

Photograph of Trace Organic Lab (HRMS)

ANNUAL ACTION PLAN

2007-2008

CENTRAL POLLUTION CONTROL BOARD

(Ministry of Environment & Forests)

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1.0 Introduction

Central Pollution Control Board (CPCB) constituted under the Water (Prevention and Control of Pollution) Acts, 1974 is a 100% Grant-in-aid institution of the Ministry of Environment and Forests (MoEF), Govt. of India. CPCB serves as a technical wing of MoEF and coordinates with the State Pollution Control Boards (SPCBs)/ Pollution Control Committees (PCCs) for implementation of plans and programmes relating to abatement of pollution. Project and programmes are executed through in-house efforts and with the assistance of Research Institutions like IITs, Engineering Colleges, Universities and R & D Institutions.

In addition to the implementation of Water and Air Acts, CPCB has planned various programmes relating to implementation of Rules framed under the Environment Protection act, 1986 such as Hazardous Wastes (Management & Handling) Rules, Bio-medical Waste, Municipal Solid Wastes Plastics Waste and others.

The plans and programmes identified for 2007-08 are formulated based on the thrust areas identified by the Ministry of Environment and Forests under the National Environment Policy (NEP), 2006 and also as per the issues raised by the State Pollution Control Boards (SPCBs) and Pollution Control Committees (PCCs).

2.0 Functions of CPCB

The functions of CPCB are specified under Section (16) of the Water (Prevention & Control of Pollution) Act, 1974 and under the Air (Prevention & Control of Pollution) Act, 1981. CPCB is also coordinating important activities under the Water (Prevention & Control of Pollution) Cess Act, 1977 and various functions entrusted under the Environment (Protection) Act, 1986 and Rules made there under.

2.1 Functions of CPCB are specified under Section 16(2) of the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) act, 1981 and these are as under:

- Advise the Central Government on any matter concerning prevention and control of water and air pollution and improvement of the quality of air;
- Plan and cause to be executed a nation-wide programme for the prevention and control or abatement of water and air pollution;
- Co-ordinate the activities of the SPCBs and resolve disputes among them

- Provide technical assistance and guidance to State Boards; carry out and sponsor investigation and research relating to problems of water and air pollution and for their prevention, control or abatement;
- Plan and organise training of persons engaged in programmes on prevention, control or abatement of water and air pollution;
- Organise through mass media, a comprehensive mass awareness programme on prevention, control or abatement of water and air pollution;
- Collect, compile and publish technical and statistical data relating to water and air pollution and measures derived for their effective prevention, control or abatement;
- Prepare manuals, codes and guidelines relating to treatment and pollution and their prevention and control;
- Lay down, modify or annul, in consultation with State Governments, standards for stream and well, and lay down standards for the quality of air; and
- Perform such other functions as and when prescribed by the Government of India.

3.0 Activities and Achievements of 2006-2007

3.1 Pollution Assessment Survey & Monitoring

- Water quality monitoring carried out at 1019 stations and statistically processed data on river basin approach is updated for the website of CPCB.
- Three training programmes were organised for central & state agencies under Ministry of Water Resources for integrated water quality monitoring network, data analysis, validation and interpretation.
- Ambient air quality has been monitored in 115 cities/towns covering 329 locations.
- Source apportionment studies which are primarily based on measurement and tracking down the sources through receptor modeling have been initiated in city of Delhi, Bangalore, Pune, Mumbai, Chennai and Kanpur. Sites for ambient air quality monitoring have been finalised in these cities and procurement of monitoring equipment are completed. Standard operating procedures for sampling and analysis have been developed.

3.2 Laboratory Management

- Samples for PAH analysis collected from NAAQM stations and compounds were extracted and analysed.
- Co-coordinated with State Pollution Control Boards (SPCBs) on initiating bio- mapping studies of State specific rivers. Bio-mapping programme is continued in the States of Kerala, Karnataka, Meghalaya, Tripura, Sikkim and Mizoram.
- A National Referral Trace Organic Laboratory has been set up in CPCB for monitoring of trace levels of persistent organic pollutants (POPs) specially 17 toxic categories of dioxin-furan and poly chlorinated biphenyls (PCBs) congeners with dioxin like toxicity. The laboratory facilities have been further upgraded for analysis of semi volatile organic compounds (SVOCs), herbicides/ carbamates/ 2,4 D and VOCs.
- Central Laboratory and Zonal Laboratories of CPCB participated in Proficiency Testing (PT) Programme organised by Environmental Laboratory Approval Programme Wardsworth Centre, New York, State Department of Health, New York for PT samples related with potable water chemistry, non-potable water chemistry, solid and hazardous waste, potable and non-potable water bacteriology.
- The testing as well as installation of OC/EC Analyzer completed and started analysis of samples.

3.3 Training

Fifteen training programmes were organised on different subjects relating to abatement of pollution which were attended by more than 300 officials of State Pollution Control Boards (SPCBs)/ Pollution Control Committees (PCCs) and from other Departments.

3.4 Information (Database) Management & Library

For setting up of Environmental Data Bank (EDB), modules on air and water quality are made operational. On-line data entry of air and water quality monitoring data is being done by SPCBs/PCCs. EDB could be accessed through CPCB's website. Data of 342 air and 965 water quality monitoring stations is regularly entered.

➤ Environmental Data Bank

Presently, modules on air quality and water quality are made operational. On-line entry for data on air quality monitored under National Air Monitoring Programme and water quality monitored under GEMS/MINARS is being done regularly by SPCBs/PCCs. EDB could be accessed through CPCB's website (<http://www.cpcb.nic.in>). Raw as well as analyzed data could be viewed, downloaded & used for further analyses/ interpretation. So far, data entry has been initiated in respect of 310 NAMP stations and 12 SAMP stations air quality monitoring stations covering 23 States and 3 UTs and 963 water quality monitoring stations covering 33 States/UTs.

➤ On Line Data Transmission from Continuous Ambient air Quality Monitoring Stations.

CPCB operates continuous ambient air quality monitoring (CAAQM) at three fixed locations viz. ITO, Sirifort & Delhi College of Engineering and one Mobile Van. Various pollutants viz. SO₂, NO₂, CO, RSPM, PM_{2.5}, Benzene, Toluene, Xylene, Ozone, etc. are monitored. In order to make these data available to public without any time gap on real-time basis, a network for online real-time data transmission has been established at CPCB

Data could be viewed through CPCB's website (<http://www.cpcb.nic.in>). Air quality data of every 15 minutes (customizable) is being updated and displayed. Besides, analyzed data (short as well as long-term averages) and comparison with prescribed ambient air quality standards, etc. could also be viewed, downloaded for further interpretation or analysis. The values compared with prescribed standards and violations, if any, are being displayed. Software can also analyze the data as desired normally like comparisons with other stations, hourly, eight hourly, monthly, yearly Data analysis etc

➤ Online access of emission data from major industries

A pilot project for establishing online transmission of real-time data from Pragati Power Corporation Limited (PPCL), New Delhi has been completed and real-time data are transmitted online to database server at CPCB - HQ. The emission data of every 60-minute (customizable to 1 min) is being updated and displayed without human interference.

➤ Strengthening of LAN and Internet facility

CPCB local area network established in the year 2000 with 108 nodes has been increased to 143 nodes. The network was upgraded to 2Mbps connectivity and is being maintained with smooth and uninterrupted operation through out the year.

3.5 Industrial Pollution Control

- A total of 50 industries were inspected for verifying compliance status and status report has been referred to concerned State Pollution Control Boards (SPCBs) for taking corrective measures by industries to ensure compliance.
- 54 industries were jointly inspected by CPCB and regional offices of Ministry of Environment and Forests (MoEF) for monitoring of compliance of environmental clearance conditions.
- Reviewed environmental statements in respect of 10 categories of industries and information is utilised for setting up of environmental benchmark for attainment by industries.
- Standards have been finalised/notified or under finalization in respect of various categories of industries like; oil refineries, sulphuric acid plants, petrochemicals. Fertilizers, Ambient air quality criteria, Bulk drugs, Basic organic chemicals, common incinerator, coffee, Hotels, Tea, Poultry, Gelatins, etc.
- Prepared National Chemical Management profile to assess the national infrastructure for the management of chemicals in the country and identifying the gaps for capacity building and priority areas of concern to improve chemicals management.
- Completed study on environmental contamination with Polychlorinated Dioxins
- Cleaner production technologies for the manufacture of vinyl sulphure have been identified including treatment technologies for liquid effluents. Similarly, cleaner production technology for selected during manufacturing units taking Paracetamol as a case study was taken up. The technology evolved suggest replacement of chemical reduction process by iron sludge.
- Plastics manufacturing and recycling industries were identified and monitoring carried out in collaboration with officials of National Productivity Council (NPC) for development of emission/effluent standards for Plastics recycling industries.

- Developed guidelines for design, operation and tail gas treatment and emission standards for common hazardous waste incinerator as well as for industry-specific hazardous waste incinerator.

3.6 Mass Awareness, Publications and NGO Activities

Fifteen technical reports were brought out on various subjects relating to abatement of pollution and theme based "Parivesh" newsletter & Annual Report were published.

3.7 Spatial Environmental Planning

- Out of total 112 Zoning atlas prepared earlier, 94 atlases have been completed and 18 are under finalisation.
- District specific siting guidelines are prepared for 94 atlases.
- One Hundred Six District environmental atlases are prepared and 62 are under preparation. Further, 7 state level environmental atlases are prepared and work for 10 States is under progress.
- Work on Ecocity projects at; Kottayam, Ujjain, Tirupati, Vrindavan and Puri is at different stages.

3.8 Hazardous Waste Management

Coordinated with MoEF and High Power Committee set up by Hon'ble Supreme Court for hazardous waste management activities relating to inventorisation of hazardous waste generating industries, identification of hazardous waste dump sites and matters relating to preparation of remediation plan were coordinated with SPCBs.

4.0 Thrust Areas for Abatement of Pollution (2007-08)

- Continuing on-going programme on Water and Air Quality Monitoring through State Pollution Control Boards (SPCBs) and Pollution Control Committees (PCCs).
- Inter-state water quality monitoring of rivers and assessment of micro pollutants.
- Inventorisation and identification of water bodies requiring action plan for restoration of water quality.
- Completion of ground water quality assessment in metro cities.
- Inventorisation of air polluting sources and thrust on monitoring of Fine Particulate Matter.

- Updating status of management of municipal waste (sewage and solid).
- Assessment of performance of sewage treatment plants and evolving standards for STPs. Exploring possibilities as setting up of decentralized low cost sewage treatment facilities on demo-basis.
- Continuing epidemiological studies on impact of air pollution on human health and particularly in rural areas.
- Continuous ambient air quality monitoring at three locations in Delhi and continuing ambient air quality assessment (manual stations) at seven locations.
- Undertaking analysis of hazardous air pollutants like; Benzene, Poly aromatic hydrocarbons (PAHs), etc. and monitoring of PM_{2.5}
- Co-ordination with SPCBs on setting up of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) in 16 cities and pilot project on operation of CAAQMS based on operation control (OC) and Build, Own and Operation (BOO) model.
- Conducting analytical quality control (AQC) tests for laboratories of SPCBs (including for soil and solid wastes).
- Bactericidal characterization of river Ganga
- Continuation of on-going programme on determining toxicity factor and application of bio-monitoring studies for assessment of water quality.
- Monitoring of Extractable Organic Halides (EOX), trace metal characterization of solid and hazardous waste using ICP-OES and characterization of non-ferrous industries solid waste through EDXRF.
- Monitoring and analysis of PAH, Volatile Organic Compounds (VOCs), Tri-halo-methane (THM), Pesticides and Dioxin (PCDDs) and Furan (PCDF).
- Review of Standards (for liquid effluent and gaseous emissions) and preparing Comprehensive Industrial Documents (COINDS) in respect of different categories of industries; Fertilizer, Dye and Dye Intermediates, Bulk Drug, Basic Organic Chemicals, Pesticides, Petrochemicals, soda ash, SO₂ & NO_x for Power Plants, BOD plants for Iron and Steel, non-recovery type coke oven and coal briquetting plants, primary copper, zinc and lead, Aluminum, SO₂ & NO_x for cement, fermentation maltries/ breweries, soft drinks, soap and detergents, plaster of paris products, tanneries, service stations, dal besan, pickling, starch, plywood etc.

Follow-up on implementation of Corporate Responsibility for Environmental Protection (CREP) in respect of 17 categories of industries such as; oil refineries, petrochemicals, dye and dye intermediate, sulphuric acid plants, fertilizer, tanneries, pesticides, pharmaceuticals, thermal power plants, iron & steel, cement, etc.

- Undertaking in-depth performance studies of pollution control devices as well as of steps taken to minimize pollution load in selected categories of industries. Specific pollutant monitoring like mercury, carbon-disulphide (CS₂) and hydrogen sulphide (H₂S) will also be taken up around industries.
- Steps towards implementation of noise standards for Diesel Generator sets and evolving standards for off-highway vehicles and construction equipment.
- Development of standard and guidelines for chemical waste incinerators, control of volatile organic compounds (VOCs) emissions from industries, guidelines for asbestos mining, fugitive emission control from coal and fly ash storage section in power plants, management of solid and hazardous waste in integrated iron and steel plants, utilisation of spent wash for composting, utilization of liquid effluents from pulp and paper and distilleries for irrigation, water conservation in sugar industries, distilleries etc.
- Inventorisation of Red category of industries and undertaking assessment of environmental status in a few industrial estates as well as assessing their assimilative carrying capacity of pollution load.
- Identification of hazardous waste streams and minimizing of waste in; paint industries, iron and steel, aluminum, sodium-di-chromate, galvanizing, textile and dyeing industrial sectors.
- Evolving environmentally sound technologies for recycling of electronic wastes.
- Follow-up on Supreme Court's directives on hazardous waste management and particularly relating to; National inventory of hazardous waste generating industries, identification of dump-site and preparing remediation plan for identified sites.
- Developing guidelines, manual on hazardous waste analysis, preparation of remediation plan for dumpsites, etc.
- Co-ordination with SPCBs and concerned Central and State Governments on implementation of rules relating to plastics and municipal solid wastes. Specific attention will be laid on management of waste at hilly regions.

- On-line access of emission data from major industries and real time data transmission from continuous air quality monitoring station in Delhi to CPCB website will be continued.
- Emphasis on designing, development and implementation of integrated environmental management system in CPCB.
- Assessing needs for strengthening of SPCBs and PCCs for effective functioning, particularly for strengthening of laboratories.
- Compliance verification under environment surveillance activities in respect of 17 categories of industries, performance evaluation of sewage treatment plants (STPs), common effluent treatment plants (CETPs), common bio-medical waste treatment facilities (CBMWTF), common treatment storage and disposal facilities.
- Continuing on-going programme on water and air quality monitoring through State Pollution Control Boards (SPCBs) and Pollution Control Committees (PCCs).
- Demonstration Project on Utilisation of Plastics Waste in Road Construction.
- Evolving Environmental Standards for Plastics Manufacturing & Recycling Industries.

Budget Estimate of the Schemes for 2007-08

HEAD OFFICE

Name of the Division	Proposed Budget (Rs. in Lakhs)
Pollution Assessment Survey & Monitoring	561.00
Laboratory Management	557.77
Pollution Control Implementation-I	253.00
Pollution Control Implementation-II	98.75
Pollution Control Implementation-III	134.21
Urban Pollution Control Division	349.044
Plan & Coordination & Parliamentary Matters	866.976
PR, Hindi Section	72.00
AS Section	28.00
Library	25.20
Hazardous Waste Management	98.80
Training	60.50
Building Maintenance	296.00
Computer	99.00
TOTAL (A):	3500.25

ZONAL OFFICE

Name of the Zonal Office	Proposed Budget (Rs. in Lakhs)
Kolkata	161.80
Vadodara	168.95
Bhopal	63.00
Shillong	80.00
Lucknow	234.50
Bangalore	291.50
TOTAL (B):	999.75

GRAND TOTAL (A+B)= Rs. 4500.00 Lakhs.

5.0 SUMMARY OF SCHEME-WISE ALLOCATION FOR 2007-08

Sl. No.	Project Heads	Allocation (Rs. in Lakh)		
		Head Office	Zonal Offices	Total
I	Pollution Assessment—Survey & Monitoring	561.0	125.50	686.50
II	Lab Management	557.77	358.50	916.27
III	Development of Standards and Guidelines	172.48	00.00	172.48
IV	Training	60.50	7.00	67.50
V A	Information Management (Database)	99.0	17.50	116.50
V B	Library	25.20	7.0	32.20
VI	Pollution Control Enforcement	1686.70	471.75	2158.45
VII	Pollution Control Technology	153.8	1.0	154.80
VIII	Mass Awareness, Publications & NGO Activities	80.0	7.0	87.0
IX	Hazardous Waste Management	103.80	4.50	108.3
	TOTAL	3500.25	999.75	4500.00

6.0 PLANS & PROGRAMMES OF HEAD OFFICE 2007-08
(SCHEME-WISE ALLOCATION)

6.1 Pollution Assessment Survey & Monitoring (PAMS)
(Project Head-I)

Sl. No.	Schemes	(Rs. in Lakh)
		Allocation for 2007-08
1	National Air Quality Monitoring Programme (NAMP) including inclusion of toxic and critical pollutants monitoring in urban areas and critically polluted areas (on going)	250.00
2	Follow up on Court matters including field investigations (on-going)	1.00
3	Strengthening of NAMP as per auto fuel policy (New)	50.00
4	Inventory of Air Polluting Sources (New)	32.00
5	Studies on fine particulate matter (New project)	10.00
6	Calibration & Evaluation of National Ambient Air Quality Monitoring Stations (New)	25.00
7	Assistance to Indian Meteorological Department (IMD) for operation & Maintenance of meteorological station at Agra (New)	22.00
8	Assessment of ground water quality in major cities of India (New)	10.00
9	National Water Quality Monitoring Programme (NWQMP)	100.00
10	Microbiological quality standards for STPs (New)	2.00
11	Development of software for data management under NAMP & NWMP (New)	15.00
12	Decentralise low cost sewage treatment scheme (New)	8.00
13	Status of water supply wastewater generation, treatment and disposal in class-I and class-II towns (updaton)	10.00
14	Performance study of STPs (New project)	3.00
15	Interstate river water quality monitoring (New)	2.00
16	Inventorisation of water bodies- identification of polluted water bodies in States (rivers, lakes, ponds, wetlands and State specific important water bodies)	10.00
17	Epidemiological studies-air pollution and health-rural areas	10.00
18	Hydrology Project Phase-II (Hydrological information System and design aid)	Funds from MOWR 1.0
	TOTAL	561.00

6.2 Laboratory Management and R & D
(Project Head-II)

Sl. No.	Schemes	(Rs. in Lacs) Allocation for 2007-08
	AIR LABORATORY	
1	Operation & Maintenance of Continuous Air Quality Monitoring Stations in Delhi (including BTX monitoring) (on going)	25.00
2	Quality Assurance in Air Quality Measurements (on going)	1.50
3	Polynuclear Aromatic Hydrocarbon sampling and analysis in Delhi (on going)	2.00
4	Validation of Methodology for Sampling and Analysis of Benzene using GC-MS, GC-ATD & GC-FID (on going)	2.00
5	Assessment of Noise Level in Delhi (on going)	1.00
6	Monitoring of Benzene in Delhi (passive sampling method) (on going)	3.00
7	Inspection of Authorised Pollution Checking Centres in Delhi (on going)	0.50
8	Operation & Maintenance of Ambient Air Quality Monitoring Stations at seven locations in Delhi (Manual) (on going)	10.00
9	Air Quality Assessment in different areas including Traffic Intersections in Delhi (on going)	2.00
10	Studies on Spatial and Temporal Distribution of Ambient Ozone in Delhi (on going)	0.50
11	Development and Strengthening of Monitoring of Ambient PM2.5 at Delhi (on going)	5.00
12	Manual Monitoring of Ambient Air quality in five Zonal Offices (each one location) and HQ for reporting in television (on going)	5.00
13	Development of Certified Reference Material (CRM) of Air Mixture (on going)	5.00
14	Q & M of SODAR SYSTEM and Weather Station (on going)	2.00
15	Rain Water Characterisation (on going)	2.00
16	Characterisation of Particulate Matter for Source Apportionment and Source Identification (on going)	10.00
17	Setting up of Continuous Air Quality Monitoring Stations in 16 cities as per directions of Hon'ble Supreme Court (Release of funds to remaining four SPCBs) & networking of sixteen cities data with central computer of CPCB, Delhi (on going)	40.00
18	Standardization of Method for measurement of Hydrocarbon in source emission (on going)	3.00
	Sub Total:	119.50

		(Rs. in lakhs)
Sl. No.	Schemes	Allocation for 2007-08
WATER LABORATORY		
19	Analytical quality control (AQC/ water) for Central and State Pollution Control Boards, Pollution Control Committees & for laboratories recognized under E. P. Act (on going)	3.00
20	Analytical quality control (AQC/ Soil and Solid Waste) for Central and State Pollution Control Boards, Pollution Control Committees & for laboratories recognized under E. P. Act (on going)	2.00
21	Development of BOD Biosensor for rapid estimation of BOD for 17 categories of industries (on going)	12.00
22	Sludge Reagent Product (SRP)- an innovative process for water and wastewater treatment-flocculation study and setting up of pilot plant at Bhagirathi water works-Delhi (on going)	15.00
23	Pilot scale studies on the performance on Eco-Bio Block for treatment of waste water	15.00
24	Development, distribution and fabrication of WTK (on going)	4.00
Sub Total:		51.0
BIO-SCIENCE LABORATORY		
25	Determination of Fish Toxicity in terms of toxicity factor after mixing of industrial effluent (electroplating units) with sewage waste water (on going)	0.50
26	Water Quality Assessment through Biomonitoring in various aquatic source (on going)	3.50
27	Bactericidal characterization of River Ganga and its tributary and impact of barrages. (new project)	2.00
28	Water Quality of River Yamuna sponsored by NRCD MoEF (on going)	NRCD funds
29	Performance study of sewage treatment plants in Delhi and Haryana under Yamuna Action Plan (on going)	NRCD funds
30	Performance monitoring of oxidation pond based sewage treatment plant in UP under Yamuna Action Plan (on going)	NRCD funds
31	Studies of Environmental stress in Himalayan sub region due to religious tourism at Char Dham (Badrinath, Kedarnath, Gangotri and Yamunotri) at Uttaranchal (on going)	2.50
32	Removal of heavy metal from waste water by treatment with biosorbent	0.27
Sub Total:		8.77

		(Rs. in Lacs)
Sl. No.	Schemes	Allocation for 2007-08
TREATABILITY LABORATORY		
33	Indoor & outdoor air-micro flora study at Delhi (on going)	5.00
34	Microbial production of ethanol from different waste-starches (on going)	5.00
35	Production of hydrogen (H ₂) gas from drainage effluents of Delhi (New)	5.00
36	Upgradation of treatability lab (New)	10.00
Sub Total:		25.00
INSTRUMENTATION LABORATORY		
37	Establishment of methodology for Extractable Organic Halides (EOX) in soil and sludge (on going)	0.50
38	Source Apportionment of Ambient Air Particulate in various cities through EDXRF (collaborative project along with Air lab) (on going)	2.00
39	Studies on correlation between TOC, BOD, COD (subject to installation of TOC instrument) (New)	2.50
40	Trace metal characterization of solid and hazardous waste using ICP-OES (New)	1.50
41	Characterization of non ferrous industry solid waste through EDXRF (New)	3.00
42	Annual maintenance contract of various equipments (AAS, AOX Analyzers etc.)	1.00
Sub Total:		10.50
NATIONAL REFERENCE TRACE ORGANIC LABORATORY		
43	Determination of Poly aromatic hydrocarbons (PAHs) in surface water (Yamuna river) and water treatment plants in Delhi (on going)	0.50
44	Determination of volatile organic compounds (VOCs) in drinking water by purge and trap GC-MS (on going)	1.00
45	Operational contract for Air Handling Unit, Electrical & Fire Fighting maintenance (on going)	10.00
46	Annual maintenance contract of Major Instruments/Equipments (on going)	5.00
47	Development and standardization of methodology sampling and analysis for measurement of hazardous organic compounds Dioxin (PCDDs) and Furan (PCDF) (New)	15.00

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
48	Risk assessment of pesticide residues in human with special reference to adverse Reproductive outcomes in Delhi population (collaborative project with UCMS and GTB hospital)- Release of funds to GTB Hospital. Collaborative project with UCMS/GTB hospital (on going)	0.50
49	Monitoring of pesticides residues at national level- sponsored project by Ministry of Agriculture/IARI New Delhi (New)	Sponsored funds allocated by IARI, New Delhi
50	Development and standardization of methodology for measurement of various organo phosphorus pesticides, herbicides and carbamates using High Performance Liquid Chromatograph (New)	2.00
Sub Total:		34.00
INFRASTRUCTURE LABORATORIES: GENERAL		
51	Pilot project in identified cities for involving private participation in the management of Continuous Ambient Air Quality Monitoring Station/Network under the Operation Contract (OC) (on going)	55.00
52	Pilot project in identified cities for involving private participation in the management of Continuous Ambient Air Quality Monitoring Station/Network under the Build, Own and Operate (BOO) (on going)	25.00
53	Networking of Continuous Ambient Air Quality Monitoring Station in identified 10 cities namely Mumbai, Kolkata, Chennai, Delhi, Hyderabad, Bangalore, Ahmedabad, Vadodara, Kochi and Vishakhapatnam (on going)	2.00 (service activity)
54	NABL- Laboratory Accreditation activities (on going)	3.00
55	Implementation of Accreditation system as Proficiency Testing (PT) provider through NABL (on going)	5.00
56	Upgradation of laboratories (on going)	60.00
57	Procurement of instruments, equipment and spare parts for various labs of CPCB (on going)	100.00
58	Implementation of LIMS in laboratory and upgradation of networking	20.0
59	Japanese debt relief grant assistance for project for import of equipment	30.0

		(Rs. in Lacs)
Sl. No.	Schemes	Allocation for 2007-08
60	Maintenance of laboratories (electricity, water, telephone, fax, repair & services etc.) (on going)	5.00
61	Service activities for Indo-GTZ projects etc. (on going)	1.00
62	Recognition of laboratories under Environment Protection act (on going)	1.00
63	Performance evaluation of CAAQMS & networking of CAAQM maintained by industries (on going)	2.00
Sub Total:		309.00
GRAND TOTAL:		557.77

6.3 Pollution Control Implementation-I (Project Head- III, VI, VII, IX)

		(Rs. in Lacs)
Sl. No.	Schemes	Allocation for 2007-08
	Project Head-III Development of Standards & Guidelines	
1	Development of emission standards for fertilizer industries (on going)	2.50
2	Review of effluent standards and development of emission standards for dyes and dye intermediate industries (on going)	10.00
3	Review of Ambient Air Quality Criteria/Standards (on going)	9.00
4	Guidelines for vapour recovery systems at gasoline filling stations (Scheme could not be initiated during 2006-07 due to shortage of manpower) (on going)	2.00
5	Preparation of COINDS document & revision of status on pesticides industry (on going)	6.00
6	Development of National Emission Standards for Bulk Drug Industries (on going)	3.50
7	Review of Effluent Standards and Development of Emission Standards for Basic Organic Chemicals Manufacturing Industry (on going)	5.00
8	Design, operation and tail gas treatment for pollution control from the chemical waste incineration (on going)	17.00
9	Finalization and publishing of document on emission standards for Petrochemical Industry (New)	2.00
	Sub Total:	57.0
	Project Head-VI Pollution Control Enforcement	
1	Implementaton of action points agreed under CREP for Oil refineries and Petrochemical industries (on going)	0.50
2	Implementation of action points agreed under CREP for dyes and dye intermediate industries (on going)	2.00
3	Air Quality Monitoring, Emission Inventory and Source Apportionment Studies for Indian Cities (on going) (Payment to IIT(M), IIT(K), IIT(M), NEERI, etc.	160.0
4	Performance evaluation of air quality models (scheme could not be continued during 2006-07 due to shortage of manpower) (on going)	3.00
5	Preparation of manual for conducting air quality modeling studies (scheme could not be initiated during 2006-07 due to shortage of manpower) (on going)	0.10
6	Monitoring of ground water and soil quality near old petrol pumps and formulating guidelines for under ground storage tanks (scheme could not be initiated during 2006-07 due to shortage of manpower) (on going)	3.00

(Rs. in Lakhs)		
Sl. No.	Schemes	Allocation for 2007-08
7	Implementation of standards and other issues related to oil refineries, sulphuric acid and fertilizers industries (on going)	0.50
8	ESS activities (on going)	2.0
9	Implementation of Action Points under Corporate Responsibility for Environmental Protection (CREP) in respect of pesticide & pharmaceuticals industries (on going)	2.0
10	Implementation of standards and monitoring of mercury in and around Chlor-alkali Sector) (on going)	2.5
11	Monitoring of CS ₂ /H ₂ S in and around Man Made Fibre (Rayon plants) units (on going)	2.0
12	Preparation of National Chemical management profile for India.	6.0
	Sub Total:	183.60
	Project Head-VII Pollution Control Technology	
1	Implementation of the Stockholm Convention on Persistent Organic Pollutants (POPs) in the Chemical Industries in India (on going)	1.0
2	Control of offensive odour substances with specific reference to selected industrial process (on going)	2.30
3	Review of toxicity factor in treated and untreated effluents from the pesticide industries	2.10
4	Preparation of documents on Water Treatment Plants (New)	2.00
	Sub Total:	7.40
	Project Head-IX Hazardous Waste Management	
1	Identification of Hazardous Waste streams in paint sector, their characterization and waste minimization option (on going)	2.0
2	Review of effluent standards for Soda Ash Industry- Seawater monitoring around effluent discharge locations of Soda Ash Units in Saurashtra Coast-Finalization of Environmental Guidelines for Soda-Ash Industry (on going)	3.0
	Sub Total:	5.0
	GRAND TOTAL	253.0

6.4 Computer Section (Project Head-V (A))

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
	Project Head-V (A) Computer Division	
1	Operation, Maintenance & Strengthening of Computer Network (on going)	45.50
2	Environmental Data Bank (on going)	16.50
3	On-line access of emission data from major industries (Pilot Project on Pragati Power Plant, Delhi) (on going)	10.00
4	Intra Portal of Central Pollution Control Board	NIL
5	Real time data transmission from Continuous Air Quality Monitoring Stations of Delhi to CPCB's website (on going)	10.00
6	Website maintenance and updation (upgradation of website) (on going)	2.00
7	Voice over IP telephony including video conferencing among CPCB Zonal Offices (New)	10.00
8	Development of computerized system for streamlining the process for inspection of industries and follow-up actions (New)	5.00
	Sub Total:	99.00

PCI-II

6.5 Pollution Control Implementation-II (Project Head-III, VI, VII)

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
	Project Head-III Development of Standards & Guidelines	
10	COINDS for Thermal Power Plants (on going)	1.25
11	Development of SO ₂ & NO _x emission standards for coal fired Thermal Power Plants (on going)	NIL
12	Review of notified standard and development of Clean Technology for BOD Plant of Steel Industry (on going)	0.50
13	Development of environmental standards and guidelines for pollution prevention for no-recovery type coke oven plants (on going)	0.50
14	Revision of environmental standards for Beehive coke oven plants, soft coke plants and Coal Briquette Industry (on going)	0.50
15	Development of COINDS on primary copper, lead & zinc industries (on going)	0.50
16	Revision of Comprehensive Document (COINDS) for Aluminium Industry (on going)	1.00
17	Assessment of fugitive emissions and development of environmental guidelines for control of fugitive emissions in cement manufacturing industries (on going)	2.00
18	Development of guidelines and code of practice for control of fugitive emissions from coal and fly ash storage and transfer points in Thermal Power Plants (New)	2.50
19	Utilization of Red Mud generated from the Aluminium Industry (New)	2.50
20	Development of guidelines for the management of solid waste and hazardous waste generated in Integrated Iron & Steel Industry (New)	3.00 (HWMD)
21	Description of Clean Technology and Development of Environmental Standards for Lime Stone Mining (New)	7.00
22	COINDS for cement plants (New)	8.00
	Sub Total:	29.25

		(Rs. in Lacs)
Sl. No.	Schemes	Allocation for 2007-08
	Project Head-VI Pollution Control Enforcement	
13	Expert Committee on "Emissions from RIC Engines for off-road applications" (on going)	1.00
14	National Committee on Noise Pollution Control (on going)	1.00
15	Implementation of noise/emission standards for generator sets (including purchase of stationary items) (on going)	2.50
16	Compliance testing of fire-crackers (including purchase of instruments) (on going)	5.00
17	Implementation of standards in TPPs, iron & steel, cement, aluminium, lead, zinc and copper smelters etc. including inspection/visits, cubicles for officers in PCI-II Hall (Room no-301) including re-installation of existing split AC's, stationary including computer stationary such as floppy, CDs, Software's etc. telephone, transport and salaries of DEO and JRFs (on going)	15.00
18	Ambient noise monitoring in Metro Cities (Delhi, Mumbai, Chennai, Kolkata) (on going)	5.00
19	Assessment of water consumption & waste water generation per MW of electricity generation (both coal and gas fired) thermal power plants including scope for further conservation of water (on going)	2.50
20	Development of measurement facility for HC/PAH from aluminium plant (on going)	0.50
21	Development of noise standards for off-highway vehicle/construction equipment (New)	10.00
22	Performance evaluation of by-product recovery type coke oven plants of integrated iron and steel industry with respect to compliance to the notified standards (New)	1.00
	Sub Total:	43.50

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
	Project Head-VII Pollution Control Technology	
05	Standardization of monitoring and analysis procedures for by-product recovery type coke oven emissions (on going)	0.50
06	Development of Clean Technology and environmental standards for sintering plant of steel industry (on going)	6.50
07	Assessment of green house gas emission potential of various clean coal technologies (supercritical, IGCC and CFBC) in comparison to conventional (pulverized fired) power generation technology in Indian context (New)	2.00
08	Assessment of green house gas emission from cement plants and suggestions for its reduction by using options of blended material/alternate fuel/ newer technologies (New)	5.00
09	Study of environmental problem of Aravali Hills and preparation of action plan for restoration of environmental quality (Chhitorgarh and Udaipur post) (on-going)	3.50
10	Cost benefit analysis of recycling ash pond effluent (on-going)	2.0
11	Demonstration of co-incineration of used tyres/ paint sludges/CETP sludge in cement kiln (on going)	6.50
	Sub Total:	26.00
	Total (A):	98.75

6.6 Building Project (Project Head-VI)

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
	Building Project (P-VI)	
23	Maintenance of Parivesh Bhawan building (on going)	75.00
24	Development and maintenance of lawn & plantation (on going)	2.00
25	Energy audit of Parivesh Bhawan and implementation of recommendations	6.00
26	Replacement of 02 nos. of existing elevators of Olympus makes & procurement of 625 KVA DG set (on going)	85.0
27	Fuel and maintenance charges for vehicles (on going)	35.00
28	Overhauling of electrical sub-station equipments replacement of existing HT panels/ accessories/water lifting pumps/ motor and procurement of 500 KVA transformer	20.00
29	Distempering, painting & polishing work in Parivesh Bhawan	5.00
30	Miscellaneous civil works in Parivesh Bhawan	5.00
31	Modernisation of Fire Fighting and Detection system at Parivesh Bhawan (on going)	5.00
32	Replacement of old AC's drawing heavy current.	5.00
33	Modernization/replacement of existing EPABX system	5.00
34	Renovation of existing compound/security lightning system in Parivesh Bhawan	2.00
35	Rubbing and polishing of Kota stone from ground floor to fifth floor	2.00
36	Renovation of staircase and lift lobby area and reception	5.00
37	Renovation of toilets in administrative wing	10.00
38	Upliftment/improvement of garden area including fountains	4.00
39	Replacement of vehicles for monitoring	25.00
	Total (B):	296.0

PCI-III

6.7 Pollution Control Implementation-III (Project Head-III, VI, VII)

Sl. No.	Schemes	(Rs. in Lakhs) Allocation for 2007-08
	Project Head-III Development of Standards & Guidelines	
23	Guidelines for utilization of spent wash for composting (on going)	4.90
24	Guidelines for utilization of effluent from pulp and paper mills for irrigation purpose (on going)	6.00
25	COINDS for fermentation industry (on going)	4.00
26	Revision of COINDS for Maltries & Breweries (on going)	2.90
27	Revision of COINDS for soft drinks industries (on going)	2.50
28	Development of guidelines for water conservation in sugar mills (on going)	0.70
29	Development of guidelines for water conservation in distillery industry (on going)	1.56
30	Committed expenditure for completion of various projects (New)	3.00
	Sub Total:	25.56
	Project Head-VI Pollution Control Enforcement	
40	Performance evaluation of air pollution control system in sugar mills (on going)	1.40
41	Performance efficiency evaluation of bio-gas digesters & two stage aeration system and treatability study of two stage aeration system for distillery effluent (on going)	3.00
42	Performance study of pollution control measures in textile industry (on going)	0.30
43	Performance study of pollution control measures in slaughter house (on going)	0.30
44	Environmental Surveillance Squad (ESS) for pulp & paper, sugar, distillery and other agro-based industries etc. (New)	5.00
45	2 nd Training Programme on slaughter house (New)	5.00
46	Committed expenditure for completion of various projects (New)	2.00
	ESS Activity	
47	Pollution control in 17 categories of industries (on going)	0.25
48	Inventorisation of industries in red category (on going)	5.00
49	Monitoring of ESS inspection and follow up actions (on going)	0.50

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
50	Pollution control in problem areas (on going)	0.50
51	Industrial pollution control along rivers & lakes (on going)	1.50
52	Study on environmental status of a few industrial estates/areas (on going)	10.00
53	Study on pollution carrying capacity of a few industrial estates/areas (on going)	10.00
Sub Total:		44.75
Project Head-VII Pollution Control Technology		
12	Feasibility studies on wastewater treatment management with zero liquid effluent discharge for textile sector in Tirupur & Erode (executed through Zonal Office, Bangalore) (on going)	27.30
13	Utilisation of distillery effluent as a source of nutrient for crop production in different agro-climatic regions of India	0.30
14	Demonstration of RO on pilot scale for treatment of waste water from alkali extraction and foul condensate from multiple effect evaporators in a pulp & paper mill (New)	25.00 (RE-275.00)
15	Waste management in Edible Oil Industry (New)	3.00
16	Waste management in dairy industry (New)	3.00
17	Performance evaluation of Air Pollution Control System in pulp & paper industry (New)	3.00
18	Lab study for evaluation of tertiary sedimentation as a terminal unit of UASB for sewage treatment (New)	0.30
19	Committed expenditure for completion of various projects (New)	2.00
Sub Total:		63.90
GRAND TOTAL:		134.21

6.8 Urban Pollution Control Division (UPCD)

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
	Project Head-III Development of Standards & Guidelines	
31	Preparation of COINDS on soaps & detergents (on going)	4.50
32	Preparation of COINDS on plaster of paris (on going)	2.59
33	Development of National Standards for Rubber Products Manufacturing Industries (MoEF Project) (on going)	1.48
34	Revision of COINDS on tanneries (on going)	6.5
35	Cashew seeds processing industry (on going)	2.0
36	Compilation of MSDS for 708 hazardous, toxic and/or flammable chemicals (on going)	5.00
37	Pollution standard for service station/workshop (on going)	5.1
38	Arc & induction furnace (on going)	6.5
39	Preparation of COINDS for pickling industries and development of environmental standards (New)	5.0
40	Revision of COINDS for starch industries and development of environmental standards (New)	7.0
41	COINDS for Activated carbon manufacturing unit (New)	5.00
42	Pollution control guidelines and standard for Re-rolling mills (New)	5.00
43	Environmental standards for plywood industry (New)	5.0
	Sub Total:	60.67
	Project Head-VI Pollution Control Enforcement	
54	CREP implementation for Tannery Sector (on going)	2.0
55	Notification of standards for electroplating industries (New)	1.0
	Sub Total:	3.0
	Zoning Atlas	
56	Spatial Environmental Planning Programme (on going)	150.0
57	Eco city programme (on going)	50.0
	Sub Total:	200.00
	Vehicular Pollution Control	
58	Ambient air quality status of Kolkata with reference to Ozone, VOCs including carbonyls	16.874
59	Performance evaluation of catalytic converter in on-road vehicles	10.0
60	Auditing of PUC centers in Delhi and follow up of auto fuel programme in India	2.0
	Sub Total	28.874

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
	Project Head-VII Pollution Control Technology	
20	Removal of suspended impurities in the saline water stream to obtain better salt in the solar evaporation pans (on going)	3.50
21	Establishment of Common Chrome Recovery Unit (CCRU) at Kanpur (on going)	1.0
22	Conducting workshops and setting up of demonstration units for cyanide free electroplating (on going)	3.0
23	Performance evaluation of brick kilns (on going)	2.00
24	Evaluation and improvements in design of clamp kiln (New)	5.00
25	Demonstration plant for natural gas based brick kiln (New)	10.0
26	Improved upon the awas and design of vertical bhatti for eastern wares and charco/ making (New)	5.0
27	Performance evaluation of CETPs	7.0
28	Inventorization of SSI, (Kerala, Delhi, Punjab, Haryana)	20.0
	Sub Total:	56.50
	GRAND TOTAL	349.044

6.9 Training

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
	Project Head-IV Training	
01	Training (on going)	55.00
02	Ecomark (on going)	0.50
03	Design, development and implementation of Integrated Environmental Management Systems in CPCB premises (New)	5.00
	Sub Total:	60.50

6.10 Plan Co-ordination & Parliamentary Matters (PCP)

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
	Project Head-VI Pollution Control Enforcement	
61	Co-ordination with SPCBs including assistance for subject specific programmes and parliamentary matters (on going)	300.00
62	Office co-ordination (including Parliamentary matters) and salaries of Directors, Additional Directors, ESS Staff, scientific and technical staff of projects (on going)	272.976
63	Construction of Zonal Office building (on going)	50.00
	Sub Total:	622.976
	Municipal Solid Waste Management (MSW)	
64	Implementation of MSW Rules, 2000, Demonstration Projects and specific programmes (on going)	200.00
	Sub Total:	200.00
	Plastics Waste Management (PWM)	
65	Implementation of Plastics Manufacture & Usage (Amendment) Rules, 2003 (including demo projects for plastics waste processing technologies, Development of Standards etc.) (on going)	30.00
66	Performance Studies of Built Roads (TCE, Madurai) (on going)	7.00
67	Establishment of Biodegradable plastics & Impact on environment (CIPET) (on going)	7.00
	Sub Total:	44.00
	GRAND TOTAL:	866.976

6.11 PR, Hindi Section (Project Head –VIII)

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
	Mass Awareness, Publications & NGO Activities	
01	Exhibitions/ Workshops/ Mass Awareness Activities (on going)	4.00
02	Advertisements (on going)	12.00
03	CPCB Publications (theme based Parivesh News Letters) (on going)	30.00
04	Infrastructure Development & Salary of ENVIS Staff (on going)	10.00
05	Official Meetings expenses (on going)	4.00
06	Purchase of VAN and fabrications Mobile Exhibition (on going)	6.00
07	Coordinating with SPCBs for study on the methods and effects of various Mass Awareness Programmes organized by SPCBs (on going)	2.00
08	Implementation of Rajbhasha (on going)	4.00
	TOTAL:	72.00

6.12 AS Section

Sl. No.	Schemes	(Rs. in Lakhs)
		Allocation for 2007-08
	Project Head-VI Pollution Control Enforcement	
68	National level & regional level conference of Chairmen & Member Secretaries of CPCB/SPCBs/PCCs (on going)	6.00
69	Staff salary (on going)	5.00
70	Redressal of public complaints (on going)	1.00
71	Board Meeting (on going)	6.00
72	Organizing conference on follow-up of corporate responsibility for Environmental Protection (CREP) (on going)	1.00
73	Application received under Right to Information Act, 2005 (New)	1.00
	Sub Total:	20.00
	Project Head-VIII Mass Awareness, Publications & NGO Activities	
09	Financial assistance to NGOs for conducting programmes (on going)	2.00
10	Training programme for NGOs on prevention & control of pollution (on going)	3.00
11	Interaction meet with NGOs (on going)	3.00
	Sub Total:	8.00
	GRAND TOTAL:	28.00

6.13 Library (Project Head -V B)

Sl. No.	Schemes	(Rs. in Lakhs)
		Allocation for 2007-08
01	Purchasing of books, newspaper and magazine (on going)	5.00
02	Subscription to journals and periodicals (on going)	10.00
03	Renovation of the library (on going)	10.00
04	Security at the entrance of the library (on going)	0.20
	TOTAL:	25.20

6.14 Hazardous Waste Management Division (Project Head -IX)

Sl. No.	Schemes	(Rs. in Lakhs)
		Allocation for 2007-08
03	Identification of hazardous waste streams, their characterisation and waste minimisation options iron steel, Aluminium, Sodium dichromate and Galvanising sector (on going)	0.6
04	Identification of hazardous waste streams, their characterisation and waste minimisation options in selected small scale sectors (Textile, dyeing, hardening of steel through PPCB) (on going)	0.6
05	Registration of the HW recycling/rerefining industries and related activities (on going)	15.00
06	Environmentally sound technologies for E-Waste recycling (on going)	4.50
07	Characterization of Residue and Spent clay generated from used oil re-refining (on going)	5.00
08	Inspection of Health Care and Bio-Medical Waste Treatment facilities (on going)	1.00
09	Monitoring of the implementation of BMW Rules in Health Care facilities (on going)	2.00
10	Evaluation of State of Art treatment technologies for Bio-Medical Waste Management (on going)	1.00
11	Organization/sponsoring of programmes on Bio-Medical Waste Management (on going)	3.00
12	Implementation of Battery Rules (on going)	0.50
13	Implementation of Hon'ble Supreme Court Directives on Management of Hazardous Waste and related activities including publication of national inventory of HW generating units and HW Dumpsites & their Remediation Plans (on going)	10.00
14	Organization of Regional Trainings or Workshops for the officials of Pollution Control Boards on HW management activities (on going)	5.00
15	Review of assessment of HW Dumpsites and rehabilitation plans of the HW Dumpsites and related matters (on going)	3.00
16	Determination of concentration of identified pollutants in the impact area through field study (sampling & analysis of groundwater and soil samples) around Bichhri village in Rajasthan (on going)	17.00
17	Updating of manual on "Sampling, Analysis & Characterization of Hazardous Wastes" (on going)	5.00
18	Development of guidelines for remediation of contaminated sites (on going)	5.00
19	Evaluation of the requests seeking exemption from Schedule-1 (on going)	2.00
20	Development of Criteria for Remediation of Contaminated Sites (New)	10.00

Lakhs)		(Rs. in
Sl. No.	Schemes	Allocation for 2007-08
21	Identification of hazardous waste streams, their characterization and waste minimization options in pesticide sector (additional products)	3.60
22	Solidification/ Stabilisation techniques for immobilisation of hazardous waste	5.0
Total		98.80

7.1 Zonal Office-Kolkata

Sl. No.	Schemes	(Rs. in Lakhs) Allocation for 2007-08
	Project Head-I Pollution Assessment Survey & Monitoring	
1	Studies on marine debris (on going)	0.50
2	Monitoring of ground water in Arsenic and Fluoride effected areas in Eastern Part of India (on going)	0.50
3	Ambient air quality monitoring in selected towns with respect to PAH, Metals and Ion (on going)	0.50
4	Studies on environmental status of coastal aquaculture including Effluent Treatment System in West Bengal & Orissa (on going)	0.30
5	Surveillance of air and water quality monitoring stations	0.25
6	O & M of air quality monitoring at Canning under Male Declaration (on going)	4.50
7	Interstate river monitoring (on going)	2.00
8	Assessment of residual pesticide in Tea Gardens of North Bengal and its impact on agricultural field and surface run off (on going)	1.00
9	Inventory and in-depth studies of red categories of industries in Durgapur, Jamshedpur and Rourkela (on going)	6.50
10	In-depth study of polluted river stretch of river Brahmani in Orissa (on going)	2.00
11	Studies of Emission, formation and transformation of VOCs in ambient air of Kolkata (on going)	2.50
	Sub Total:	20.55
	Project Head-II Lab Management	
12	Strengthening, O & M of laboratory (on going)	40.00
13	Procurement of chemicals, glassware & filter paper etc. (on going)	5.00
	Sub Total:	45.00
	Project Head-IV Training	
14	Nomination for training programme/ workshops etc. (on going)	1.00
	Sub Total	1.00
	Project Head-VIII Mass Awareness	
15	Mass awareness programme (on going)	1.50
	Sub Total:	1.50

		(Rs. in Lacs)
Sl. No.	Schemes	Allocation for 2007-08
	Project Head-V (A) Information (Database) Management	
16	Database management (on going)	3.00
	Sub Total:	3.00
	Project Head-V (B) Library	
17	Development of library (on going)	0.50
	Sub Total:	0.50
	Project Head-VI Pollution. Control Enforcement	
18	Status of fish processing industries in Orissa and West Bengal (on going)	0.25
19	ESS and related activities (on going)	37.00
20	Running and maintenance of vehicles in execution of plan activities (on going)	3.00
21	Laboratory/Office Furnishing	50.00
	Sub Total:	90.25
	GRAND TOTAL	161.80

7.2 Zonal Office-Vadodara

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
	Project Head-I Pollution Assessment Survey & Monitoring	
1	Status of ground water quality around Chemical Industrial Estates of Maharashtra (on going)	7.00
2	Inventory and environmental status around industries located in non-conforming agricultural areas of Gujarat state (on going)	4.70
3	Status of environment in Western Coal Fields in Vidarbha Region of Maharashtra state. (Project will be carried through a reputed Government Organization/Institute) (on going)	6.00
4	DOD sponsored project on land-based sources of pollution in coastal water (on going)	--
5	Surveillance of water quality and ambient air quality monitoring stations (New)	1.00
6	Interstate river monitoring (New)	2.00
7	Studies of ground water quality around common secured landfill sites in Gujarat & Maharashtra (New)	1.50
8	Performance studies of CETPs and STPs in Gujarat & Maharashtra (New)	1.00
9	Performance studies of CBMWTF and common incinerators of hazardous waste in Gujarat and Maharashtra (New)	1.00
10	Monitoring of coastal aquaculture ponds in Gujarat & Maharashtra (New)	0.50
11	Study on status of environment in cement plants located in Maharashtra (New)	3.50
12	Noise pollution monitoring during Navratri and Deepawali festivals in Vadodara (New)	0.25
13	Status of environment in iron and steel plants located in Gujarat and Maharashtra (New)	2.50
	Sub Total:	30.95

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
Project Head-II Laboratory Management		
14	Strengthening, operation & maintenance of laboratory (New)	30.00
15	Annual maintenance contracts of instruments (New)	3.00
16	Running and maintenance of vehicles (New)	2.00
17	Rent of the office (New)	11.00
Sub Total:		46.00
Project Head-IV Training		
18	Registration fees and TA/DA for attending the training programme (New)	1.00
19	Organizing the training programme for teachers (New)	0.50
Sub Total:		1.50
Project Head-V (A) Data Base Management		
20	Upgradation of Data Base Management, updating of existing computers, comprehensive annual maintenance contract etc. (New)	2.00
Sub Total:		2.00
Project Head-V (B) Library		
21	Development of library (New)	0.50
Sub Total:		0.50
Project Head-VI Pollution Control Enforcement		
22	ESS programmes and public complaints (New)	35.00
23	Shifting of laboratory cum office to the new building including furnishing (New)	50.00
Sub Total:		85.00
Project Head-VIII Mass Awareness, Publications & NGO Activities		
24	Creation of mass awareness (New)	0.50
Sub Total:		0.50
Project Head-IX Hazardous Waste Management		
25	Registration of hazardous waste recycling industries (New)	2.50
Sub Total:		2.50
GRAND TOTAL:		168.95

7.3 Zonal Office-Bhopal

Sl. No.	Schemes	(Rs. in Lakhs) Allocation for 2007-08
	Project Head-I Pollution Assessment Survey & Monitoring	
1	Surveillance of ambient air and water quality monitoring stations under NAMP/NWMP (on going)	2.50
2	Monitoring of air quality in Bhopal for reporting to TV (on going)	2.50
3	Interstate river monitoring at the state boundaries (on going)	2.00
4	Status of noise level and ambient air quality during Deepawali at Bhopal	1.00
5	Environmental status at Singrauli (MP State) in co-ordination with ZO-Lucknow (New)	1.50
	Sub Total:	9.50
	Project Head-II Laboratory Management	
6	Development of laboratory and monitoring facilities including operation & maintenance of existing laboratory (on going)	17.50
07	Operation & maintenance of surveillance vehicle/ Sampling Van (on going)	1.50
	Sub Total:	19.00
	Project Head-IV Training	
08	Nomination of Officers/Staff for training/workshops (on going)	1.00
	Sub Total:	1.00
	Project Head-V (A) Information (Database) Management	
09	Development of computer and other facilities and operation & maintenance of existing computers (on going)	1.50
	Sub Total:	1.50
	Project Head-V (B) Library	
10	Development of library (on going)	1.50
	Sub Total:	1.50
	Project Head-VI Pollution Control Enforcement	
11	Pollution Control Enforcement including the salary of the officers (on going)	18.00
12	Visit to industries for verification of application for " Actual User" registration (on going)	1.00
13	Monitoring of common TSDF and Hazardous Waste Dumpsites (on going)	1.50
14	Joint inspection of 17 categories of industries with RO's, MoEF (on going)	2.00

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
15	Study the presence of Heavy metal & pesticides in soft drinks industries in Central Zone (New)	2.25
16	Compliance status of environmental standards in sponge iron plants in and around Raipur, Chattisgarh (New)	2.25
17	Study of environmental management in Industrial Complex, Nagda (MP) (New)	1.00
18	Status of MSW collection, treatment & disposal in and around Jaipur city (New)	1.50
Sub Total:		29.50
Project Head-VIII Mass Awareness, Publications & NGO Activities		
19	NGO activity including programme for mass awareness to identified groups (New)	1.00
Sub Total:		1.00
GRAND TOTAL:		63.00

7.4 Zonal Office-Shillong

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
	Project Head-I Pollution Assessment Survey & Monitoring	
1	Co-ordination with State Boards (including visit) regarding strengthening & implementation of various Rule/Regulations; Surveillance of NAMP and WQM (on going)	1.50
2	Inventorisation of polluting industries in NE states (on going)	3.00
3	Inventorisation of Hazardous Wastes recyclers and random cross checking of HW generating industries in NE- states, as per Honorable SC direction (on going)	1.00
4	Water quality assessment in major international/interstate boundary river, polluting river stretches and lakes in the NE region including regular assessment of Loktak lake (on going)	3.00
5	Environmental status of oil and gas drilling areas in Assam, Arunachal Pradesh and Tripura (New)	2.50
6	Status of environment in Nathula Pass, Sikkim (upcoming border trading point in Indo-China border) (New)	1.00
7	Environmental status in mining (coal and limestone) areas in Meghalaya (New)	2.00
	Sub Total:	14.00
	Project Head-II Laboratory Management	
8	Development of laboratory (including rent for lab building and new furniture from laboratory) (on going)	25.00
9	Operation and maintenance of laboratory including salary of JRF and security personnel (on going)	10.00
	Sub Total:	35.00
	Project Head-IV Training	
10	Nomination for training/workshop (on going)	1.00
	Sub Total:	1.00
	Project Head-V (A) Information (Database) Management	
11	Database management (including networking of computers and peripheral systems) (on going)	1.00
	Sub Total:	1.00

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
	Project Head-V (B) Library	
12	Development of library (Purchase of books, periodicals etc.) (on going)	1.50
	Sub Total:	1.50
	Project Head-VI Pollution Control Enforcement	
13	Public complaints investigation (on going)	0.50
14	Surprise inspection under ESS (on going)	1.00
15	Pollution control status (including CREP compliance) in 17 categories of industries including joint inspection of projects with MoEF (on going)	12.00
16	Monitoring implementation of MSW mega-projects in NE states; assessment of environmental quality in dumping areas (including monitoring vehicle and hiring of driver) (on going)	10.00
17	Running and maintenance of monitoring vehicle (on going)	2.00
18	Pollution control status in coke oven plants in Assam and Meghalaya (on going)	1.00
	Sub Total:	26.50
	Project Head-VIII Mass Awareness, Publications & NGO Activities	
19	Organizing mass awareness programme (on going)	1.00
	Sub Total:	1.00
	GRAND TOTAL:	80.00

7.5 Zonal Office-Lucknow

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
	Project Head-I Pollution Assessment Survey & Monitoring	
1	Ambient Air Quality Monitoring (AAQM) in Vikas Nagar, Kanpur (on going)	7.50
2	Epidemiological study in Jajmau, Kanpur (on going)	5.00
3	Ambient Air Quality Monitoring at Gomtinagar, Lucknow (New)	5.00
4	Monitoring of PM2.5, PM 10 and characterization in Lucknow city (New)	5.00
5	Inspection of NAMP and MINARS station located in North Zone (New)	2.00
	Sub Total:	24.50
	Project Head-II Laboratory Management	
6	Lab operation and maintenance (New)	20.00
7	Lab development (New)	20.00
8	Bio-mapping of river Kosi (New)	2.50
9	Operation & Monitoring vehicle including mobile lab (New)	3.00
	Sub Total:	45.50
	Project Head-V (A) Information (Database) Management	
10	Data Base Management (New)	5.00
	Sub Total:	5.00
	Project Head-V (B) Library	
11	Library development (New)	1.00
	Sub Total:	1.00
	Project Head-VI Pollution Control Enforcement	
12	Development of strategy to control of ground water pollution due to chromium in identified area of Kanpur city (on going)	4.50
13	Study of polluted stretches of river Gomti	1.50
14	Status of industries in Tarai region of Uttaranchal (New)	1.00
15	Study and Monitoring of electromagnetic waves by microwave cell towers (New)	3.00
16	E-waste inventorisation and source identification in UP (New)	2.00
17	Evaluation of ambient air quality and identification of hot spots in Singrauli area (New)	3.00
18	Enforcement of pollution control measures in two identified lakes in North Zone (New)	1.00

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
19	Pollution assessment and action plan for lock manufacturing units in Aligarh (New)	2.00
20	ESS and public complaints (New)	5.00
21	STP monitoring in north Zone (New)	2.00
22	Joint monitoring of 17 categories of industries with MoEF (New)	2.50
23	Inspection of CBMWFT. & common incinerators of North Zone (New)	2.00
24	Maintenance of office building (New)	7.50
25	Salary of Scientific and Technical Officers (New)	37.00
26	Building Development (including Genset)	25.0
27	Display system on 3 CAQMS	6.0
	Sub Total:	105.0
	Project Head-VII Pollution Control Technology	
28	Introduction and implementation of decluttering practices for environmental quality improvement (New)	1.00
	Sub Total:	1.00
	Project Head-VIII Mass Awareness, Publications & NGO activities	
29	Mass Awareness Activities (New)	2.50
	Sub Total:	2.50
	Project Head-IX Hazardous Waste Management	
30	Hazardous waste management (New)	2.0
	Sub Total:	2.0
	Total	186.50
	Project Office- Agra	
1	Ambient Air Quality Monitoring as entrusted by Court	25.00
2	Aerosol profile in PM ₁₀ & PM _{2.5}	2.00
3	Ambient Air Quality in TTZ	3.00
4	Study & Preparation of Environmental Management Plan for TTZ & Agra in particular	10.00
5	ESS, Implementations, Public Complaints, Parliamentary activities in TTZ including office management	4.00
6	Data Base Management, Library Management	2.00
7	Mass Awareness, Short-Publications, NGO Meet for Local Issues/Seminar in E-Waste, MSW, BMW	2.00
	Sub Total:	48.0
	GRAND TOTAL:	234.50

a. Zonal Office-Bangalore

		(Rs. in Lakhs)
Sl. No.	Schemes	Allocation for 2007-08
	Project Head-I Pollution Assessment Survey & Monitoring	
1	Monitoring of BTX at the road intersections of the city of Bangalore (on going)	1.00
2	Surveillance of National Ambient Air Quality Monitoring Stations (on going)	0.50
3	Surveillance of MINARS Stations (on going)	0.50
4	Infrastructure development for setting up of permanent continuous ambient air quality stations at Chennai and Bangalore (on going)	8.00
5	Assessment of pollution and preparation of action plan for iron ore mining in Bellary District, Karnataka	1.00
6	Ground Water Quality Monitoring and Modeling for preparation of action plan for remedial measures in Ranipet area, Tamil Nadu	5.00
7	Air quality/source emission and noise level monitoring for large D. G. Sets installed in I.T sectors in city of Bangalore	2.00
8	Air pollution estimation and validation of model in Cochin area, Kerala	5.00
9	Monitoring of lake waters in Bangalore to assess the rejuvenation efficacy	1.00
10	Monitoring in respect of pesticides and tri-halo methane in drinking water sources in Bangalore	2.00
	Sub Total:	26.00
	Project Head-II Laboratory Management	
11	Operation & Maintenance of mobile lab (on going)	1.00
12	Development of infrastructure at new building	80.00
13	Development of facilities for bio-assay test & toxicity analysis of industrial effluent (on going)	2.00
14	Development of facilities for calibration of instruments & equipments (on going)	77.00
15	Calibration of instruments, annual maintenance of equipments & procurement of reference materials (on going)	4.00
16	Activities related to accreditation of labs (on going)	1.00
17	Study of inorganic constituents in ambient air with respect to oxides of sulphur and nitrogen & to estimate the relation with SO ₂ & Nox	3.00
	Sub Total:	168.00

		(Rs. in Lacs)
Sl. No.	Schemes	Allocation for 2007-08
	Project Head-IV Training	
18	Organizing workshop on technology evaluation for removal of total dissolved solids and attending training programme on the regional specific issues	2.50
	Sub Total:	2.50
	Project Head-V (A) Information (Database Management)	
19	Procurement of computer system peripherals and development of Local Area Network (on going)	5.00
	Sub Total:	5.00
	Project Head-V (B) Library	
20	Development of library including procurement of international journals (on going)	2.00
	Sub Total:	2.00
	Project Head-VI Pollution Control Enforcement	
21	Verification of compliance of standards in identified categories of industries including electricity, water charges, rent & salary of project staff	70.00
22	Follow up of Court Directions (on going)	2.50
23	Monitoring of STP, CETP, TSDF and CBMWTF for verification of compliance of guidelines in management of the waste	5.00
24	Infrastructure development for hazardous wastes analysis and its management (on going)	2.50
25	Development/monitoring of decentralized wastewater treatment systems (on going)	0.50
26	Testing of noise level of fire crackers & monitoring ambient noise level at regular interval and during Diwali (on going)	1.00
27	Preparation of status report on compliance of standards in respect of integrated iron and steel plants in South Zone	1.00
28	Review and monitoring of industries and ambient air and ground water quality in the problem areas of south zone	3.00
29	In depth study of grossly polluting industries located in Cuddalore, Tamil Nadu	2.00
	Sub Total	87.50
	Project Head-VIII Mass Awareness, Publications & NGO Activities	
30	Organizing mass awareness programmes in High School and Pre-University Colleges & public places	0.50
	Sub Total:	0.50
	GRAND TOTAL:	291.50