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ANNUAL ACTION PLAN (2006-2007)

{ Approved in the 137th Meeting of the Board held on 27.3.2006 }



CENTRAL POLLUTION CONTROL BOARD
(Ministry of Environment & Forests, Govt. of India)
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ANNUAL ACTION PLAN
(2006-2007)

Approved by the Board of Directors on 12.12.2006



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डा. वी. राजगोपालन, भा.प्र.से.
अध्यक्ष

Dr. V. RAJAGOPALAN, IAS
CHAIRMAN

केन्द्रीय प्रदूषण नियन्त्रण बोर्ड

(भारत सरकार का संगठन)
पर्यावरण एवं वन मंत्रालय

Central Pollution Control Board

(A Govt. of India Organisation)
Ministry of Environment & Forests
Phone : 22304948 / 22307233

FOREWORD

The Central Pollution Control Board (CPCB) is a grant-in-aid institution of Ministry of Environment and Forests. The Plan Allocation sanctioned for the year 2006-07 is Rs.42.90 crores. Accordingly, programmes have been formulated covering different areas of prevention and control of pollution. Emphasis has been laid on various activities which includes; setting-up of Continuous Ambient Air Quality Stations (CAAQMS) in major cities and urban areas, strengthening of National Ambient Air Quality Monitoring Stations, strengthening of surface and ground water quality monitoring especially for analysis of pesticides and toxic metals, initiating monitoring of Hazardous Air Pollutants (HAPs) in polluted and urban areas, developing emission standards for HAPs, source apportionment studies in 6 cities, developing and demonstration of solid waste management technologies, development of appropriate technology for plastics waste disposal, performance evaluation of TSDF/CETPs/ CBMWF, fuel quality improvement programme and implementation of Honorable Court Orders. Besides, implementation of Hazardous Wastes (Management & Handling) Rules, Municipal Solid Wastes (Management & Handling) Rules, Recycled Plastics Manufacture and Usage Rules, Biomedical Waste (Management & Handling) Rules, and Batteries will be continued during 2006-07. Strengthening of environment surveillance activity including performance evaluation of CETPs, TSDF, and CBMWF will be taken up through Zonal Offices of CPCB. Preparing a document on strengthening of SPCBs/PCCs for implementation of new rules will also be taken up as a special programme.

(Dr. V. Rajagopalan)
Chairman, CPCB

Implementation & Performance of Annual Action Plan 2006-07

Schemes approved for 2006-07 will be implemented by the concerned divisions at Head Office and Zonal Offices. The implementation of action plan will be regularly monitored by Member Secretary, and by the Additional Director & I/C PCP (**ABA**), Scientist "C" (**SKN**) of PCP alongwith financial monitoring by the Finance and Accounts Section.

Divisions and Zonal Officers (ZOs) are requested to note following points for compliance

1. Divisions/ZOs will forward one *Para* write-up alongwith quarterly targets for each scheme to PCP Division.
2. Divisions/ ZOs will forward *Quarterly Progress Report* (Physical & Financial) at the end of each quarter to PCP Division.
3. Divisions/ZOs should seek *Administrative Approvals* of each scheme on or before 30.06.2006. Divisions/ZOs should attach *Quarterly Targets* for each scheme alongwith the proposal of Administrative Approval.
4. Divisions/ZOs are required to communicate additions/deletions of any scheme to PCP Division for further approval of Competent Authority.
5. All the process relating to procurement of laboratory equipment and office equipment should be completed before December, 2006. Similarly, projects to be executed through Institutions and consulting agencies, should be finalized and work orders be placed before September, 2006.
6. Finance and Accounts Section will forward fund utilization statements to Office of MS/CCB (including PCP) division on monthly basis.
7. Divisions and Zonal Offices should indicate activities assigned to each Scientific and Technical officials (upto level of JLA and JRF level) as per AAP and also indicate activities assigned in addition to AAP.



(Dr. B. Sengupta)
Member Secretary

1.0 INTRODUCTION

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2.0 FUNCTIONS OF CPCB

The functions of CPCB are specified under Section (16) of the Water (Prevention and Control of Pollution) Act, 1974 and under the Air (Prevention and Control of Pollution) Act, 1981. CPCB is also co-ordinating important activities under the Water (Prevention and Control of Pollution) Cess Act, 1977 and various functions as delegated upon under the Environment (Protection) Act, 1986 and Rules made hereunder. The important rules relate to: Hazardous Wastes (Management and Handling) Rules, 1986; Manufacture, Storage and Transport of Hazardous Chemical Rules, 1988; Bio-medical waste (Management and Handling) Rules, 1986; Recycled Plastics Manufacture and Usage (Amendment) Rules, 2003 and the Municipal Solid Waste (Management and Handling) Rules, 2000.

CPCB has been associated in the various Committees and Authorities constituted by the Govt. including those set up on the recommendations of the National Green Tribunal from time to time.

1.0 INTRODUCTION

Central Pollution Control Board (CPCB) constituted under the Water (Prevention and Control of Pollution) Acts, 1974 is a 100 % Grant-in-Aid institution of the Ministry of Environment and Forests (MoEF), Govt. of India. CPCB serves as a technical wing of MoEF and coordinates with the State Pollution Control Boards (SPCBs)/ Pollution Control Committees (PCCs) for Implementation of plans and programmes relating to abatement of pollution. CPCB undertakes the project and programs through in-house efforts and also with the assistance of different Research Institutions such as IITs, Engineering Colleges, Universities, Research Institutions etc.

CPCB has been co-ordinating with the different concerned agencies for controlling pollution and this is being done by generating relevant scientific information and rendering technical inputs for formulation of national policies and programmes. CPCB is also imparting training and development of manpower through different Nodal Training Institutes (NTIs). CPCB, in addition to the implementation of Water and Air Act, has planned various programmes relating to implementation of new rules framed under the Environment Protection Act, 1986 such as Hazardous Wastes (Management and Handling) Rules, Bio-medical waste, Municipal Solid Wastes and Plastics Waste.

The plans and programmes for 2006-07 are prepared based on the thrust areas identified by the Ministry of Environment and Forests and Planning Commission and also as per decisions taken in the Chairmen and Member Secretaries Conferences of State Pollution Control Boards and Pollution Control Committees.

2.0 FUNCTIONS OF CPCB

The functions of CPCB are specified under Section (16) of the Water (Prevention and Control of Pollution) Act, 1974 and under the Air (Prevention and Control of Pollution) Act, 1981. CPCB is also co-ordinating important activities under the Water (Prevention and Control of Pollution) Cess Act, 1977 and various functions as delegated upon under the Environment (Protection) Act, 1986 and Rules made hereunder. The important rules relate to; Hazardous Wastes (Management and Handling) Rules, 1989; Manufacture, Storage and Import of Hazardous Chemical Rules 1989; Bio-medical waste (Management and Handling) Rules, 1998, Recycled Plastics Manufacture and Usage (Amendment) Rules, 2003 and the Municipal Solid Wastes (Management and Handling) Rules, 2000.

CPCB has been associated in the various Committees and Authorities constituted by the Govt. including these set up on the recommendations of Hon'ble Supreme Court from time to time.

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 Govt. on any matter concerning prevention and control of water and air pollution and improvement of the quality of air;
- ▶ Plan and cause to be executed a nation-wide programme for the prevention and control or abatement of water and air pollution;
- ▶ Co-ordinate the activities of the SPCBs and resolve disputes among them;
- ▶ Provide technical assistance and guidance to State Boards; carry out and sponsor investigation and research relating to problems of water and air pollution and for their prevention, control or abatement;
- ▶ Plan and organise training of persons engaged in programmes on prevention, control or abatement of water and air pollution;
- ▶ Organise through mass media, a comprehensive mass awareness programme on prevention, control or abatement of water and air pollution;
- ▶ Collect, compile and publish technical and statistical data relating to water and air pollution and measures derived for their effective prevention, control or abatement;
- ▶ Prepare manuals, codes and guidelines relating to treatment and pollution and their prevention and control;
- ▶ Lay down, modify or annul, in consultation with State Governments concerned, the standards for stream or well, and lay down standards for the quality of air ; and
- ▶ Perform such other functions as and when prescribed by the Govt. of India.

3.0 ACTIVITIES AND ACHIEVEMENTS OF 2005-06

3.1 Pollution Assessment Survey & Monitoring

- Water Quality Monitoring has been carried out at 1000 Stations
- Ambient air quality monitoring has been carried at 287 locations covering 116 cities/towns in 25 States and 4 UTs.
- Trend analysis has been carried out for air quality assessment in metro cities for SO₂,NO_x and RSPM
- Identified 72 polluted cities (non-attainment) and action plans have been formulated and being implemented to control air pollution in these cities

- Ground water quality monitoring has been carried out in Metro cities.

3.2 Laboratory Management

- Capabilities have been strengthened for producing mixtures of SO_2 , NO_2 , CO and CH_4 for calibration purposes. Efforts are made for procurement of NIST certified mixtures.
- Monitoring of Particulate matter, $\text{PM}_{2.5}$ is continued in Delhi.
- Analytical capabilities have been developed for measurement of organic air toxics (BTX) using wide variety of automatic and manual monitoring methods such as on-line automatic analyzers, active and passive sampling techniques.
- Monitoring of poly nuclear aromatic hydrocarbons (PAH) has been taken up in Delhi. Samples are collected from 6 NAMP locations and from integrated monitoring station at ITO. 15 important PAH compounds are analysed after extraction in toluene and using GC-FID.
- Standard operating procedure for measuring Ambient Air quality and source emission using manual and automatic monitoring techniques have been documented.
- Ambient Air Quality in respect of 9 cities is forwarded on daily basis to electronic media (TV) and data is up loaded on CPCB Web site on a daily basis.
- One continuous air quality station (CAQMS) has been installed in the premises of Delhi College of Engineering. Further, process of setting and operation of CAQM station in 4 cities, 12 locations is being finalised which will be on built own and operate system.
- Bio-monitoring of wetlands and hydel projects has been carried out for assessing the water quality.
- Specific projects on treatability of wastes including other areas such as; micro organism in out-door and in-door environment, de-toxification of paper mill effluents, production of ethanol from waste starch material, etc. are taken up.

3.3 Development of Standards and Guidelines

- Revision of standards and evolving standards in respect of new categories of industries and preparation of Comprehensive Industry by Document (COINDS) were completed/ on-going in respect of; Oil Refineries, Fertilizers, Dyes and Dye Intermediates, Coffee, large and small pulp and paper, Fermentation, Poultry, Maltries and Breweries, Soft Drinks, Sugar, Sulphuric acid plants, sponge iron plants etc.
- Environmental Guidelines have either been evolved/ or under development such as; solid waste management in abattoir, water conservation in sugar, distilleries, pulp and paper and other industries, composting of spent waste, odour control in pulp and paper and distilleries, etc.

3.4 Training

- Organised 23 knowledge and skill development courses for the staff engaged in Prevention & Control of Pollution. The training programmes have been organised through nodal training institutes. The programmes conducted include; Environmental Planning & Management, Environmental Monitoring and Assessment, Hazardous substances/ Solid Waste/ Bio-Medical Waste Management, Environmental Laboratory Management, Analysis and Quality System, Waste Management Clean Technologies, Environmental Information and Environmental Health.

3.5 Information (Data Base) Management

- On-line data entry has been initiated by SPCBs/PCCs in respect of 248 air quality monitoring stations covering 23 States under National Air Monitoring Programme and 621 water quality monitoring stations covering 23 States under GEMS/MINARS.
- Software modules on processing public complaints, legal matters, environmental surveillance, providing on line information regarding processing of applications received from re-processors/ recyclers have been developed.
- In order to provide the data to public on real time basis, networking of continuous ambient air quality monitoring stations at Delhi has been initiated.
- A pilot project to establish the system for transmission of real time data for emissions of SO₂ and NO_x to CPCB Head Quarter from on-line monitors located at Pragati Power Corporation, New Delhi has been initiated.

3.6 Pollution Control Enforcement

- An attempt for co-incineration of high calorific value hazardous waste in cement kiln has been tried out. A few cement industries have been taken up for trial runs by concerned SPCBs and by CPCB on demo-cum-experimental basis.
- CPCB has studied performance of 115 STPs operating throughout the country. It has been observed that 45 STPs were operating at sub-optimal efficiency, which is due to improper operation and maintenance
- Out of 88 CETPs, the performance of 78 CETPs operating throughout the country has been studied. It is observed that of the total 78 CETPs monitored, only 20 complied with the prescribed limits for general parameters pH, BOD, COD and TSS but, 15 of these were not able to comply with the prescribed limit for TDS.

- Guidelines on "Common Bio-medical Waste Treatment Facilities have been drafted" and have been circulated to SPCBs/PCCs and are also displayed on website.
- Study has been taken up for demonstration use of non-conventional technologies like electro-flocculation process for removal of colour in Pulp & Paper Mills effluent.
- In collaboration of National Environment Engineering Research Institute (NEERI), Nagpur, a detailed survey of 59 cities was taken up to assess the existing status of solid waste management. Data relating to waste generation, composition are compiled for dissemination. Guidelines are also evolved for the benefit of local bodies for formulating action plans for management of MSW.
- A report on Recycling of Plastics through Environmentally Sound Process has been prepared.
- A report on indicative operational guidelines on Utilisation of Plastics waste in Road Construction has been published.
- Central Board has completed a study on the performance of water treatment plants. Under this programme, 52 water treatments plants have been studied. Study includes concerned facets of water treatment i.e. raw water quality, general water treatment sequence, treatment unit specific observations, backwashing of filters, chemical consumption, operation & maintenance of WTPs, treated water quality, specific water treatment methods for fluoride and arsenic affected areas, etc.
- Under Spatial Environmental Planning Programme, the criteria for preparation of Zoning Atlas Programme were revised to ensure better usage of results. The revised criteria were discussed and agreed in the 50th Conference of Chairmen and Member Secretaries of Pollution Control Boards/Committees. Work done in the spatial environmental planning include:-
 - Sixty district environmental atlases finalised.
 - Forty district wise Zoning Atlas for siting of industries proposed and 39 districts under finalizations.
 - District's specific industrial siting guidelines are under Finalisation for 22 districts.
 - State level Environmental Atlases are under Finalisation for 8 districts.

- State level industrial siting guideline is under Finalisation for the state of Madhya Pradesh
- A National Profile on Chemicals Management through a multi-stakeholder process and to ensure national coordination for sound management of chemicals is being prepared.
- Compliance verification in respect of standards for 17 categories of Highly Polluting Industries has been carried out including assessing compliance status for implementation and recommendations made under CREP.
- Implementation of recommendations of CREP in respect of 17 categories of industries has been followed up through task forces. Task forces (8) have reviewed the progress through various meetings and field visits.
- Implementation status of action points in respect of: Nagda-Ratlam, Pali, Jodhpur, Korba, Singrauli, Kala-Amb, Parwanoo and Mandi-Gobindgarh have been reviewed with the concerned SPCB's. Through Zonal Offices of CPCB, 78 CETPs, 115 STPs and 32 CBMWTF were taken up for performance evaluation.

3.7 Mass Awareness and NGO activities

- CPCB participated in two exhibitions during the year and Annual report, Newsletters, Posters, Pamphlets were brought out.
- Interactive meetings with the NGOs were conducted in West Bengal, Himachal Pradesh and Gujarat.
- Twenty-six technical reports, 6 Parivesh News letters, one Hindi report and two other reports have been published. Five reports are under print.

3.8 Hazardous Waste Management

- Co-coordinated with MoEF for organising 6 meetings of Supreme Court Monitoring Committee (SCMC) for implementation of directions relating to management of hazardous waste.
- Random checks have been carried out at ports of Mumbai, Kolkata, Chennai, Kandla and Jawaharlal Nehru Port Trust (Mumbai) and Inland container depots at Ludhiana and Amritsar regarding import of hazardous waste.
- Checklist and guidelines are prepared on issuance of authorisation by SPCBs/PCCs, proper functioning and upkeep of disposal sites and on transportation of hazardous waste.
- Under recycling of waste oil, two meetings have been conducted. 150 registered units have been replaced with registration certificate-cum-pass book. 20 Surprised inspections have been conducted. Action has been taken against 3 defaulting units.

- National workshop on assessment of illegal dumpsites and evaluation of rehabilitation plan has been conducted.
- Gaseous Emission Standards and Guidelines for Common Hazardous Waste Incinerators have been finalized.
- Random checks of the inventory reports on HW generation in 14 States and 03 UTs were done

4.0 THRUST AREAS FOR ABATEMENT OF POLLUTION

- ▶ Strengthening of Ambient Air and Water Quality monitoring stations;
- ▶ Setting of Continues Ambient Air Quality Monitoring Stations (CAAMS) in 16 highly polluted cities;
- ▶ Strengthening of analytical laboratory for critical parameters & analysis of parameters relating to bio-medical waste, hazardous waste, plastic waste, municipal solid wastes;
- ▶ Analytical quality control (AQC) for Central & SPCBs/PCCs labs recognised under EP Act;
- ▶ Bio-monitoring of rivers/lakes for assessment of water quality; and undertaking at national level through SPCBs.
- ▶ Development & Review of industry specific standards;
- ▶ Organising training programmes through NTIs benefit of SPCBs/PCCs regional level training programmes relating to Environmental Prevention and Control;
- ▶ Online transmission of data from industries and State Boards (Environmental Data Bank);
- ▶ Implementation of recommendations of Corporate Responsibility for Environmental Protection (CREP) in 17 categories of highly polluting industries;
- ▶ Implementation of action points for restoration of environmental quality in critically polluted areas;
- ▶ Implementation of Municipal solid waste management rules including monitoring performance of on-going demo-projects.
- ▶ Implementation of Recycled plastics and usage rules;
- ▶ Bio-medical waste management rules with specific reference to set-up more CBMWF.
- ▶ Inventory of persistent organic pollutants (POPs);
- ▶ Publication of reports, documents, and newsletters on various topics/subjects
- ▶ Registration of recycling and reprocessing units;

- ▶ Identification of hazardous waste streams in various sectors/processes as per hazardous waste management rules, 2003;
- ▶ Development of Guidelines for recycling and reprocessing of waste/used oil and non-ferrous wastes;
- ▶ Performance studies of Common Effluent Treatment Plants (CETPs), Common Bio-medical Treatment Facilities, TSDF, etc;
- ▶ Setting of Clean Technology Mechanism in polluting industries.

5.0 SUMMARY OF SCHEME-WISE ALLOCATION FOR 2006-07

SI. No.	PROJECT HEADS	Allocation (Rs. in lakh)		
		Head office	Zonal offices	Total
I	Pollution Assessment – Survey & Monitoring	442.37	138.25	580.62
II	Lab Management	911.41	255.03	1166.44
III	Development of Standards and Guidelines	208.28	3.50	211.78
IV	Training	80.00	10.25	90.25
VA	Information (Database) Management	38.00	16.00	54.00
VB	Library	27.20	5.75	32.95
VI	Pollution Control Enforcement	1561.32	295.55	1856.87
VII	Pollution Control Technology	135.38	0.00	135.38
VIII	Mass Awareness, Publications & NGO Activities	72.00	6.45	78.45
IX	Hazardous Waste Management	82.26	1.00	83.26
	TOTAL	3558.22	731.78	4290.00

6.0 PLANS & PROGRAMMES OF HEAD OFFICE 2006-07 (SCHEME-WISE ALLOCATION)

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

			(Rs. in lacs)
S.No	Schemes	Total cost of Project	Allocation for 2006-07
01.	National Water Quality Monitoring Programme (NWQMP) including implementation of findings of review of network (on-going). Monitoring of water quality with respect to pesticides and heavy metals.		100.00
02.	National Air Quality Monitoring Programme (NAMP) including inclusion of toxic and critical pollutants monitoring in urban areas and critically polluted areas (on going)		250.00
03.	Court matters (on going)		1.00
04.	Assessment of ground water quality in five metro cities of India (on going)		10.00
05.	Epidemiological study to find the effect of air pollution on human health (on going)		14.00
06.	Calibration & Evaluation of National Ambient Air Quality Monitoring Stations		25.00
07.	Microbiological quality standards for STPs		5.00
08.	Indian Meteorological Department (IMD)-Operation & Maintenance of meteorological station at Agra.		22.00
09.	Development of software for data management under NAMP & NWMP		5.00
10.	Decentralize low cost sewage demonstration scheme		8.00
11.	Inventory of Class-I & Class-II towns for water supply wastewater generation, treatment and disposal & municipal solid waste treatment		2.37
	TOTAL :		442.37

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

			(Rs. in lacs)
S.No.	Schemes	Total cost of Project	Allocation for 2006-07
	AIR LABORATORY		
01.	Operation and maintenance of continuous of air quality monitoring stations in Delhi including BTX		30.00
02.	Quality assurance in air quality measurements		1.50
03.	Polynuclear aromatic hydro-carbon: sampling and analysis in Delhi		2.00
04.	Standardization of methodology for sampling (action and passive) and analysis of Benzene using GC-MS ATDGC & GC_FID, GC_MS, GC_ATD,GC_FID		2.50
05.	Assessment of noise level in Delhi		0.50
06.	Monitoring of benzene in Delhi and Kanpur/ Lucknow (Passive sampling method)		3.00
07.	Inspection of Authorized Pollution checking centers in Delhi		0.50
08.	Operation & maintenance of Ambient Air Quality Monitoring Stations at seven locations in Delhi (Manual)		10.00
09.	Air quality assessment in different areas including traffic intersections in Delhi		2.00
10.	Studies on spatial and temporal distribution of ambient Ozone in Delhi		0.50
11.	Development and strengthening of monitoring of ambient PM _{2.5} at Delhi		5.00
12.	Manual monitoring of ambient air quality in 5 Zonal Offices and (each one location) and HO for reporting in television.		5.00
13.	Development of certified reference material (CRM) of air mixture.		5.00
14.	Operation & maintenance of SODAR system and weather station		2.00
15.	Rain water characterization in Delhi		1.00
16.	Characterization of particulate matter for source apportionment and source identification		5.00
17.	Setting up of sixteen continuous Ambient Air Quality Monitoring station in 16 cities as per direction of Hon'ble Supreme Court (Release of funds of SPCB's) – 4 stations		160.00
18.	Standardization of method for measurement of Hydrocarbon in source emission		3.00
	Sub total:		238.50

		(Rs. in lacs)	
S.No.	Schemes	Total cost of Project	Allocation for 2006-07
	WATER LABORATORY		
19	Analytical quality control (AQC/ Water) for Central and State Pollution Control Boards, Pollution Control Committees & for laboratories recognized under E.P.Act.		3.00
20	Development & standardization of soil and solid waste analysis for Analytical Quality Control.		1.00
21	Extensive testing and validation of developed BIOSENSOR		6.00
22	Sludge reagent product (SRP) – an innovative process for water and waste water treatment- flocculation study and setting up of pilot plant at Bhagirathi water works- Delhi		18.00
23	Evaluation of Environmental Awareness among students community in Delhi		1.00
24	Studies on correlation between COD, BOD and TOC in wastewater		1.00
	Sub total:		30.00
	BIO-SCIENCE LABORATORY		
25	Water quality assessment through bio monitoring of major wetlands in Wild life habitats of India		3.50
26	Determination of fate of Fish Toxicity in terms of Toxicity Factor after mixing of Industrial Effluent (Electroplating units) with Sewage Waste Water (New)		0.50
27	Water Quality Monitoring of River Yamuna sponsored by NRCD, MoEF		NRCD
28	Performance study of sewage treatment plants in Delhi & Haryana under Yamuna Action Plan		NRCD
29	Performance Monitoring of Oxidation Pond based Sewage Treatment Plants in U.P, under Yamuna Action Plan		NRCD
30	Studies of Environmental Stress in Himalayan Sub-region due to religious Tourism at Char Dham (Badrinath, Kedar Nath, Gangotri & Yamunotri) in Uttarnchal		3.33
31	Removal of Heavy Metal Ions from wastewater by Treatment with Biosorbent- including release of final instalment of funds to institute of Environmental Studies and Wetland Management, Kolkata		0.27
	Sub total:		7.60

		(Rs. in lacs)	
S.No.	Schemes	Total cost of Project	Allocation for 2006-07
	TREATABILITY LABORATORY		
32	Bioerosol quantification of various places in indoor and outdoor condition		5.00
33	Microbial production of ethanol from different waste starches		24.50
34	Production of hydrogen gas from drainage effluent of Delhi		15.50
	Sub total:		45.00
	INSTRUMENTATION LABORATORY		
35	Development and standardization of methodology for measurement of Trihalomethanes (THMs) in drinking water		2.50
36	Development of infrastructure facilities for measurement of Hazardous Organic Compound- Dioxin/Furan		20.00
37	Establishment of Methodology for Extractable Organic Halides (EOX) in Soil and Sludge		0.50
38	Determination of Poly-aromatic Hydrocarbons (PAH's) in Surface Water in Delhi Stretch of Yamuna River		0.50
39	Determination of Volatile Organic Carbon (VOC's) in Drinking Water by GC-MS		1.00
40	Risk Assessment of Pesticide Residues in Humans with Special Reference to Adverse Reproductive Outcomes in Delhi Population (collaborative project with UCMS & GTB Hospital)		2.02
	Sub total:		26.52
	INFRASTRUCTURE-LABORATORIES: GENERAL		
41	Development of Trace Organic Lab		20.00
42	NABL- Laboratory Accreditation activities		3.00
43	Participation of Proficiency Testing (PT) programme for various physic-chemical and biological parameters.		2.00
44	Implementation of Laboratory Information System (LIMS), upgradation of Networking, installation and procurement of computers		40.00
45	Up gradation of laboratories		50.00
46	Procurement of instruments, equipment and spare parts for various labs of Central Pollution Control Board		160.00
47	Maintenance of laboratories (electricity, water, telephone, fax, repair & services etc.)		29.79
48	Service activities for Indo- GTZ projects, etc.		1.00
49	Recognition of laboratories under Environment Protection Act.		1.00

			(Rs. in lacs)
S.No.	Schemes	Total cost of Project	Allocation for 2006-07
50	Japanese Debt Relief Grant Assistance Project for import of equipment		75.00
51	Setting of continuous Ambient air Quality Monitoring Stations in Major cities on the basis of BOO & OC		160.00
52	Networking of CAAQM in 10 cities		20.00
53	Performance evaluation of CAAQMS & Networking of CAAQM maintained by industries		2.00
54	Development of Calibration Lab facilities for continuous & manual monitoring at Zonal offices		(200.00) RE
	Sub Total:		563.79
	Grant Total:		911.41

6.3 Name of the Division: PCI-I (Project III,VI,VII,IX)

		(Rs. in lacs)	
S.No.	Schemes	Total cost of Project	Allocation for 2006-07
Budget Head III-Development of Standards & Guidelines			
01	Development of emission Standards for fertilizer industries		1.00
02	Review of emission & effluent standards & solid waste management practices for dyes & dye intermediate industries		7.00
03	Review of ambient air quality standards (IIT Kanpur)		9.00
04	Guidelines for vapor recovery systems at gasoline filling stations		2.00
05	Preparation of COINDS for marble cutting Udyog and development of environmental standard		4.00
06	Preparation of COINDS document & revision of status on pesticides industry		5.00
07	Preparation of COINDS document on waste water management in bulk drug industries		4.00
08	Development of National Emission standards for Bulk Drug Industries		3.25
09	Review of Effluent Standards and Development of Emission Standards for Basic Organic Chemicals Manufacturing Industry		10.62
10	Design, operation and tail gas treatment for pollution control from the chemical waste incineration		24.88
		Sub – total	70.75
Budget Head VI Pollution Control Enforcement			
01	Performance evaluation study of air quality models		3.00
02	Preparation of manuals for conducting air quality modeling studies		0.10
03	Monitoring of Ground Water Soil quality near old petrol pumps and formulating guidelines for under ground storage tanks		3.00
04	CREP Implementation (Oil refinery and Petro-chemicals)		0.50
05	CREP for Dyes		2.00
06	Implementation of Standards and other issues related to oil refineries		0.50
07	Activities under Environmental Surveillance squad		3.50
08	Source apportionment studies		325.83

(Rs. in lacs)			
S.No.	Schemes	Total cost of Project	Allocation for 2006-07
09	Implementation of standards and monitoring of mercury in and around Chlor-Alkali Section (Chlor-Alkali & Fertiliser)		2.50
10	Monitoring of CS ₂ /H ₂ S in and around Man Made Fiber (Rayon plants) units		3.06
11	Application of Reverse Osmosis technology for treatment recovery of metal from electroplating effluent		6.00
12	Implementation of Action Points under Corporate Responsibility for Environmental Protection (CREP) in respect of Pesticide & Pharmaceuticals Industries		2.00
13	Review of Environmental Statements submitted by selected industrial sectors and its awareness programme		4.00
14	ESS activities		3.00
15	Preparing a National Profile to Assess the National infrastructure for Management of Chemicals		10.00
16	Assessment of Treated Water Quality at selected water treatment plants for conventional parameters, pesticides, disinfection by-products etc. and required measures		6.00
	Sub Total:		374.99
	Budget Head VII Pollution Control Technology		
01	Conducting workshops and setting up of demonstration units for cyanide free electroplating (zone wise, 8 region)		8.00
02	Implementation of the Stockholm Convention on Persistent Organic Pollutants (POPs) in the Chemical Industries in India		3.00
03	Organizing Training programme for the officers of Central & State Pollution Control Boards on Hazardous Identification and Risk Assessment due to transportation of hazardous chemicals-new		2.00
04	Control of offensive odour substances with specific reference to selected industrial process		4.00
05	Review of technological options for reduction of toxicity factor in treated and untreated effluents form pesticides industries		4.00
06	Study on Environmental Contamination with polychlorinated dioxins Viz. TCDDs		3.78
	Sub Total:		24.78

		(Rs. in lacs)	
S.No.	Schemes	Total cost of Project	Allocation for 2006-07
	Budget Head IX		
01	Sector specific documentation to identify waste streams in various sectors/ processes as per Hazardous Waste (M&H) Amendment Rules 2003 in Pesticides industries (additional products)		4.60
02	Sector specific documentation to identify waste streams in various sectors/ processes as per Hazardous Waste (M&H) Amendment Rules 2003 in Solvent Manufacturing units		5.00
03	Identification of hazardous waste streams their characterization and waste minimization options in Iron Steel, Aluminium, Sodium dichromate and Galvanizing Sector		0.50
04	Identification of hazardous waste streams their characterization in selected small scale sectors (Textile, Dyeing, Hardening of Steel through PPCB)		0.45
05	Review of Effluent Standards for Soda Ash Industry- Seawater monitoring around effluent discharge locating of Soda Ash Units in Saurashtra Coast- Finalization of Environmental Guidelines for Soda Ash Industry (In house)		3.46
06	Identification of HW Streams, its quantification, Characterization and Management (Recovery/Recycling aspects) in Nitrogenous & Complex Fertilizer Industry (in house with the help of expert)		4.25
07	Identification of HW Streams, its quantification, Characterization and Management (Recovery/Recycling aspects) in units involved in production & formulation of wood preservatives		6.00
08	Implementation of Hon'ble Supreme Court Directives on Management of Hazardous Waste and related activities		10.00
09	Organizing of Regional Trainings or Workshops for the officials of Pollution Control Boards on HW management activities		6.00
10	R&D works on cleaner technologies in respect of chemical sector (comprising Dyes & Dye Intermediates, Pesticides Bulk Drugs & Pharmaceutical Sector), Non-ferrous metallurgical and Tannery sector.		5.00
11	Assessment of HW Dump sites and review of rehabilitation plans of the HW Dump sites and related matters		5.00
12	Identification of Hazardous Waste streams in paint sector, their characterization and waste minimization option		6.00
	Sub total:		50.26

		(Rs. in lacs)	
S.No.	Schemes	Total cost of Project	Allocation for 2006-07
	Computer Division		
01	Operation, Maintenance & Strengthening of Computer Network		12.50
02	Environmental data Bank		4.00
03	On line access of emission data from major industries (Pilot Project on Pragati Power Plant, Delhi)		10.00
04	Intra Portal Central Pollution Control Board		0.00
05	Real time data transmission from continuous Ambient Air Quality Monitoring Stations of Delhi to CPCB's website		10.00
06	Website maintenance and Updating (Upgradation of Website)		1.50
	Sub-total:		38.00
	Grand total:		558.55

6.4 PCI-II (Project- III, VI,VII)

		(Rs. in lacs)	
S.No.	Scheme	Total cost of Project	Allocation for 2006-07
	Project Head-III		
11	COINDS for Thermal Power Plants		3.00
12	Development of SO ₂ & Nox emission standards for coal fired thermal plants		1.00
13	Monitoring of Human Risk Assessment Studies in Asbestos Based Industries in India		2.50
14	Assessment of Fugitive Emissions and Development of Environmental Guidelines for Control of Fugitive Emissions in Cement Manufacturing Industries IIT+NPC		2.00
15	Review of Notified Standard and Development of Clean Technology for BOD Plant of Steel Industry		5.00
16	Development of Environmental Standards and Guidelines for Pollution Prevention for Non-recovery Type Coke Oven Plants		5.00
17	Revision of Environmental Standards for Bee-hive Coke Oven Plants, Soft Coke Plants and Coal Briquette Industry		5.00
18	Development of COINDS on primary Copper, Lead & Zinc Industries		2.00
19	Revision of Comprehensive Document (COINDS) for Aluminium Industry		1.50
20	Guidelines for Pollution Prevention for Asbestos (Chrysotile) Mining and milling including Clean Mining Practices		7.00
21	Development of load based emissions standards for particulate matter and concentration based emission standards for SO ₂ and NOx for Cement Plants		1.00
	Sub Total:		35.00

		(Rs. in lacs)	
S.No.	Scheme	Total cost of Project	Allocation for 2006-07
	Project Head-VI		
17	Expert committee on emissions from RIC engines for off-road applications		1.00
18	National Committee on Noise Pollution Control		1.00
19	Compliance inspection of genset/engine manufacturing facilities		2.50
20	Compliance testing of fire crackers (including development of testing facilities)		5.00
21	Implementation of Standards in TPPs, Iron & Steel, Cement, Aluminium, Pb,Zn & Copper Smelters etc. including inspection/ visits, stationary including Computer stationary such as floppy, CDs, Software's etc., telephone, transport and salaries of DEO & JRFs		15.00
22	Strengthening of facilities for Monitoring of Asbestos fiber including purchasing Optical Microscope & Monitoring kit etc.		20.00
23	Expert Committee on Odour pollution Control inclusive of procurement of one computer and printer		1.00
24	Ambient Noise Monitoring in Delhi		0.50
25	Assessment water consumption & waste water generation per MW of electricity generation (both for coal & gas fired) thermal power plants including scope for further conservation of water		0.50
26	Manual for Environmental Auditing in Thermal Power Plants		3.50
27	Assessment of asbestos fiber in ambient air at traffic junctions in metropolitan cities		5.00
28	Workshop on co-incineration of Hazardous Waste in Cement Industries		5.00
29	Development of measurement facility for HC/PAH from aluminum plant		0.00
	Sub-total:		60.00

(Rs. in lacs)			
S.No.	Scheme	Total cost of Project	Allocation for 2006-07
	Project Head-VII		
07	Cost benefit analysis of recycling of ash pond effluent		1.60
08	Standardization of Monitoring and Analysis Procedures for By-Product Recovery Type Coke Oven Emissions		5.00
09	Demonstration of Co-incineration of Used tyres, paint sludge, CETP Sludge etc. in Cement Kiln		10.00
10	Demonstration studies on assessment of feasibility of utilization of Hazardous Wastes (solid/liquid) having optimum calorific values for power generation		4.00
11	Development of Clean Technology and Environmental Standards for Sintering Plant of Steel Industry		5.00
	Sub total:		25.60
	TOTAL(A):		120.60
	Building Project (P-VI)		
30	Maintenance of Parivesh Bhawan building		50.00
31	Fuel and maintenance charges for vehicles to be used for various visits/ inspection/ monitoring/ attending meeting etc.		35.00
32	Implementation of energy audit recommendation like conversion of high energy consuming lights with energy saving lights such as CFL etc.		6.00
33	Procurement of 625 KVA D.G. Set with acoustic enclosure.		50.00
34	Replacement of 02nos of existing elevators of Olympus makes		30.00
35	Development of lawn & plantation		1.00
36	Overhauling and upgradation of electrical sub-station, equipments i.e. H.T./L.T Panel and procurement of new KVA Transformers etc.		17.00
37	Distempering, painting & polishing work in Parivesh Bhawan		4.00
38	Miscellaneous civil works in Parivesh Bhawan		4.00

(Rs. in lacs)			
S.No.	Schemes	Total cost of Project	Allocation for 2006-07
39	Modernization of Fire Detection system at Parivesh Bhawan by replacing existing control panel, local panel, detectors etc.		3.00
40	Replacement of existing old AC's drawing heavy current (consuming high power)		5.00
41	Enhancement of intercom facility in existing EPABX system including procurement of telephone instruments for new extension		2.50
42	Renovation of existing compound/security lightening system in Parivesh Bhawan		2.50
43	Rubbing and polishing of Kota stone from G.F. to fifth floor		2.00
44	Renovation of staircase and lift lobby area		5.00
45	Renovation of toilets in administrative wing		5.00
46	Upliftment/improvement of garden area including installing of fountain, putting red Kota stone		2.00
47	Construction of walkway along the compound wall (backyard)		4.00
48	Procurement of Surveillance Vehicle for Zonal Offices		36.00
	TOTAL: (B)		264.00
	Grand Total: (A + B)		384.60

(Rs. in lacs)			
S.No.	Schemes	Total cost of Project	Allocation for 2006-07
54	Performance study of pollution control measures in textile industry		0.30
55	Performance study of pollution control measures in slaughter houses		0.30
56	Training programme on slaughter houses		5.00
	Sub-total:		22.17
Pollution Control Technology (Project VII)			
12	Demonstration of Electro flocculation technology for colour removal on pilot scale in agro-based pulp & paper mills	12.0	1.00
13	Viable scale of operation of pulp & paper industries & waste treatment options including chemical recovery plant to achieve the environmental standards	3.0	4.00
14	Preparation of protocol for irrigation by utilizing treated distillery effluent (New)	—	0.50
15	Study of effects on soil salinity and alkalinity due to utilization of distillery effluent in irrigation (New)		50.00
16	Pilot study on settling properties of digester effluent and aerobic mixed liquors distilleries (New)	0.20	0.40
17	Recycling & re-use of ETP sludge from textile industry		6.00
	Sub-total:		61.90
	Grand Total:		119.14

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Internal

6.7 Urban Pollution Control Division

S.No.	Schemes	(Rs. in lacs)	
		Total cost of Project	Allocation for 2006-07
	Development of Standards and Guidelines (Project-III)		
36	Compilation of MSDS		5.50
37	X-Ray machines		3.00
38	Pollution Standard for service station/workshop		5.10
39	Improve upon the Awas and design of Vertical Bhatti & Earthenware's		6.00
40	Activated Carbon manufacturing unit (New)		5.00
41	Pollution Standard for re-rolling mills (New)		5.00
42	Environmental Standard for Ply Wood Industry (New)		5.00
43	Actions and follow ups related to Ecomark Scheme.		0.50
44	Preparation of COINDS on soaps & detergents		4.88
45	Preparation of COINDS on Plaster of Paris		5.10
46	Comprehensive Industry Document on Tannery		4.00
47	Development of National Standards for Rubber Products Manufacturing Industries		1.48
48	Standards for arc and induction furnace, COINDS for Dal & Besan & producer gas.		0.00
49	COINDS for Cashew Seed Processing Industry		3.50
50	Standard Development for Arc & Induction furnaces		7.21
51	COINDS for Dall & Besan		1.25
52	COINDS for Producer Gas plants		1.94
53	Design & Implementation of Environmental Management System in Central Pollution Control Board (ISO:14001:2004)		3.00
	Sub total:		67.46
	Pollution Control Enforcement (Project-VI)		
57	CREP Implementation for Tannery Sector		2.50
	Sub total:		2.50
	Zoning Atlas		
58	Eco city programme		100.00
59	Spatial Environmental Planning Programme implementation (New)		120.00
	Sub Total:		220.00

(Rs. in lacs)			
S.No.	Schemes	Total cost of Project	Allocation for 2006-07
	Building of Zonal Offices		
60	Construction cost to CCU for Zonal Office Building		50.00 (50.00 RE)
	Sub-total:		50.00
	Municipal Solid Waste Management		
61	Implementation of MSW Rules, Co-ordination as the SPCBs, Strengthening of infrastructure, sponsoring workshops and under taking subject-specific Programmes		25.00
62	Implementation of on going programme on Demo Projects for Management of MSW		300.00
63	Ground water around dump site and landfill design in hilly terrain + hills landfills design		50.00
	Sub-total:		375.00
	Plastics Waste Management		
64	Implementation of recycled plastics and usage rules 1999 as amended 2003 (including pilot projects, studies on biodegradability and other studies		50.00
65	Inventorisation and Environmental Management in Plastics Manufacturing & Recycling Industry in NCR, Delhi		5.50
66	Organizing workshops on innovative technologies on plastic waste disposal (New)		3.00
	Sub total:		58.50
	Pollution Control Technology (Budget Head-VII)		
18	Performance Evaluation of Brick Kiln		3.50
19	Evaluation and improvements in design of Clamp Kiln (New)		10.00
20	Improve upon the design of charcoal Bhatti (New)		5.00
21	Removal of suspended impurities in the Saline Water Stream to obtain better salt in the Solar Evaporation Pans (Nov. 2002)		3.60
22	Establishment of Common Chrome Recovery Unit (CCRU) at Kanpur		1.00
	Sub total:		23.10
	Training (Project-IV)		
01	Organizing Training Programmes (E.T.U.)		60.00
02	Training Needs Assessment		20.00

			(Rs. in lacs)
S.No.	Schemes	Total cost of Project	Allocation for 2006-07
	Sub total:		80.00
	Grand Total:		874.06
Plan & Co-ordination & Parliamentary Matters (Project VI)			
67	Co-ordination with SPCBs including Assistance for subjective specific programmes		50.00 50(RE)
68	Office Co-ordination & Salaries of Directors/Additional Director/ ESS Co-ordination (including salaries of Scientific & Technical officers of ZOs)		61.41 48.43 (RE)
	TOTAL:		111.41
PR , Hindi Section (Project VIII)			
01	Exhibition/ Mass Awareness		6.00
02	Advertisement		12.00
03	CPCB Publications		30.00
04	Infrastructure Development & Salary of ENVIS staff		10.00
05	Official meeting expenses		4.00
06	Implementation of Rajbhasha		3.00
	Sub total:		65.00
A.S.Section			
Pollution Control Enforcement (Project VI)			
69	National level and Regional level Conference of Chairmen & Member Secretaries of SPCBs/PCCs		6.00
70	Board meetings including TA/DA of members		4.00
71	Redressal of Public complaints		0.50
72	Follow up Corporate Responsibility for Environmental Protection (CREP)		1.00
73	Staff salary (one DEO, one stenographer)		4.50
	Sub total:		16.00

(Rs. in lacs)			
S.No.	Schemes	Total cost of Project	Allocation for 2006-07
NGO Activities (Project VIII)			
07	Financial Assistance to NGOs for conducting Programmes on Abatement of Pollution & Community Action Programme		2.00
08	Training Programmes for NGOs on prevention & control of pollution		3.00
09	Interaction meet with NGOs		2.00
	Sub-total:		7.00
	Grand total:		23.00
(Rs. in lacs)			
S.No.	Schemes	Total cost of Project	Allocation for 2006-07
Library (Project V B)			
01	Purchasing of Books, Newspaper and Magazine		5.00
02	Subscription to journals and periodicals		10.00
03	Renovation of the library		10.00
04	To hire services for Automation of library		2.00
05	Security at the entrance of the library		0.20
	TOTAL:		27.20
Hazardous Waste Management (Project IX)			
13	Registration of the HW recycling/re-processing/ re-refining industries and related activities		10.00
14	Organizing/sponsoring programmes on Hazardous Waste Management		3.00
15	Environmentally Sound Technologies for E-Waste Recycling		4.50
16	Evaluation of the requests seeking exemption from Schedule-I (new scheme)		2.00
17	Characterization of Residue and Spent clay generated from Used Oil re-refining (New Scheme)		5.00

			(Rs. in lacs)
S.No.	Schemes	Total cost of Project	Allocation for 2006-07
18	Inspection of Health care and Bio-Medical Waste Treatment facilities		1.00
19	Monitoring of the Implementation of BMW Rules in Health care facilities		2.00
20	Evaluation of State of Art treatment technologies for Bio medical Waste Management		1.00
21	Implementation of Battery Rules		0.50
22	Organizing/sponsoring of programmes on Bio-Medical Waste Management		3.00
	Sub-total:		32.00
	ESS (Project VI)		
74	Pollution Control in 17 categories of industries		0.50
75	Inventorisation of industries in red category		0.25
76	Monitoring of ESS inspection and follow up actions		3.75
77	Pollution control in problem areas		2.00
78	Industrial pollution control along river & lakes		0.25
	Sub total:		6.75
	Grand total:		38.75

7.0 PLANS & PROGRAMMES OF ZONAL OFFICES 2006-07

7.1 Zonal Office- Kolkata

		(Rs. in lacs)	
S.No.	Schemes	Total cost of project	Allocation for 2006-07
Project Head- I			
01	Surveillance of air and water quality monitoring stations		0.50
02	Environment status of beaches in the Eastern Zone		0.50
03	Studies on Environmental Status of Coastal aquaculture including Effluent Treatment System in West Bengal & Orissa		0.50
04	O&M of air quality monitoring at Canning under Male Declaration		4.50
05	Studies on Marine Debris (New)		0.25
06	Environmental Status at Gaya (New)		4.00
07	Interstate River Monitoring		2.00
	Sub-total:		12.25
Project Head- II			
08	Strengthening, O&M of Laboratory		40.00
09	Procurement of Chemicals and Glassware		3.00
	Sub-total:		43.00
Project Head- III			
10	Prediction of severe thunderstorms based on different pollutants in ambient air (collaboration with Kolkata University)		3.50
	Sub-total:		3.50
Project Head- IV			
11	Nomination for training programme/ workshops etc.		1.00
12	Training programme for Teachers on Environment & Pollution Control		0.75
	Sub-total:		1.75

(Rs. in lacs)			
S.No.	Schemes	Total cost of project	Allocation for 2006-07
	Project Head- V (A)		
13	Database Management		3.00
	Sub total:		3.00
	Project Head- V (B)		
14	Development of Library		0.50
	Sub-total:		0.50
	Project Head- VI		
15	ESS and related activities		37.00
16	Status of fish processing industries in Orissa and West Bengal		0.30
17	Running & Maintenance of vehicles in execution of plan activities		2.50
18	Shifting of office cum lab to new premises (Southend Conclave)		20.00
19	Study on Calcutta Leather complex at Bantala (New)		2.00
20	Registration fee for new premises		30.00
	Sub-total:		91.80
	Grand total:		155.80

7.2 Zonal Office- Vadodara

		(Rs. in lacs)	
S.No.	Schemes	Total cost of project	Allocation for 2006-07
	Project Head- I Pollution Assessment		
01	Surveillance of WQM stations		0.50
02	Surveillance of Ambient Air Quality Monitoring Stations		0.50
03	Studied of ground water quality around CETP & Common secured landfill sites located at various places in Gujarat		1.50
04	Performance studies of CETPs and STPs in Gujarat & Maharashtra		1.00
05	Performance studies of CBMWTF and common incinerators in Gujarat and Maharashtra		1.00
06	Monitoring of coastal aqua culture ponds in Gujarat & Maharashtra		0.75
07	Study on Status of Environment in Cement Plants located in Gujarat (New), (salary for one JRF)		3.00
08	Inventorisation of E-Waste in Maharashtra (New)		RE (10.00)
09	Status of Groundwater Quality Around Chemical Industrial Estates of Maharashtra (New)		RE (10.00)
10	Inventory & Environmental Status Around Industries located in Non-confirming Agricultural areas of Gujarat State (New)		4.50
11	Assessment of Environmental Impact due to utilization of effluent generated from petrochemical complex area in Vadodara district (through ECP Channel) (New)		5.00
12	Noise pollution monitoring during Deepwali & Navratri in Vadodara (On going)		0.25
13	Case studies on environmental status of Marine National Park, Gulf of kutch, Jamnagar, Gujarat (to be paid to Gujarat Agriculture University towards III and last instalment)		0.35
14	Studies on pollution potential from fishing harbors to coastal areas w.r.t.Verawal fishing harbors in Gujarat (to be paid to Gujarat Agriculture University towards III and last instalment (on going)		0.40
15	Status of Environment in Western Coal Fields in Vidarbha Region of Maharashtra (New) (The project will be carried out through a reputed Government Agency)		10.00
16	DOD sponsored project on Land-based source of pollution in coastal waters (on going)		Nil
	Sub total:		28.75

		(Rs. in lacs)	
S.No.	Schemes	Total cost of project	Allocation for 2006-07
	Project Head-II Laboratory Management		
17	Strengthening updation & maintenance of laboratory		23.00
18	Annual maintenance contract of instruments		3.00
19	Running & maintenance of vehicles		2.00
20	Rent Lab Office		11.00
21	Purchase of Laboratory Instruments like (BOD Incubator, Laminar Flow, Micro Meteorological Instrument, Colorimeter etc.)		2.50
	Sub-total:		41.50
	Project Head- IV Training		
22	Registration fees for attending the training programme organizing of training programme.		1.00
	Sub-total:		1.00
	Project Head- V (A) Date Base Management		
23	Purchase of new computers with P-IV including one printer		0.50
24	Miscellaneous expenditure for upgradation of existing computers.		1.00
	Sub-total:		1.50
	Project Head- V (B) Library		
25	Development of Library		0.50
	Sub-total:		0.50
	Project Head-VI ESS/ Public Complaints		
26	ESS Programmes/ public complain investigation		29.00
27	Environmental Management in Railway Stations		0.50
	Sub-total:		29.50
	Project Head-VIII Mass Awareness		
28	Creation of Mass Awareness		0.50
	Sub total:		0.50
	Grand total:		103.25

7.3 Zonal Office- Bangalore

		(Rs. in lacs)	
S.No.	Schemes	Total cost of project	Allocation for 2006-07
<u>Project Head-I Pollution Assessment Survey & Monitoring</u>			
01	Monitoring of BTX at the road intersections of the city of Bangalore		1.00
02	Surveillance of NAAQM Stations		0.50
03	Surveillance of MINAR Stations		0.50
04	Infrastructure development for setting up of permanent continuous ambient air quality stations at Chennai and Bangalore (New)		2.00
05	Development/Monitoring of methane and ground water quality assessment relating to municipal solid waste landfill sites in Bangalore(New)		5.00
		Sub-total:	9.00
<u>Project Head-II Laboratory Management</u>			
06	Operation and Maintenance of Mobile Lab		1.00
07	Development of Infrastructure of Stationery Lab		56.00
08	Development of facilities for Bio-assay Test		1.00
09	Development of facilities for Calibration of instruments and equipments		5.00
10	Calibration of Instruments, Annual Maintenance of equipment and procurement of Reference Materials		4.00
11	NABL related activities		2.00
12	Toxicity testing of highly toxic industrial effluents		1.00
13	Treatment of Hazardous Wastes containing heavy metals		2.50
14	Analysis study of inorganic constituents in AAQ with respect to Sulphate & Nitrates & Explore the possibility of relation to SO ₂ & Nox		5.00
		Sub total:	77.50

		(Rs. in lacs)	
S.No.	Schemes	Total cost of project	Allocation for 2006-07
	Project Head-IV Training & Workshop		
15	Organizing and Attending training/ workshop		2.50
	Sub-total:		2.50
	Project Head-V(A) Database Management		
16	Procurement of Computer System peripherals and Local Area Networking		1.00
	Sub-total:		1.00
	Project Head-V (B) Library		
17	Development of Library		2.00
	Sub-Total		2.00
	Project Head- VI Pollution Control Enforcement		
18	Development of Office Infrastructure		5.00
19	Verification of Compliance of Standards		20.00
20	Follow up of Court Directions		2.00
21	Monitoring of Bio-medical Waste Management Facilities		5.00
22	VOC and Pesticides residue analysis and development of organic trace lab and standardizing procedures		5.00
23	Infrastructure development for Hazardous Waste Management		2.50
24	Development of Decentralized Wastewater Treatment System		0.50
25	Designing and Monitoring of Decentralized Wastewater Treatment System		0.50
26	Inspection of authorized pollution checking centers around Bangalore (New)		0.50
27	Testing of fire crackers and noise monitoring during Deepawali (New)		1.00
28	Monitoring of common TSDF sites and hazardous dumpsites (New)		1.00
29	Shifting of office-sum-Laboratory to a new premises (New)		20.00
	Sub-total:		123.00
	Project-VIII Mass Awareness and Publications		
30	Organizing Mass Awareness Programmes		0.50
	Sub-total:		0.50
	Grand total:		155.50

7.4 Zonal Office- Bhopal

		(Rs. in lacs)	
S.No.	Schemes	Total cost of project	Allocation for 2006-07
<u>Project Head-I</u>			
01	Surveillance of ambient air and water quality monitoring stations and associated laboratory facilities under NAMP & MINARS		2.50
02	Monitoring of air quality in Bhopal for reporting to TV channels		2.25
03	Inter-State River monitoring at the State boundaries (New)		2.00
04	Environmental Status in Oil Exploration Areas in Barmer Region of Rajasthan (New)		1.00
05	Environmental Status of MSW Dumpsites at Bhopal and Indore (in association with MPPCB) (New)		1.50
		Sub-total:	9.25
<u>Project Head – II</u>			
06	Development of laboratory and monitoring facilities including operation and maintenance of existing laboratory		16.50
07	Operation & maintenance of surveillance vehicle		1.50
		Sub-total:	18.00
<u>Project Head- IV</u>			
08	Nomination of officers/ staff for training/ workshops		1.00
		Sub-total:	1.00
<u>Project Head-V (A)</u>			
09	Development of computer and other facilities in the office and operation and maintenance of existing computers		1.50
		Sub-total:	1.50
<u>Project Head-V (B)</u>			
10	Development of Library		1.00
		Sub-total:	1.00

			(Rs. in lacs)
S.No.	Schemes	Total cost of project	Allocation for 2006-07
	Project Head- VI		
11	Pollution Control Enforcement		17.75
12	Visit to industries for verification of application for 'Actual User' registration		0.75
13	Performance study of CETPs (10 numbers) (New)		2.25
14	Monitoring of common bio-medical waste treatment facilities (incinerators-10 numbers) (New)		2.25
15	Performance evaluation of sewage treatment plants in three States		0.75
16	Monitoring of common TSDF & hazardous waste dumpsites		1.50
17	Joint inspection of 17 categories of industries with Ros, MoEF (New)		2.00
18	Organizing Workshop on Management of CETPs at Jodhpur (New)		1.00
	Sub-total:		28.25
	Project Head - VIII		
19	Financial assistance to NGOs and distribution of water testing kit (New)		0.70
20	NGO meet at Bhopal (New)		1.00
	Sub-total:		1.70
	Grand total:		60.70

7.5 Zonal Office- Shillong

		(Rs. in lacs)	
S.No.	Schemes	Total cost of project	Allocation for 2006-07
Project Head-I			
001	Surveillance of NAMP and WQM stations & to follow up non-operational stations, Ambient Air & Noise Monitoring at State capital of N.E.States		2.00
002	Co-ordination with State Boards (including visit) regarding strengthening & implementation of various Rule/regulations including organizing interaction meeting with concerned agencies		3.00
003	Inventorisation of polluting industries in Assam and Meghalaya		3.00
004	Random cross checking of Hazardous wastes generating units including Inventorisation of recycles as per Hon'ble SC direction		2.00
005	Water quality assessment in polluting river stretches		2.00
		Sub-total:	12.00
Project Head- II			
006	Development of Laboratory (including rent for Lab building, telephone and electricity charges, new laboratory furniture salaries of JRF, cost of AMC) and operation and maintenance		18.00
		Sub-total:	18.00
Project Head- IV			
007	Nomination for Training/Workshops and organizing training programme.		3.00
		Sub-total:	3.00
Project Head - V(A)			
008	Database Management		2.00
		Sub-total:	2.00
Project Head- V(B)			
009	Development of Library		1.00
		Sub total:	1.00

		(Rs. in lacs)	
S.No.	Schemes	Total cost of project	Allocation for 2006-07
	Project Head- VI		
01	Pollution Control Status in 17 categories of Industries including CREP recommendations		23.00
02	Public complaints investigation		0.50
03	Environmental status of polluting industries at Byrnihat, Meghalaya & assessment of Pollution load		1.00
04	Monitoring implementation of MSW mega projects in Nagaland, Arunachal, Sikkim, Tripura, Preparation of DPR for the state of Mizoram, Manipur, Meghalaya (Shillong and Tura City) for MSW management (including cost of a photocopier and digital camera)		7.50
	Sub-total:		32.00
	Project Head-VIII		
05	Organizing mass awareness programs		1.00
	Sub-total:		1.00
	Grand total:		69.00

7.6 Zonal Office- Lucknow

		(Rs. in lacs)	
S.No.	Schemes	Total cost of project	Allocation for 2006-07
	Project-I		
01	Validation of Water Quality Modeling of river Gomti (Lucknow Stretch) (New)		5.00
02	Flouride & Arsenic pollution in Ground Water of 3 selected districts of U.P.		3.00
03	Ground Water monitoring of Lucknow City		0.50
04	Source Apportionment of turbidity in Rihand Reservoir in Singrauli area, U.P.		4.00
05	State of Environment Ludhiana		1.50
06	AAQM in major cities of Punjab		2.00
07	Monitoring of Air micro flora at selected locations of Lucknow city		1.50
08	Epidemiological study in Jajmau, Kanpur		4.00
09	AAQM in Vikas Nagar, Kanpur		7.50
	Project-II		
10	Assessment of Poly Aromatic Hydrocarbon in ambient air of Lucknow city		1.50
11	Lab operation & maintenance		18.00
12	Lab development		12.00
13	Characterization of Road dust		1.00
14	Recovery of Alum from solid waste of Pulp & Paper Industry		1.00
15	Optimization of Mercuric Sulphate in COD estimation		1.50
16	Operation & maintenance of AAQM at Lucknow		5.00
17	BTX monitoring in Lucknow		2.00
18	Training on Environmental issues for journalists		1.00
19	O&M of Monitoring vehicle including Mobile Lab		3.00
20	Development of strategy to control of Ground Water Pollution due to Chromium in identified area of Kanpur city		2.03

		(Rs. in lacs)	
S.No.	Schemes	Total cost of project	Allocation for 2006-07
	Project V (A)		
21	Data Base Management		5.00
	Project V (B)		
22	Library development		0.50
	Project VI		
23	Inspection of CBMWFT & Common incinerators of North Zone		1.00
24	Assessment of pollution created by potteries of Khurja (U.P.) and preparation of action plan.		2.00
25	ESS & Public Complaints		4.00
26	STP monitoring in North Zone		3.00
27	Joint monitoring of 17 categories of Industries with MoEF		2.00
28	Maintenance of Office Building		6.00
29	Salary of Scientific & Technical Officers (VI-P)		31.00
	Project-VIII		
30	Mass awareness activities		1.00
	Project-XI		
31	Hazardous Waste Management		1.00
	Sub total:		133.53
	Project Office-Agra		
	Project-I		
01	Operation & Maintenance of 4 Ambient Air Quality Monitoring Stations in Agra		30.00
02	Characterization of RSPM in Agra		2.00
03	Up dating EMP Agra & Firozabad and coordination of Eco city program at Vrindavan		6.00
	Project-II		
04	Study of River Chambal and bio-diversity/ indexing		1.00
05	Operation & Maintenance of Stationery Laboratory & establishment of water laboratory (for general 5 parameters)		8.00

		(Rs. in lacs)	
S.No.	Schemes	Total cost of project	Allocation for 2006-07
	Project V (A)		
06	Data-base Management		2.00
	Project V (B)		
07	Development of Library, purchase of journals, newspapers		0.25
	Project VI		
08	Surveillance, parliament questions, interaction with local Govt./ meetings, inspections etc.		3.00
	Project VIII		
09	Mass awareness activity		1.75
	Sub total:		54.00
	Grand total:		187.53

