

Chapter - 11

Budget allocation and its expenditure

CPCB is 100% grant-in-aid statutory body under Ministry of Environment and Forests (MoEF), Government of India. Ministry provides grants to CPCB annually on the basis of performance of previous years as well as recommendations of Planning Commission. The expenditure of the plan fund is made as per the schemes/programmes approved in the annual action plan of CPCB. The Annual Action Plan for the year 2011-12 is placed on CPCB's website. The allocation of Plan Fund for the Financial Year 2011-12 is ₹ **40.00 crores**. The performance of plan activities are published in the form of annual report which is placed on the table of both the Houses of Parliament.

Annual Action Plan for the year 2011-12 & 2010-11 at **Annexure - I & Annexure - II**.

Annexure - I

Annual Action Plan 2011-12

(Approved in 159th Meeting of the Board held on 5th 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, NOx 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 Lyophilisation 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 27th 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 28th 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 12th 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 persuaded 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 CO₂ 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 inventurisation 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.
- Inventurisation 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
I	Pollution Assessment-Survey & Monitoring	8.3325	1.4038	9.7363
II	Lab Management	4.9275	2.77	7.6975
III	Development of Standards and Guidelines	3.1425	NIL	3.1425
IV	Training	0.70	0.1175	0.8175
V A	Information (Database) Management	1.00	0.285	1.285
V B	Library	0.23	0.0585	0.2885
VI	Pollution Control Enforcement	8.5475	5.8727	14.4202
VII	Pollution Control Technology	0.725	0.02	0.745
VIII	Mass Awareness, Publications & NGO Activities & Hindi (Raj-bhasha)	0.555	0.0675	0.6225
IX	Hazardous Waste Management	1.18	0.065	1.245
	TOTAL	29.34	10.66	40.00

5.2 Division-Wise & Zone-Wise Budget Allocation:

Part-A: HEAD OFFICE

Name of the Division/Section	Allocation (₹ 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
TOTAL (A):	29.34

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
TOTAL (B):	10.66

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) (ongoing)	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 (ongoing)	300.00
10	Strengthening of National Air Quality Monitoring Programme (NAMP) (ongoing)	-
11	Initiation of PM _{2.5} and other air pollutants monitoring as per revised air quality standards (ongoing)	150.00
12	Epidemiological survey to assess heal 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
	Total:	833.25

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

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
AIR LABORATORY		
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
	Sub Total:	250.00
WATER LABORATORY		
9	Analytical quality control (AQC/ water) for Central and State Pollution Control Boards, Pollution Control Committees & for laboratories recognized under E. P. Act (on going)	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) (on going)	12.00
11	Contamination status of Arsenic and Fluoride in ground water and assessment of impact and economic burden on the environment (on going)	1.00
12	Assessment of nitrogen and phosphorus in various drains in Delhi region to evaluate their influence on eutrophication in receiving water bodies (New)	1.00
13	Procurement of Instrument/equipment under ICB/LCB	18.50
	Sub Total:	33.50

BIO-SCIENCE LABORATORY		
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 (New)	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. (New)	1.00
16	Detection of bactericidal activity of River Ganga from origin to confluence (New)	1.00
17	Isolation and detection of thermophilic bacteriophages from thermal springs to ascertain their significance for bathing water quality (New)	1.00
18	Development of bacteriological water quality standards for swimming, bathing pools (New)	1.00
19	Standardization of MPN Method for Fecal Streptococci analysis in River Yamuna (New)	1.25
20	Bio-monitoring of River Yamuna from origin to confluence to River Ganga (New)	–
21	Bio-monitoring of surface water in critically polluted areas identified for CEPI (New)	–
22	Co-ordination of sponsored project of CPCB on bio-monitoring (ongoing)	–
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 (New)	–
24	Biomonitoring of River Ganga and its tributaries (NGRBA) (New)	2.00
25	Monitoring of water quality of River Yamuna sponsored by NRCD MoEF (ongoing)	NRCD Fund
26	Performance study of STP in Delhi and Haryana under Yamuna Action Plan (ongoing)	NRCD Fund
27	Routine microbiological analysis	0.50
28	Assessment of toxicity status for industrial effluents in selected problem areas (New)	1.00
29	Participation under NGRBA sponsored project	Funding from NGRBA
	Sub Total:	9.75
INSTRUMENTATION LABORATORY		
30	Studies on correlation between COD, BOD and TOC in complex environmental matrices like drain water, river water and industrial effluents (on going) .	2.00

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
	Sub Total:	27.00
NATIONAL REFERENCE TRACE ORGANIC LABORATORY		
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 (New Project)	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) - (New Project)	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 (New Project)	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
	Sub Total:	28.00
TREATABILITY LABORATORY		
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 (OC)	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. (New)	3.0
54	Developing guidelines for operation and maintenance of ETP (New)	3.00
55	Color removal from textile industrial effluent (New)	3.00
56	Regeneration/reuse of brewery effluent. (New)	2.5
57	Air-microflora study with indoor and outdoor samples in Delhi (on going)	1.5
	Sub Total:	104.50
BIO-TECH LABORATORY		
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	—
	Sub Total	40.00
	Grand Total:	492.75

PCI-I

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

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
	Project Head-III Development of Standards & Guidelines	
1	Preparation of COINDS & revision of status on Pesticide Industry (New)	5.00
2	Review of Emission Standards and Preparation of COINDS document on Man-made fiber industry (Ongoing)	20.00
3	Preparation of COINDS and Development of Emission Standards for Paint Industry (Ongoing)	43.00
4	Computation of societal risk abatement cost and long run marginal cost with regard to Dioxin & Furan for common Hazardous Waste incinerator (Ongoing)	8.00
5	Preparation of COINDS document on Pharmaceutical industry and development of standards for VOC Emission (New)	8.00
6	Development of Standards for VOC emission from Isolated Storage facilities/marketing installations of Petroleum Products (New)	4.00
7	Review of effluent standard & development of emission standards for Dye & Dye Intermediate Industry (Ongoing)	2.00
	Sub Total:	90.00
	Project Head-VI Pollution Control Enforcement	
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 (New)	2.00
4	Import of hazardous chemicals in India	2.00
	Sub Total:	10.00
	Grand Total:	100.00

PCI-II

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

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
	Project Head-III Development of Standards & Guidelines	
1	Assessment of Air Pollution from Cement Plants using petcoke as fuel (ongoing)	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
	Sub Total:	15.00
	Project Head-VI Pollution Control Enforcement	
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 (ongoing)	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
	Sub Total:	41.00

	Project Head-VII Pollution Control Technology	
1	Descriptions of clean technology and development of environmental standards for limestone mining (ongoing)	7.00
2	Development of clean technology and environmental standards for bauxite mining (ongoing)	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
	Sub Total:	34.00
	Grand Total	90.00

PCI-III

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

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
	Project Head-III Development of Standards & Guidelines	
1	Development of Standards and Guidelines for the Grain based Distillery in India (ongoing)	4.00
2	Revision of COINDS for Malteries & Breweries (ongoing)	4.00
3	Performance evaluation of bio-digesters, evaporation/membrane filtration (RO) systems for distillery effluent treatment (ongoing)	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 (New)	10.00
5	Performance evaluation ZLD in distilleries through concentration-incineration/Co-processing of spent wash in cement kilns/TPPS/Steel plants (New)	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 (New)	3.00
8	Development of appropriate technology for treatment of effluent from Sugar Mills, Performance evaluation of APCDs in Sugar Mills (New)	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 (New)	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 (ongoing)	5.00
14	Performance evaluation of Tea Estates (New)	3.00
15	Revision of COINDS for soft drink industries (ongoing)	1.25
16	Revision of COIND for slaughter houses including effluent standards (ongoing)	10.00
	Sub Total:	125.25
	Project Head-VI Pollution Control Enforcement	
17	Training programme on pollution control in slaughter houses (ongoing)	3.00
18	Training programme on pollution control in textile industries (ongoing)	3.00
	Sub Total:	6.00
	Project-VII (Pollution Control Technology)	
19	Inventory of textile processing industries in U.P. (New)	3.00
20	Techno-economic feasibility study of Zero Liquid Discharge System Implemented in CETPs at Tirupur	Cess Fund
	Sub Total:	3.00
	Grand Total:	134.25

6.6 SSI Division (Project III, VI, VII)

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

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

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

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
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
	Total:	34.00

6.8 ESS (P-VI)

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
	ESS (P-VI)	
1.	“Monitoring and Compliance of Action Plans defined for identified 43 Critically Polluted Industrial clusters” (On going Project) i. Monitoring of Air, Water and Land quality of 43 Industrial Area ii. Health Impact Assessment of population in the vicinity of Area iii. Recalculation of CEPI	50.00
2.	Inventorisation of Red categories of Industries through SPCBs/PCCs (On going Project)	15.00
3.	Monitoring of ESS Inspections & follow-up (on going)	5.00
	Total:	70.00

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

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
	Project Head-VI Pollution Control Enforcement	
1	Co-ordination with SPCBs including assistance for subject specific programmes (ongoing)	50.00
2	(i) Office co-ordination (including Parliamentary matter infrastructure/ furniture, stationery to finance, administration and legal enforcement charges (ongoing) (ii) Salary of Director, Addl. Director & ESS staff	112.80 76.95
	Sub Total:	239.75
	Municipal Solid Waste Management (MSW)	
3	Implementation of MSW Rules, 2000, Demonstration Projects and specific programmes (ongoing)	75.00
4	Projects under Cess Fund	
	(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)
	Sub Total:	75.00
	Plastics Waste Management (PWM)	
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.) (ongoing)	30.00
6	Assessment of plastics waste generation in India (ongoing)	8.00
7	Life Cycle Assessment of Plastics Waste (New)	20.00
8	Climate Change Co-ordination Activities (Meeting, Seminars/Workshops etc.)	2.00
	Sub Total:	60.00
	Grand Total:	374.75

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

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
	Mass Awareness, Publications & NGO Activities (P-VIII)	
01	Exhibitions/Workshops/Mass Awareness Activities and Preparation of exhibition materials	14.00
02	Publication of CPCB Technical Reports (ongoing)	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 (Total Project Cost: ₹ 10.80 Lacs)	MoEF Fund
	Sub Total:	49.00
Library (Project Head -V (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
	Sub Total:	23.00
	Total (A) :	72.00

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

Scheme No.	Name of Schemes	Allocations (₹in Lakh)
	Project VI – Pollution Control Enforcement	
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">- Mobile Tower related Issues- HPC Report- BIS Committee on Standards for Electrical Instruments	4.00
	Sub Total:	4.00
	Project VII-Pollution Control Technology	
04	Biomimetic Sequestration of CO ₂ into Calcium Carbonate Using Immobilized Enzyme and Whole Cell Bioreactor (Fund of ₹ 276 lakhs are awaited from Planning Commission)	4.00
	Sub Total:	4.00
	Project IX- Hazardous Waste Management	
05	Development of implementation strategy for Hg management in Fluroscnt Lamp Sector (on going)	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
	Sub Total:	18.00
	Total (B)	26.00
	Grand Total (A+B)	98.00

6.11 AS Section (P-VI & VIII)

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

6.12 ETU-Training (Project Head-IV)

S No.	Name of Schemes	Allocations for 2010-11 (₹ in Lakh)
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
	Total:	70.00

6.13 Hindi Cell (P-VIII)

S.No.	Name of Schemes	Allocations (₹ in Lakh)
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
	Total:	5.00

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
	Total:	100.00

6.15 Building Project (Project Head-VI)

S.No	Name of Schemes	Allocations (₹ in Lakh)
	Building Project (P-VI)	
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. (ongoing)	100.00
2	Changing of Emergency DB and sub mains by copper wire (new)	1.00
3	Miscellaneous Civil work, Lawn and Plantation and Electrical work in Parivesh Bhawan (ongoing)	5.00
4	Renovation of Divisions/Sections/Halls etc. (ongoing)	82.00
5	Replacement of LT Panel including Switch and Bus Couplers in Sub-station (ongoing)	10.00
6	Replacement of 2nos. of old transformer 500 KVA to 750KVA OLTC (new)	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 (ongoing)	40.00
	Total	250.00

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

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
	Project Head-V (A) Information and Database Management P-V (A)	
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
	Sub Total:	100.00
	Project Head-VI Pollution Control Enforcement	
4	Spatial Environmental Planning	10.00
	Sub Total:	10.00
	Grand Total:	110.00

7.0 PLANS & PROGRAMMES OF ZONAL OFFICES 2011-12

7.1 Zonal Office-Bangalore

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
	Project Head-I Pollution Assessment Survey & Monitoring	
1	Surveillance of NAMP stations including review meeting (ongoing)	0.50
2	Surveillance of NWMP stations including review meeting (ongoing)	0.50
3	Monitoring of inter-state river water quality in Southern Zone (ongoing)	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 ₁₀ and PM _{2.5} , Ozone, Ammonia in Important Cities and Industrial Estates	5.00
	Sub Total:	33.00
	Project Head-II Laboratory Management	
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
	Sub Total:	79.00
	Project Head-IV Training	
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
	Sub Total:	7.00
	Project Head-V (A) Information (Database Management)	
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
	Sub Total:	10.00
	Project Head-V (B) Library	
22	Development of library & infrastructure including procurement of journals, books, etc (ongoing)	1.00
	Sub Total:	1.00
	Project Head-VI Pollution Control Enforcement	
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 (ii) ESS activities and O & M Expenses	85.72 14.28
	Sub Total	117.00
	Project Head-VIII Mass Awareness, Publications & NGO Activities	
26	Organizing mass awareness Programme in School, Colleges & Public places and conducting Hindi divas for officials and organizing get together of CPCB ZOB officials (ongoing)	3.00
	Sub Total:	3.00
	Grand Total:	250.00

7.2 Zonal Office-Bhopal

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
Project – I : Pollution Assessment Survey & Monitoring		
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
Sub Total :		11.20
Project – II : Laboratory management		
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
Sub Total :		45.00
Project – IV : Training		
9.	Nomination of officers/staff for training/workshops (ongoing)	00.50
Sub Total :		00.50
Project – V (A) : Information (Database management)		
10.	Procurement of computer and other accessories and operation & maintenance of existing computers (ongoing)	02.00
Sub Total :		02.00
Project Head – V (B) Library		
11.	Development of library, subscription of journals/publications and purchase of CDs/software etc	00.75
Sub Total :		00.75
Project – VI : Pollution Control Enforcement		
12.	(i) Salary of Technical & Scientific Staff	33.49
	(ii) ESS activities and O & M Expenses	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
Sub Total :		140.05
Project – VIII : Mass Awareness, Publications & NGO activities		
20.	Organizing mass awareness activities during World Environment Day and other events	00.50
Sub Total :		00.50
Gross Total		200.00

7.3 Zonal Office-Kolkata

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
	Project Head-I Pollution Assessment Survey & Monitoring	
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 ₁₀ and PM _{2.5} 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 Hoogly and Mahanadi estuary	0.50
19	Assessment of water quality in hilly region rivers	0.50
	Sub Total:	21.00

	Project Head-II Lab Management	
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
	Sub Total:	54.00
	Project Head-IV Training	
22	Nomination for training programmes/ workshops	1.50
23	Mass Awareness Programme Environmental Awareness Programme for NGOs/Colleges and Schools	1.00
	Sub Total:	2.50
	Project Head-V (A) Information (Database) Management	
24	Database management	2.00
	Sub Total:	2.00
	Project Head-V (B) Library	
25	Development of library	0.50
	Sub Total:	0.50
	Project Head-VI Pollution Control Enforcement	
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
	Sub Total:	70.00
	Grand Total	150.00

7.4 Zonal Office-Lucknow

Scheme No.	Name of Schemes	Allocations (₹ in Lakh)
	Project Head-I Pollution Assessment Survey & Monitoring	
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
	Sub Total:	24.00
	Project Head-II Laboratory Management	
6	Lab Operation and Maintenance	20.00
7	Lab Development	25.00
	Sub Total:	45.00
	Project Head-V (A) Information Management	
8	Information (Data Base Management)	8.00
	Sub Total:	8.00
	Project Head-V (B) Library	
9	Library Development	2.00
	Sub Total:	2.00
	Project Head-VI Pollution Control Enforcement	
10	(i) Salary of Technical & Scientific Staff	67.64
	(ii) ESS activities and O & M Expenses	39.36
	Sub Total:	107.00
	Project Head-VII Pollution Control Technology	
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
	Sub Total:	2.00
	Project Head-VIII Mass Awareness	
13	Mass awareness and training activities	2.00
	Sub Total:	2.00
	Project-IX Hazardous Waste Management	
14	Geo-environmental Investigation and pilot-scale remediation of soil and groundwater in identified area of north zone	4.00
	Sub Total:	4.00
	Total (A):	194.00

	Project Office- Agra	
	Project-I Pollution Assessment-Survey & Monitoring	
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
	Sub Total:	36.78
	Project-II Lab Management	
5	Operation & Maintenance of Laboratory	6.00
6	Characterization of rain water samples of Agra and Lucknow	1.00
	Sub Total:	7.00
	Project-IV Training	
7	Training	0.50
	Sub Total:	0.50
	Project-V(A) Information (Data Base) Management	
8	Data Base Management at Agra Office	1.50
	Sub Total:	1.50
	Project-V (B) Library	
9	Development of Library, purchase of journals, Newspapers, Books	0.50
	Sub Total:	0.50
	Project-VI Pollution Control & Implementations	
10	(i) Performance study of CETP, STP, CBMWTF etc.	3.00
	(ii) Salary of Technical & Scientific Officers	6.22
	Sub Total:	9.22
	Project-VIII Mass Awareness, Publication & NGO Activities	
11	Mass Awareness Activities and Rajbhasha	0.50
	Sub Total:	0.50
	Total (B):	56.00
	Grand Total (A+B) :	250.00

7.5 Zonal Office-Shillong

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

	Project Head-V (B) Library	
14	Development of library (Purchase of Books, Periodicals etc) (ongoing)	0.10
	Sub Total:	0.10
	Project Head-VI Pollution Control Enforcement	
15	(i) Salary of Technical & Scientific Staff (ii) ESS activities and O & M Expenses	32.41 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 (ongoing)	5.00
17	Running and Maintenance of Monitoring Vehicle	2.00
	Sub Total:	47.00
	Grand Total:	66.00

7.6 Zonal Office-Vadodara

S.No.	Name of Schemes	Allocations (₹ in Lakh)
	Project – I : Pollution Assessment Survey & Monitoring	
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
	Sub Total	10.00
	Project – II : Laboratory management	
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
	Sub Total	34.00
	Project-IV: Training	
10.	Registration fees and TA/DA for attending the training programmes	0.75
	Sub Total	0.75
	Project –V (A) : Information (Database management)	
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
	Sub Total	4.00
	Project –V (B):Library	
12.	Development of Library	1.00
	Sub Total	1.00
	Project –VI: Pollution Control Enforcement	
13.	(i) Salary of Technical & Scientific Staff	77.19
	(ii) ESS activities and O & M Expenses	19.81
	Sub Total	97.00
	Project –VIII: Mass Awareness	
14.	Creation of Mass Awareness Programmes	0.75
	Sub Total	0.75
	Project –IX: Hazardous Waste Management	
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
	Sub Total	2.50
	Grand Total	150.00

Annexure - II

Annual Action Plan of CPCB

2010-11

**Central Pollution Control Board,
Parivesh Bhawan, East Arjun Nagar,
Delhi-110032
April, 2010**

Chapter 1: 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), Government 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, Universities, R & D Institutions etc. 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 and Transboundary Movement) Rules, Bio-medical Waste, Municipal Solid Wastes, Plastics Waste, E-waste, National Ambient Air Quality Standards, Noise Rules etc.

The plans and programmes identified for 2010-11 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), Parliamentary Matters and Planning Commission.

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;
- 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 organize training of persons engaged in programmes on 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 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;

Chapter 3: Achievements of 2009-10

- Water Quality Monitoring is carried out at 1429 stations under Water Quality Monitoring Programme (WQMP) and established 271 new Water Quality Monitoring Stations.
- Ambient Air Quality Monitoring is carried out at 365 locations under National Ambient Air Quality Monitoring Programme (NAMP) and established 147 new Ambient Air Quality Monitoring Stations.
- Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been setup at 24 locations (13 cities).
- Performance monitoring of Sewage Treatment Plants (STPs) have been carried out in selected locations.
- Performance monitoring of Common Effluent Treatment Plants (CETPs) have been carried out at few locations.
- Under Environment Surveillance Squad (ESS) programme, 17 categories of highly polluting industries have been inspected for checking of compliance of standards stipulated under Water Act, 1974 and Air Act, 1981.
- Thirty Three (33) Directions under section 18(1)(b) of Water and Air Acts have been issued to non complying State Pollution Control Boards (SPCBs). 25 Directions under

section 5 of Environment (Protection) Act, 1986 have been issued to non-complying industries.

- Status report prepared on Ground Water Quality soil characteristics in vicinity of Union Carbide Factory, Bhopal
- Assessment of Hazardous Air Pollutants (HAPs) in chemical industrial zones is carried out.
- Remedial measures have been suggested for contaminated Transport, Storage and Disposal Facility (TSDF) sites.
- Monitoring of compliance has been carried out in Common Bio-medical Treatment Facilities.
- Implementation of Municipal Solid Waste (MSW) Rules, 2000 in States and Union Territories.
- Monitoring Programmes of implementation in MSW demonstration projects.
- Implementation of Plastic, Manufacture, Sale and Usage Rules in States and Union Territories.
- Published report on criteria for identification of Bio-degradable Plastics.
- Published report on Assessment and Quantification of Plastic Waste in Railways and Airports.
- Report on plastic waste disposal through Plasma Pyrolysis Technology (PPT) has been finalized.
- COINDS and Environmental Standards for cashew seeds processing industries is under Notification.
- Environmental standards for refractory industry has been notified.
- Report on survey of Polluting Sources and Water Quality of Yamuna River prepared.

Chapter 4: Thrust Areas for 2010-11

- Increasing Water Quality Monitoring Stations (WQMS) from 1700 to 2000.
- Increasing Ambient Air Quality Monitoring Stations from 512 to 572.
- Establishment of continuous Ambient Air Quality Monitoring Stations in remaining metro cities.
- Up-gradation of 4 Zonal Office laboratories at par with Head Office.
- Digitization of pollution related information.
- Establishing 35 Noise Monitoring Stations.

- Development of GIS based information system for Environment Clearance (EC) and Environment Impact Assessment (EIA).
- Assessment of Green House Gases emissions in power plants, vehicles and industries.
- Ensuring compliance in 17 categories of highly polluting industries.
- Major thrust on research at development activities for abatement of pollution.
- Implementation of clean technology processes in highly air polluting industries like Coke-Oven Plants, Sponge Iron Plants, Thermal Power Plants etc.
- Implementation of use of high calorific value hazardous in cement kilns.
- Implementation of Municipal Solid Waste (MSW) Rules, 2000 in States and Union Territories.
- Implementation of Plastic, Manufacture, Sale and Usage Rules 1999, as amended in 2003 in States and Union Territories.
- Monitoring compliance in CETP,STP, CBMTF, TSDF etc.
- Inventory of E-Waste generation in the country.
- Inventorisation of red categories of highly polluting industries.
- Implementation of Action Plan in 43 super-critical and critically polluted areas.
- Hydro-geological interceptions to recharge ground water to maintain minimum water flow.
- Bio-remediation of contaminated TSDF sites.
- Bio-mimetic sequestration of CO₂ into Calcium Carbonate using immobilized enzyme and whole cell bio-reactor.
- Pollution control management in distilleries, tanneries, pulp & paper industries
- Implementation of road map for disposal of plastic waste and MSW.
- Inventorisation of Bio-medical Waste, Hazardous Waste, Plastic Waste, Battery Waste generation in major cities in India.
- Demonstration of plastic waste in road construction.
- Co-processing of plastics waste in Cement Kilns.

5.0 Budget Allocation for 2010-11

5.1 Division-Wise & Zone-Wise Budget Allocation:

Part-A: HEAD OFFICE

Name of the Division/Section	Budget Allocation (Rs. in Lakh)
Pollution Assessment Survey & Monitoring	820.00
Laboratory Management	500.00
Pollution Control Implementation – I	100.00
Pollution Control Implementation –II	90.00
Pollution Control Implementation –III	140.00
SSI Division	155.00
Urban Pollution Control Division	40.00
ESS	20.00
Pollution Control Planning Division (PCP)	495.00
Hindi Cell	5.00
PR Cell and Library	80.00
MS Section (Co-ordination Activity & AS Section)	35.00
Training Division	70.00
Hazardous Waste Management	100.00
Building Maintenance	250.00
Computer Division	100.00
TOTAL (A):	3000.00

Part-B: ZONAL OFFICE

Name of the Zonal Office	Budget Allocation (Rs. in Lakh)
Bangalore	250.00
Bhopal	200.00
Kolkata	150.00
Lucknow & Agra	250.00
Shillong	50.00
Vadodara	100.00
TOTAL (B):	1000.00

GRAND TOTAL (A+B) = 3000.00+1000.00= Rs. 4000.00 Lakh

5.2 Project Head-wise Budget Allocation:

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

S.No.	Project Heads	Allocation (Rs. in Lakhs)		
		Head Office	Zonal Offices	Total
I	Pollution Assessment-Survey & Monitoring	820.00	172.50	992.50
II	Lab Management	500.00	219.50	719.50
III	Development of Standards and Guidelines	266.90	Nil	266.90
IV	Training	70.00	21.50	91.50
V A	Information (Database) Management	100.00	27.50	127.50
V B	Library	16.00	4.50	20.50
VI	Pollution Control Enforcement	952.30	539.50	1491.80
VII	Pollution Control Technology	88.80	2.00	90.80
VIII	Mass Awareness, Publications & NGO Activities & Hindi (Raj-bhasha)	73.00	8.50	81.50
IX	Hazardous Waste Management	113.00	4.50	117.50
	TOTAL	3000.00	1000.00	4000.00

6.0 PLANS & PROGRAMMES OF HEAD OFFICE 2010-11

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

Scheme No.	Name of Schemes	Allocations (Rs in Lakh)
1	National Water Quality Monitoring Programme (NWQMP) (ongoing)	200.00 (RE: 200.00)
2	Survey of Polluted river stretches and preparation of Action Plan (new)	10.00
3	Development of Geographic Information System on water quality and sources of pollution (new)	Under Hydrology Project
4	Survey of Problem Areas and follow up of implementation of Action Plan (ongoing)	Under Hydrology Project
5	National Air Quality Monitoring Programme (NAMP) (ongoing)	250.00 (RE: 500.00)
6	Strengthening of National Air Quality Monitoring Programme (NAMP) (ongoing)	(From Cess Funds Rs. 5.86 Crores for 2009-2011)
7	Initiation of PM 2.5 and other air pollutants monitoring as per new draft air quality standards (new)	50.00 (RE: 400.00)
8	Epidemiological studies (bio-mass burning) (new)	3.50
9	Epidemiological studies on Health aspect for emission from cluster of Sponge iron factories	(RE: 5.00)
10	Interstate Water Pollution Problem (on going)	5.00
11	Performance evaluation of Sewage Treatment Plants in India with respect to various microbial pollutants	10.00
12	Coliform standards for treated sewage	5.00
13	Assessment of Groundwater quality in Metropolitan cities and Class-I towns (on going)	50.00
14	Calibration & Evaluation of Air Quality Monitoring Instruments in NAMP Stations (on going)	20.00 (RE: 30.00)
15	Inventory of Lakes and wetlands in India	15.00
16	National Noise Quality Monitoring Program	201.50
17.	Industrial Pollution control along rivers & lakes (OG)	(RE: 0.50)
Total:		820.00

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

Scheme No.	Name of Schemes	Allocations (Rs in Lakh)
AIR LABORATORY		
1	Operation & Maintenance of Continuous Air Quality Monitoring Stations in Delhi (ITO, DCE and Sirifort, Mobile Van & Installation and operation charges of DOAS) including data management	8.00 (RE: 3.00)
2	Quality Assurance in Air Quality Measurements (including of O&M of CAAQMS in Delhi)	2.00 (RE: 17.00)
3	Measurement of Polynuclear Aromatic Hydrocarbon in Ambient Particulates (RSPM) in Delhi (NAMP locations) and need based industries/locations in India.	3.00
4	Sampling and Analysis of VOCs using GC-MS/ATD at selected locations in Delhi and Industrial areas in the country.	3.00
5	Assessment of Noise Level in Delhi and NAMP Stations and Festival Season.	1.00
6	Monitoring of Benzene in Delhi (passive sampling method)	4.00
7	Auditing of Authorized Pollution Checking Centers in Delhi	1.00
8	Operation & Maintenance of Ambient Air Quality Monitoring Stations at seven locations in Delhi (Manual)	7.00
9	Air Quality Assessment in different areas including Traffic Intersections in Delhi using Portable Monitoring Station	1.00
10	Standardization and Strengthening of new ambient air quality parameters (NH ₃ , Pb, Ni, and As)	4.00
11	Manual Monitoring of Ambient Air quality in five Zonal Offices (each one location) and HO for reporting in television	5.00
12	Q & M of SODAR System and Weather Station	6.00
13	Commissioning and Networking of 5 SODAR Stations in India	30.00
14	Follow up of 16 cities CAAQMS Project and Expansion of CAAQMS network in the country	1.00 (RE: 500.00)
15	Monitoring of ambient air quality in Himalayan Region	2.00
16	Physico-chemical characterization of Particulate matter (PM ₁₀ and PM _{2.5}) in Delhi including analyses of rain water samples	5.00
17	Industrial Monitoring and Development of Infrastructure of Source and Fugitive Emission Monitoring	2.00
18	Development of Infrastructure for measurement of	1.00

	NMHC/Hydrocarbon in source emission. (The study will be initiated after procurement of GC Methaniser in this financial year)	
19	Health Exposure Study of Petrol Pump workers due to Benzene pollution in Delhi in collaboration with Medical Institute/organization	5.00 (RE: 1.50)
20	Organization of training programme on stack monitoring and monitoring of Dioxin & Furan	2.00
21	Studies on impact of air pollution on corrosion of metallic and non metallic materials	(RE: 32.5)
	Sub Total:	93.00
WATER LABORATORY		
22	Analytical quality control (AQC/ water) for Central and State Pollution Control Boards, Pollution Control Committees & for laboratories recognized under E. P. Act (including conducting one national workshop on AQC programme)	1.00
23	Development of BOD Biosensor for rapid estimation of BOD for 17 categories of industries (Collaborative project with IGIB, Delhi)	6.00
24	Setting up of Pilot Plant at Bhagirathi Water Works-Delhi Based on Sludge Reagent Product (SRP) Technology	8.00
25	Contamination status of Arsenic and Fluoride in ground water and assessment of impact and economic burden on the environment in NCR Delhi	1.50
	Sub Total:	16.50
BIO-SCIENCE LABORATORY		
26	Water Quality Assessment through Bio-monitoring in various Aquatic source particularly for Water Bodies/Rivers located in an around Problem areas	4.50
27	Bio-assessment and Bio-monitoring of River Yamuna from origin to Confluence to River Ganga at Allahabad	2.00
28	Monitoring of Water Quality of River Yamuna sponsored by NRCD MoEF	NRCD Fund
29	Performance study of sewage treatment plants in Delhi and Haryana under Yamuna Action Plan	NRCD Fund
30	Water Quality Assessment of Thermal Springs (Hot Springs) in Himalayan Sub-Region of Uttarakhand State and Himachal Pradesh (Collaborative Project with PCRI, BHEL, Haridwar)	2.00
31	Animal Hides Processing Studies for Salt Elimination during Hides Processing (Collaborative project with SSI Division)	1.00

32	Performance Monitoring of Common Bio-medical Waste Treatment Facilities (CBWTF)- Collaborative project with HWM Division	1.00
	Sub Total:	10.50
INSTRUMENTATION LABORATORY		
33	Elemental analysis in ambient particulate matter (PM ₁₀ and PM _{2.5}) of different cities using X-Ray Fluorescence (XRF) Spectroscopy	2.00
34	Studies on correlation between COD, BOD and TOC in complex environmental matrices like Drain water, River water and Industrial effluents	2.50
35	Development of facilities to analyse solid samples using X-ray Fluorescence (XRF) Spectroscopy	3.00
36	Development of coal samples grinding, sample preparation and analysis facilities	12.00
37	Fractionation of heavy metals in freshly deposited sediment of Yamuna and their ecological significance (Collaboration with Water Lab)	2.00
38	Trace metal characterization of solid and hazardous waste using ICP-AES	1.50
39	Analysis of Chlorinated compounds in the Wastewater of Pulp & Paper Industry using AOX Analyser	1.50
40	Annual Maintenance Contract (AMC) of Instruments/Equipments –Atomic Absorption Spectrophotometer (AAS), AOX Analyser, EDXRF Spectrometer, ICP-AES, TOC Analyser, Mercury Analyser, Water Purification System & UPS	5.00
	Sub Total:	29.50
NATIONAL REFERENCE TRACE ORGANIC LABORATORY		
41	Measurement of hazardous organic compounds Dioxin (PCDDs) and Furan (PCDFs) in environmental samples	3.00
42	Volatile organic compounds (VOCs) measurement by purge and trap GC-MS	1.50
43	Measurement of Poly-aromatic Hydrocarbon (PAH) through High Pressure Liquid Chromatograph – standardization of methodology	2.50
44	Monitoring of pesticides residues at national level- Sponsored project by Ministry of Agriculture/IARI, New Delhi	IARI Fund
45	Operational contract for Air Handling Unit, Electrical & Fire Fighting maintenance (AMC)	3.90
46	Assessment of Persistent Organic Pollutant Residues (POP's) in Human Population of Delhi with Special reference to adverse health effects and Morbidity (collaborative project with UCMS and GTB hospital)	1.60

47	Standardisation and Measurement of Dioxin like PCBS and Marker PCBs in Environmental Samples	6.00
48	Annual Maintenance Contract of HRMS and other equipments/instruments viz. GCs, HPLC, GC-MS, UPS systems etc.	10.00
	Sub Total:	28.50
TREATABILITY LABORATORY		
49	Indoor & outdoor air-micro flora study at Delhi	3.00
50	Microbial production of ethanol from different waste-starches	3.00
51	Production of hydrogen gas from drainage effluents of Delhi	3.00
	Sub Total:	9.00
INFRASTRUCTURE LABORATORIES: GENERAL		
52	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)	60.00
53	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)	13.00
54	Performance evaluation of existing continuous ambient air quality monitoring station (CAAQMS) maintained by industries/ SPCBs/ National Institutes	2.00
55	Inter-laboratory PT participation for analysis of various physico-chemical including Dioxin and Furan and bacteriological parameters for various laboratories	2.50
56	NABL- Laboratory Accreditation activities	3.00
57	Procurement of instruments, equipment (LCB items) and spare parts for various labs of CPCB	10.00
58	Committed Expenditure of the year 2009-10. Payment to be made during year 2010-11	67.50
59	Up-gradation of laboratories (Air, Water and Treatability Labs)	154 (RE: 446)
60	Recognition of laboratories under The Environment (Protection) Act, 1986	1.00
	Sub Total	313.00
	Grand Total:	500.00

PCI-I

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

Scheme No.	Name of Schemes	Allocations (Rs in Lakh)
	Project Head-III Development of Standards & Guidelines	
1	Preparation of COINDS documents & revision of status on pesticide industry	Rs. 5.00
2	Review of Emission Standards and Preparation of COINDS document on Man-made fiber industry	Rs. 20.00
3	Preparation of COINDS document & revision of status on Paint industry	Rs. 45.00 (RE: 15.00)
4	Computation of societal risk abatement cost and long run marginal cost of Hazardous Waste incinerator (Ongoing)	Rs. 13.00
5	Preparation of COINDS document on Pharmaceutical industry and development of standards for VOC Emission (New)	Rs. 5.00 (RE: 5.00)
6	Review of Effluent standards and development of emission standards for dye & dye intermediate industries	Rs. 2.00
7	Development of standards for VOC emissions from Isolated Storage Facilities/Marketing Installations of petroleum products (NEW PROJECT)	Rs. 4.00
	Sub Total:	94.00
	Project Head-VI Pollution Control Enforcement	
1	Implementation of action points agreed under CREP for Oil Refineries, Petrochemicals, Dye & Dye intermediates, Pharmaceuticals, Pesticide, Chlor-Alkali and Fertilizer industries.	Rs. 2.00
2	Air Quality Monitoring Emission Inventory and Source Apportionment Studies in Indian cities	(RE: 60.00)
3	Implementation of standards and ESS activities	Rs. 4.00
	Sub Total:	6.00
	Grand Total:	100.00

PCI-II

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

Scheme No.	Name of Schemes	Allocations (Rs. in Lakh)
	Project Head-III Development of Standards & Guidelines	
1	COINDS for cement plants (ongoing)	3.00
2.	Assessment of Air Pollution from Cement Plants using petcoke as fuel (new)	10.00
3.	Development of COINDS on primary copper, lead & zinc industries (ongoing)	1.00
4.	Revision of Comprehensive Document (COINDS) for Aluminium Industry (ongoing)	1.00
5.	Development of Guidelines for Control of Fugitive Emission in Integrated Steel Plant (ongoing)	8.00
6	Development of Emission factor for various units of an integrated steel plant	10.00
	Sub Total:	33.00
	Project Head-VI Pollution Control Enforcement	
1	Techno-economic feasibility of ammonia/ SO ₃ flue gas conditioning system for reduction of particular matter in thermal power plants	2.00
2	National Task force for Thermal Power Plant & Iron & Steel Industry	2.00
3	Implementation of pollution control measures in TPPs, Iron & Steel Industry, Cement Industry, Pb, Cu & Zn, smelting units (including stationery, telephone, transportation & salary of JRF)	4.00
4	Preparation of environmental status report on coal mines (extension of scheme)	2.00
5	Assessment of achieving zero discharge in thermal power plant	2.00
6	Standing committee on emissions from RIC Engines for off road applications	1.00
7	National Committee on Noise Pollution Control	1.00
8	Implementation of noise/emission standards for	0.50

	generator sets	
9	Compliance testing of fire-crackers	1.00
10	Development of Noise Limits for off-road Vehicles and Construction Equipments	0.50
11	Development of a Single Cylinder Diesel Genset Engine with 4-V Layout to meeting Futuristic Emission Levels	0.50
12	Preparation of status report of Sulphuric Acid Plant utilizing off gases in Copper, Zinc and Lead Smelters (New)	2.00
13	Preparation of status report on compliance of florage emission in Alluminium Plants (New)	3.00
14.	Techno-economic feasibility of co-generation of power by waste heat recovery in cement industry (new)	9.50
	Sub Total:	31.00
	Project Head-VII Pollution Control Technology	
1	Descriptions of clean technology and development of environmental standards for limestone mining	7.00
2	Development of guidelines for co-combustion and co-gasification of coal with biomass and wastes (include straw, wood, sewage sludge, refuse derived fuel) RDF), agricultural wastes, paper sludge and tyre derived fuel	3.00
3	Development of clean technology and environmental standards for bauxite mining (ongoing)	3.00
4	Development of Clean Technology and Environmental standards for Ferro-Alloys Industry (ongoing)	3.00
5.	Life cycle assessment of cement plants based on alternate fuels (new)	10.00
	SubTotal:	26.00
	Grand Total	90.00

PCI-III

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

Scheme No.	Name of Schemes	Allocations (Rs in Lakh)
	Project Head-III Development of Standards & Guidelines	
1	Revision of COINDS for soft drink industries (ongoing)	5.00
2	Revision of COINDS for slaughter houses including effluent standards (ongoing)	23.40
3	Development of guidelines for water conservation in sugar mills (ongoing)	2.00 (RE: 3.75)
4	Revision of COINDS for malteries & Breweries (ongoing)	4.00
5	Guidelines for utilization of spent wash for composting (ongoing)	2.00
6	Development of guideline for treatment of spent wash from grain based distillery (new)	5.00
	Sub Total:	41.40
	Project Head-VI Pollution Control Enforcement	
1	Training programme on pollution control in Slaughter houses (ongoing)	2.80
2	Training Programme on pollution control in Textile Industries (ongoing)	2.75
3	Performance evaluation of sewage treatment plants in Delhi-New	0.50
4	Performance status of common effluent treatment plants –Revision (Ongoing)	0.25
5	Control of pollution in NCR (EPCA Activities)	8.00
6	Performance evaluation of air pollution control system in Pulp & Paper industry (ongoing)	10.00
7	Inventorisation and environmental management status of pulp & paper industries (ongoing)	10.00
8	Assessment of the performance of lignin removal plants (LRP) (ongoing)	15.00
9	Demonstration of RO technology in Pulp and Paper Industry (ongoing)	15.00
10	Performance efficiency evaluation of bio-gas digesters & two stage aeration system for distillery effluent (ongoing)	6.00

11	Performance of air pollution control system in sugar mills (ongoing)	2.00
	Sub Total:	72.30
	Project Head-VII Pollution Control Technology	
1	Status report on textile industry	1.30
2	Treatability study for removal of colour from textile industry effluents through electrochemical flocculation (ongoing)	5.00
3	Utilization of Distillery effluent as a source of Nutrient for crop production in different agro climatic of India (ongoing)	20.00
	Sub Total:	26.30
	Grand Total:	140.00

6.6 SSI Division (Project III, VI, VII)

Scheme No.	Name of Schemes	Allocations (Rs in Lakh)
	Project Head-III Development of Standards & Guidelines	
1	COINDS for soaps & detergents (ongoing)	2.00
2	Revision of COINDS on tanneries (ongoing)	2.00
3	Environmentally Sustainable Production Capacity for Certain SSI Sectors	10.00
4	Promotion of cleaner production in electroplating industries	1.00
5	COINDS for Hot mix plant	5.00
6	Revision of COINDS for brick kilns	5.00
7	Comprehensive industry document and environmental standards for activated carbon manufacturing industries	5.00
8	Comprehensive industry document and environmental standards for re-rolling mills	10.00
9	Comprehensive industry document and environmental standards for Pickling Industries	10.00
10	Comprehensive industry document and environmental standards for Small Scale Paint Industries	10.00
11	Development of Environmental standards for plywood industry (ongoing)	14.50
12	To frame the guidelines for (i) siting of rice shellers/parboiled mills (ii) handling, storage and disposal of rice husk and rice husk ash generated in boiler using rice husk as fuel (New)	10.50
13	Reassessment of Secondary zinc smelting industry (New)	10.00
14.	Development of Environmental standard and guidelines for Automobile service station	2.00
15	Development of Environmental standards and COINDS for glue and gelatin standards	1.00
16	COINDS for pollutry Industry	0.50
	Sub Total:	98.50
	Project Head-VI Pollution Control Enforcement	
17	CREP for Tannery Sector	1.00

18	Green House Gas Emissions Accounting in SSI units	1.00
19	Comprehensive Industry document and Environmental Standards for Bee-hive coke oven Plants.	20.00
	Sub Total:	22.00
	Project-VII (Pollution Control Technology	
20	Evaluation and improvements in design of clamp kiln	5.00
21	Demonstration plant for natural gas based brick kiln	5.00
22	State-wise Inventorisation of SSI (Ongoing)	24.50
	Sub Total:	34.50
	Grand Total:	155.00

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

Scheme No.	Name of Schemes	Allocations (Rs in Lakh)
1	Assessment of Vehicular Pollution problems in Religious/Tourist places and development of action plan (on going)	0.25 (RE: 1.25)
2	Ambient Air Quality Status of Kolkata with reference to Ozone, VOC's and Aldehydes (on going)	(RE: 9.00)
3	Assessment of Aldehydes, Ketones and Methane emissions in Vehicle Exhaust, using different fuels (on going)	(RE: 10.00)
4	Auditing of PUC centres (on going)	(RE: 2.00)
5	Development of Guidelines for Improvement & Management of Vehicle Emission Testing and Certification System (New Project)	(RE: 10.00)
6	Status of the pollution generated from road transport sector (New Project)	10.00 (RE: 30.00)
7	Availability and use of catalytic converters in converters in controlling vehicular emissions (New Project)	(RE: 5.00)
8	Development of Guidelines for Environmental Management of Railway sidings handling Industrial materials (New Project)	10.00 (RE: 20.00)
9	Development of Guidelines for Environmentally Sound Disposal of the wastes generated from Passenger Trains (New Project)	(RE: 10.00)
10	Guidelines for Environmental Management in Crematoria (New Project)	(RE: 10.00)
11	Preparation of Comprehensive Industrial Document (COINDS) for Automobile Manufacturing Industry (New Project)	10.00 (RE: 20.00)
12	Development of Guidelines for Recycling/Disposal of Used Vehicles (New Project)	9.75
13	Guidelines for Urban environmental quality improvement using efficient and renewable energy technologies and practices	(RE: 20.00)
14	Environmental Management in Places of Eco-Tourism Importance (New Project)	(RE: 10.00)
15	SEP (on going)	(RE: 12.00)
16	Development of Environmental Information System (on GIS Platform) for pollution control regimes (New Project)	(Planning Commission Fund)
	Total:	40.00

6.8 ESS (P-VI)

	ESS (P-VI)	
1.	Preparation of Action Plans for critically polluted areas	(RE: 100.00)
2.	Monitoring of ambient environmental quality in the critically polluted industrial clusters	(RE: 100.00)
3.	Development of software on CEPI and training programme	(RE: 15.00)
4.	Inventorisation of red-categories of Industries (OG)	15.00 (RE: 15.00)
5.	Monitoring of ESS inspection & follow-up (OG)	5.00 (RE: 5.00)
	Total:	20.00

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

Scheme No.	Name of Schemes	Allocations (Rs in Lakh)
	Project Head-VI Pollution Control Enforcement	
1	Co-ordination with SPCBs including assistance for subject specific programmes (ongoing)	100.00
2	Office co-ordination (including Parliamentary matter, salaries of Directors, Additional Directors, ESS Staff, scientific and technical staff of projects office infrastructure/ furniture, stationery to finance, administration and legal enforcement charges (ongoing))	195.00 (RE: 200.00)
	Sub Total:	295.00
	Municipal Solid Waste Management (MSW)	
3	Implementation of MSW Rules, 2000, Demonstration Projects and specific programmes (ongoing)	100.00
4	Projects under Cess Fund	
	(a) Complete Utilization-Tangible solution for MSW (Including inert)-mass balance study (New)	From MoEF (Rs 6.00)
	(b) In-situ treatment of sewage (wastewater) with reference to odor control (New)	From MoEF (Rs 200.00)
	Sub Total:	100.00
	Plastics Waste Management (PWM)	
5	Implementation of Plastics Manufacture & Usage (Amendment) Rules, 2003 (Projects, related to Plastics Waste Management, Salary of JRF, TA/DA, Stationary Charges, Meeting Expenses etc.) (ongoing)	50.00
6	Environment Impact Assessment due to Plastics Waste Disposal etc. (IITR Lucknow) (ongoing)	5.00
7	Assessment of plastics waste generation in India	25.00
	Climate Change Co-ordination	
8	R& D Schemes	20.00
	Sub Total:	100.00
	Grand Total:	495.00

6.10 PR Cell and Library (Project Head- VIII) & V (B)

Scheme No.	Name of Schemes	Allocations (Rs. in Lakh)
	Mass Awareness, Publications & NGO Activities	
01	Exhibitions/ Workshops/ Mass Awareness Activities and Preparation of exhibition materials	14.00
02	Publication of CPCB Technical Reports (ongoing)	20.00
03	Advertisements	15.00
04	Operation & upkeep of Conference Halls, Committee Rooms & Training Hall, Hospitality Arrangements and strengthening of PR Activities	15.00
05	Environmental information system related activities – funded by MoEF separately (Total Project Cost: Rs. 10.80 Lacs)	00.00
	Sub Total:	64.00
Library (Project Head -V (B))		
1	Library Management & Up-gradation	
(i)	Purchasing of books, newspaper and magazine	3.00
(ii)	Subscription to journals and periodicals	3.00
(iii)	Renovation of the library	9.00
(iv)	Automation of library	0.50
(v)	Binding of journals and damaged publications	0.50
	Sub Total:	16.00
	Grand Total	80.00

6.11 Hindi Cell (P-VIII)

S.No.	Name of Schemes	Allocations (Rs. in Lakh)
1	Hindi Workshops & Training Programme	0.50
2	Hindi Book writing/Noting-Drafting Incentive Scheme	1.00
3	Organising function on Hindi Day, Head Office & Zonal Offices	2.00
4	Purchase of Hindi Books/Dictionary/Stationary	0.50
5	Purchase of new Computer and Bilingual Computer software and Furniture for Hindi Section	1.00
	Total:	5.00

6.12 MS Section

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

Scheme No.	Name of Schemes	Allocations (Rs. in Lakh)
	Project VI – Pollution Control Enforcement	
01	Technical Coordination for pollution abatement projects such as Guidelines for Mobile Tower Base Capacity Building project in respect of Emission, Monitoring & Control in collaboration with Finland & GTZ, Germany, MoEF related matters, Zonal Offices of CPCB, Regional Conferences, BIS related matters	3.00
02	Development of a National Database on Cleaner Technologies (CT)	MoEF Fund
03	'Measures in relation to unintentionally produced POP's (Dioxins and Furans) covering Northern and Eastern States of India'- a UNIDO project	UNIDO Fund
	Sub Total:	3.00
	Project VII-Pollution Control Technology	
04	Biomimetic Sequestration of CO ₂ into Calcium Carbonate Using Immobilized Enzyme and Whole Cell Bioreactor (Fund of Rs. 276 lakhs is sanctioned by Planning Commission in February, 2010)	2.00
	Sub Total:	2.00
	Project IX- Hazardous Waste Management	
05	Development of implementation strategy for Hg management in Fluorescent Lamp Sector	1.00
06	Assessment of Hazardous Air Pollutants in selected Industrial sector and development of protocols for monitoring of Hazardous Air Pollutants in certain critically polluted areas of the country.	12.00
	Sub Total:	13.00
	Total (A):	18.00

(B) AS Section (P-VI & VIII)

Scheme No.	Name of Schemes	Allocations (Rs in Lakh)
	Project Head-VI Pollution Control Enforcement	
1	National level & regional level conference of Chairmen & Member Secretaries of CPCB/SPCBs/PCCs	5.00
2	Staff salary (one DEO)	2.00
3	Board Meeting including TA/DA of members	5.00
4	Redressal of public complaints	0.50
5	Follow-up of corporate responsibility for Environmental Protection (CREP)	0.50
6	Application received under Right to Information Act	0.50
	Sub Total:	13.00
	Project Head-VIII Mass Awareness, Publications & NGO Activities	
07	Financial assistance to NGOs for conducting programmes on Abatement of Pollution & Community Action Programme	1.00
08	Training programme for NGOs on prevention & control of pollution	2.00
09	Interaction meet with NGOs	1.00
	Sub Total:	4.00
	Total (B):	17.00
	Grand Total (A+B):	35.00

6.13 Training (Project Head-IV)

S No.	Name of Schemes	Allocations for 2010-11 (Rs in Lakhs)
01	Training (on-going) (a) National Training (b) International Training	60.00 7.00
02	Ecomark (ongoing)	0.50
03	Design, Development and Implementation of Integrated Environmental management Systems in CPCB (ongoing)	2.50
	Total:	70.00

6.14 Hazardous Waste Management Division (Project Head –IX)

Scheme No.	Name of Schemes	Allocations (Rs in Lakh)
1	Implementation of Hon'ble Supreme Court Directives on Management of Hazardous Waste and related activities (ongoing)	2.00
2	Performance evaluation of Hazardous Waste Treatment, Storage and Disposal Facilities (New)	5.00
3	Performance evaluation of captive hazardous waste incinerators. (New)	5.00
4	Development of Guidelines and evolving criteria for Remediation of Contaminated Sites (Ongoing)	14.00
5	Solidification/Stabilization of heavy metals in hazardous waste (IISc, Bangalore) (Ongoing)	2.50
6	Inspection and monitoring of Health Care and Bio medical/ Waste Treatment Facilities (ongoing)	2.00
7.	Evaluation of State of Art treatment technologies for Bio-medical waste management (ongoing)	2.50
8.	Organization / sponsoring of programmes on Bio-medical waste management (ongoing)	3.00
9.	Monitoring of 'Dioxins and Furans' and other likely environmental air pollutants from the On-site/Common Bio-medical Waste incinerators for base data (New)	3.00
10.	Study on high volume low effect waste-phosphogypsum (New)	5.00
11.	Environmentally sound technology for e-waste recycling (ongoing)	3.00
12.	Health impact of Lead recycling units. (New)	7.00
13.	Study on high volume low effect waste-red mud (New)	5.00
14.	Performance evaluation of captive secured land fill (New)	5.00
15.	Implementation of Battery Rules (ongoing)	5.00
16.	Registration of the HW recycling/ reprocessing/ re-refining industries and related activities (ongoing)	5.00
17.	Waste identification, characterization, minimization and management in Hazardous Waste (Schedule 4 items, Used Oil and Waste	10.00

	Oil) recycling units (NPC, Delhi). (ongoing)	
18.	Study on high volume low effect waste slag from pyrometallurgical operations (New)	8.00
19.	Training programme on sampling, analysis & characterization of hazardous waste for regulatory authorities (New)	3.00
20.	Updation of manual on sampling, analysis & characterization of hazardous waste as per the Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008	5.00
	Total:	100.00

6.15 Building Project (Project Head-VI)

S.No	Name of Schemes	Allocations (Rs in Lakh)
	Building Project (P-VI)	
1	Maintenance of Parivesh Bhawan building (ongoing)	125.00
2	Miscellaneous civil work, Lawn and Plantation etc. and Electrical Work in Parivesh Bhawan (ongoing)	10.00
3	Renovation of toilets in administrative wing (ongoing)	3.00
4	Renovation of Basement Hall (new)	10.00
5	Renovation of PCP Hall No. 502 (new)	25.00
6	Replacement of LT Panel including Switch and Bus Couplers in Sub-station (ongoing)	5.00
7	Replacement of 2nos. old transformer 500KVA to 750KVA OLTC (new)	10.00
8	Providing of new copper earthing 50mm x 6mm (10nos.) to the sub-station (new)	2.00
9	Fuel, Maintenance, Insurance, Road Tax, Hiring of vehicles and Purchase of New Vehicles-2 nos. (ongoing)	40.00
10	Distempering, painting and polishing work in Parivesh Bhawan (new)	5.00
11	Renovation of Chairman, MS Room and Conference Hall at 2 nd floor (new)	15.00
	Total	250.00

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

Scheme No.	Name of Schemes	Allocations (Rs in Lakh)
	Project Head-V (A) Information and Database Management P-V (A)	
1	Operation, Maintenance & Strengthening of Computer Network (ongoing)	20.00
2	Environmental Data Bank (ongoing)	5.00
3	On-line access of emission data from major industries (ongoing)	5.00
4	Computerization and Digitization of CPCB activities (new)	60.00
5	Real time data transmission from Continuous Air Quality Monitoring Stations of India to CPCB's website (ongoing)	5.00
6	Website maintenance and Updation (ongoing)	2.00
7	Development of computerized system for streamlining the process for inspection of industries and follow-up actions (ongoing)	3.00
	Total:	100.00

7.0 PLANS & PROGRAMMES OF ZONAL OFFICES 2010-11

7.1 Zonal Office-Bangalore

Scheme No.	Name of Schemes	Allocations (Rs in Lakh)
	Project Head-I Pollution Assessment Survey & Monitoring	
1	Surveillance of NAMP Stations Including review meeting (ongoing)	1.50
2	Surveillance of NWMP Stations Including review meeting (ongoing)	1.50
3	Monitoring of Inter-state river water quality in Southern Zone (ongoing)	1.00
4	Monitoring of lakes in Bangalore (ongoing)	1.00
5	Air Pollution modeling in Manali, Chennai, Tamil Nadu (ongoing)	3.00
6	Operation and Maintenance of Networking of CAAQM stations in Bangalore and Chennai (ongoing)	3.00
7	Chemical characterization (anions, cations, PAHs) on ambient particulate matter in major cities of South Zone (ongoing)	2.00
8	Assessment of water quality with respect to Physicochemical parameters including Pesticides, Heavy metals and Bio Monitoring of River Tunga Badhra river, Karnataka (ongoing)	2.00
9	Environmental status of Udakamandal (Ooty) in T.N (New)	2.00
10	Monitoring of Ground water in and around TSDF sites in South Zone (New)	1.00
11	Study of VOCs, PAHs, Pesticides, Dioxins and heavy metals in problem areas, in South Zone (ongoing)	10.00
12	Monitoring of Non Point source of pollution in riverine system of pollution in riverine system in Karnataka state (New)	2.00
	Sub Total:	30.00
	Project Head-II Laboratory Management	
1	Operation & Maintenance of mobile lab (ongoing)	1.00

2	Operation & Maintenance and development of stationary lab items (ongoing)	25.00
3	NABL accreditation activities (ongoing)	5.00
4	Development of Facilities for Calibration of Instruments and Equipments (Ring Test Facility) (New)	5.00
5	Development of Infrastructure including development for preparedness of environmental monitoring in case of episode pollution (New)	10.00
6	Conducting Analytical Quality Control and Proficiency Test programme for environmental laboratories of State boards and other laboratories in South Zone (New)	3.00
	Sub Total:	49.00
	Project Head-IV Training	
1	Training on CAAQMS (New)	3.00
2	QA/QC for water sampling and analysis (New)	3.00
3	Interaction meet under various subjects through experts (New)	5.00
4	TA/DA for officials nominated for various training programmes from Head quarters and other sponsoring to other organizations (New)	3.00
	Sub Total:	14.00
	Project Head-V (A) Information (Database Management)	
1	Operation of computer systems and its peripherals, Local area network etc including procurement of new computers, soft wares other items and AMC for computers (ongoing)	10.00
	Sub Total:	10.00
	Project Head-V (B) Library	
1	Development of library & infrastructure including procurement of journals, books, etc (ongoing)	2.00
	Sub Total:	2.00
	Project Head-VI Pollution Control Enforcement	
1	Verification of compliance of standards by industries in southern zone including ESS, ESM and Follow up of court directions (ongoing)	22.00

2	Payment towards electricity, water, rent, salary for project staff (ongoing)	100.00
3	Monitoring of STP, CETP, TSDF and CBMWTF verification of compliance in problem areas (ongoing)	10.00
4	Compliance verification of Incinerators in Karnataka (New)	10.00
	Sub Total	142.00
	Project Head-VIII Mass Awareness, Publications & NGO Activities	
1	Organizing mass awareness programmes in High School and Pre-University Colleges & public places and conducting Hindi divas for officials and organizing family get together of CPCB ZOB officials (ongoing)	3.00
	Sub Total:	3.00
	Grand Total:	250.00

7.2 Zonal Office-Bhopal

Scheme No.	Name of Schemes	Allocations (Rs in Lakh)
	Project Head-I Pollution Assessment Survey & Monitoring	
01	Surveillance of ambient air and water quality monitoring stations under NAMP/NWMP (ongoing)	2.00
02	Organizing regional workshops for officials from SPCB's associated with NWMP and NWMP stations	2.00
03	Ground water quality monitoring including heavy metals in selected regions in Chhattisgarh State	1.00
04	Characterization of Suspended Particulate matter in and around Raipur & Raigarh	4.00
05	Assessment of coal mine water discharge on surroundings with reference to sulphur and heavy metals in central zone	2.00
06	Study of Noise & Air Pollution during Diwali	4.00
	Sub Total:	15.00
	Project Head-II Laboratory Management	
07	Development of laboratory and monitoring facilities including operation & maintenance of existing laboratory including payment towards rent, electricity, security (ongoing)	31.00
08	Operation & maintenance of surveillance vehicle (ongoing)	0.50
	Sub Total:	31.50
	Project Head-IV Training	
9	Nomination of Officers/Staff for training/workshops (ongoing)	1.00
	Sub Total:	1.00
	Project Head-V (A) Information (Database) Management	
10	Development of computer and other facilities and operation & maintenance of existing computers (ongoing)	1.50
	Sub Total:	1.50

	Project Head-V (B) Library	
11	Development of library, subscription of journals and purchase of CDs	1.00
	Sub Total:	1.00
	Project Head-VI Pollution Control Enforcement	
12	Pollution control enforcement including the salary of officers, telephone charges (ongoing)	36.00
13	Monitoring of STPs, CETPS, TSDFs and CBMWTFs for verification of compliance of guidelines in management of waste	2.50
14	Follow up of ESS inspections for compliance of directions issued under Water Act/Air Act	3.00
15	Visit to industries for verification of application for "Actual User"	1.00
16	Assessment of Hazardous Waste Management in cement plants with respect to co-incineration	1.00
17	Assessment of grain based fermentation technology, waste treatment options, disposal of treated effluents.	1.00
18	Review of status of problem areas in Central Zone	2.00
19	Assessment of progress of projects executed by SPCBs with Financial assistance from CPCB in Central Zone	0.50
20	Assessment MSW management at Jodhpur & Gwalior	2.00
21	Zonal office building construction	100.00
	Sub Total:	149.00
	Project Head-VIII Mass Awareness, Publications & NGO Activities	
22	Organising mass awareness activities during World Environment Day	1.00
	Sub Total:	1.00
	Grand Total:	200.00

7.3 Zonal Office-Kolkata

Scheme No.	Name of Schemes	Allocations (Rs in Lakh)
	Project Head-I Pollution Assessment Survey & Monitoring	
1	Surveillance of air and water quality monitoring stations	2.00
2	Environmental status of coastal aquaculture including Effluent Treatment System in West Bengal and Orissa	1.00
3	O & M of air quality monitoring at Canning under Male Declaration	9.00
4	Interstate River Monitoring	2.00
5	Study of Bio-indicator Species with emphasis to Benthic Organisms in the river of Brahmani, Orissa	1.00
6	Development of infrastructure for the Characterization of PM ₁₀ and PM _{2.5} in Ambient Air of Kolkata and Rural areas.	10.00
7	Impact of Mangrove Ecosystem on emission of Green House Gases.	2.50
8	Assessment of Volatile Organic Carbon in the major Traffic Intersection of Kolkata	2.00
9	Assessment of Pesticides from the water bodies located in the nearby Agricultural Field of Kolkata	0.50
10	Status of Domestic Sewage Collection, Treatment and Disposal in Class I and II cities of Eastern Region	1.00
11	Status of Bio-medical Waste Generation, Treatment and Disposal facilities in Eastern Region.	1.00
12	Inventory of Municipal Solid Waste and Hazardous waste Generation, Treatment and Disposal system in Bihar and Jharkhand	0.50
	Sub Total:	32.50
	Project Head-II Lab Management	
13	Strengthening, O & M of laboratory including procurement of sophisticated lab equipment and salary of SRFs/ JRFs, Electricity, Telephone, Society Maintenance, Security, Rent, AMC, Insurance, Cleaning Service and Others	40.00

14	Procurement of chemicals, glassware & filter paper etc.	5.00
	Sub Total:	45.00
	Project Head-IV Training	
15	Nomination for training programmes/workshops	2.00
16	Mass Awareness Programme	2.00
	Sub Total:	4.00
	Project Head-V (A) Information (Database) Management	
17	Database management	3.00
	Sub Total:	3.00
	Project Head-V (B) Library	
18	Development of library	0.50
	Sub Total:	0.50
	Project Head-VI Pollution Control Enforcement	
19	ESS and related activities like performance of TSDF, CBMWTF, STP, CETP including Officers Salary and others	60.00
20	Running and maintenance of vehicles in execution of plan activities	5.00
	Sub Total:	65.00
	Grand Total	150.00

7.4 Zonal Office-Lucknow

Scheme No.	Name of Schemes	Allocations (Rs in Lakh)
	Project Head-I Pollution Assessment Survey & Monitoring	
1	O & M of AAQM at Lucknow	7.00
2	O & M of AAQM at Vikas Nagar, Kanpur	9.00
3	Inspection of NAMP & MINARS station located in north zone	1.00
4	Monitoring of Interstate Rivers (new)	2.00
5	Generation of base line environmental quality data (Ambient Air & Water)	2.00
6	Development of continuous noise monitoring infrastructure in Lucknow	10.00
	Sub Total:	31.00
	Project Head-II Laboratory Management	
7	Lab operation and maintenance	20.00
8	Lab Development	40.00
	Sub Total:	60.00
	Project Head-V Information Management	
9	Information (Data base) Management	7.00
10	Library Development	1.00
	Sub Total:	8.00
	Project Head-VI Pollution Control Enforcement	
11	Monitoring of Common facilities	3.00
12	ESS Activities and joint inspection with MoEF	8.00
13	Maintenance of office building	9.00
14	Salary of Scientific and Technical Officers	75.00
	Sub Total:	95.00
	Project Head-VII Pollution Control Technology	
15	Comparative evaluation of economics and pollution potential in grain based and molasses based distilleries	1.50
16	Pollution assessment in battery recycling units	0.50
	Sub Total:	2.00
	Project Head-VIII Mass Awareness	
17	Mass awareness and training activities	2.00
	Sub Total:	2.00

	Project-IX Hazardous Waste Management	
18	Geo-environmental investigation and pilot-scale remediation of soil and groundwater	4.00
	Sub Total:	4.00
	Total:	202.00
	Project Office- Agra	
	Project-I Pollution Assessment-Survey & Monitoring	
1	Operation & Maintenance of 4 Ambient Air Quality Monitoring Stations in Agra	26.00
2	Aerosol profile in PM ₁₀ & PM _{2.5}	4.00
3	Ambient Air Quality in TTZ	4.00
4	Measurement and mapping of NO _x level in Agra City	1.00
5	Operation & Maintenance of BAM & SODAR	5.00
	Sub Total:	40.00
	Project-II Lab Management	
6	Operation & Maintenance of Laboratory	2.00
7	Characterization of rain water samples at Agra and Lucknow	1.00
	Sub Total:	3.00
	Project-IV Training	
8	Training	0.50
	Sub Total:	0.50
	Project-V(A) Information (Data Base) Management	
9	Data Base Management at Agra Office	1.00
	Sub Total:	1.00
	Project-V (B) Library	
10	Development of Library, purchase of journals, Newspapers, Books	0.50
	Sub Total:	0.50
	Project-VI Pollution Control & Implementations	
11	ESS, Implementations, Public complaints, Parliament questions, interaction, with local Govt./meetings inspections & Rajbhasha	2.00
	Sub Total:	2.00
	Project-VIII Mass Awareness, Publication & NGO Activities	
12	Mass Awareness Activities	1.00
	Sub Total:	1.00
	Total:	48.00
	Grand Total	250.00

7.5 Zonal Office-Shillong

Scheme No.	Name of Schemes	Allocations (Rs in Lakh)
	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 NWQM stations (ongoing)	0.50
2	Vehicular emission load of Shillong (ongoing)	1.00
3	Status Report on Hazardous Wastes Generation Units in (New)	1.00
4	Water quality assessment in major International/Interstate Boundary Rivers, Polluting River Stretches and Lakes in the NE region (ongoing)	2.00
5	Assessment of Ambient air and water quality in and around Coal Mining Areas of Jayanatia hills, Meghalaya (ongoing)	2.00
6	Effect of Cement Industries on Air Environment in Lumshnong, Meghalaya, the Cement Capital on North East (ongoing)	1.00
7	Environmental status of coal mining areas of Assam & Arunachal Pradesh (ongoing)	1.00
8	Impact of Jhum Cultivation on Ambient Air Quality in Mizoram-Manipur-Assam (ongoing)	0.50
9	Bio mapping of Barak River and its Tributaries (ongoing)	1.00
	Sub Total:	10.00
	Project Head-II Laboratory Management	
10	Strengthening and Development of laboratory (including rent for lab building and new Lab furniture for laboratory) (ongoing)	5.00
11	Operation and maintenance of laboratory including salary of JRFs, security personnel and Sweeper um Cleaner (ongoing)	5.00
	Sub Total:	10.00

	Project Head-IV Training	
12	Nomination for training/workshop (ongoing)	1.00
	Sub Total:	1.00
	Project Head-V (A) Information (Database) Management	
13	Database management (ongoing)	1.00
	Sub Total:	1.00
	Project Head-VI Pollution Control Enforcement	
14	ESS and other Related Activities (Surprise Inspection, Public Complaints, CREP Compliance, Joint Inspection with MoEF, Salary of Officers) (ongoing)	20.00
15	Monitoring the implementation of MSW Demo-projects in NE States and the status MSW Management in NE States, including monthly hiring of vehicles (ongoing)	5.00
16	Running and maintenance of monitoring vehicle	2.00
	Sub Total:	27.00
	Project Head-VIII Mass Awareness, Publications & NGO Activities	
17	Organizing Mass Awareness Programme (Training to the students of Degree Colleges/ High School) (ongoing)	1.00
	Sub Total:	1.00
	Grand Total:	50.00

7.6 Zonal Office-Vadodara

Scheme No.	Name of Schemes	Allocations (Rs in Lakh)
	Project Head-I Pollution Assessment Survey & Monitoring	
1	Surveillance of Water Quality and Ambient air quality monitoring stations (New)	0.50
2	Inter State river monitoring in Gujarat and Maharashtra (New)	2.50
3	Assessment of Ground water quality around common secured land fills sites in Gujarat & Maharashtra (New)	3.00
4	Performance studies of CETPs in Gujarat & Maharashtra (New)	3.00
5	Performance studies of STPs in Gujarat and Maharashtra (New)	0.50
6	Performance of CBMWTFs and other HCFs in Gujarat and Maharashtra (New)	1.00
7	Monitoring of VOCs in industrial areas at Chembur/Navi Mumbai in Maharashtra	3.50
	Sub Total:	14.00
	Project Head-II Laboratory Management	
8	Strengthening, operation & maintenance of Laboratory and Office (New)	15.00
9	Annual maintenance Contract of Instruments (New)	3.00
10	Running and maintenance of Office Vehicles (New)	3.00
	Sub Total:	21.00
	Project Head-IV Training	
11	Registration fees and TA/DA for attending the training programmes (New)	1.00
	Sub Total:	1.00
	Project Head-V (A) Data Base Management	
12	Up-gradation of Data base Management, updating of existing computers, comprehensive Annual Maintenance Contracts etc. (New)	3.00
	Sub Total:	3.00
	Project Head-V (B) Library	
13	Development of Library (New)	0.50
	Sub Total:	0.50

	Project Head-VI Pollution Control Enforcement	
14	ESS Programmes and Public Complaints (New)	45.00
15	Maintenance of Parivesh Bhawan (new-office-cum-lab)	14.50
	Sub Total:	59.50
	Project Head-VIII Mass Awareness, Publications & NGO Activities	
16	Creation of Mass Awareness Programmes including organizing training programme for teachers, organizing other awareness programmes for school children (New)	0.50
	Sub Total:	0.50
	Project Head-IX Hazardous Waste Management	
17	Registration of Hazardous Waste Recycling Industries (New)	0.50
	Sub Total:	0.50
	Grand Total:	100.00