

# Annual Action Plan

## 2011-12

*(Approved in 159<sup>th</sup> Meeting of the Board held on 5<sup>th</sup> July, 2011)*



Central Pollution Control Board,  
Parivesh Bhawan, East Arjun Nagar,  
Delhi-110032  
**August, 2011**

## **Chapter 1: Introduction**

Central Pollution Control Board (CPCB) after having delegated powers in the Union Territories under the Water and Air Act has an exclusive mandate to discharge its functions as per Section 16 of both the Acts. The functions under Section (16) of the said Acts provides CPCB to carryout executive functions to utilize its excellence to provide scientific and technical backup to the State Pollution Control Boards (SPCBs) and Pollution Control Committees (PCCs). Formulation of nation-wide programmes on abatement of pollution, developing standards for source-specific pollution and imparting training are the key areas of functioning. Section 18 (1) (b) of the Water and Air Acts empowers CPCB to direct SPCB for taking corrective measures on any matter pertaining abatement of pollution. Besides, having power under Section (5) of Environment Protection Act, 1986 CPCB has been entrusted many important activities as per the Rules framed under EPA, 1986.

The Annual Action Plan 2011-12 of CPCB focuses its attention on national flagship programmes and supported with scientific & technological schemes. The programmes requiring higher outlays and which are difficult to be accommodated under the plan grant, have been proposed under Water Cess, NGRBA and other Centrally Sponsored Schemes of MoEF. Thus, Annual Action Plan (2011-12) has a mix efforts of R & D activities, on-going project/schemes and laying emphasis on training and mass awareness programmes.

## **Chapter 2: Functions of CPCB**

The functions of CPCB are specified under Section (16) of the Water (Prevention & Control of Pollution) Act, 1974 and 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. 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;
- Co-ordinate the activities of the State Boards and resolve disputes among them;

- Plan and organize training of persons are to be engaged in programmes for the prevention, control or abatement of water and air pollution;
- Provide technical assistance and guidance to State Boards, Carry out and sponsor investigation and research relating to problems of water and air pollution and prevention, control or abatement of water and air pollution;
- Organize 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 guides relating to prevention, control or abatement of water and air pollution;
- Lay down, modify or annul, in consultation with State Governments, standards for stream and well and lay down standards for 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;
- Perform such other functions as and when prescribed by the Government of India;
- Central Board may establish or recognize a laboratory or laboratories to enable the Board to perform its functions efficiently including the analysis of water from any stream or well or of samples or ambient air or trade effluents and emissions;
- Central Board may delegate any of its functions under the Water and Air Act to such person or body of persons or Committees for proper discharge of its functions and generally for the purpose of carrying into the effect the purposes of these Acts as Central Government may specify.

### **Chapter 3: Achievements of 2010-11**

#### **3.1 Assessment of Pollution:**

- Carried out water quality monitoring stations (WQMS) monitoring at 1700 stations covering 980 rivers, 117 lakes, 490 wells, 17 drains, 27 canals, 9 tanks, 15 creeks, 45 ponds etc.
- Carried out Ambient air quality monitoring stations (AAQMS) monitoring at 424 stations covering 175 cities.

- Initiated National Ambient Noise Monitoring Network (NANMN) starting with establishing 35 stations in 07 cities (Delhi, Mumbai, Hyderabad, Lucknow, Kolkata, Bangalore, Chennai).
- Operated Forty Five (45) Continuous Ambient Air Quality Monitoring Stations (CAAQMS) and 3 under installation.
- Installation of open path system for monitoring of ambient air quality.
- Established LIDAR based ambient quality forecasting system during Common Wealth Games, 2010.
- Following research and development studies have been carried out to assess air and water quality;
  - Urban Ambient Air Monitoring Quality in Kolkata and Estimation of Ozone, Carbonyls, NO<sub>x</sub> and VOCs Emission completed and report published.
  - “Source Apportionment Studies” in 6 Cities namely Delhi, Kanpur, Mumbai, Chennai, Pune and Ahmedabad has been completed and report published.
  - “Status of Vehicular Pollution Control Programme in India” is completed and report published.
  - Status of Water Quality in India completed and published.
  - National Ambient Air Quality Status completed and published.
  - Pollution problems of “River Ghaggar” is completed and report is under print.

### **3.2 Industrial Pollution Control:**

- Environmental standards have been notified in respect of “Incinerator of Organic Chemical Manufacturing Industry” and Dye and Dye intermediate industries. In addition, Effluent Standards of Soda-Ash Manufacturing Industries is in the process of notification by MoEF.
- On Random basis ESS inspections carried out 152 industries falling under 17 categories of highly polluting industries and 126 Directions have been issued to non-complying industries under Section 5 of EPA, 1986.
- A demonstration project has been set-up in CPCB on Lypholization for preservation of skin/hides to eliminate use of salt in tanneries.

### **3.3 Waste Management:**

- Co-processing of hazardous and non hazardous incinerable waste has been propagated in Cement kilns. Trial runs for co-processing of distillery spent wash was conducted in cement kilns and draft Guidelines for Co-processing of Distillery Spent Wash prepared.
- Initiated Ambient Air Quality at landfill sites Delhi to assess the impact of burning of waste including plastics
- Ambient air quality monitoring has been initiated in respect of Dioxins and Furans at 10 selected critically polluted problem areas.
- Study on impact of plastic waste disposal on soil and water quality completed and report is under print.
- Carried out 19 inspections of TSDFs, CBMWTFs and SLF (as a follow up of Directions issued).

### **3.4 Training, Mass Awareness and Environment Data Bank:**

- A Memorandum of Undertaking (MoU) has been signed with SINTEF, Norway for training exposure to CPCB and SPCBs officials on co-processing of hazardous waste.
- Implementation of Raj-Bhasha (Hindi) in CPCB and organizing Hindi Diwas, Workshop and Training Programmes for CPCB officials.
- Seven hundred and fifty (750) episodes under Paryavarana Darshan Programme on regional environmental issues were shown by 18 Regional Kendras and DD-National.
- Thirty five (35) technical and scientific reports, 6 newsletters and 03 brochures have been published on various subjects.
- An integrated software for creating Environmental Data Bank (EDB) and system for CAAQMS data communication have been developed.
- A report on Pollution Mitigation (Vol-I & II) having completion of 133 research papers was released on 27<sup>th</sup> Oct, 2010 by Dr. Madhvan Nair, former Director, ISRO and President of Indian Science Congress. In addition, a Law book with an E-book (CD) was released by Sh. Jairam Ramesh, the Hon'ble Minister of Environment and Forests on 28<sup>th</sup> February, 2011.
- Conducted 19 national training programmes and 23 workshops/seminars and 9 international training programme/workshop on various environmental pollution and prevention areas. These programmes were attended by staff of CPCB and SPCBs. In addition, 8 training programmes on various administrative matters for non-technical staff of CPCB.

## Chapter 4: Thrust Areas for 2011-12

In the concluding year (2011-12) of the Eleventh Five Year Plan, CPCB would draw a five year plan (2012-13 to 2016-17) which will be based on the Approach Paper being prepared by the Planning Commission for 12<sup>th</sup> Five Year Plan and the initiatives and reforms taken by MoEF for securing better enforcement and compliance of environmental laws. CPCB has grouped the implementation of identified programmes and executing them under; Plan grant, Cess funding and under other schemes of MoEF. The major thrust areas which will be pursued during 2011-12 are as under;

### 4.1 Sponsored Projects:

#### A. Projects Sanctioned Under Cess Fund (By MoEF)

1. Complete recycling of Municipal Solid Waste (including inerts)- (Rs. 0.06 Crore).
2. Strengthening of national ambient air quality monitoring network (Rs. 5.86 Crore).
3. Indian cities air quality information system (Rs. 1.41 Crore)
4. Innovative technology for Hides and Skin preservation (Rs. 1.0 Crore).
5. Software requirement study of computerization of CPCB (Rs. 0.02 Crore).
6. Paryavaran Darshan (Rs. 9.5 Crore).
7. Co-processing of hazardous and other wastes in Cement Plants, Iron and Steel and Power Plants (Rs. 5.04,67,200 under HSMD, MoEF funding).
8. Environmental Information System (EIS) on GIS/GPS platform: (Total proposed Rs. 1308 Crore of which Rs. 286.0 Crore proposed under Cess).
9. Techno-economic feasibility study of Zero Liquid Discharge system implemented in CETPs at Tirupur (Proposed Rs. 1.30 Crore).
10. Development for a National Database on Cleaner Technologies (CT), evolution of a mechanism for fiscal measures for promotion of CT in India (Total Cost for the Project is Rs. 158.67 Lacs, sanctioned by MoEF in January 2010).

#### B. Projects Sanctioned by Other Agencies:

11. Hydrology Project– HP-II: Hydrology Information System for Water Resources Management (Rs. 20.4 Crore funds by MoWR through World Bank).

12. Biomimetic Sequestration of CO<sub>2</sub> into Calcium Carbonate using Immobilized Enzyme and Whole Cell Bioreactor (Rs. 2.76 Crore recommended by Planning Commission to MoEF).

**C. Externally Aided Projects:**

13. Inventorisation of Dioxins and Furans in Northern and Eastern Zone of India (funded by UNIDO= Rs. 0.70 Crore).
14. Recovery of alternative fuels and raw materials and treatment of organic hazardous waste through co-processing in resource and energy intensive industries in India (4,80,000 NOK funding by Norway Govt.)

**D. Projects under NGRBA:**

15. In-situ bioremediation for sewage treatment (sanctioned: Rs. 19.85 Crore).
16. Bacteriophages for removal of fecal coliform bacteria (sanctioned: Rs. 15.70 Crore).
17. Evaluation of performance of in-situ sewage treatment-Guidelines and Protocols (proposed: Rs. 4.2872 Crore).
18. Saltless preservation of hides and skin by Lyophilisation (sanctioned: Rs. 4.45 Crore).
19. Pollution inventorisation assessment and surveillance on Ganga River Basin (sanctioned: Rs. 34.77 Crore).

**4.2 Projects/Schemes proposed under Plan Fund of CPCB:**

- Increasing Water Quality Monitoring Stations (WQMS) from 2000 to 2500.
- Increasing Ambient Air Quality Monitoring Stations from 665 to 700.
- Setting of additional noise monitoring stations in 07 cities.
- Setting of continuous Ambient Air Quality Monitoring Stations in other metro cities.
- Up-gradation of 4 Zonal Office laboratories at par with Head Office.
- Implementation of Municipal Solid Waste (MSW) Rules, 2000 in States and Union Territories.
- Implementation of Plastic Waste (Management and Handling) Rules, 2011 in States and Union Territories through State Pollution Control Boards (SPCBs), Pollution Control Committees (PCCs) and Municipal Authorities.
- Implementation of co-processing of incinerable hazardous and non-hazardous waste including plastic waste in cement kilns, thermal power and steel plants.

- Encouraging use of plastic waste in road construction.
- Inventorisation of Bio-medical Waste, Hazardous Waste, Plastic Waste, Battery Waste generation in major cities in India.
- Monitoring compliance in CETPs, STPs, CBMTFs, TSDFs etc.
- Implementation of Action Plan in 43 critically polluted industrial clusters (CEPI).
- Assessment of Green House Gases emissions in power plants, vehicles and industries.
- Implementation of clean technology processes in air polluting industries like Coke-Oven Plants, Sponge Iron Plants, Thermal Power Plants etc.
- Development of standards for 'Red category' of industries.
- On-line monitoring mechanism for ambient air and gaseous emissions.
- Setting-up of environmental information system (EIS) on GIS/GPS platform for formulating environment management policies.
- Rejuvenation of tributaries for maintaining environmental flow in rivers.
- In-situ Bio-remediation/bio-technologies will be employed for waste management in drains by adopting native/indigenous microbial consortia.
- Initiating action on activities under National Ganga River Basin Authority (NGRBA).



## 5.0 Budget Allocation for 2011-12

### 5.1 Project Head-wise Budget Allocation for 2011-12:

The allocation made against each **Project Head** is summarized as under:

Project Heads	Title of the Project Head	Allocation ( ₹ in Crores)		
		Head Office	Zonal Offices	Total
<b>I</b>	Pollution Assessment-Survey & Monitoring	8.3325	1.4038	9.7363
<b>II</b>	Lab Management	4.9275	2.77	7.6975
<b>III</b>	Development of Standards and Guidelines	3.1425	NIL	3.1425
<b>IV</b>	Training	0.70	0.1175	0.8175
<b>V A</b>	Information (Database) Management	1.00	0.285	1.285
<b>V B</b>	Library	0.23	0.0585	0.2885
<b>VI</b>	Pollution Control Enforcement	8.5475	5.8727	14.4202
<b>VII</b>	Pollution Control Technology	0.725	0.02	0.745
<b>VIII</b>	Mass Awareness, Publications & NGO Activities & Hindi (Raj-bhasha)	0.555	0.0675	0.6225
<b>IX</b>	Hazardous Waste Management	1.18	0.065	1.245
	<b>TOTAL</b>	<b>29.34</b>	<b>10.66</b>	<b>40.00</b>

## 5.2 Division-Wise & Zone-Wise Budget Allocation:

### Part-A: HEAD OFFICE

Name of the Division/Section	Allocation (Rs in Crores)
Pollution Assessment Survey & Monitoring	8.3325
Laboratory Management	4.9275
Pollution Control Implementation – I	1.00
Pollution Control Implementation –II	0.90
Pollution Control Implementation –III	1.3425
SSI Division	1.55
Urban Pollution Control Division	0.34
ESS	0.70
Pollution Control Planning Division (PCP)	3.7475
PR, Library and Co-ordination Section	0.98
AS Section	0.17
Environmental Training Unit	0.70
Hazardous Waste Management	1.00
Building Maintenance	2.50
Information Technology	1.10
Hindi Cell	0.05
<b>TOTAL (A):</b>	<b>29.34</b>

### Part-B: ZONAL OFFICE

Name of the Zonal Office	Allocation (` in Crores)
Bangalore	2.50
Bhopal	2.00
Kolkata	1.50
Lucknow & Agra	2.50
Shillong	0.66
Vadodara	1.50
<b>TOTAL (B):</b>	<b>10.66</b>

**Grand Total (A+B) = 29.34 + 10.66 = ` 40.00 Crore**

## 6.0 PLANS & PROGRAMMES OF HEAD OFFICE 2011-12

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

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
1	National Water Quality Monitoring Programme (NWMP) <b>(ongoing)</b>	300.00
2	Intensive Study of 35 Polluted River Stretches through SPCBs/Academic Institutions (each stretch @ ₹ 5.00 lakhs)	50.00
3	Inventory of Lakes and wetlands in India	5.00
4	Assessment of waste water pollution load in River Kali (In House)	1.00
5	Assessment of waste water pollution load in River Ramganga (In House)	1.00
6	Interstate River Boundary monitoring	4.00
7	Performance evaluation of Sewage Treatment Plants (STPs) in Delhi	1.00
8	Updation of Information for Sewage Generation, collection, treatment and disposal in Class-I cities and class-II towns in India	1.00
9	National Air Quality Monitoring Programme <b>(ongoing)</b>	300.00
10	Strengthening of National Air Quality Monitoring Programme (NAMP) <b>(ongoing)</b>	–
11	Initiation of PM <sub>2.5</sub> and other air pollutants monitoring as per revised air quality standards <b>(ongoing)</b>	150.00
12	Epidemiological survey to assess health impact from air pollution in a selected area	3.00
13	Preparation of air quality atlas in the country	3.00
14	Statistical evaluation of air quality data	1.00
15	National Ambient Noise Monitoring Network (NANMN) Programme. Installation of 35 nos of Noise Monitoring System in Seven (07) cities of India for development of Real Time Ambient Noise Monitoring network will be carried out during 2011-12	13.25
	<b>Total:</b>	<b>833.25</b>

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

Scheme No.	Name of Schemes	Allocations ( ` in Lakh)
<b>AIR LABORATORY</b>		
1	Routine Operation of laboratory in accordance with NABL	18.00
2	Development of capabilities for all 12 notified under National Ambient Air Quality Standard (Manual: ` 35, CAAQM : ` 22.00)	57.00
3	Development of analytical capabilities for source emission monitoring (gradual development for all parameters notified under source emission)	23.00
4	Development of Infrastructure Refurbishing of Laboratory	90.00
5	Development of In-house Training/Demonstration and organization national workshop on Monitoring & measurement of Air Pollutants	4.00
6	Continuance of on-going activities	7.00
7	Impact Assessment Studies and Public Information System	40.00
8	Capacity building for monitoring of episodal pollution: on-site and off-site monitoring	11.00
	<b>Sub Total:</b>	<b>250.00</b>
<b>WATER LABORATORY</b>		
9	Analytical quality control (AQC/ water) for Central and State Pollution Control Boards, Pollution Control Committees & for laboratories recognized under E. P. Act <b>(on going)</b>	1.00
10	Sludge Reagent Product (SRP)- an innovative process for water and wastewater treatment-flocculation study and setting up of pilot plant at Bhagirathi water works (performance evaluation study) <b>(on going)</b>	12.00
11	Contamination status of Arsenic and Fluoride in ground water and assessment of impact and economic burden on the environment <b>(on going)</b>	1.00
12	Assessment of nitrogen and phosphorus in various drains in Delhi region to evaluate their influence on eutrophication in receiving water bodies <b>(New)</b>	1.00
13	Procurement of Instrument/equipment under ICB/LCB	18.50
	<b>Sub Total:</b>	<b>33.50</b>

<b>BIO-SCIENCE LABORATORY</b>		
14	Elimination of Fecal coliforms from sewage treatment plant and River Yamuna using phage therapy- A bench scale study and removal E.coli and other Fecal coli using bacteriophages and antagonist bacteria <b>(New)</b>	1.00 (NGRBA)
15	Development of bacteriophages for various water borne pathogens such as E.coli, Salmonella, Shigella, Vibrio Staphylococcus, Streptococcus and Pseudomonas, Proteus, Klebsiella, Citrobacter etc. <b>(New)</b>	1.00
16	Detection of bactericidal activity of River Ganga from origin to confluence <b>(New)</b>	1.00
17	Isolation and detection of thermophilic bacteriophages from thermal springs to ascertain their significance for bathing water quality <b>(New)</b>	1.00
18	Development of bacteriological water quality standards for swimming, bathing pools <b>(New)</b>	1.00
19	Standardization of MPN Method for Fecal Streptococci analysis in River Yamuna <b>(New)</b>	1.25
20	Bio-monitoring of River Yamuna from origin to confluence to River Ganga <b>(New)</b>	–
21	Bio-monitoring of surface water in critically polluted areas identified for CEPI <b>(New)</b>	–
22	Co-ordination of sponsored project of CPCB on bio-monitoring <b>(ongoing)</b>	–
23	Analytical quality control exercise for taxonomic identification of Benthic macro-invertebrates used for bio-monitoring of water quality of rivers in India-Proficiency testing for laboratories of interstate and Zonal Offices of CPCB <b>(New)</b>	–
24	Biomonitoring of River Ganga and its tributaries (NGRBA) <b>(New)</b>	2.00
25	Monitoring of water quality of River Yamuna sponsored by NRCD MoEF <b>(ongoing)</b>	NRCD Fund
26	Performance study of STP in Delhi and Haryana under Yamuna Action Plan <b>(ongoing)</b>	NRCD Fund
27	Routine microbiological analysis	0.50
28	Assessment of toxicity status for industrial effluents in selected problem areas <b>(New)</b>	1.00
29	Participation under NGRBA sponsored project	Funding from NGRBA
	<b>Sub Total:</b>	<b>9.75</b>
<b>INSTRUMENTATION LABORATORY</b>		
30	Studies on correlation between COD, BOD and TOC in complex environmental matrices like drain water, river water and	2.00

	industrial effluents <b>(on going)</b> .	
31	Annual Maintenance Contract (AMC) of Instruments/Equipments – AASs, Mercury Analyser, AOX Analyser, ED-XRF Spectrometer, TOC Analyser, ICP-AES, UPS Systems, Water Purification System, Trace Metal Analyser, Hydraulic Press etc. (on going).	7.00
32	Trace Metal characterization of solid and hazardous waste using ICP-AES (on going).	1.50
33	Analysis of AOX from selected industrial effluents using AOX Analyser (on going).	1.50
34	Procurement of instrument/equipment under ICB/LCB.	15.00
	<b>Sub Total:</b>	<b>27.00</b>
	<b>NATIONAL REFERENCE TRACE ORGANIC LABORATORY</b>	
35	Measurement of hazardous organic compounds Dioxin (PCDDs) and Furan (PCDFs) in environmental samples	2.00
36	Volatile organic compounds (VOCs) measurement in Drinking/Surface water samples by purge and trap GC-MS	1.00
37	Standardization and Measurement of Dioxin like PCBs and Marker PCBs in Environmental Samples	1.50
38	Monitoring of pesticides residues at national level- Sponsored project by Ministry of Agriculture/IARI, New Delhi	IARI Funds
39	Operational contract for Air Handling Unit, Electrical & Fire Fighting system maintenance	3.50
40	Annual Maintenance Contract of HRMS and other equipment/instruments - GCs, HPLC, GC-MS, UPS systems etc.	9.50
41	Status of Poly-aromatic Hydrocarbons in Water and Sediments of River Yamuna and Drains in Delhi Stretch <b>(New Project)</b>	1.50
42	Assessment of Persistent Organic Pollutants (POPs) in Infants and Elderly Population of Delhi with Reference to Neurodegenerative and Metabolic Disorders (Collaborative Project with UCMS & GTB Hospital, Delhi) - <b>(New Project)</b>	2.50
43	Assessment of Persistent Organic Pollutant Residues (POPs) in Human Population of Delhi with Special Reference to Adverse Health Effects and Morbidity (Last installment to be released after submission of final report)	0.40
44	Methodology Development and standardization of Trace Organics Parameters as per Notification under the Environment (Protection) Act, 1986 <b>(New Project)</b>	2.00
45	Training Programme on Source Emission and Ambient Dioxin and Furan Monitoring for State Pollution Control Boards/Pollution Control Committee (Two training programme in a year)	1.60

46	Inter-laboratory PT Participation for analysis of Organics and Dioxin and Furan	1.50
47	Recognition of Laboratories under the Environment (Protection) Act, 1986	1.00
	<b>Sub Total:</b>	<b>28.00</b>
<b>TREATABILITY LABORATORY</b>		
48	Pilot project in the identified cities for Involving private participation in the management of Continuous Ambient Air Quality Monitoring Station/Network under Operation Contract <b>(OC)</b>	80.00
49	Pilot project in the identified cities for Involving private participation in the management of Continuous Ambient Air Quality Monitoring Station/Network under Build, Own and Operate (BOO) Contract	10.00
50	Performance evaluation of Continuous Ambient Air Quality Monitoring Station (CAAQMS)/Analyzers in India and Networking of CAAQMS maintained by Industry	1.50
51	Performance evaluation of UASB plant on various type of wastewater including development of facility for conducting methanogenic activity test. <b>(New)</b>	3.0
54	Developing guidelines for operation and maintenance of ETP <b>(New)</b>	3.00
55	Color removal from textile industrial effluent <b>(New)</b>	3.00
56	Regeneration/reuse of brewery effluent. <b>(New)</b>	2.5
57	Air-microflora study with indoor and outdoor samples in Delhi <b>(on going)</b>	1.5
	<b>Sub Total:</b>	<b>104.50</b>
<b>BIO-TECH LABORATORY</b>		
58	Removal of BTEX-compounds from contaminated ground water by immobilized enzymes	20.00
59	Kinetics study for Enzymatic treatment of Phenolic wastewater in a CSTR	20.00
60	Production of Methane from distillery effluent	–
61	Bio-production of Hydrogen gas from mixed effluent	–
	<b>Sub Total</b>	<b>40.00</b>
	<b>Grand Total:</b>	<b>492.75</b>

**PCI-I**

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

<b>Scheme No.</b>	<b>Name of Schemes</b>	<b>Allocations (₹ in Lakh)</b>
	<b>Project Head-III Development of Standards &amp; Guidelines</b>	
1	Preparation of COINDS & revision of status on Pesticide Industry <b>(New)</b>	5.00
2	Review of Emission Standards and Preparation of COINDS document on Man-made fiber industry <b>(Ongoing)</b>	20.00
3	Preparation of COINDS and Development of Emission Standards for Paint Industry <b>(Ongoing)</b>	43.00
4	Computation of societal risk abatement cost and long run marginal cost with regard to Dioxin & Furan for common Hazardous Waste incinerator <b>(Ongoing)</b>	8.00
5	Preparation of COINDS document on Pharmaceutical industry and development of standards for VOC Emission <b>(New)</b>	8.00
6	Development of Standards for VOC emission from Isolated Storage facilities/marketing installations of Petroleum Products <b>(New)</b>	4.00
7	Review of effluent standard & development of emission standards for Dye & Dye Intermediate Industry <b>(Ongoing)</b>	2.00
	<b>Sub Total:</b>	<b>90.00</b>
	<b>Project Head-VI Pollution Control Enforcement</b>	
1	Implementation of action points agreed under CREP for Oil Refineries, Petrochemicals, Dye & Dye Intermediates, Pharmaceuticals, Pesticide, Chlor-Alkali and Fertilizer industries.	2.00
2	Implementation of Standards, ESS activities, Public Complaint investigations & court matters	4.00
3	Status of Gypsum storage, Guideline for storage, recycling options in fertilizer industries <b>(New)</b>	2.00
4	Import of hazardous chemicals in India	2.00
	<b>Sub Total:</b>	<b>10.00</b>
	<b>Grand Total:</b>	<b>100.00</b>



**PCI-II**

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

<b>Scheme No.</b>	<b>Name of Schemes</b>	<b>Allocations (₹ in Lakh)</b>
	<b>Project Head-III Development of Standards &amp; Guidelines</b>	
1	Assessment of Air Pollution from Cement Plants using petcoke as fuel <b>(ongoing)</b>	10.00
2.	Review and harmonization of Emission & Effluent standards for Integrated Iron & Steel Plants (To be out sourced)	5.00
3.	Co-processing of waste in Cement plant/Iron & Steel Plant/Thermal Power Plant	Fund provided by MoEF
	<b>Sub Total:</b>	<b>15.00</b>
	<b>Project Head-VI Pollution Control Enforcement</b>	
1	National Task force for Thermal Power Plant & Iron & Steel Industry	3.00
2	Implementation of pollution control measures in TPPs, Iron & Steel Industry, Cement Industry, Pb, Cu & Zn, smelting units (including stationery, telephone, transportation & salary of JRF, 4 Desktop including printer)	7.00
3	Preparation of environmental status report on coal mines & Coal Washeries	5.00
4	Standing committee on emissions from RIC Engines for off road applications	1.00
5	National Committee on Noise Pollution Control	1.00
6	Implementation of noise/emission standards for generator sets	7.00
7	Compliance testing of fire-crackers	1.00
8	Development of Noise Limits for off-road Vehicles and Construction Equipments <b>(ongoing)</b>	NIL
9	Preparation of status report of Sulphuric Acid Plant utilizing off gases in Copper, Zinc and Lead Smelters	8.00
10	Preparation of status report on compliance of florage emission in Alluminium Plants	8.00
	<b>Sub Total:</b>	<b>41.00</b>

	<b>Project Head-VII Pollution Control Technology</b>	
1	Descriptions of clean technology and development of environmental standards for limestone mining <b>(ongoing)</b>	7.00
2	Development of clean technology and environmental standards for bauxite mining <b>(ongoing)</b>	1.00
3	Development of Clean Technology and Environmental standards for Ferro-Alloys Industry	10.00
4	Assessment of Fluoride emission from coal/lignite Thermal Power Plant	1.00
5.	Conducting of training program on noise pollution control & implementation for the implementing authorities	5.00
6.	Life Cycle Assessment of Cement Plant based on Alternate Fuels (AFR)	10.00
	<b>Sub Total:</b>	<b>34.00</b>
	<b>Grand Total</b>	<b>90.00</b>

**PCI-III**

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

<b>Scheme No.</b>	<b>Name of Schemes</b>	<b>Allocations (₹ in Lakh)</b>
	<b>Project Head-III Development of Standards &amp; Guidelines</b>	
1	Development of Standards and Guidelines for the Grain based Distillery in India <b>(ongoing)</b>	4.00
2	Revision of COINDS for Malteries & Breweries <b>(ongoing)</b>	4.00
3	Performance evaluation of bio-digesters, evaporation/membrane filtration (RO) systems for distillery effluent treatment <b>(ongoing)</b>	10.00
4	Collection and compilation of alcohol production data, spent wash generation and status of implementation of CREP norms etc. of all India distilleries <b>(New)</b>	10.00
5	Performance evaluation ZLD in distilleries through concentration-incineration/Co-processing of spent wash in cement kilns/TPPS/Steel plants <b>(New)</b>	10.00
6	Enhanced recovery of ethanol at processing stage by using selected microbial strain and thereby ultimately reducing pollution load	10.00
7	Performance evaluation of Bio-composting practices in distilleries <b>(New)</b>	3.00
8	Development of appropriate technology for treatment of effluent from Sugar Mills, Performance evaluation of APCDs in Sugar Mills <b>(New)</b>	10.00
9	Bench Marking Case Studies, assessment of process water requirement and tolerance limits of various sections/equipments for system closure to implementation of Zero Effluent Discharge in Pulp & Paper Industry and preparation of manual <b>(New)</b>	10.00
10	Feasibility study of Physico-chemical and Biological treatments for Bleach Plant Effluent treatment and for removal of TDS and other pollutants to promote ZLD in Mills, Performance evaluation of APCDs in Pulp and Paper Mills	15.00
11	Demonstration of advanced photo-chemical oxidation/RO technologies in Pulp & Paper Industry, Performance evaluation of LRPs in Pulp and Paper Industry	15.00

12	Workshops/training programmes on Sugar, Distillery and Pulp & Paper Sectors	5.00
13	Study on design of liner system or storage of effluents and prevention of Groundwater pollution from Coffee processing industry <b>(ongoing)</b>	5.00
14	Performance evaluation of Tea Estates <b>(New)</b>	3.00
15	Revision of COINDS for soft drink industries <b>(ongoing)</b>	1.25
16	Revision of COIND for slaughter houses including effluent standards <b>(ongoing)</b>	10.00
	<b>Sub Total:</b>	<b>125.25</b>
	<b>Project Head-VI Pollution Control Enforcement</b>	
17	Training programme on pollution control in slaughter houses <b>(ongoing)</b>	3.00
18	Training programme on pollution control in textile industries <b>(ongoing)</b>	3.00
	<b>Sub Total:</b>	<b>6.00</b>
	<b>Project-VII (Pollution Control Technology)</b>	
19	Inventory of textile processing industries in U.P. <b>(New)</b>	3.00
20	Techno-economic feasibility study of Zero Liquid Discharge System Implemented in CETPs at Tirupur	Cess Fund
	<b>Sub Total:</b>	<b>3.00</b>
	<b>Grand Total:</b>	<b>134.25</b>

## 6.6 SSI Division (Project III, VI, VII)

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
	<b>Project Head-III Development of Standards &amp; Guidelines</b>	
1.	COINDS for Plywood industries <b>(ongoing)</b>	6.00
2.	COINDS for Secondary Copper Smelting industry <b>(New)</b>	8.00
3.	Revision of COINDS for Glass industry <b>(New)</b>	8.00
4.	Assessment of Secondary Zinc industry <b>(New)</b>	–
5.	Disposal and utilisation of marble slurry generated from marble industry <b>(New)</b>	6.00
6.	Comprehensive Industry Document and Environmental Standards for Activated Carbon manufacturing industries <b>(ongoing)</b>	5.00
7.	Comprehensive Industry Document and Environmental Standards for Re-rolling mills <b>(ongoing)</b>	3.00
8.	Comprehensive Industry Document and Environmental Standards for Pickling industries <b>(ongoing)</b>	4.00
9.	Comprehensive Industry Document and Environmental Standards for Small Scale Paint Industries <b>(ongoing)</b>	18.00
10.	Development of Environmental Standards and Comprehensive Industry Documents for Hot Mix Plants <b>(New)</b>	12.00
11.	Development of Guidelines and Environmental Standards for Kattha manufacturing plants <b>(New)</b>	–
12.	Developments of Guidelines & Environmental Standards for use of Pet Coke as a fuel <b>(New)</b>	–
13.	Revision of COINDS for Brick Kilns <b>(Ongoing)</b>	7.00
14.	COINDS for Soaps and Detergents industry <b>(Ongoing)</b>	2.00
15.	Environmentally Sustainable Production capacity for Certain SSI Sectors <b>(Ongoing)</b>	5.00
	<b>Sub Total:</b>	<b>84.00</b>

	<b>Project Head-VI Pollution Control Enforcement</b>	
16.	Environmental management in Bee-hive coke oven plants <b>(Ongoing)</b> .	30.00
17.	Control of Pollution in NCR-EPCA Activities <b>(Ongoing)</b>	7.00
18.	Inventorisation of Industrial Clusters and assessment of need for more CETPs in the country <b>(New)</b>	Cess Fund
19.	Documentation of global best practices in industrial effluent treatment with special reference to CETPs <b>(New)</b>	Cess Fund
20.	Green House Gas Emissions Accounting in SSI units <b>(Ongoing)</b>	1.00
21.	Environmental Standard for Automobile Sector <b>(Ongoing)</b>	1.50
	<b>Sub Total:</b>	<b>39.50</b>
	<b>Project-VII (Pollution Control Technology)</b>	
22.	State wise Inventorisation of Small Scale industries <b>(Ongoing)</b>	18.50
23.	Evaluation and Improvement in Design of Clamp Kiln	12.00
24.	Demonstration Plant for Natural Gas based Brick Kiln <b>(Ongoing)</b>	1.00
	<b>Sub Total:</b>	<b>31.50</b>
	<b>Grand Total:</b>	<b>155.00</b>

### 6.7 Urban Pollution Control Division (UPCD) (P-VI)

<b>Scheme No.</b>	<b>Name of Schemes</b>	<b>Allocations ( ` in Lakh)</b>
1	Status of the pollution generated from road transport sector	2.00
2	Inventorization of Railway Sidings and guidelines for their Environmental Management	25.00
3	Preparation of COINDS for Automobile Manufacturing Industry	2.00
4	Development of Guidelines for Recycling/Disposal of Used Vehicles	2.75
5	Infrastructure Development and CRZ Projects.	1.00
6	Assessment of Vehicular Pollution problems in Religious/Tourist places and Development of action plan	1.25
	<b>Total:</b>	<b>34.00</b>

## 6.8 ESS (P-VI)

<b>Scheme No.</b>	<b>Name of Schemes</b>	<b>Allocations (` in Lakh)</b>
	<b>ESS (P-VI)</b>	
1.	<p>“Monitoring and Compliance of Action Plans defined for identified 43 Critically Polluted Industrial clusters” <b>(On going Project)</b></p> <ul style="list-style-type: none"> <li>i. Monitoring of Air, Water and Land quality of 43 Industrial Area</li> <li>ii. Health Impact Assessment of population in the vicinity of Area</li> <li>iii. Recalculation of CEPI</li> </ul>	50.00
2.	Inventorisation of Red categories of Industries through SPCBs/PCCs <b>(On going Project)</b>	15.00
3.	Monitoring of ESS Inspections & follow-up <b>(on going)</b>	5.00
	<b>Total:</b>	<b>70.00</b>



### 6.9 Pollution Control Planning Division (PCP) (P-VI)

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
	<b>Project Head-VI Pollution Control Enforcement</b>	
1	Co-ordination with SPCBs including assistance for subject specific programmes <b>(ongoing)</b>	50.00
2	(i) Office co-ordination (including Parliamentary matter infrastructure/ furniture, stationery to finance, administration and legal enforcement charges <b>(ongoing)</b> (ii) Salary of Director, Addl. Director & ESS staff	112.80 76.95
	<b>Sub Total:</b>	<b>239.75</b>
	<b>Municipal Solid Waste Management (MSW)</b>	
3	Implementation of MSW Rules, 2000, Demonstration Projects and specific programmes <b>(ongoing)</b>	75.00
4	<b>Projects under Cess Fund</b>	
	(a) Complete Utilization-Tangible solution for MSW (Including inert)-mass balance study (New) (b) In-situ treatment of sewage (wastewater) with reference to odor control (New)	From MoEF (6.00) From MoEF (200.00)
	<b>Sub Total:</b>	<b>75.00</b>
	<b>Plastics Waste Management (PWM)</b>	
5	Implementation of proposed Plastics Waste (Manufacture Usage & Management) Rules, 2010 (R & D Projects related to plastics waste disposal technology, Salary of JRF, DEO/Steno, TA/DA Expenditures, Stationary Charges, Meeting Expenses etc.) <b>(ongoing)</b>	30.00
6	Assessment of plastics waste generation in India <b>(ongoing)</b>	8.00
7	Life Cycle Assessment of Plastics Waste (New)	20.00
8	Climate Change Co-ordination Activities (Meeting, Seminars/Workshops etc.)	2.00
	<b>Sub Total:</b>	<b>60.00</b>
	<b>Grand Total:</b>	<b>374.75</b>

### 6.10 (A) PR Cell and Library {Project Head- VIII & V (B)}

<b>Scheme No.</b>	<b>Name of Schemes</b>	<b>Allocations ( ` in Lakh)</b>
	<b>Mass Awareness, Publications &amp; NGO Activities (P-VIII)</b>	
01	Exhibitions/Workshops/Mass Awareness Activities and Preparation of exhibition materials	14.00
02	Publication of CPCB Technical Reports <b>(ongoing)</b>	25.00
03	Advertisements	5.00
04	Operation & upkeep of Conference Halls, Committee Rooms & Training Hall, Hospitality Arrangements and strengthening of PR Activities	5.00
05	Environmental information system related activities <b>(Total Project Cost: ` 10.80 Lacs)</b>	MoEF Fund
	<b>Sub Total:</b>	<b>49.00</b>
<b>Library (Project Head -V (B))</b>		
1	Library Management & Up-gradation	
(i)	Purchasing of Books, Newspaper and Magazine	5.00
(ii)	E-Subscription of Journals and Periodicals	15.00
(iii)	Renovation of the Library	NIL
(iv)	Automation of Library & Procurement of Software	2.00
(v)	Binding of Journals and damaged publications	1.00
	<b>Sub Total:</b>	<b>23.00</b>
	<b>Total (A) :</b>	<b>72.00</b>

**(B) Co-ordination Activity (P-VI, VII & IX)**

<b>Scheme No.</b>	<b>Name of Schemes</b>	<b>Allocations ( ` in Lakh)</b>
	<b>Project VI – Pollution Control Enforcement</b>	
01	Creation of a database on Cleaner Technologies (CT), evolution of a mechanism of fiscal measures for promotion of CT	MoEF Funded
02	Implementation of N.I.P. for POPs (Dioxin and Furans)	UNIDO Funded
03	Technical Coordination on <ul style="list-style-type: none"><li>- Mobile Tower related Issues</li><li>- HPC Report</li><li>- BIS Committee on Standards for Electrical Instruments</li></ul>	4.00
	<b>Sub Total:</b>	<b>4.00</b>
	<b>Project VII-Pollution Control Technology</b>	
04	Biomimetic Sequestration of CO <sub>2</sub> into Calcium Carbonate Using Immobilized Enzyme and Whole Cell Bioreactor (Fund of ` 276 lakhs are awaited from Planning Commission)	4.00
	<b>Sub Total:</b>	<b>4.00</b>
	<b>Project IX- Hazardous Waste Management</b>	
05	Development of implementation strategy for Hg management in Flurosent Lamp Sector <b>(on going)</b>	3.00
06	National Hg Inventory in Cement and Non-Ferrous Sector	–
07	Inventory of Hazardous Air Pollutants (HAPs) in four industrial sectors (In-house)	5.00
08	GTZ Collaboration in Pharmaceuticals and Pesticides and VOCs in SSI	5.00
09	Government of Finland Collaboration in Odour Measurements, Fugitive Emissions and Spontaneous Stack Monitoring	5.00
	<b>Sub Total:</b>	<b>18.00</b>
	<b>Total (B)</b>	<b>26.00</b>
	<b>Grand Total (A+B)</b>	<b>98.00</b>

### 6.11 AS Section (P-VI & VIII)

<b>Scheme No.</b>	<b>Name of Schemes</b>	<b>Allocations (₹ in Lakh)</b>
	<b>Project Head-VI Pollution Control Enforcement</b>	
1	National level & Regional level Conference of Chairmen & Member Secretaries of SPCBs/PCCs <b>(ongoing)</b>	6.50
2	Board meetings including TA/DA of members <b>(ongoing)</b>	4.00
3	Redressal of Public complaints <b>(ongoing)</b>	0.50
4	Application received under Right to Information Act <b>(ongoing)</b>	0.50
5	Staff salary: (one DEO & One JRF) <b>(ongoing)</b>	4.00
	<b>Sub Total:</b>	<b>15.50</b>
	<b>Project Head-VIII Mass Awareness, Publications &amp; NGO Activities</b>	
6	Financial Assistance to NGOs for conducting programmes on Abatement of Pollution & Community Action Programme <b>(ongoing)</b>	0.50
7	Training programmes for NGOs on prevention & Control of pollution <b>(ongoing)</b>	0.50
8	Interaction meet with NGOs <b>(ongoing)</b>	0.50
	<b>Sub Total:</b>	<b>1.50</b>
	<b>Total</b>	<b>17.00</b>

#### 6.12 ETU-Training (Project Head-IV)

<b>S No.</b>	<b>Name of Schemes</b>	<b>Allocations for 2010-11 (` in Lakh)</b>
01	Training (on-going) (a) National Training (b) International Training	67.00 2.00
02	Ecomark (ongoing)	0.50
03	Design, Development and Implementation of Integrated Environmental management Systems in CPCB (ongoing)	0.50
	<b>Total:</b>	<b>70.00</b>

### 6.13 Hindi Cell (P-VIII)

<b>S.No.</b>	<b>Name of Schemes</b>	<b>Allocations (` in Lakh)</b>
1	Hindi Workshops and Training Programme	0.75
2	Hindi Book writing/Noting-Drafting Incentive Scheme	0.75
3	Organizing function on Hindi Day, Head Office & Zonal Offices	1.25
4	Purchase of Hindi Books/Dictionary/Stationary	0.25
5	Purchase of new Computer and Bilingual Computer software and Furniture for Hindi Section	0.50
6	Salary of DEO/Steno	1.00
7	TA/DA expenses etc.	0.50
	<b>.Total:</b>	<b>5.00</b>

### 6.14 Hazardous Waste Management Division (Project Head –IX)

S.No.	Name of Schemes	Allocations (` in Lakh)
1	Road map for Hazardous Waste Management ( utilisation, developing guidelines, SCMC matters, inventory, Captive MW disposal facilities, Ship Breaking activities, waste characterization, manual for sampling and analysis and remediation of contaminated sites, performance of TSDFs etc.) - on-going and new projects	40.00
2	Roadmap for Bio-Medical Waste Management (Inventory, Inspections, Monitoring, guidelines, organizing and sponsoring programs, evaluation of state of the art technologies, disposal options for waste sharps and monitoring of PCDDs/PCDFs etc.)	10.00
3	Implementation of Battery Rules (Inventory, guidelines, workshops, monitoring and development of online reporting and information system etc.)	15.00
4	Development of HW Material testing/Processing Laboratory	20.00
5	E-waste Management (workshops, guidelines and preparation of national inventory etc. )	15.00
	<b>Total:</b>	<b>100.00</b>

### 6.15 Building Project (Project Head-VI)

S.No	Name of Schemes	Allocations (` in Lakh)
	<b>Building Project (P-VI)</b>	
1	Maintenance of Parivesh Bhawan Building, Air quality Monitoring stations & Guest House, AMC of photocopier, EPABX, Security, Lawn, House keeping, APFC panel & AC, Telephone bills, Electricity bills, Water bills, MCD tax and Ground Rent of Parivesh Bhawan, Procurement of one no. computer with Printer and U.P.S. <b>(ongoing)</b>	100.00
2	Changing of Emergency DB and sub mains by copper wire <b>(new)</b>	1.00
3	Miscellaneous Civil work, Lawn and Plantation and Electrical work in Parivesh Bhawan <b>(ongoing)</b>	5.00
4	Renovation of Divisions/Sections/Halls etc. <b>(ongoing)</b>	82.00
5	Replacement of LT Panel including Switch and Bus Couplers in Sub-station <b>(ongoing)</b>	10.00
6	Replacement of 2nos. of old transformer 500 KVA to 750KVA OLTC <b>(new)</b>	10.00
7	New copper earthing for sub-station, providing of 50mm x 6mm copper strips	2.00
8	Fuel, Maintenance, Insurance, Road Tax, Hiring of vehicles and Purchase of two no. new vehicles <b>(ongoing)</b>	40.00
	<b>Total</b>	<b>250.00</b>



### 6.16 Information Technology (Project Head-V (A))

<b>Scheme No.</b>	<b>Name of Schemes</b>	<b>Allocations (₹ in Lakh)</b>
	<b>Project Head-V (A) Information and Database Management P-V (A)</b>	
1	On-going activities including the projects related to EDB, OEDM, CAAQM and ESS	80.00
2	Computerization and Digitization of CPCB Activities	(Through Cess Funds)
3	Project for linking real-time data from the industries/SPCBs/CPCB	20.00
	<b>Sub Total:</b>	<b>100.00</b>
	<b>Project Head-VI Pollution Control Enforcement</b>	
4	Spatial Environmental Planning	10.00
	<b>Sub Total:</b>	<b>10.00</b>
	<b>Grand Total:</b>	<b>110.00</b>

## 7.0 PLANS & PROGRAMMES OF ZONAL OFFICES 2011-12

### 7.1 Zonal Office-Bangalore

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
	<b>Project Head-I Pollution Assessment Survey &amp; Monitoring</b>	
1	Surveillance of NAMP stations including review meeting ( <b>ongoing</b> )	0.50
2	Surveillance of NWMP stations including review meeting ( <b>ongoing</b> )	0.50
3	Monitoring of inter-state river water quality in Southern Zone ( <b>ongoing</b> )	0.50
4	Development of methodology for assessment of Non Point source of pollution (NPS) due to agriculture in an Riverine system (partially outsourced)	5.00
5	Operation and Maintenance of Networking of CAAQM stations in Bangalore and Chennai	1.00
6	Study of HAPs comprising of VOCs, PAHs, Pesticides, Dioxins and Furans and heavy metals in problem areas, and in imp cities in South Zone (partially outsourced)	7.00
7	Chemical characterization (anions, cations) on ambient particulate matter in major cities of South Zone	2.00
8	Air Pollution modeling in Manali, Chennai, Tamil Nadu	2.00
9	Monitoring and Assessment of Municipal Solid Waste (MSW) Processing facilities in Southern Zone	1.50
10	Monitoring and Assessment of Environmental Pollution of Automobile Manufacturing Units	2.00
11	Monitoring and Assessment of Environmental Pollution from Sponge Iron Industries in Karnataka	1.00
12	Monitoring and Assessment of airborne microbial pollution in the vicinity of Municipal Solid Waste Management sties in South India.	5.00
13	Monitoring of PM <sub>10</sub> and PM <sub>2.5</sub> , Ozone, Ammonia in Important Cities and Industrial Estates	5.00
	<b>Sub Total:</b>	<b>33.00</b>
	<b>Project Head-II Laboratory Management</b>	
14	Operation & Maintenance of laboratory and procurement of instruments	40.00
15	Development of Facilities for Calibration of Instruments and Equipments (Ring Test Facility)	5.00
16	Conducting Analytical Quality Control Proficiency Test programme for environmental laboratories of State Pollution Control Boards and Pollution Control Committees and other laboratories in South Zone	2.00

17	NABL accreditation activities	2.00
18	Building Infrastructure Project (Refund of security deposit and Gas handling System, Ring test etc.)	30.00
	<b>Sub Total:</b>	<b>79.00</b>
	<b>Project Head-IV Training</b>	
19	Quality Assurance and Quality Control for water sampling and analysis	2.00
20	Expenditure for officials nominated for various training programmes from Head quarters and for other sponsoring to other organizations.	5.00
	<b>Sub Total:</b>	<b>7.00</b>
	<b>Project Head-V (A) Information (Database Management)</b>	
21	Operation of computer systems and its peripherals, Local area networking etc including procurement of new computers, softwares other items and AMC for computers	10.00
	<b>Sub Total:</b>	<b>10.00</b>
	<b>Project Head-V (B) Library</b>	
22	Development of library & infrastructure including procurement of journals, books, etc <b>(ongoing)</b>	1.00
	<b>Sub Total:</b>	<b>1.00</b>
	<b>Project Head-VI Pollution Control Enforcement</b>	
23	Verification of compliance of standards by industries in southern zone including ESS, Status of CEPI and Follow up of court directions	15.00
24	Monitoring of STP, CETP, TSDf, CBMWTF and verification of CEPI	2.00
25	(i) Salary of Technical & Scientific Staff	85.72
	(ii) ESS activities and O & M Expenses	14.28
	<b>Sub Total</b>	<b>117.00</b>
	<b>Project Head-VIII Mass Awareness, Publications &amp; NGO Activities</b>	
26	Organizing mass awareness Programme in School, Colleges & Public places and conducting Hindi divas for officials and organizing get together of CPCB ZOB officials <b>(ongoing)</b>	3.00
	<b>Sub Total:</b>	<b>3.00</b>
	<b>Grand Total:</b>	<b>250.00</b>

## 7.2 Zonal Office-Bhopal

Scheme No.	Name of Schemes	Allocations ( ` in Lakh)
<b>Project – I : Pollution Assessment Survey &amp; Monitoring</b>		
1.	Surveillance of ambient air and water quality monitoring stations under NAMP/NWMP (ongoing)	01.00
2.	Status of Air Pollution Control in Mini Cement Plants	01.40
3.	SPM characterization and PM size distribution at selected cities (ongoing)	02.00
4.	Disposal options of marble slurry in Rajasthan.	00.80
5.	Study of Noise & Air Pollution during Diwali	05.00
6.	Study of important water bodies in Central Zone	01.00
<b>Sub Total :</b>		<b>11.20</b>
<b>Project – II : Laboratory management</b>		
7.	Development of laboratory and monitoring facilities including operation & maintenance of existing laboratory including payment towards rent, electricity, security (ongoing)	44.50
8.	Operation & maintenance of surveillance vehicle (ongoing)	00.50
<b>Sub Total :</b>		<b>45.00</b>
<b>Project – IV : Training</b>		
9.	Nomination of officers/staff for training/workshops ( ongoing)	00.50
<b>Sub Total :</b>		<b>00.50</b>
<b>Project –V (A) : Information (Database management)</b>		
10.	Procurement of computer and other accessories and operation & maintenance of existing computers (ongoing)	02.00
<b>Sub Total :</b>		<b>02.00</b>
<b>Project Head – V (B) Library</b>		
11.	Development of library, subscription of journals/publications and purchase of CDs/software etc	00.75
<b>Sub Total :</b>		<b>00.75</b>
<b>Project – VI : Pollution Control Enforcement</b>		
12.	(i) Salary of Technical & Scientific Staff (ii) ESS activities and O & M Expenses	33.49 20.01
13.	Monitoring of operational STPs, CETPs in Central Zone	2.00
14.	Monitoring TSDFs and CBMWTFs for verification of compliance of guidelines in management of waste & investigation of public/VIP complaints	1.00
15.	Assessment of Hazardous Waste Co-processing at various industrial sectors in Central Zone (Ongoing)	1.00
16.	Presence of heavy metals in vegetation & their effects	1.00
17.	Environmental Status Report of major cities in Central Zone	0.50
18.	Digitalization & E-Governance of Zonal Office	02.00
19.	Construction of Laboratory – cum- Office Building	79.05
<b>Sub Total :</b>		<b>140.05</b>
<b>Project – VIII : Mass Awareness, Publications &amp; NGO activities</b>		
20.	Organizing mass awareness activities during World Environment Day and other events	00.50
<b>Sub Total :</b>		<b>00.50</b>
<b>Gross Total</b>		<b>200.00</b>

### 7.3 Zonal Office-Kolkata

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
	<b>Project Head-I Pollution Assessment Survey &amp; Monitoring</b>	
1	Surveillance of air and water quality monitoring stations including AAQM in Kolkata	1.00
2	Status of Ganga River from Bihar to Ganga Sagar (West Bengal)	1.00
3	O & M of AQM at Canning under MALE Declaration	8.00
4	Interstate River Monitoring	1.00
5	Bio-monitoring of River Hooghly from Barrackpore to Falta Region	0.50
6	Status of Major Drains in Kolkata	0.50
7	Development of infrastructure for the Characterization of PM <sub>10</sub> and PM <sub>2.5</sub> in ambient air of Kolkata and Rural areas.	1.00
8	Impact of Mangrove Ecosystem on emission of Green House Gases.	1.00
9	Assessment of Volatile Organic Carbon in the major Traffic Intersection of Kolkata	0.50
10	Status of Sponge Iron Industries in the Eastern India in regard to Solid Waste Management	1.00
11	Environmental Issues and Challenges in Coal Bed Methane (CBM) production in Eastern Region	0.50
12	Workshop on operation and maintenance of continuous Emission Monitoring Equipment	1.00
13	Compliance Status of Oil refineries in Eastern Region with respect to new standards	0.50
14	Environmental status of Automobile Centres in Eastern Region	0.50
15	Environmental status of Iron Ore Pelletization Plant in Eastern Region	1.00
16	Potential of Waste Tyres as Fuel in Indian Cement Sector	0.50
17	Characterisation of ground water in arsenic and Fluoride affected areas	0.50
18	Suspended sediment and sediment associated contaminants in Hooghly and Mahanadi estuary	0.50
19	Assessment of water quality in hilly region rivers	0.50
	<b>Sub Total:</b>	<b>21.00</b>

	<b>Project Head-II Lab Management</b>	
20	Strengthening O & M of laboratory including procurement of sophisticated laboratory equipment and salary of SRFs/ JRFs, Payment of Electricity, Telephone, Society Maintenance, Security, Rent, AMC, Insurance, Cleaning Service and Others	48.00
21	Procurement of Chemicals, Glassware & Filter Paper etc.	6.00
	<b>Sub Total:</b>	<b>54.00</b>
	<b>Project Head-IV Training</b>	
22	Nomination for training programmes/ workshops	1.50
23	Mass Awareness Programme Environmental Awareness Programme for NGOs/Colleges and Schools	1.00
	<b>Sub Total:</b>	<b>2.50</b>
	<b>Project Head-V (A) Information (Database) Management</b>	
24	Database management	2.00
	<b>Sub Total:</b>	<b>2.00</b>
	<b>Project Head-V (B) Library</b>	
25	Development of library	0.50
	<b>Sub Total:</b>	<b>0.50</b>
	<b>Project Head-VI Pollution Control Enforcement</b>	
26	(i) Salary of Technical & Scientific Staff (ii) ESS activities and O & M Expenses	60.27 5.73
27	Running and maintenance of vehicles in execution of plan activities	4.00
	<b>Sub Total:</b>	<b>70.00</b>
	<b>Grand Total</b>	<b>150.00</b>

#### 7.4 Zonal Office-Lucknow

Scheme No.	Name of Schemes	Allocations ( ` in Lakh)
	<b>Project Head-I Pollution Assessment Survey &amp; Monitoring</b>	
1	Operation & Maintenance of Ambient Air Quality Monitoring Station at Lucknow	10.00
2	Operation & Maintenance of Ambient Air Quality Monitoring Station at Vikas Nagar, Kanpur	10.00
3	Inspection of NAMP & MINARS station located in North Zone	1.00
4	Monitoring of Interstate Rivers	2.00
5	Generation of Base Line Environmental Quality Data (Ambient Air & Water)	1.00
	<b>Sub Total:</b>	<b>24.00</b>
	<b>Project Head-II Laboratory Management</b>	
6	Lab Operation and Maintenance	20.00
7	Lab Development	25.00
	<b>Sub Total:</b>	<b>45.00</b>
	<b>Project Head-V (A) Information Management</b>	
8	Information (Data Base Management)	8.00
	<b>Sub Total:</b>	<b>8.00</b>
	<b>Project Head-V (B) Library</b>	
9	Library Development	2.00
	<b>Sub Total:</b>	<b>2.00</b>
	<b>Project Head-VI Pollution Control Enforcement</b>	
10	(i) Salary of Technical & Scientific Staff	67.64
	(ii) ESS activities and O & M Expenses	39.36
	<b>Sub Total:</b>	<b>107.00</b>
	<b>Project Head-VII Pollution Control Technology</b>	
11	Comparative evaluation of economics and pollution potential in grain based and molasses based distilleries	1.00
12	Pollution assessment in battery recycling units	1.00
	<b>Sub Total:</b>	<b>2.00</b>
	<b>Project Head-VIII Mass Awareness</b>	
13	Mass awareness and training activities	2.00
	<b>Sub Total:</b>	<b>2.00</b>
	<b>Project-IX Hazardous Waste Management</b>	
14	Geo-environmental Investigation and pilot-scale remediation of soil and groundwater in identified area of north zone	4.00
	<b>Sub Total:</b>	<b>4.00</b>
	<b>Total (A):</b>	<b>194.00</b>
	<b>Project Office- Agra</b>	

	<b>Project-I Pollution Assessment-Survey &amp; Monitoring</b>	
1	Operation & Maintenance of Ambient Air Quality Monitoring Stations in Agra (Salary of Scientific and Technical staff including JRFs, O & M expenses etc.)	30.78
2	Environmental Status of one city in Taj Trapezium zone	3.00
3	Monitoring of indoor Air Quality in selected locations in Agra	1.00
4	Operation & Maintenance of BAM, Met System & SODAR	2.00
	<b>Sub Total:</b>	<b>36.78</b>
	<b>Project-II Lab Management</b>	
5	Operation & Maintenance of Laboratory	6.00
6	Characterization of rain water samples of Agra and Lucknow	1.00
	<b>Sub Total:</b>	<b>7.00</b>
	<b>Project-IV Training</b>	
7	Training	0.50
	<b>Sub Total:</b>	<b>0.50</b>
	<b>Project-V(A) Information (Data Base) Management</b>	
8	Data Base Management at Agra Office	1.50
	<b>Sub Total:</b>	<b>1.50</b>
	<b>Project-V (B) Library</b>	
9	Development of Library, purchase of journals, Newspapers, Books	0.50
	<b>Sub Total:</b>	<b>0.50</b>
	<b>Project-VI Pollution Control &amp; Implementations</b>	
10	(i) Performance study of CETP, STP, CBMWTF etc.	3.00
	(ii) Salary of Technical & Scientific Officers	6.22
	<b>Sub Total:</b>	<b>9.22</b>
	<b>Project-VIII Mass Awareness, Publication &amp; NGO Activities</b>	
11	Mass Awareness Activities and Rajbhasha	0.50
	<b>Sub Total:</b>	<b>0.50</b>
	<b>Total (B):</b>	<b>56.00</b>
	<b>Grand Total (A+B) :</b>	<b>250.00</b>



## 7.5 Zonal Office-Shillong

Scheme No.	Name of Schemes	Allocations ( ` in Lakh)
	<b>Project Head-I Pollution Assessment Survey &amp; Monitoring</b>	
1	Co-ordination with State Boards (including visit) regarding Strengthening & Implementation of various Rules/Regulations; Surveillance of NAMP and NWQMP stations <b>(ongoing)</b>	1.00
2	Vehicular Emission Load of Shillong <b>(ongoing)</b>	0.50
3	Status Report on Hazardous Wastes Generating Units in NE-States <b>(ongoing)</b>	0.30
4	Water quality assessment in major International/Interstate Boundary Rivers, Polluting River Stretches and Lakes in the NE region <b>(ongoing)</b>	0.50
5	Assessment of Ambient Air and Water Quality in and around Coal Mining areas of Jayantia Hills, Meghalaya <b>(ongoing)</b>	0.40
6	Effect of Cement Industries on Air Environment in Lumshnong, Meghalaya, the Cement Capital of North East <b>(ongoing)</b>	0.30
7	Environmental Status of Coal Mining areas of Assam and Arunachal Pradesh <b>(ongoing)</b>	0.50
8	Impact of Jhum Cultivation on Ambient Air Quality in Mizoram-Manipur-Assam-Meghalaya <b>(ongoing)</b>	0.50
9	Bio mapping of Barak River and its Tributaries <b>(ongoing)</b>	0.40
	<b>Sub Total:</b>	<b>4.40</b>
	<b>Project Head-II Laboratory Management</b>	
10	Strengthening and Development of Laboratory and Rent for Lab Building and new Furniture for Laboratory) <b>(ongoing)</b> (G.C., AAS, Flue Gas Analyser are to be purchase by Head Office)	8.00
11	Operation and Maintenance of Laboratory including Salary of SRF/JRFs, Security Personnel and Sweeper Cum Cleaner <b>(ongoing)</b>	5.00
	<b>Sub Total:</b>	<b>13.00</b>
	<b>Project Head-IV Training</b>	
12	Nomination for Training/Workshop <b>(ongoing)</b>	0.50
	<b>Sub Total:</b>	<b>0.50</b>
	<b>Project Head-V (A) Information (Database) Management</b>	
13	Database Management (including purchase of PC) <b>(ongoing)</b>	1.00
	<b>Sub Total:</b>	<b>1.00</b>

	<b>Project Head-V (B) Library</b>	
14	Development of library (Purchase of Books, Periodicals etc) <b>(ongoing)</b>	0.10
	<b>Sub Total:</b>	<b>0.10</b>
	<b>Project Head-VI Pollution Control Enforcement</b>	
15	(i) Salary of Technical & Scientific Staff	32.41
	(ii) ESS activities and O & M Expenses	7.59
16	Monitoring the Implementation of MSW Demo-projects in NE States and the Status MSW Management in NE States, including Monthly Hiring of Vehicles <b>(ongoing)</b>	5.00
17	Running and Maintenance of Monitoring Vehicle	2.00
	<b>Sub Total:</b>	<b>47.00</b>
	<b>Grand Total:</b>	<b>66.00</b>

## 7.6 Zonal Office-Vadodara

S.No.	Name of Schemes	Allocations (` in Lakh)
	<b>Project – I : Pollution Assessment Survey &amp; Monitoring</b>	
01.	Surveillance of Water Quality and Ambient air quality monitoring stations	0.50
02.	Inter State river monitoring in Gujarat and Maharashtra	2.25
03.	Performance of CETPs in Gujarat and Maharashtra	2.25
04.	Performance of STPs in Gujarat and Maharashtra (New)	--
05.	Performance of CBMWTFs and other HCFs in Gujarat and Maharashtra	0.50
06.	Monitoring of VOCs in industrial areas at Vatva in Gujarat and Roha/Patalganga in Maharashtra.(New)	4.50
	<b>Sub Total</b>	<b>10.00</b>
	<b>Project – II : Laboratory management</b>	
07.	-Strengthening, operation & maintenance of Laboratory and Office. -Procurement of some instruments. -Replacement of old monitoring vehicle with new one. -Procurement of lab furniture etc.	30.00
08.	Annual Maintenance Contract of Instruments.	1.00
09.	Running and maintenance of Office Vehicles.	3.00
	<b>Sub Total</b>	<b>34.00</b>
	<b>Project-IV: Training</b>	
10.	Registration fees and TA/DA for attending the training programmes	0.75
	<b>Sub Total</b>	<b>0.75</b>
	<b>Project –V (A) : Information (Database management)</b>	
11.	-Up gradation of Data base Management. -Replacement of old computers and purchase of new computers, Printers, Scanners. -Comprehensive Annual Maintenance Contracts -Providing LAN facility (New)	4.00
	<b>Sub Total</b>	<b>4.00</b>
	<b>Project –V (B):Library</b>	
12.	Development of Library	1.00
	<b>Sub Total</b>	<b>1.00</b>
	<b>Project –VI: Pollution Control Enforcement</b>	
13.	(i) Salary of Technical & Scientific Staff	77.19
	(ii) ESS activities and O & M Expenses	19.81
	<b>Sub Total</b>	<b>97.00</b>
	<b>Project –VIII: Mass Awareness</b>	
14.	Creation of Mass Awareness Programmes	0.75
	<b>Sub Total</b>	<b>0.75</b>
	<b>Project –IX: Hazardous Waste Management</b>	
15.	Status of Hazardous waste Management in Oil Refineries in Gujarat and Maharashtra (new)	1.00
16.	Performance of Common Hazardous Waste Incinerators at Gujarat & Maharashtra	1.50
	<b>Sub Total</b>	<b>2.50</b>
	<b>Grand Total</b>	<b>150.00</b>