Pollution) Act, 1981

iii. The Environment Protection Act, 1986

iv. The Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989

v. The Rules for the Manufacture, Use, Import, Export and storage of Hazrdous Micro-Organisms/Genetically Engineered Organisms or cells, 1989

vi. The Chemicals Accidents (Emergency Planning, Preparedness and response) Rules, 1996

vii. The Bio-Medical Waste (Management & Handling) Rules, 1998

viii. The Noise Pollution (Regulation & Control) Rules, 2000

ix. The Ozone Depleting Substances (Regulation & Control) Rules, 2000

x. The Municipal Solid Wastes (Management & Handling) Rules, 2000

xi. The Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008

xii. The Plastic Waste (Management & Handling) Rules, 2011

xiii. The E-waste (Management & Handling) Rules, 2011

2.

(A) The terms and conditions of the letter of Consent/NOC issued by the GPCB

(B) Other conditions which the GPCB may stipulate by any general order or circular or in any special order for a class of industries or for the particular industrial unit concerned.

3. Relevant literature published by CPCB, GPCB and other authoritative literature on the subject.

4. Inspections and monitoring made by the auditor, composite samples collected by the auditor for running batch/ batches and samples collected on surprise visits including samples collected at different stages of effluent treatment and their analysis reports prepared by the Auditors.
5. Figures of production of products, by products, consumption of raw materials, figures regarding use of water, electricity and other fuel and other material mentioned in the format of the Environmental Audit Reports prepared by the Auditors.
6. Complaint, if any, received by the GPCB or the Auditor.
7. Orders, if any, passed by the Court, in respect of any specified product and or industry or class of specified industries.

(b) Submission of Reports:

1. All common facilities i.e. CETPs /TSDFs/CBWTFs, Common Hazardous Waste Incinerator, Common Spray Dryer, E-waste and other common facilities etc. shall have to submit environment audit report half yearly and remaining industries falling in Schedule- I or II category of specified products list shall have to submit environment audit report yearly.

Copies of each audit report shall be submitted by specified industry to Gujarat Pollution Control Board, Gandhinagar. (in triplicate with adequate fees)

(c) Time Schedule:

The audit reports shall be submitted by each specified industry by 30th June every year with adequate fees to GPCB .

(d) Scrutiny fees:

All the specified industries shall ensure that environmental audit report prepared by the auditor is to be submitted with scrutiny fee of Rs.20,000/- (Rupees Twenty thousand only) for industry falling in Schedule I, and Rs.10,000/- (Rupees Ten Thousand) for industry falling in Schedule II, by Demand Draft in favour of GPCB Gandhinagar at the time of submitting to GPCB.

If industries having valid ISO 14001 accreditation, the half of the fees shall be payable.

(e) New/ proposed industries:

All the industries & common facilities covered under Schedule I and Schedule II which may be set up in any month during a particular year shall submit EARs for a period up to 31st March of the next year; e.g. if an industry/common facility starts its production/operation in August'15, then it shall prepare EARs through recognized auditor for a period of August'15 to 31st March'16 (even though it may be on trial run) and must submit EAR before 30th June'16, with necessary scrutiny fees.

VII. ACTION BY GPCB UPON FILING OF AUDIT REPORTS

Upon the audit reports being submitted to the GPCB as aforesaid, the GPCB shall inspect the manufacturing processes and the Environmental Management Systems of the specified industries which have submitted their audit reports and to take samples from the industries for analysis and to verify the reports of the auditors.

It will be open to make such recommendations as it may deem fit for the purpose of improvement/up gradation of Environmental management System and also in manufacturing plant/facilities/processes in order to improve the performance of the Unit in the matter of achieving the prescribed norms for control of pollution.

VIII. FORMAT OF AUDIT REPORT

(a) The auditor shall submit environment audit report in prescribed format with the following details:

(I) Whether the industry meets with the requirements laid down by or under the aforesaid statutory provisions, if no, the extent of deviation from the norms;

(II) Whether the industry has complied with the terms and conditions of the Consent/NOC issued by GPCB in favour of the Unit with reference to each term and condition;

(III) Whether the industry has complied with the terms and conditions of any general or special circular/order of the GPCB;

(IV) Whether the industry has taken measures for safety and for prevention of health hazards to the labor employed in the specified industries including their working conditions, and whether the industry has complied with the relevant provisions of the Factories Act and the Rules made there under. For this purpose, the auditors shall take into consideration the performa Statement to be prepared by the Labor Commissioner and the Chief Inspector of Factories in consultation with the National Institute of Occupational Health.

(b) It shall be open to the auditors to make such recommendations as they may think fit for improvement of the existing Environmental Management System but such recommendations shall not bind the GPCB in any manner.

IX. CONSEQUENCES OF FAILURE TO FILE AUDIT REPORT

If any specified industry (industry falling in Schedule I and Schedule II of the Hon'ble High Court order dated 13-3-97) does not submit its environment audit report as per the time schedule prescribed in the scheme, the industry shall be liable for appropriate directions which include direction of closure.

X. ACTION/DIRECTION UPON FILING OF AUDIT REPORTS

Where the audit report of a particular industry indicates that the industry does not meet with the requirements as prescribed by or under the aforesaid statutory provisions and that the industry has not complied with the terms and conditions of the CTE/CCA and those contained in any general or special Circular/Order of the GPCB, the industry shall be liable for appropriate directions which include direction of closure.

XI. ACCOUNTABILITY/LIABILITY OF THE AUDITORS/INDUSTRIES:

a) Where the audit report is found to be incorrect or inaccurate in respect of material particulars for an industry by the GPCB, which may be appointed by Hon'ble High Court or by the GPCB that industry shall be liable to be subjected to appropriate directions.

b) The auditor whose report is found to be incorrect or inaccurate of particular industry, then that EAR shall be rejected and action against the auditor and industry will be taken accordingly.

c) Complaints against the auditor will be reviewed and investigated by GPCB through Environment Audit Committee and substantiated complaint may result in cancellation of Certification/Recognisation of the auditor against whom the complaint lodged.

XII. GENERAL

(a) Any industry hereafter applying for consent or seeking for permission for trial production for manufacturing/processing items mentioned in Schedule-I or schedule- II shall have to get its Environment Management System inspected by respective auditors regarding adequacy and efficacy thereof.

(b) If an industrial unit falls both in Schedule-I and Schedule-II; it shall be treated as unit falling in Schedule-I for all purpose.

(c) This Scheme is in addition to and not in derogation of the powers of the GPCB and the State Government under existing provisions of the various enactments and rules relating to prevention and control of pollution and protection of environment.

(d) This scheme is also without prejudice to any action that may be taken against any individual industrial unit, cluster of units or a class of industries, on the basis of, inter alia, monitoring which may be carried out by the GPCB, associations of industries or their monitoring committee and/or by the Committee/s, if any, appointed by Hon'ble High Court of Gujarat.

(e) The GPCB or Hon'ble High Court of Gujarat may add any further products/processes to Schedule I or Schedule II and may add any further clause/s to this Scheme for more effective implementation of the measures for protection of environment and preparation and control of pollution.

Schedule-I

(Environmental Audit Scheme as per the H.H.C order dated 20/12/1996 and modified vide its order dated 13/03/1997)

No.	Classification of Industries	Products
1	2	3
I	**DYES-INTERMEDIATES**	
A)	Naphthalene based intermediates (irrespective of effluent going to CETP or not)	• H-acid • Diazo Napthayl Sulphonic acid • Beta Napthol • Alpha Napthyal Amine • C-acid
B)	Naphthalene derivative based intermediates (if effluent not going to CETP)	• Bon Acid • K-acid • J-acid • N-M-J-acid • Gamma Acid • Sulpho tobias Acid • Tobias Acid
C)		
i	Aniline based intermediates (irrespective of effluent going to CETP or not)	• Vinyl Sulpnone • Acetyl Sulphonyl Chloride (ASC)
ii	Aniline based intermediates mediates (If effluent not going to CETP)	• DASA (Manufacturing using chlor-Sulphonation process)
II	**PIGMENTS**	
	Metal Pthalo Cyanine based (If effluent not going to CEPT)	• CPC Blue • CPC Green • Alpha Blue
III	Common Effluent Treatment Plant (CETPs), TSDFs, all Bio medical waste incineration facilities	

No.	Classification of Industries	Products
IV	All industrial plants manufacturing products/involving processes mentioned in column no. 3 and discharging effluent in quantity 1 lac ltr/day or more (if effluent not going to CETP)	• Fermentation including Distillery • Sugar • Fertilizers • Oil refinery • Caustic Soda • Petrochemicals • Formulation and/or mfg. of Pesticides & / or Pesticides & insecticides • Formulations and/or mfg. of Basic drugs & Pharmaceuticals • Dyes/Dyes intermediates/Pigments • Agro based pulp & paper Manufacturing units • Tanneries
V	All industrial Plants mentioned in column 3	• Cement Plant (with Horizontal Shaft Kilns) • Thermal Power Plant • Integrated Iron & Steel Plant • Zinc smelter • Copper Smelter • Aluminum Smelter

Schedule-II

(Environmental Audit Scheme as per the H.H.C order dated 20/12/1996 and modified vide its order dated 13/03/1997)

No.	Classification of Industries	Products
1	2	3
I	**Dyes-Intermediates**	
A)	Naphthalene Derivative based intermediates (if effluent going to CETP)	• Bon Acid • K-acid • J-acid • N-M-J-acid • Gamma acid • Sulpho Tobias acid • Tobias acid
B)	Benzene based (if effluent not going to CETP)	· 4-CAP · PAABSA · PABA
C)	Nirtrochloro benzene based (if effluent not going to CETP)	• Anthranilic acid • NADPSA • APDA • ONCBSA
D)	Aniline based	
	(I) If effluent not going to CETP	• FC Acid • DABSA • DASDA • NAPSA • OAPSA • OPDA • SPCP • DASA (if manufactured from ASC)
	(II) If effluent going to CETP	• DASA (if manufactured from chloro sulphonation process)

No.	Classification of Industries	Products
II	**Dyes**	
	If effluent not going to CETP	
(I)	Direct Dyes (CPC based)	• Direct Turquoise Blue
(ii)	Reactive Dyes (CPC based)	• Reactive Turquoise Blue
(iii)	Vat Dyes	• Vat Dye • Vat indigo
III.	**PIGMENTS**	
	Metal pthalo cyanine based pigments (if effluent going to CETP)	• CPC Blue • CPC Green • Alpha Blue
IV	All industrial Plants (Except those mentioned at item IV in Schedule-I) discharging effluent one lac litres per day or more (irrespective of effluent going to CETP or not)	
V	Textile Processing Industries with Carbonizing Units	
VI	Textile Processing Industries having daily effluent discharge of one lakh ltr per day or more	
VII	Stainless Steel rolling and rerolling Mills.	
VIII	All industrial Plants manufacturing Products Metioned in Column 3 of item IV in Sch-I discharging effluent less than one lac lts. but more than 25,000 ltrs. per day (If effluent not going to CETP)	
IX	Lead recovery units from scrap	

X	All Industrial plants manufacturing/plants/involving process mentioned in column No. 3 and discharging effluent quantity one lakh liter per day or more.(If effluent going to CETP)	• Fermentation including Distillery • Sugar • Fertilizers • Oil refinery • Caustic Soda • Petrochemicals • Formulation and/or manufacturing of pesticides and/or insecticides • Formulation and/or manufacturing basic drug and pharmaceuticals • Dyes/Dyes Intermediates/Pigments • Agro based pulp and paper manufacturing units • Tanneries

NOTES AS PER ORDER DATED 13-3-97 BELOW SCHEDULE I & II

General

1. The discharge of effluent within the factory premises shall be considered as discharge unless it is being recycled.
2. If a product is found to be falling in Schedule I as well as Schedule II it shall be treated as falling in Schedule I for all purposes.
3. The units manufacturing ASC and/or DASA will fall in Schedule I or Schedule II as mentioned below:

1	2	3
(a)	Manufacturing DASA with chlorosulphonaiton process and effluent going to CETP. (ASC is manufactured by the unit and used for captive consumption)	Schedule II
(b)	Manufacturing DASA with chlorosulphonaiton process and effluent not going to CETP. (ASC is manufactured by the unit and used for captive consumption)	Schedule I
(c)	Manufacturing DASA from ASC purchased by the unit and effluent going to CETP.	Scheme not applicable
(d)	Manufacturing DASA from ASC purchased by the unit and effluent not going to CETP.	Schedule II
(e)	Manufacturing ASC for sale or for manufacturing any product other than DASA (irrespective of effluent going to CETP or not.)	Schedule I

For item (a) the entire quantity of ASC manufactured shall have to be used for captive consumption and not to be sold out. If any quantity of ASC is sold out, the unit shall fall in item (e) i.e. Schedule I.

4. Where no quantity of effluent mentioned in Column 2 against any item in Schedule I or Schedule II the units manufacturing products rating in Column 3 of the concerned Schedule shall be covered by the Scheme irrespective of the quantity of effluent being discharged or even in case of zero effluent discharge.

5. In case any question arises whether a unit is covered by any item in Schedule I or Schedule II the question shall be decided by the GPCB.

8 THE GUIDELINE TO BE FOLLOWED BY SCHEDULE I & II AUDITORS

THE FOLLOWING CONDITIONS MUST BE FOLLOWED BY THE AUDITORS WHILE CARRYING OUT THE ENVIRONMENTAL AUDIT OF INDUSTRIES / COMMON FACILITIES FALLING IN SCHEDULE I AND II OF THE HON'BLE HIGH COURT ORDER DATED 13-3-97 & ALL OTHERS AS PER THE GPCB DIRECTIONS ISSUED FROM TIME TO TIME.

A. Laboratory :

1. The analysis of the pollutants/stream shall be carried out as per the standard methods only. In case of doubts the auditor can contact Environment Audit Committee in monthly meeting. Latest edition of APHA is considered as standard method and shall be adopted by all the auditor's laboratories.
2. The auditor shall follow the standard methods for carrying out analysis of solid/hazardous waste & leachate.
3. Air monitoring shall be carried out by IS standards.
4. Noise monitoring shall be carried out by CPCB methods for ambient noise monitoring & work place monitoring by OSHA/ACGIH used by factory inspector hygiene laboratory.
5. The auditor shall from time to time, upgrade his competence/manpower, laboratory facilities.
6. Auditor shall maintain attendance register, movement register, equipment operation register, laboratory record book, and records of instruments calibration.
7. Laboratory shall have proper labeling on all the analysis bottles as per the guideline of accreditation authority

B. Inspection & Submission of audit report:

1. All the audit reports are to be submitted as per the format, which is annexed as Performa - I.
2. The EARs (Environment Audit Reports) shall be prepared and submitted by the auditors must be accompanied by adequacy & efficacy certificates in a format prescribed by GPCB with duly signed by all the team members. If such reports will not be signed by all the team members then, the auditor will be derecognized and punitive action against the industries will be taken as per Para 10(a) of the High Court order dated 20-12-96.
3. The EARs must include at least three observations covering each of the seasons. In other words the industry under audit, shall be monitored at least thrice in a year by the auditor & the auditor shall collect at least three sets of samples of effluents (air + waste water + Solid/hazardous waste + Noise + as case may be and other pollutants as auditor feels so, etc.) from all discharge points & submit all

data of three observations in EARs, otherwise EARs shall be considered incomplete and can be rejected.

4. The auditor must clearly report to GPCB about any inconsistency and malpractice being committed/practiced by the industry e.g. dilution of effluents, illegal discharge, production without permission, by pass of untreated effluent or any other activities which are likely to create environmental pollution problems, & contrary to the directions issued through consent orders & other orders under the different Acts, by GPCB

5. The auditor shall thoroughly ascertain about all the products / by products manufactured by the industry & report to the GPCB immediately by verifying excise registers, usage of raw materials and other production related documents, if there are any discrepancies.

6. The auditor must ascertain & report GPCB about the compliance made by the industry of the previous year's recommendations/observations of the auditor in the EARs.

7. The auditor shall report about % reduction in steam/water consumption, power consumption & consumption of raw materials etc. carried out by the industries in its observations in the EARs compared to the previous year.

8. The auditor shall pursue and emphasize about adoption of clean technology/cleaner production, waste minimization, waste reduction, waste exchange, reuse & recycling of effluents etc. & report about the same in EARs.

9. There are large number of industries which generates spent acid and hence correct details about treatment/disposal of the spent acid shall be mentioned in EARs accordingly.

10. The auditor must report about the valid membership of CETP & TSDF or common facility of concerned industry in EARs.

C. General

1. The Audit team members shall be resident of Gujarat State.

2. Application for the Schedule-I or II Environment Auditor shall be submitted as per Performa – IV with fee of Rs. 20,000/-

3. Environment Audit Committee will assess the Environment Laboratory based on the physical verification and laboratory assessment form (Annexure- D), and in case of fresh application for schedule-I or II auditor, recognition will be issued after satisfactory assessment of laboratory by the Environment Audit Committee.

4. Validity period for the recognition is 2 years from the date of recognition is issued.

5. The entire audit work must be carried out by the auditor himself. In other words, the auditor shall not assign the audit work to any other agency/firm. Any violation in this regard shall lead to derecognisation of the auditor.

6. The auditor must prepare the EAR of industries under audit up to 31st March of the particular year. The EAR shall be submitted to the GPCB before 30th June of same year.

7. In case of change in the man power (any member of the team), same shall be communicated to the GPCB within one month and the auditor shall also obtain the approval of the Board for the replacement.

8. The auditor shall have to fulfill all the conditions laid down by the Hon'ble High Court and the GPCB from time to time.

9. For the fee structure of preparation of environment audit report by Schedule-I and Schedule-II auditors, it shall be as per office order No. GPCB/EAS-C-28/301928 dated. 23-01-2015.

10. High levels of integrity, sincerity and ethics shall be maintained and practiced by the auditors.

A Annexure

Environment Audit Committee Members

1	**Shri Hardik Shah, IAS** Member Secretary, Gujarat Pollution Control Board, Gandhinagar	Chairman
2	**Shri B.R. Naidu,** Zonal Officer, Central Pollution Control Board, Zonal Office – Vadodara	Member
3	**Dr. P.A. Joshi,** Professor, Chemical Engineering Department, Dharamsinh Desai University, Nadiad	Member
4	**Prof. J.N.Joshi,** Ret. Professor, L.D. Engineering College, Ahmedabad	Member
5	**Prof. R.N. Shukla,** Principal, Government Engineering College, Bharuch	Member
6	**Dr. D.J. Parikh,** Retd. Deputy Director (Senior Grade) National Institute of Occupational Health, Ahmedabad	Member
7	**Prof. Y. H. Oza** Retd.Professor, L.D. Engineering College, Ahmedabad	Member
8	**Dr. Bharat Jain** Member Secretary, Gujarat Cleaner Production Centre, Gandhinagar	Member
9	**Prof. Manoj G. Desai** Associate Professor, Chemical Engineering Department, Government Engineering College – Valsad	Member
10	**Prof. Robin Alfred Christian** Associate Professor, Civil Engineering Department, S.V. National Institute of Technology, Surat	Member
11	**Prof. Anjali Khambate** Associate Professor, Civil Engineering Department, S.V. National Institute of Technology, Surat	Member
12	**Shri Sushil Vegda (SEE)** Unit Head, Environment Audit Cell Gujarat Pollution Control Board, Gandhinagar	Convener

GUJARAT POLLUTION CONTROL BOARD
"Paryavaran Bhavan"
Sector-10A, Gandhinagar-382010

Office Order

Read: 1. Environment Audit Scheme introduced by Hon'ble High Court, Gujarat

2. 181th Board meeting dated 12/03/2012

Sub: Modification in Environment Audit Scheme

Preamble:

As per order of Hon'ble High Court of Gujarat dated 20/12/1996, dated 13/03/1997 , 16-09-1999 and dated 22/04/2010 the Environment Audit Scheme is being implemented by Gujarat Pollution Control Board. Basic objectives of the Audit Scheme which were narrated in the landmark judgment of the Hon'ble High Court of Gujarat in the matter of SCA-770/95. During the course of time it is felt that many industries, clusters and estates are benefited by the Environment Audit Scheme, as qualified technical professors became a link between industries on the one hand and the Gujarat Pollution Control Board and other public authorities as well as association of the industries on the other hand with the added vital aliments of accountability and transparency.

Over a period of time it is felt that some modifications in the Environment Audit scheme are required for more effectively and efficiently implementation of the scheme. Accordingly, a meeting was arranged at GPCB on 19/12/2014 under the Chairmanship of Member Secretary, Gujarat Pollution Control Board, to discuss proposed modifications in the Environment Audit Scheme for its implementation in Gujarat, in which representative of Industrial Associations, officers of Chamber of Commerce, Committee Members of Environment Audit scheme, officers from Common Facilities operators as well as selected representatives of Schedule I & II industries and Schedule I & II auditors remained present in the meeting.

Resolution:

After detail discussion, considering various aspects, suggestions and comments, from the participants, the Gujarat Pollution Control Board hereby modifies some of the clauses in the current Environment Audit Scheme as follows, and now onward following changes are applicable for respective clauses in the Environment Audit Scheme:

1. **Qualification of team members of auditor**

   In Environment Audit Scheme, (hereinafter referred to as the Audit Scheme) regarding Environmental Auditor, Para 4 (I)(b)(IV) relating to qualification of, one of the team member, following shall be substituted , namely :-

   A person possessing a degree in Micro Biology/Bio-Chemistry, Chemistry, Biotechnology, Zoology, Environment Science, Climate Change, Forensic Science, Life Science for other similar degree, awarded by a recognized university or institute in India or abroad.

2. **Experience of team member of auditor**

   In Audit Scheme, regarding, experience Para 4(I)(c) relating to experience of, one of the team member, following shall be substituted , namely :-

   As required by the Hon. High Court, each team of Auditors shall have at least FOUR members; i.e. at least one member possessing a qualification in each of the above sub-clauses.
   Out of the four members, one engineer (chemical or Environmental) and one Scientist (Chemist or Microbiologist) should have a minimum experience of one year in the field of the Environment. Management system, in a chemical industry and / or in a analytical laboratories work.

3. Allotment of industries to Auditors and fee structure

In Audit Scheme, regarding ,selection of auditors and fee structure, Para (6) and (7) relating to allotment of industries to Auditors and fee structure, substituted , namely :-

3(i) *GPCB will assign industries to auditors each year using method of random assignment based on the computer program, known as a XGN module prepared by NIC. GPCB will retain Schedule- I auditor for back checks of Schedule II auditor's audit work as envisioned by original audit scheme. Further Back check of schedule I auditor's audit work, any schedule – I auditor can back check other then the same auditor.*

3(ii) For the fee structure of preparation of Environment Audit Report by Schedule-I and Schedule-II auditors, following factures shall be considered.

(a) Monitoring /sampling and analysis charges for water, air and hazardous waste shall be as per GPCB charges.

(b) TA/DA rate for the team members for the environment auditors, shall be applicable as per Class-I officers as prescribed in circular dated 03/10/2012 of Finance Department, Govt. of Gujarat.

(c) For the audit fee, Rs. 15,000/- for small scale, Rs. 20,000/- for medium scale and Rs. 25,000/- for large scale shall be considered.

4. **Time schedule for audit report submission**

In Audit Scheme, regarding, time schedule for submission of audit report, Para (5)(c) relating to time schedule for audit report submission substituted namely :-

Audit period shall be prepared as per financial year and submission of the report, up to 30th June of preceding year.

All other clauses of Environment Audit scheme , which is introduced by Hon'ble High court of Gujarat , vide order dated 20-12-1996 and amended vide order dated 13-03-1997 , 16-09-1999 and 22-04-2010 remain unchanged.

(Hardik Shah)
Member Secretary

No. GPCB/EAS-C-28/ 30192 8 Date: 23 JAN 2015

Issued to:

1. All Regional Officers and Unit Heads.........for implementation and follow up with concern industry association and industries covered under this scheme.
2. Environment Audit Cell...........for follow up and implementation.
3. IT branch........for necessary action please.
4. Select file

List of basic laboratory Instruments

1. Balance: - a. Analytical 5 digit balance
   b. Routine lab analytical balance
2. pH meter
3. COD Assembly
4. BOD Incubator
5. Hot Air Oven
6. Muffle furnace
7. Conductivity Meter
8. Turbidity Meter
9. Spectrophotometer
10. Flame Photometer
11. Noise level Meter
12. RDS – for $PM_{2.5}$ micron & PM_{10} micron
13. Stack Monitoring Kit
14. Phenol Distillation
15. Hot plate
16. Stirrer
17. Water Bath
18. Microscope
19. Centrifuge
20. Refrigerator
21. Autoclave
22. CO_2 Analyzer for Stack monitoring

In addition it is desirable to have:

1. DO Meter
2. Ion Selectivity meter
3. Kjeldhal Assembly (Total Nitrogen)
4. AAS (Atomic Absorption Spectrophotometer)
5. G.C.(Gas Chromatograph)
6. HPLC (High Performance Liquid Chromatography)
7. TOC (Total Organic Carbon) Analyzer.
8. VOC (Volatile Organic Compound)
9. Colony Counter
10. Water Distillation Assembly
11. Bacteriological Incubator
12. Laminar Air Flow

D Annexure

Water Analysis Parameters:

1. pH
2. Temperature & colour
3. Total Suspended Solids (TSS)
4. Total Dissolved Solids (TDS)
5. Chemical Oxygen Demand (COD)
6. Bio Chemical Oxygen Demand (BOD)
7. Dissolved Oxygen (DO)
8. Conductivity
9. Turbidity
10. Alkalinity
11. Oil & Grease
12. Chloride
13. Phenolic Compounds
14. Sulphate
15. Nitrite
16. Heavy metals like Cr, Cu, As, Ni, Zn, Cd, Pb, Co, Hg etc.

Hazardous Waste Parameters:

1. Acidity
2. Total Phenol
3. Heavy Metals viz. Cr, Cu, As, Ni, Zn, Cd, Pb, Co, Hg etc.
4. Total Organic Compounds
5. Cyanide

Ambient Air Analysis

1. R.S.P.M. (Respirable Suspended Particulate Matter)
2. S.P.M. (Suspended Particulate Matter)
3. SO_2 (Sulphure dioxide)
4. NOx (Oxides of Nitrogen)
5. Cl (Free Chlorine)
6. H_2S (Hydrogen Sulphide)
7. HCl (Hydrogen Chloride)
8. NH_3 (Ammonia)
9. CS_2 (Carbon Disulfide)
10. Acid Mist

Process stack/Vent Emission/flue gas stack emission

1. P.M. (Particulate Matter)
2. SO_2 (Sulphure dioxide)
3. NOx (Oxides of Nitrogen)
4. Cl_2 (Free Chlorine)
5. HCl (Hydrogen Chloride)
6. NH_3 (Ammonia)
7. Hydrogen Sulphide
8. Br_2 (Bromine)
9. CS_2 (Carbon Disulphide)
10. HBr (Hydrogen Bromide)
11. HCN (Hydrogen Cyanide)
12. CO_2

Other parameters as per CTE/CCA order of GPCB

PHYSICAL VERIFICATION AND LABORATORY ASSESSMENT FORM

1.	Name & Address of the Firm:	
2.	Date of Visit:	

3. Man Power:			
Team-1			
Sr. No.	Existing Name	Qualification	Experience
1.			
2.			
3.			
4.			
Team- 2			
1.			
2.			
3.			
4.			

4. Laboratory:		
A	Equipment:	
B	Area:	
C	New Instruments added:	
D	Average samples collected per month	Air:- Solid:- Water:- Noise:-
E	Whether register for sample collection is maintained:	

5. General:-										
1.	Computer Facilities		Yes		No					
2.	General Housekeeping:		Poor		Good		Very Good		Fair	
3.	Whether ISO 14000 Accreditation acquired:		Yes		No					

LIST OF EQUIPMENTS

1	Balance (5 digits)		16	Stack Monitoring kit
2	BOD Incubator		17	High volume sample
3	Kjeldahl nitrogen assembly		18	Respirable dust sample
4	Centrifuge		19	Autoclave
5	COD Apparatus		20	Magnetic stirrer
6	Hot plate		21	Gas Analyzer
7	Microscope		22	G.C.
8	Muffle furnace		23	G.L.C.
9	Refrigerator		24	Atomic Absorption
10	Water distillation assembly		25	spectrophotometer
11	Water bath		26	H.P.L.C.
12	Oven		27	T.O.C.
13	Noise level Meter		28	U.V. double beam spectrophotometer
14	PH meter (Digital / Analog type)		29	Mercury analyzer
15	Spectrophotometer		30	Laminar Air Flow
			31	Jar test

Remarks:

Date: -

Signature of Visiting Members

Performa : I

Format of the ENVIRONMENTAL AUDIT REPORT

Member Secretary
Gujarat Pollution Control Board,
Paryavaran Bhavan, Sector 10-A,
Gandhinagar – 382 010

(To be submitted in triplicate)

(Period from……………….. To………………)

(A)	GENERAL
1	Name of the Industry
2	Location :
3	Registered Office Address:
4	Month & Year of establishment:
5	- No. of workers employed : - Male/Female :
6	- No. of electrical connections With service numbers: - Total connected load - Electric consumption per tones Of product manufactured: - Percentage enhancement in energy: -Saving as compared to previous year:
7	Number of D.G. Set & their capacity :
8	Name/Residential address of all directors/partners:
9	Telephone Nos:(Residential & Industrial) Fax No: E-mail of Industry : E-mail Partners/Directors:
10	No. of shifts & timings :
11	Name & Address of the in charge of Environment/Safety Division/Cell/Unit:
12	No. of days during which production activities were in operation during the Audit period covered:
13	Has the industry obtained ISO 9000/ISO 14000/OSHAS 18000/Any other EM accreditation/Certification recognition?
14	Whether the industry has adopted cleaner production/cleaner technology/CDM?

(B)	**PRODUCT DETAILS**
1	Name of products(s) & capacity with Yield/purity per day.
2	Name of all by products and its quantity per day:
3	Date of commencement of production for each product. Whether production is as per consented quantity:
4	All raw materials required per kg of the product(s):
5	-Whether the manufacturing process is continuous or batch wise: -Indicate the batch capacity: -If the process is in batch operation, no. of batches/month along with the duration of the completion of each batch:
6	-Detailed manufacturing process with schematic flow diagram:- -List of unit operation & processes & with all chemical reactions along with the time required (in hrs)for completion of each unit operation/process and the total time for completion of the entire batch: -Mass balance in respect of the quantity of water, input of raw materials and waste water generation. (Attach separate sheet)
(C)	**WATER**
1	-The quantity of water consumed per day as well as per tones of product manufactured: -(Attach water balance diagram)* over the last three years:
2	The quantity of waste water (trade effluent) generated per tones of each product per day, as well as per batch* over the last three years.
3	-The particulars of effluent treatment plant(Attach separate sheets):- -Name and Size of each unit: - Capacity of ETP: - Flow diagram & Hydraulic diagram, of ETP to be submitted: - Whether lighting arrangement around ETP is provided: - Whether separate energy meter is installed for effluent treatment plant. If yes, readings of the meter for consumption every month: - Whether flow meters are provided at the inlet and outlet of the ETP. Please indicate the type of the flow meter:
4	The method of disposal of final treated effluent and the point of disposal(Please attach sketch):
5	The quality of trade effluent at the inlet and outlet of ETP and at various stages of treatment (Attach separate sheets):
6	The quantity and quality of sewage and its method of treatment and disposal(Attach separate sheets): a) As per norms : b)Total pollution load*:
7	The open area available for disposal of the effluent
8	-Whether the quality of treated effluent meets the specified norms: -If no, the extent of deviation and reasons thereof:

9	-Improvement in effluent quality and quantity since previous environmental audit based on performance evaluation of effluent management systems: -If yes, provide details(Attach separate sheets):
10	-Retrofitting undertaken to improve performance of ETP: -If yes, provide details:
11	Major problems encountered during operation of effluent treatment facilities, if any and reasons thereof:
12	The details about the operator/chemist responsible for operation & maintenance of effluent treatment plant: - Name of the operators/employees: - Qualification & Experience of each Operator/employee whether trained in such operation or not: -Salary of operators/employees.
13	The current status of consent under the Water Act-1974:
(D)	**AIR**
1	No. of the flue gas stacks, their height (from ground level)nature & consumption of fuel:
2	The details pertaining to the stack monitoring facilities:
3	Number of process stacks, their height(from ground level) source, expected pollutants & the details pertaining to the provisions of stack monitoring facilities:
4	The quality of emission from each flue gas stack & the process stack & the extent of deviation from them:
5	The ambient air quality within the factory premises, along with the number of ambient air quality monitoring stations outside the industry:
6	The status of consent under the Air Act-1981:
7	The details of air pollution control measures for all process & flue gas stacks:
8	-Improvement in emission quality since previous environmental audit based on performance evaluation of air pollution management system: -If yes, provide details. (Attach separate sheets)
9	Retrofitting undertaken to improve emission quality. If yes, provide details:
10	Major problems encountered during operation of control device, if any and reasons thereof:
* Whether production is as per consented quantity.	
NOTE : Total pollution load each for air, water and hazardous waste should have mentioned along with the quality of effluent, emission or solid waste as the case may be. Whether measures taken for reduction of pollution load.	

(E) HAZARDOUS (SOLID) WASTE:	
1	-The quantity, sources & composition of hazardous waste/solid waste from each process/sources over the last three years. (Total sludge generation per tonne of product): - Whether it is as per the consented quantity:
2	a) The method of storage, treatment & disposal of hazardous/solid waste: - The details should include area of storage and disposal and whether storage and disposal system is covered and made impervious (pucca) : - The quantity of Hazardous waste sent to TSDF. - Please also indicate how the quantity of hazardous /solid shall be reduced in next three months: b) The data/information about leachate generation, quantity & characteristics and treatment facility:
3	The status of authorization under the EPA-86 for solid waste
4	Plan, if any to reduce hazardous waste generation or its recycling.
(F) SITE PLAN	
1	The site plan showing the location of effluent treatment plant, final point of disposal of effluent, sampling point, drainage line, stacks, solid waste storage, disposal area & green belt (its width).
(G) RESOURCE RECOVERY	
1	The details regarding resource recovery including treated effluent for recycle/reuse from environmental pollution control system including effluent treatment plant: - The details regarding resource recovery/by product recovery from manufacturing process by using cleaner production technology:
(H) HEALTH	
1	- Whether any hazard is involved in the manufacturing or from the work environment: Yes/No - If yes, provide details thereof:
2	- Whether industry has pre-employment & periodical medical examination facilities: Yes/No - If yes, provide details thereof:
3	- Whether health records are maintained regarding adverse effect on the health of workers: Yes/No - If yes, provide details thereof:
4	- Whether industry has appointed a factory medical officer: Yes/No - If yes; full time or part time. Include the details about the name, address and qualification of the factory medical officer
5	Details of medical facilities available. (Please tick (✓) correct column:-Dispensary/Ambulance /Hospitals/First Aid box.
6	Whether sanitary facilities like water closets, urinals, bathroom are provided & are satisfactory.

(I)	**ACCIDENTS**			
1	The details of accidents in the factory if any & remedial measures taken			
(J)	**SAFETY MEASURES**			
1	General Environment of the factory. Please tick (✓) the appropriate column			
	a. House Keeping	Good	Fair	Poor
	b. Dustiness	High	Medium	Low
	c. Lighting	Good	Fair	Poor
	d. Ventilation	Good	Fair	Poor
2	Whether the following protective appliances are provided to all the persons			
	Goggles	Yes/No (Utilization level)		If yes; How many?
	Gloves	Yes/No (Utilization level)		
	Gumboot	Yes/No (Utilization level)		
	Helmet	Yes/No (Utilization level)		
	Skin Cream	Yes/No (Utilization level)		
	Soap	Yes/No (Utilization level)		
	Ear Plug	Yes/No (Utilization level)		
	Face Masks	Yes/No (Utilization level)		
	Clothing	Yes/No (Utilization level)		
3	The details of facilities for disaster management/gas leakage.			
4	Whether on site/off site emergency plans are prepared and are being implemented/upgraded regularly; please give details			
5	Whether records of occupational hazards are maintained?			
6	Preventive measures adopted to minimize occupational hazard.			

(K)	**REMEDIAL MEASURES**
1	The details of sources; monitoring & measures taken for control of noise pollution in & around the industrial premises:
2	The measures taken for prevention treatment & control of odour nuisance in & around the industrial premises:
3	The details in respect of cases/complaints under the Water Act-1974, the Air Act-1981 & the EPA-1986:
4	The compliance report with respect to all the conditions of NOC/Consent(Under all the Acts):
5	Incidents of spillages, leakages etc. and remedial measures thereof
6	-Whether insurance policy obtained under PLI Act. Yes/No -If yes, provide details

(L) WATER CESS	
1	The details regarding payment of the Water Cess for the previous & current year:
(M) The name and address of the Consultant engaged by the Company/Industry:	

It is hereby declared that all the information submitted in and with respect to this format is correct and we will be responsible for any lapse regarding incorrect or incomplete information.

(A)			(B)		
Name & Signature of the responsible persons of the industry/organization/institute/ CETP TSDF with the stamp.			Name & Signature of all the members of Audit Team		
Sr.No	Name	Sign.	Sr.No	Name	Sign.

Performa : 2

Adequacy Certificate of Environmental Management System

M/s. ________________________________of ________________________________

is recognized by the GPCB, Gandhinagar under the Environmental Audit Scheme introduced by the Hon'ble High Court Gujarat, vide its orders dtd. 20/12/1996 and 13/3/1997 and modified order dtd. 16/9/1999, as an environmental auditor for the purpose of the auditing, having carried out Environmental audit of,

- M/s.

- Located at;

- Manufacturing products: Product (s) Capacity

Having completed the environmental audit based on personal monitoring, and audit report, prepared as per the direction of the Hon'ble High Court in Environmental Audit Scheme, it is certified that the Environmental Management System (EMS) provided by this industry for the products manufactured and capacity as stated above is *____to achieve the quality of effluents (Air + Waste Water + Solid Waste) as specified in consent/Notifications by GPCB, Gandhinagar for the following quantity of waste generation:

Liquid effluent	____________________M^3/Day
Solid/Hazardous Waste	____________________kg/Day
Air emission (flue gas Stacks as well as process stacks	Adequate/not adequate, efficacious/not efficacious (Pl. strike out which is not applicable.)

This certificate is valid for the audit report only. However, it is subject to automatic cancellation in case of any change in product profile/capacity, quality and quantity of effluent emission (Air + Waste Water + Solid/Hazardous) and efficiency of EMS equipments.

This Certificate forms part of environmental audit report

Name & Address of the **ENVIRONENMENTAL AUDITOR**

Signature of **ENVIRONENMENTAL AUDITOR**

Date :

Place:

* here write, whether adequate and efficient or inadequate and inefficient as applicable.

Performa : 3 Certificate for Sampling and Analysis

This is to certify that the following samples of emissions (air, water, waste water, solid and hazardous wastes) have been collected and analyzed as per the following details:

Sample details	Sampling location	Collected by	Sample collection	
			Date	Time

1	Parameters analyzed on site
2	Parameters analyzed off site
3	Whether samples were preserved as per standard procedure for offsite analysis: Yes/No
4	Parameters analyzed by auditors team:
5	Parameters analyzed by third party : - Name & Address of the laboratory : - Whether the laboratory is classified under Schedule I of the GPCB :
6	Method followed for analysis : - Air emission : - Water/Waste Water : - Solid Waste : - Hazardous Waste :

This is to certify that the third party laboratory in which the analysis has been done is approved under EPA/Accredited by NABL/recognized under Schedule I of GPCB.

Name & Address of the **ENVIRONMENTAL AUDITOR**

Signature of **ENVIRONMENTAL AUDITOR**

Date :

Place:

Performa : 4

APPLICATION FORM FOR ENVIRONMENTAL AUDITORS

To,
The Member Secretary,
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sectro-10 A, Gandhinagar – 382010

Date:

Sub: Application for Environmental Auditors

1	Names of the firm: Address with pin code: Mobile No: Telephone: E-mail: Fax:				
2	Names of the Laboratory of the firm: [if different]: Address with pin code:				
3	**Names, addresses and technical qualifications of members of each Team of Auditors**				
		Name	**Designation**	**Qualification**	**Experience**
3.1	A person processing a degree in Environmental Engineering awarded by a University recognized in India or abroad				
3.2	A person possessing a degree in Chemical Engineering awarded by a University recognized in India or abroad.				
3.3	A person possessing a degree in Chemistry awarded by a University recognized in India or abroad.				
3.4	A person possessing a degree in Micro Biology/Bio-Chemistry, Chemistry, Biotechnology, Zoology, Environment Science, Climate Change, Forensic Science, Life Science or other similar degree, awarded by a recognized university or institute in India or abroad.				

Note:-

1. Out of the four members, one engineer and one scientist shall have a minimum experience of one year in the field of the Environment Management System, in a chemical industry and / or in an environmental analytical laboratory work.
2. Rs.20,000/- non refundable application scrutiny fees be sent along with this application by Demand Draft drawn in favor of 'Gujarat Pollution Control Board' and payable at 'Gandhinagar'
3. An undertaking declaring all the four members of the team are employees/ Partner(s)/ Director(s) and not associated elsewhere be submitted on duly authenticated stamp paper of Rs.100/-
4. Separate sheet may be used, if required

Encl.: As above.

Signature and Name of authorized person

Frequently Asked Questions

Q: What is Environment Audit Scheme?

Ans: Industries and their EMS are required to be inspected and monitored from different angle.

1. Degree of Pollution potential

2. EMS are actually being operated

3. Sampling and monitoring of various pollutants with respect to water, air & hazardous.

With the aforesaid objectives it is in the interest of justice to provide a scheme of environment audit where qualified technical professional would become a link between the individual industries on one hand and the GPCB and other public authorities as well as association of industries on the other hand, with the added vital elements of accountability and transparency.

Q: When the scheme was came in to force?

Ans: Environmental Audit Scheme came in to force by the verdict of the judgment of Honorable High Court of Gujarat in the matter of SCA 770/1995 dated. 20-12-96.

Q: Who is responsible for implementing the scheme?

Ans: Gujarat Pollution Control Board is responsible for implementing the scheme.

Q: What are the basic criteria of man-power to qualify as Environment Audit team?

Ans: An environment audit team shall consist of four technical members i.e. A person possessing a degree in Environmental Engineering or a degree in Civil Engineering with specialization in Environmental Engineering, A person possessing degree in Chemical Engineering/Technology, A person possessing degree in Chemistry or Environmental Science, A person possessing degree in Micro Biology/Bio-Chemistry, Chemistry, Biotechnology, Zoology, Environment Science, Climate Change, Forensic Science, Life Science or other similar degree, awarded by a recognized university or institute in India or abroad.

Q: What other requirement is there to qualify as Environment Audit team?

Ans: A laboratory with basic instrumental facility for sampling and analysis of various pollutants with respect to water, air, hazardous, noise etc.

Q: what is the procedure to get the recognition as Environment auditor?

Ans: Firm is required to submit the application in prescribed format along with all required details/certificates with Rs. 20,000/- fees to GPCB.

Q: How Schedule – I & II auditors can be classified?

Ans: Schedule – I auditors consist of government colleges / reputed institutes / R & D centers etc. whereas Schedule – II auditors are generally private firms/consultants working in the field of EMS and pollution control.

Q: How many maximum audits can be carried out by auditor?

Ans: For one team consisting of 4 technical team members, maximum 15 audits can be carried out in a year.

Q: it is heard that Environment Audit Scheme is modified, what are the changes?

Ans: Yes, the Environment Audit scheme is modified as below: vide office order date: 23-01-2015 with following changes namely:

1. Qualification of team members of auditor
2. Experience of team members of auditor
3. Allotment of industries to auditors on random basis through dedicated software
4. Fee structure
5. Time schedule for audit report submission

In these regards, office order of GPCB No. EAS-C-28/301928 dated: 23.01.2015 may be referred for further clarification.

Q: Is the environmental auditor answerable to GPCB?

Ans: Yes. Auditor is answerable to GPCB at all stages.

Q: Do other States in India have such environmental audit scheme?

Ans: No. Only Gujarat State at present is having the implementation of this scheme through GPCB.

Q: Who bears the fees for environmental audit?

Ans: Industry shall have to bear the Environment audit fees.

Q: Can auditor sublet work related to environment audit?

Ans: No. Subletting of audit work is not permitted.

Q: How does Industry know that auditor is working properly or not? And if Industry is not satisfied with auditor work during the period of audit?

Ans: Industry can report this to GPCB. Get the periodic reports from the auditor and if required, the auditor is obliged to guide the industry for the questions raised by the industry.

Q: If industry has 5 products, of which only one product is falling under the audit scheme, does the industry still need to be audited?

Ans: Yes, Audit scheme is applicable.

Q: How do Industry come to know if my industry falls in Schedule – I or II?

Ans: It is to be decided from the list of product/operation which are listed in schedule- I or II as prescribed in Environment Audit scheme.

Q: What are the consequences if Industry fails to submit environment audit report in stipulated time frame?

Ans: Failure to submit environment audit report within stipulated time frame may lead to appropriate directions from GPCB which may also includes disconnection of water / power supply to the industry.

Q: Can an industry select the auditor of its own?

Ans: Neither auditor nor industries can select the each other vies-a-versa

Q: What should the industry ensure with their environmental auditor?

Ans: The auditor should have a valid recognition at the time of the beginning of the audit period i.e. first April every year.

Q: My industry is ISO: 14001 certified. Do I get any benefit in audit scheme?

Ans: Yes. You need to pay only half the audit processing fees as compared to other units i.e. Rs. 10,000 / - in place of Rs. 20,000 /- for Schedule – I industry and Rs. 5,000 /- in place of Rs. 10,000 /- for schedule – II industry.

Q: We are group of fresh graduates possessing the degrees as per the requirement of GPCB, can we form the environmental audit team?

Ans: All fresh graduates cannot form the audit team. Out of four members at least one Engineer (Chemical or Environmental) and one scientist (Chemistry or Microbiologist) should have a minimum experience of one year in the field of the Environmental Management System, in a chemical industry. The team member having the experience in analytical laboratory shall be considered in addition to the experience in chemical industry in an audit team.

Q: Being an auditor if we found any malpractice by industry during the visit, what we have to do?

Ans: The auditor must clearly report to GPCB about any inconsistency and malpractice being committed/practiced by the industry e.g. dilution of effluents, by pass of untreated effluent or any other activities which are likely to create environmental pollution problems & contrary to the directions issued through consent orders & other letters under the different Acts, by GPCB.

Q: As an industrialist, how can I register a complaint against my environmental auditor?

Ans: All industries have right to complaint against environmental auditor. Industries have to register a written complaint against auditor to GPCB. Complaints against the actions or conduct of a certified auditor will be reviewed and investigated by GPCB. A valid substantiated complaint may result in cancellation of certification/recognisation of the auditors.

GPCB GREEN BUILDING

GPCB
Gujarat Pollution Control Board
Paryavaran Bhavan, Sector-10A
Gandhinagar-382010