

ANNUAL ACTION PLAN

(2004-2005)

CENTRAL POLLUTION CONTROL BOARD

(Ministry of Environment & Forests, Govt. of India)

Parivesh Bhawan, East Arjun Nagar

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(भारत सरकार का संगठन)

पर्यावरण एवं वन मंत्रालय

Central Pollution Control Board

(A Govt. of India Organisation)

Ministry of Environment & Forests

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FOREWORD

The Central Pollution Control Board (CPCB) is a grant-in-aid institution of Ministry of Environment & Forests. Out of the plan allocation of Rs. 22.00 crores sanctioned for the year 2004-2005, programmes have been formulated covering different arrears relating to prevention and control of pollution. During the year, emphasis has been laid on various activities which include strengthening of monitoring network, setting-up of continuous ambient air quality monitoring stations in cities and following up recommendations on the Charter on Corporate Responsibility for Environmental Protection (CREP). Special attention has been given to implementation of Rules regulating hazardous waste, bio-medical waste, municipal solid waste and plastic waste. Meanwhile on-going programmes on preparation and implementation of zoning atlases, eco-cities, vehicular and noise pollution control etc. will continue during the year 2004-05.

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ANNUAL ACTION PLAN -2004-2005

1.0 INTRODUCTION

The Central Pollution Control Board (CPCB) was constituted as Central Board for the Prevention and Control of Water Pollution (CBPCWP) on 22nd September, 1974 under the provisions of The Water (Prevention and Control of Pollution) Act, 1974, and later under Water (Prevention and Control of Pollution) Amendment Act, 1988 (No.53 of 1988) its name was amended as Central Pollution Control Board. The main functions of CPCB, as spelt out in The Water (Prevention and Control of Pollution) Act, 1974, and The Air (Prevention and Control of Pollution) Act, 1981, are; (i) to promote cleanliness of streams and wells in different areas of the States through prevention, control and abatement of water pollution; and (ii) to improve the quality of air and to prevent, control or abate air pollution in the country.

The Central Pollution Control Board has been playing key role in controlling pollution by generating relevant data, providing scientific information, rendering technical inputs for formation of national policies and programmes, training and development of manpower, through activities for promoting awareness at different levels of the Government and Public at large. The Central Board has enlisted thrust areas requiring immediate attention and assisted government to formulate National Plans and to execute these appropriately through continuous follow up and review. CPCB, in addition to the implementation of Water and Air Act, has planned various programmes relating to implementation of rules framed under the Environment Protection Act such as Hazardous Wastes (Management and Handling) Rules, Bio-medical waste, Municipal Solid Wastes and Plastics Waste.

2.0 ACTIVITIES AND ACHIEVEMENTS - 2003-04

2.1 Air Pollution Assessment/Monitoring and Control

- Strengthened the air quality monitoring network (295 stations) by introducing RSPM/PM₁₀, monitoring;
- Initiated monitoring of Benzene, Toluene, Xylene (BTX), Poly-Aromatic Hydrocarbons (PAH), Heavy metals, etc. in critically polluted areas/cities;
- Quality assurance programme for air quality measurements conducted for SPCB personnel using ring test facility;

2.2 Industrial Pollution Control

- Given major thrust to control air pollution from 17 categories of highly polluting industries. Air Pollution has been reduced from **Cement Plants, Iron & Steel Plants, Aluminum industry, Thermal Power Plants, Oil Refineries etc.**;
- Pollution prevention and control technologies for small-scale industries developed and demonstrated.
- Effluent & Emission Standards have been reviewed/developed in respect of different categories of industry sources; oil refineries, fertilizers & sulphuric acid, Brick kiln, stack height regulation, COINDS on hot-mix plant, refractory industry, clean technology & environmental standards for iron & ore mining, stone crushing and toxicity based standards under MINAS.

2.3 Corporate Responsibilities of Environmental Pollution (CREP)

- As a follow up of CREP programme, Task Forces have been set up for Thermal Power Plants, Cement Plants, Iron & Steel Industries, Non-Ferrous Metallurgical Industries (Cu, Pb, Al), Oil Refineries and Petrochemical to implement the CREP recommendations.

2.4 Water Pollution Assessment

- New water quality criteria for water quality management have been prepared;
- Total number of water quality monitoring stations has been increased from **507 to 784**.
- **86** polluted river stretches have been identified for preparation of action plan with SPCBs to control the water pollution in these stretches.
- CETP performance evaluation study in Gujarat, Maharashtra, Tamil Nadu and Uttar Pradesh has been conducted.
- 6086 Km. Of riverine length where BOD is more than 6 mg/l have been identified to take further action to implement the action plan.

2.5 Water Pollution Control

- Major thrust have been given to control water pollution from 17 categories of highly polluting industries, specially in Distilleries, Paper and Pulp, Pesticides, Chlor Alkali Plant, Tanneries etc.

- 851 industries those discharging effluents directly to rivers/lakes have been identified and to take specific action through concerned SPCBs

2.6 Project studies

- In order to obtain regular and reliable data, CPCB has started Analytical Quality control (AQC) exercise for about 110 laboratories of SPCBs/PCCCs and other recognised laboratories.
- Ground water quality on flood prone area of river Yamuna has been carried out at 50 locations.
- CPCB's water laboratory has completed necessary documentation related to implementation of laboratory accreditation system as per ISO 17025. The laboratory of CPCB has been accredited in the field of chemical and biological testing.

2.7 Vehicular Pollution Prevention and Control

Ambient air quality in Delhi with respect to Lead, Sulphur Dioxide and Respirable Particulate Matter has shown significant improvement during 2003 as compared to the levels in 1996. Important steps taken to reduce the vehicular emissions and other steps are as follows:

- Improvement of fuel quality (low sulphur diesel etc.);
- Lead free petrol;
- Adoption of stringent vehicular norms (Bharat Stage II/III);
- Use of Beneficiated Coal in Power Plants;
- DG sets emission control;
- Shifting of polluting industries; and
- Improvement of I/M programme for vehicles.

2.8 Zoning Atlas

- Zoning Atlas for siting of industries has been finalized for 86 districts. The studies have been completed in 34 districts for which draft reports have been prepared.

Industrial Estate planning studies have been taken up at micro level to identify environmental acceptability. Studies for 12 sites have been completed, the draft report are ready for 3 sites and the work is in progress for 7 sites.

- Environmental Management Plans (EMPs) for Chennai, Indore and Bhubaneswar have been completed. EMPs are mining areas of Korba coalmines and Satna limestone belt have been completed.

2.9 Waste Management

Plastics waste management

- The State Pollution Control Boards (SPCBs)/Pollution Control Committees have taken initiatives for Implementing the provisions of the Recycled Plastics Manufacture & Usage Amended Rule, 2003, which include restriction on manufacture, sale, distribution, and use of plastic carry bags and containers less than 8 × 12 inches (20 × 30 cms) in size and having minimum thickness of 20 micron. SPCBs/PCCs have further initiated the activities which includes; Inventorisation of Plastics Recycling Units; Preparation of time-bound action plan on Plastic Waste management; and Organising mass-awareness programmes.
- A Pilot project on plastic recycling process has been completed. A new machine has been designed to process different types of plastics waste for preparing improved recycled granules and to improve the recycling process. The newly designed machine also takes care of limiting fugitive emissions in comparison with the existing recycling processes. The experiments on this machine have been completed and report is under preparation.

Municipal Solid Waste Management

- Annual report indicating status of implementation of solid waste management rules has been prepared and forwarded to MoEF.
- Local bodies of Chandigarh, Dum Dum and New Barrackpore in West Bengal and Kozhikode (Kerala) have taken steps to set up demo-facilities for implementation of municipal solid waste rules with the assistance of CPCB and MoEF.

Eco-Cities

The Ecocity Programme was initiated to bring in visible environmental improvement in the identified small and medium towns. In the first phase, the Programme has been initiated in the towns of Ujjain (Madhya Pradesh), Puri (Orissa), Tirupati (Andhra Pradesh), Kottayam (Kerala) and Vrindavan (Uttar Pradesh). The project in Kottayam is aimed at rejuvenating Munder River and Kacherikadavu Boar Jetty and Canal that have severe siltation and pollution problems. The project in Ujjain is aimed at area-wise improvement around Mahakal Temple and cleaning of Rudra Sagar Lake, which is highly silted and polluted with sewage. The project in Vrindavan is aimed at improvement of the historic core of the town located around Rangnath Temple. The project in Tirupati is aimed at improvement of the core of the town near Govindrajaswamy Temple. The project in Puri is aimed at improvement around Jagannath Temple, renovation of three of the religious ponds, shifting of garages and automobile workshop and improvement of existing solid waste disposal facility.

3.0 THRUST AREAS FOR 2004-2005

- ⇒ Strengthening of Water and Air quality monitoring network. The proposed activities relates to expansion, optimization and rationalization of water quality monitoring network.
- ⇒ Evolving microbiological standards for sewage treatment plants.
- ⇒ Undertaking calibration and evaluation of national air quality monitoring stations to ensure the quality of data produced.
- ⇒ Assessment of ground water quality in metro cities.
- ⇒ Health assessment studies in respect of air pollution and conservancy staff handling municipal solid waste.
- ⇒ Strengthening of analytical capabilities relating to analysis critical pollutants such as Benzene, PAH, BTX, PM_{2.5} etc.
- ⇒ Source appointment studies on particulate matter
- ⇒ Bio-monitoring/ bio-mapping of rivers
- ⇒ Efficiency tests of autoclaves for treating bio-medical waste by spore testing.
- ⇒ Enzymatic removal of trace aromatic compounds from drinking water.
- ⇒ Standardization of methodology for measurement of hazardous organic compounds such as PCBs
- ⇒ Guidelines on control of odor from industries.
- ⇒ Inspections of Gen-sets manufacturing facilities.
- ⇒ Guidelines on utilization of spent wash for composting in distilleries.
- ⇒ Organising training programmes for official of SPCBs/PCCs, and other concerned departments. The important area of training would include; Hazardous waste management, Bio-medical waste and Municipal solid waste, CETPs etc.
- ⇒ Development of an integrated software for different modules.

- ⇒ Monitoring of ground water and soil quality near petrol pumps- Guidelines for underground storage tanks.
- ⇒ Environment Surveillance activities relating to; industries, court matters, EIA compliances, public complaints, etc. through central and zonal offices of CPCB.
- ⇒ Performance evaluation of common effluent treatment plants (CETPs)
- ⇒ Implementation of MSW Rules – Assessment of status in metro cities and State Capitals and formulation of action plans (including setting up of demo projects).
- ⇒ Implementation of Plastic Waste Rules- monitoring of registrations granted by SPCBs/PCCs for recycling units. (including inventorisation of recycling units).
- ⇒ Guidelines on operating parameters for common bio-medical waste treatment facilities and co-ordination with SPCBs on implementation of rules.
- ⇒ Evaluation of technologies for environmentally sound re-processing of recyclable hazardous waste (used oil, used lead acid batteries and non-ferrous metal waste)
- ⇒ Identification and assessment of contaminated sites and their rehabilitation- Formulation of national plan.
- ⇒ Formulation of strategy for management of E-waste.
- ⇒ Management of waste batteries- Formulation of strategy
- ⇒ Development of testing facility in fire cracking units for measuring noise/emissions.
- ⇒ Developing models on decentralized cost-effective sewage treatment facilities for smaller communities.
- ⇒ Continuing preparation of Zoning Atlases for siting of industries and industrial estate based on environmental considerations.
- ⇒ Developing models on 'Eco-cities' (programme continuing at Kottayam, Vrindavan, Ujjain, Tirupati and Puri)

- ⇒ Evolving including revision of standards in respect of various categories of industries which includes oil refinery, fertilizers, pesticides, petro-chemicals, Soda ash, basic organic chemical, soap and detergent, producer gas plant, Arc and induction of furnace, Bullion refinery, Cashew seed processing and Dall and Besan, etc.
- ⇒ Implementation of recommendations under Corporate Responsibility for Environmental Protection in respect of 17 categories of industries through Task Forces to include important categories of industries such as Oil refinery, Petro-chemical, Pesticides, Bulk drug and pharmaceuticals, Dye and Dye Intermediate, Chlor-alkali, Fertilizer, Tannery, Power plants, Integrated Iron and Steel and others.
- ⇒ Assessing cost benefit analysis with a view of promote conversion of mercury cell process based Chlor-alkali to membrane cell
- ⇒ Undertaking actions compliance to the directives of Hon'ble Supreme Court in respect of hazardous waste management. The proposed actions taken include verification of inventory of hazardous waste generation in States and verification of hazardous waste dump sites/ contaminated sites and formulating rehabilitation plan and submitting the recommendations to the Hon'ble Supreme Court.
- ⇒ Preparation of sector wise documents on identification and characterization of hazardous waste with waste minimization option in selected categories of industries such as bulk drug, Iron and steel, Aluminum, sodium dichromate and Galvanising industry.
- ⇒ Assessing fugitive emission and evolving environmental guidelines in cement industries.
- ⇒ Setting up of facilities for monitoring of asbestos fibers.
- ⇒ Review of standards and development of clean technology for BOD plant on steel industry.
- ⇒ Revision of COINDS for Maltries and soft drinks.
- ⇒ Inventory of evaporating emission of hydrocarbon from various sources and monitoring of volatile organic compounds in urban air.
- ⇒ Assessing of cost benefit analysis of CNG introduction in Delhi.

4.0 SCHEMES OF ANNUAL ACTION PLAN 2004-05

An outlay of **Rs.22.00 Crores** has been sanctioned for plan expenditure during 2004-05. Project Head wise allocation is indicated below for Head Office and Zonal Offices.

S.No	Project Heads	Allocation (Rs in lakh)		
		Head Office	Zonal Offices	Total
I	Pollution Assessment- Survey & Monitoring	361.00	47.59	408.59
II	Laboratory Management (Operation and Maintenance and R&D)	540.30	99.80	640.10
III	Development of Standards and Guidelines	185.50	0.56	186.06
IV	Training	30.00	4.05	34.05
VA	Information (Database) Management	36.50	5.25	41.75
VB	Library	19.00	3.25	22.25
VI	Pollution Control Enforcement	471.70	120.25	591.95
VII	Pollution Control Technology	97.0	0.0	97.0
VIII	Mass awareness, Publications & NGO Activities	78.50	1.75	80.25
IX	Hazardous Waste Management	93.50	4.50	98.0
	TOTAL	1913.00	287.00	2200.00

5.0 PLANS & PROGRAMMES OF HEAD OFFICE (SCHEME WISE ALLOCATION)

5.1 PAMS Division (P-I)

(Rs.in lakh)

Sr. No	Schemes	Total cost of Project
	Project Head-I	
1.	National Water Quality Monitoring Programme (NWQMP) including implementation of findings of review of network (on-going). Monitoring of ground water quality with respect to pesticides & heavy metals.	75.00 (RE: 25.00) Total: 100.00
2	National Air Quality Monitoring Programme (NAMP) including inclusion of toxic and critical pollutants monitoring in urban areas and critically polluted areas (on going).	200.00 (RE: 50.00) Total :250.00
3.	Development of methodology for assessment of diffused pollution (on-going)	5.0
4.	Court matters (on-going)	1.0
5.	Assessment of ground water quality in five metro cities of India (On going)	10.0
6.	Epidemiological study to find the effect of air pollution on human health (on going)	4.0
7.	Calibration & Evaluation of National Ambient Air Quality Monitoring Stations (new)	25.0 (RE: 5.00) Total : 30.00
8.	Ambient Air Quality, Respiratory Symptoms and Lung function of Children: A study in Delhi (on going)	2.0
9.	Review of National Air Quality Monitoring Programme (NAMP)	2.0
10	Microbiological quality standards for STPs	15.0
11	Indian Meteorological Department (IMD)-Operation & Maintenance of meteorological station at Agra.	22.0
12	Development of software for data management under NAMP	-
13	Review of NAMP	-
14	Report on air quality trends and action plan for air pollution control in seven cities	-
	TOTAL	361.00

5.2 Infrastructure (Laboratory) Management (P-II)

(Rs. in lakh)

Sr. No.	Schemes	Total cost of Project
	Project Head-II: Laboratory Management and R&D	
	Air Laboratory	
1.	Operation and maintenance of continuous water quality monitoring stations in Delhi	4.00
2.	Operation and maintenance of continuous of air quality monitoring stations in Delhi including BTX	9.00
3.	Quality assurance in air quality measurements	1.50
4.	Polynuclear aromatic hydro-carbon: sampling and analysis in Delhi	2.00
5.	Standardization of methodology for sampling (active & passive) and analysis of Benzene using GC_MS ATDGC & GC_FID, GC_MS, GC_ATD, GC_FID	2.50
6.	Assessment of noise levels in Delhi	0.50
7.	Monitoring of benzene in Delhi and Kanpur (Passive sampling method)	3.00
8.	Inspection of Authorized Pollution checking centres in Delhi	0.50
9.	Air quality assessment in different areas including traffic intersections in Delhi	1.00
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.	NPL Research Projects on For formation mechanism as early warning system	10.00
13.	Manual monitoring of ambient air quality in 5 Zonal offices and (each one location) and HO for reporting in television.	5.00
14.	Development of certified reference material (CRM) of air mixture	5.00
15.	Rain water characterization in Delhi	0.50
16.	Upgradation of SODAR system	2.00
17.	Fabrication of new mobile van with the facilities for the Measurement of SO ₂ , CO, O ₃ , PM ₁₀ and NO-NO ₂ -NO _x Including meteorological parameters along-with BTX Analyzer (FID) (New)	90.00
18.	Characterization of particulate matter for source apportionment and source identification (New)	1.00
19.	Standardization of source emission methods including CS ₂ & H ₂ S (New)	1.50
20.	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)	160.00 (RE: 120.00) Total: 280.00

Sr. No.	Schemes	(Rs. in lakh)
		Total cost of Project
	Water Laboratory	
21.	Analytical quality control (AQC/ Water) for Central and State Pollution Control Boards, Pollution Control Committees & for laboratories recognized under E.P.Act	2.00
22.	Testing and validation of BOD Biosensor based on microbial mixed culture for rapid BOD determination in wastewater in collaboration with CBT, CSIR, Delhi (including testing performance of sensors in operation)	1.00
23.	Development & standardization of soil and solid waste analysis for Analytical Quality Control	1.00
24.	A comparative studies on Methodology of Analysis and Characterization of Hazardous Wastes	1.50
25.	Ground Water Quality Monitoring of Delhi, NCT	1.00
26.	Development and Distribution Water testing kits (WTK)	4.00
27.	Characterization of Municipal STP sludge for development standards for Agricultural application (HQ & ZO) (New)	2.00
	Bio- Lab	
28.	Bio monitoring of rivers/ lakes for assessment of water quality	0.50
29.	Bio monitoring of River Ganga and its tributaries	0.50
30.	Water quality assessment through bio-monitoring of major wetlands in Wild life habitats of India	2.00
31.	Efficiency testing of autoclaves used for hospital waste treatment by spore testing method	0.50
32.	Bio-Mapping of some perennial rivers of Meghalaya in collaboration with Meghalaya SPCBs	1.50
33.	Water Quality Monitoring of River Yamuna	NRCD
34.	Performance study of sewage treatment plants in Delhi & Haryana under Yamuna Action Plan	NRCD
35.	Performance Monitoring of Oxidation Pond based Sewage Treatment Plants in U.P under Yamuna Action Plan	NRCD
36.	Bio-monitoring of Surface Water Bodies on Major Dams used for Hydro Electric Power Generation in India (New)	2.00
37.	Environmental studies on mass bathing impact on water quality on river Kshipra, Ujjain, M.P. during Kumbh Mela, 2004 and development of environmental management plan (New)	0.53
38.	Removal of heavy metal ions from wastewater by treatment with bio-absorbent	1.27

		(Rs. in lakh)
Sl. No	Schemes	Total cost of Project
	Treat ability Laboratory	
39.	Sludge reagent product (SRP) – an innovative process for water and waste water treatment- flocculation study- setting up of pilot plant	10.00
40.	Enzymatic removal of trace aromatic compounds from Drinking water by immobilized Peroxidases	3.00
41.	Removal of toxicity from Industrial wastewater using selective chemical treatment methods (Ozone, Hydrogen peroxide, Fenton reagent etc.)	1.50
42.	Production of ethyl alcohol/single-cell protein from organic wastes (New)	1.50
	Instrumentation Laboratory	
43.	Standardization of methodology for measurement of certain hazardous organic compounds (PCBs)	2.00
44.	Development and Standardization of methodology for measurement of Trihalomethanes (THMs) in drinking water	0.50
45.	Establishment of methodology for extractable organic halides (AOX) in sludge.	1.00
46.	Geo-accumulation and Bio-accumulation of Heavy metals and pesticides on soil and crop vegetation during wastewater irrigation	0.50
47.	Development of infrastructure for measurement of Hazardous Organic Compound – Dioxins/Furans	15.00
	Infrastructure –Laboratories: GENERAL	
48.	World Bank Project: Performance Audit on the utility of instruments/ equipment supplied under Industrial Pollution Control (IPC) World Bank project including Service activities	1.00
49.	NABL – Laboratory Accreditation activities	3.00
50.	Participation of proficiency testing (PT) programmes for various physico-chemical and biological parameters	4.50
51.	Up gradation of laboratories	30.00
52.	Procurement of instruments, equipment and spare parts for various labs of CPCB	100.00 (RE: 200.0) Total: 300.00
53.	Maintenance of laboratories (electricity, water, telephone, fax, repair & services etc.)	*25.00
54.	Service activities for World Bank Project, French assisted Project, Indo – GTZ projects, etc.	1.00
55.	Recognition of laboratories under Environment Protection Act	1.00
56.	Implementation of Laboratory Information Systems	11.0
57.	Performance evaluation of continues monitoring stations	3.0
58.	DST-NABL sponsored project.	nil
	TOTAL	540.30

5.3 PCI-I (P-III, VI, VII & IX)

		(Rs. In lakh)
S.No	Schemes	Total cost of Project
Project Head-III		
1	Development of emission standards for oil refinery.	0.50
2	Development of emission Standards for fertilizer industries.	2.00
3	Review of emission & effluent standards & solid waste management practices for dyes & dye intermediate industries.	6.00
4	Review of ambient air quality standards.	13.00
5	Preparation of COINDS document & revision of status on Pesticides Industry (In-house)	2.00
6	Preparation of COINDS document on Wastewater Management in Bulk Drug Industries (In-house)	2.50
7	Development of National Emission Standards for Bulk Drug Industries	3.00
8	Chemical Waste Incinerators	5.00
9	Review of Effluents Standards and Development of National Emission Standards for Basic Organic Chemicals Manufacturing Industries (Continued project taken-up under EMCBTA)	10.00
10	COINDS for Dall & Besan	1.25
11	COINDS for Producer Gas Plant	4.80
12	Pollution Standards for service station/workshop (new)	4.00
13	COINDS on cashew processing industries	RE: 3.5 4.00
14	COINDS for soap & detergents	RE: 3.5 3.50
15	COINDS for Plaster of Paris	3.90
16	Technology for Lime Kiln	1.00
17	Guidelines for vapor recovery systems at gasoline filling stations	2.00
18	Standard development for Arc and induction furnace	5.00 RE: 2.50
19	Improve upon the working of Awas and standardize the design of vertical Bhattis	2.00
20	Preparation of COINDS for bullion refinery	3.00 RE: 2.0
21	Review of effluent standards for soda ash	8.00
22	Eco-mark	0.50
TOTAL		86.95
Project Head-VI		
1	Status and prospects of natural dyes in India.	2.00
2	Performance evaluation study of air quality models.	3.00 RE: 1.0
3	Preparation of manuals for conducting air quality modeling studies.	0.10
4	Evaluation of Plume-rise equations.	1.00
5	Optimum Water consumption limit for Bulk Drug Manufacturing Industries	1.20
6	Implementation of CREP Recommendations in case of Chlor-alkali & Fertilizer Sectors, etc.	2.50

		(Rs. in lakh)
S.No	Schemes	Total cost of Project
7	Monitoring of Ground Water and soil quality near old Petrol Pumps and formulating guidelines for under ground storage tanks.	3.00
8	ESS activity	3.0
9	CREP Implementation (Pesticides, Pharmaceuticals)	2.0
10	CREP Implementation (ore refinery and petro-chemicals)	1.0
11	CREP for Dyes	2.0
12	CREP for tanneries	2.0
	Total	21.80
	Project Head-VII	
1	Organising Training programme for the officers of Central & State Pollution Control Boards on Hazard Identification and Risk Assessment due to Isolated Storages	2.00
2	Development of Technologies for Pollution Control in Selected Drugs Manufacturing Units-Paracetamol-a case study	2.50
3	Risk Assessment in Petrochemical plants and oil refineries	4.00
4	Study on Environmental Contamination with Polychlorinated Dioxins viz. TCDDs	10.00
5	Control of offensive odour substances with specific reference to selected industrial processes	6.40
6	Review of Technological Options for Reduction of Toxicity Factor in Treated and Untreated Effluents from the Pesticides Industries	3.00 RE:2.5
7	Inventorisation of persistent organic pollutants (POPs) in India	2.00 RE:1.0
8	Review on control technologies and preparation of guidelines for reduction of SO ₂ emission in sulphuric acid plants.	1.00
9	Cost benefit analysis for changeover from mercury cell to membrane cell technology in Chlor-Alkali industry	6.50
10	Removal of suspended impurities in saline water	3.00
11	Solid waste management in Tanneries	1.00
12	Common Chrome Recovery in Kanpur	1.00
13	Performance Evaluation in brick-kiln	3.00 RE:3.0
14	Evaluation and improvement in design of clamp kilns	3.00 RE:2.0
	Total	48.40
	Project Head-IX	
1	Identification of Hazardous Waste Streams, their Characterisation and Waste Minimisation Options in Bulk Drugs & Pharmaceuticals Sector.	2.00
2	Identification of hazardous waste streams their characterisation and waste minimisation options in Iron steel, Aluminium, Sodium dichromate and Galvanising Sector	0.50
3	Identification of Hazardous Waste Streams, their Characterisation in selected small-scale sectors (Textile, Dyeing, Hardening of steel.	0.50
4	Review of effluent standards for Soda Ash industry	4.00

S.No	Schemes	(Rs. In lakh) Total cost of Project
5	Expert Committee meetings on various on-going projects.	0.50
6	Identification of Hazardous Waste Streams for Paint Industries	3.00
7	Sector specific documentation to identify waste streams in various sectors / processes as per Hazardous Waste (M & H) Amendment Rules 2003	8.00
	Total	18.50
	Grand Total	175.65

5.4 Computer Division (P-VA)

		(Rs. In lakh)
Sl. No.	Scheme	Total cost of Project
1	Preparation of Water & Air Quality Reports	
(a)	Preparation of Water & Air Quality Reports and procurement of Antivirus and other Software	1.50
(b)	Procurement of Non-Computer stationery and Conveyance etc.	0.50
2	Operation and Maintenance of Computer Hardware & peripherals	
(a)	AMC of LAN, Server, Computer, UPS etc.	3.60
(b)	Procurement of DAT, Cartridge, Ribbon, Toner, Computer Stationery etc.	0.40
(c)	AMC of Air Conditioner	0.30
3	Information/Data transmission & retrieval through computer Network	
(a)	Salary of Project DEO	1.20
(b)	Payment to MTNL	2.80
4.	Development of an integrated software with modules on (i) public complaints, (ii) Legal matters, (iii) Parliamentary Questions and (iv) Plan allocation & expenditure of CPCB	-
5	Development of integrated software for Finance & Accounting	-
6	Development of an integrated software for creating Environmental Data Bank	9.00
7	Web site maintenance and updating	0.50
8	Water & Air Quality Software development/ training	3.00
9	Procurement. Installation and training of RDBMS Software	1.00
10	Enhancement of battery Back up/ Procurement of UPS	1.70
11	Procurement of Switches, I/O Boxes, etc.	1.50
12	Procurement of Server	3.00
13	Workshop on Statistics for Scientists and Engineers of Pollution Control Boards at EPTRI, Hyderabad	1.30
14.	On-line access of emission data from Oil Refineries & Thermal Power Plants	5.00
15.	Development of software for providing on-line information regarding processing of application, received from reprocesses/recyclers	0.20
Total		36.50

5.5 PCI-II & Building Division (P-III, VI & VII)

		(Rs. In lakh)
S.No	Schemes	Total cost of Project
	Project Head III	
23	Standardization Monitoring and Analysis Procedures for By-Product Recovery Type Coke Oven Emissions (New)	5.00
24	Assessment of fugitive emissions and Development of Environmental guidelines for control of fugitive emissions in cement manufacturing industries (NPC & IIT)	9.00 RE:1.50
25	Monitoring of Human Risk Assessment in Asbestos based industries in India .	2.50
26	COINDS on mini cement plants	1.25
27	Strengthening of facilities for monitoring of asbestos fiber in CPCB (new)	10.00 RE:25.00
28	Standing Committee on Genset Emission (Major activity – Emission Standards for LPG based genset, Emission Standards for CNG based genset) (ongoing)	1.00
29	Revision of CO standards for diesel engines (more than 800 kW) for genset / power plant. (new) (in house)	1.00
30	Development of measurement facility for HC / PAH from aluminum plant	2.00
31	Preparation of guidelines on odour pollution (Expert Committee)	1.5
32	Strengthening of facilities for odour monitoring	2.00
33	Development of COINDS on primary Copper, Lead & Zinc Industries	5.00
34	COIND for Thermal Power Plants	5.0
	Total	45.25
	Project Head-VI	
13	Implementation of Standards in TPP, Cement, Iron & Steel (ESS activities)	3.00
14	Implementation of recommendations of CREP (Task Force Meetings, Visits etc.)	8.00 RE:2.0
15	Study of Environmental Problems of Aravalli Hills and preparation of Action plan for restoration of Environmental Quality –Chittorgarh & Udaipur District of Rajasthan	6.00 RE:2.00
16	National Committee on Noise Pollution Control (Major activity – Amendment in Noise Legislation, Airport Noise) (ongoing)	1.00
17	Compliance inspection of genset manufacturing facilities	2.00
18	Workshop on Noise Pollution Control	2.00
19	Compliance Testing of Firecrackers (including development of testing facilities) (on going) – in house/ consultant	5.00
20	Organising training programmes/ workshops on odour pollution & its control	2.00

(Rs. in lakh)

S.No.	Schemes	Total cost of Project
21	Committed Expenditure (PCRI & others) of 2003-04	10.00
	Building Project	
22	Maintenance of Parivesh Bhawan Building	40.0
23	Fuel & maintenance charges for vehicles	25.00
24	Modernisation of Existing Elevators	20.00
25	Procurement of 380 KVADG Set	20.00
26	Renovation of Conference Hall & its surroundings room	5.00
27	Contingency expenses (electric sub-station, lawn maintenance, energy savings lights, reception renovation, etc.	8.00 RE:2.0
	Total	157.00
	Project Head – VII	
15	Review of Notified Standard and Development of Clean Technology for BOD Plant of Steel Industry (new)	3.00
16	Description of clean Technology and development of National Environmental Standards for Sponge Iron Plant (Mekon)	12.00
17	Emission monitoring of cement kiln using high calorific value Hazardous Waste as fuel including testing of clinker & cement	6.00 RE:2.0
18	Identification & Techno-economical comparison of coal beneficiation technologies	3.00 RE:2.0
	Total	24.00
	Grand Total	226.25

* Includes property tax, water charges bill, electricity bill, EPBAX Maintenance, civil works, security services, maintenance of fire Fighting equipments, maintenance of guesthouse etc.

5.6 PCI-III Division (P-III, VI & VII)

		(Rs. In Lakh)
Sr. No	Schemes	Total cost of Project
Project Head-III Development of Standards & Guidelines		
35	Revision of COINDS for large pulp & paper industries	4.5
36	Revision of COINDS for small pulp & paper industries	3.0
37	Development of standards for Gelatin & Glue industries	2.30
38	Development of Guidelines for water conservation in pulp & paper industry	4.50
39	Guidelines for utilization of spent wash for composting	8.0
40	Guidelines for utilization of effluent from pulp & paper mills for irrigation purpose	15.0
41	COINDS for poultry farms	2.50
42	COINDS for Fermentation Industry	3.0
43	Revision of COINDS for Maltries & Breweries (New)	4.0
44	Revision of COINDS for Soft drinks industries (New)	3.0
45	Development of guidelines for water conservation in sugar mills (new)	3.5
Total		53.30
Project Head- VI - Pollution Control Enforcement		
28	Environmental Surveillance Squad (ESS) for pulp & paper, sugar, distillery and other agro-based industries etc.	5.00
29	Odour control in distilleries.	3.00
30	Odour control in pulp & paper industry.	7.00
31	Performance evaluation of Air Pollution Control System in Sugar mills (New)	1.50
Total		16.50
Project Head-VII- Pollution Control Technology		
19	Study of Root Zone technology at STP in Haridwar, Delhi	4.00
20	Demonstration of Electro – flocculation technology for colour removal on pilot scale in agro-based pulp & paper mills	10.00 RE:10.00
21	Viable scale of operation of pulp & paper industries & waste treatment options including chemical recovery plant to achieve the environmental standards	10.00
22	Innovative technologies for textile waste treatment (New)	0.60
Total		24.60
Grand Total		94.40

5.7 Hazardous Waste Management Division (P-IX)

(Rs. in lakh)

Sr. No.	Schemes	Total cost of Project
8	Feasibility study for Development of Common Disposal Facility for Treatment, Storage & Disposal of HW in Orissa (Committed expenditure)	3.00
9	Registration of the HW recycling/re-processing/refining industries and related activities.	6.00
10	Development of Guidelines for capacity assessment of the HW recycling/re-processing industries.	3.00
11	Evaluation of the technologies on re-processing/ Re- refining of the different types of used/waste oil.	4.00
12	Study on characterization of Used oil & Waste oil generated from major sources	3.00
13	Implementation of Hon'ble Supreme Court Directives on Management of Hazardous Waste (SCMC meetings & related activities)	10.00
14	Compilation & verification of the inventories on HW generation	1.00
15	Compilation & verification of the inventories on illegal HW dump sites	1.00
16	Organisation of Regional Trainings/ Workshops for the officials of Pollution Control Boards on characterisation, Re- processing and Management of HW.	6.00
17	-Co-ordination of the projects covered under ASEM -Methodology for Assessment and Rehabilitation of Contaminated sites. -Co-ordination of the assessment of the E-Waste Management Practices existing in the major cities -Preparation of National Strategy for E-Waste Management)	6.00
18	Finalisation of the guidelines on HW Management	2.00
19	Preparation of Checklist and Workshop cum Training programme for the officials of Pollution Control Boards for assessing the Planning, Design and Construction of HW Disposal Facilities. (through zonal offices)	6.00
20	Preparation of comprehensive report on Illegal Dumpsites & Rehabilitation Plan	6.00
21	Committed Expenditure and purchase of fax machine, photocopier, stationery etc.	8.00
22	Updation of manual on sampling analysis and characterization of hazardous waste	2.00
23	Solidification/ stabilization of hazardous waste	2.00
24	Bio-medical waste management in NCR region with reference to sharing of facilities	2.00
25	Meeting of the Expert Committee on Bio-medical Waste Management and related activities	1.00
26	Implementation of the BMW Rules	1.00
27	Development of Guidelines & Operating parameters for Common Bio-Medical Waste Treatment facility-Documentary Film on Hospital Waste Management	1.00
28	Implementation of Battery rule	1.00
	Total	75.00

5.8 Plan Co-ordination Division (P-VI)

		(Rs. in lakh)
S.No	Scheme	Total Cost of Project
	Project Head-VI Pollution Control Enforcement	
32	Planning, Co-ordination & Parliamentary Matters	
	SPCBs/PCCs, Cess & Parliament matter	6.00
	Office co-ordination and salaries of Directors/ Additional Directors/ESS-co-ordination	26.00
	Schemes on prevention & control of pollution	
33	Co-ordination with SPCBs/PCCs and concerned Govt. institutions on specific programme on prevention and control of pollution	5.00
	Management of Municipal Solid Waste	
34	Setting up of Model facilities for Demonstration of management of Municipal Solid Waste for implementation of the Municipal Solid Wastes (Management and Handling) Rules, 2000	18.40 (RE: 62.32) Total: 80.72
35	Status of Municipal Solid Wastes generation collection & disposal of metro Class I & II cities/ towns (on -going)	10.00
36	Assessment of health of municipal staff handling MSW (on-going)	MoEF fund
37	Estimation of methane emission around MSW dump sites	MoEF fund
38	Review of implementation status of MSW (including interaction with SPCB, ULBs, sponsoring statewise projects/ workshop/ training)	2.00
	Plastics Waste Management	
39	Implementation of Recycled Plastics & Usage Rule, 2003 through SPCBs/PCCs (organizing interaction meetings etc) and Preparation of Status Report on reuse of plastics waste in road construction (New)	5.00
40	Inventorization and Environmental Management in Plastics Recycling Units in NCR, Delhi (On-going)	4.00
41	Completion and Preparation of Report on Re-engineering the process of recycling in packaging plastics (on-going)	2.50
42	Demonstration of Plastics waste processing technologies	5.0
43	Construction of ZO Buildings & SEP	25.00 (RE : 175.00) Total: 200.00
	TOTAL	108.90

5.9 AS-Section (P-VI & VIII)

(Rs. in lakh)

Sr. No	Schemes	Total cost of project
Project Head-VI- Pollution Control Enforcement		
44	National & regional level Chairmen & Member Secretaries Conference (2 Nos.)	7.00
45	Redressal of Public complaints	1.00
46	Board Meeting (TA/DA of Members)	2.50
47	Conference on follow-up of CREP	3.00
Total		13.50
Project Head-VIII- Mass Awareness, Publication, NGO Activities		
1	Financial assistance to NGOs for conducting programmes	1.50
2	Training programme for NGOs on prevention and control of pollution (through zonal offices)	3.00
3	Interaction meet with NGOs	1.00
Total		5.50
Grand Total		19.00

5.10 PR & Hindi Section (P-VIII)

(Rs. In lakh)

S.No	Schemes	Total cost of Project
Continuing Schemes		
4	Exhibitions/ Audio-Visual/ Film Making/ Mass Awareness Programmes	8.00
5.	Advertisement	12.00
6.	PIC Renovation	2.00
7.	Publications/leaflet/Newsletters	30.00
8.	Infra. Development.	3.00
9.	Official Meetings expensers	4.00
10	Mobile Exhibition Van (New)	8.00 (RE:5.00)
11	Organising exhibition on Control of Pollution (New)	-
12	Preparation of Leaflets/Booklets for mass awareness (New)	4.00
13.	Implementation of Rajbhasha (Hindi)	2.00
Total		73.00

5.11 Library (Project V-B)

(Rs. In lakh)

Sr. No	Scheme	Total cost of Project
1.	Purchase of Books/Newspapers/ security	4.00
2.	Subscription to Journals	7.00
3.	Renovation of Library (False ceiling, double gauge windows, furniture etc.	4.00
4	Automation of Library	2.00
5	Purchase of Photocopies/Security services	2.00
Total		19.00

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

S.No	Scheme	(Rs. In lakh) Total cost of Project
	Project Head-VI –Pollution Control Enforcement	
48	Spatial Environmental Planning Programme	100.00 RE: 93.00
49	Eco-Cities/ Urban-Envis	25.00 RE: 75.00
50	CETPs performance evaluation (coordination with ZOs)	1.00
51	STPs performance evaluation (Coordination with ZOs)	1.00
52	Pre-feasibility Study for setting of CETP for Starch & Sago industries in Salem (T.N.)	2.00
53	Environmental Compliance and Enforcement (as per MoU between India and USA)	3.00
54	Inventory of Evaporative emissions of Hydrocarbons from various sources in Delhi, Mumbai and Chennai.	5.00
55	Monitoring and Inventory of volatile organic compounds (VOCc) in urban air.	5.00
56	Cost Benefit Analysis of CNG introduction in Delhi	5.00
57	Emission inventory	2.00
58	Decentralise/ low cost sewage treatment scheme	5.00
	Total	154.0
	Project Head IV-Training	
1	Human Resource Development Programme	30.00
	Total	30.00
	Grand Total	184.00

6.0 PLANS AND PROGRAMMES OF ZONAL OFFICES

6.1 Zonal Office Shillong

Sl. No.	Scheme	(Rs. in lakh) Total cost of Project
	Project Head-I	
1	Co-ordination with the SPCBs on operation and maintenance of water & air quality monitoring.	0.30
2	Inventorization of industries (except Meghalaya & Assam).	1.00
3	Fluoride contamination of ground water in Guwahati (through IIT-G)	1.00
4	Interactions with the Institutions for ascertaining their capabilities for undertaking Environmental projects/ studies in NE-regions.	0.25
	Project Head - II	
5	Furnishing/ strengthening of laboratory at new premises.	2.00
	Project Head-IV	
6	Nomination for Training / Workshop	0.30
	Project Head-V (A& B)	
7	Development of Library and O/M of database management.	0.50
	Project Head-VI	
8	Environment surveillance; 17 cat. of industries, problem areas, public complaints, etc., including searching of new premises for office and new laboratory.	1.00
9	Status of management of MSW, BMW and plastic wastes at State capitals and other important places.	0.50
10	Performance of waste processing plant (MSW)	0.25
11.	Water/ soil Sample collection of coal mining areas of Tinsukia district for the project given to IIT-Kharagpur. (on going)	0.50
12	Demonstration of decentralized Swage treatment facilities.	1.00
	Project Head-VIII	
13	Organizing mass awareness programs	0.25
	Project Head -IX	
14	Inventory of Hazardous waste generation/ reprocessing and disposal sites.	0.50
	Total	9.35

6.2 Zonal Office- Kolkata

		(Rs. in lakh)
S. No	Schemes	Total cost of Project
	Project Head-I	
1	Surveillance of water and air quality monitoring stations	
2	Air quality at major traffic intersections in Kolkata	0.50
3	Assessment of Arsenic Contamination in Groundwater	3.00
4	Characterisation of Emission Sources (In collaboration with WBPCB)	1.00
		3.00
5	Noise Profile monitoring across the eastern region	
6	Status of Environmental Management in Hotels	0.50
7	Impact of mine water in the surrounding environment	0.20
8	Assessment of pesticides on soil and water bodies	0.50
9	Impact of fishing harbors on coastal environment- case study	1.00
		0.25
	Project Head-II	
10	Strengthening, O & M of laboratory	
11	Cost of glass wares/ chemicals including SRMs	20.00
		4.00
	Project Head-III	
12	Assessment of AOX level in wastewater of selected industries	0.56
	Project Head-IV	
13	Nomination for training programme/workshop	0.50
14	Organising training programme for teachers of High School and Colleges	0.50
15	Conducting AQC for laboratories located in the eastern region	1.00
	Project Head-V(A)	
16	Database Management	
		1.00
	Project Head-V(B)	
17	Development of library	0.50
	Project Head-VI	
18	Performance study of CETPs, CBMWTF, Coastal Aquaculture etc.	3.00
19	Environment Surveillance Programme public complaint	0.50
20	Assessment of Pollution status in identified problem areas	3.00
21	Running and maintenance of vehicles in execution of plan activities	2.00
22	Renovation of Zonal Office cum Laboratory	1.00
	Project Head-IX	
23	Hazardous Wastes/ reprocessing units in the region/investigation, crosschecking etc	1.00
	TOTAL	48.51

6.3 Zonal Office- Bangalore

(Rs in lakh)

Sl. No	Schemes	Total cost of Project
	Project Head-I Pollution Assessment, Survey & Monitoring	
1	Monitoring of BTX at the road intersections of the city of Bangalore	0.50
2	Monitoring of Water Quality of restored lakes in the city of Bangalore	0.50
3	Continuous Ambient Air Quality Monitoring at identified locations in city of Bangalore	2.00
4	Surveillance of NAAQM Stations	0.50
5	Surveillance of MINAR Stations	0.50
	Project Head - II Laboratory Management	
6	Operation and Maintenance of Mobile Lab	1.50
7	Development of Infrastructure of Stationery Lab.	20.00
8	Development of facilities for Bio-assay Test	1.50
9	Development of facilities for Calibration of instruments and equipments	3.00
10.	Study of suitability of Filter Papers of different quality and make	0.30
11.	Calibration of Instruments, Annual Maintenance of equipment and procurement of Reference Manual	2.00
	Project Head- IV Training & Workshop	
12	Organising and Attending training/workshop	0.75
	Project Head - V(A) Database Management	
13	Procurement of Computer System peripherals and Local Area Networking	1.00
	Project Head - V (B) Library Management	
14	Development of Library	0.50
	Project Head - VI Pollution Control Enforcement	
15	Development of Office Infrastructure	3.00
16	Environment Surveillance Programmes/Public complaint	3.00
17	Performance Studies of CETPs, CBMWTF, Coastal Aquaculture etc.	2.00
18	Determination of AOx in specific industries	0.50
19	Hazardous Waste/ Reprocessing Units in the region & Inventorisation-Crosschecking	1.00
20	E-Waste Inventorisation and Survey	0.50
21	Development of Decentralised Wastewater Treatment System at Kengeri (Bangalore)	-----
	Project Head - VIII Mass Awareness and Publications	
22	Organising Mass Awareness Programmes	1.00
	TOTAL	45.55

6.4 Zonal Office- Kanpur

Sl. No	Schemes	(Rs. in lakh)
		Total cost of Project
	Project Head-I	
1	Source Identification of metals in Soft drink Plants	0.50
2	O & M of AAQM at Vikas Nagar	2.00
3	Monitoring of BTX in Kanpur	2.00
4	Monitoring Organic pollutants in the Environment	1.00
6	Security & Insurance of AWQMS	1.00
8	Preparation of EMP Dehradun	1.00
9	Environmental Status- Amritsar	1.00
10	Soil & groundwater Pollution in Bhadohi	1.00
11	Monitoring of pesticides in Satluj & Beas	1.00
	Project Head-II	
12	O & M of laboratory	10.00
13	Development of laboratory	2.00
14	Maintenance of Toxicity facilities	1.00
	Project Head-V {A&B}	
15	Library development	0.50
16	Procurement of server for LAN	1.00
	Project Head-VI	
17	Performance Studies of CETPs, CBMWTF etc.	2.00
18	Environment Surveillance Programmes/Public complaint	1.00
19	Construction of Improved Furnace in Khandsari	0.50
20	Development of strategy for GW pollution in Kanpur	1.50
21	Evaluation of Biomethanization from fleshing in Tanneries	0.50
22	Funds requirement for shifting to Lucknow	
23	Requirement for furnishing, electrification, electric load, plumbing, fire fighting etc.	50.00
24	Requirement for registration, transfer of office/lab building	26.00
25	Requirement for packing, transport & Reinstallation	5.00
	Project Head-IX	
26	Hazardous Waste/ Reprocessing Units in the region & Inventorisation-Crosschecking	1.00
	Total	112.50

6.5 Zonal Office- Bhopal

Sl. No	Schemes	(Rs in lakh) Total cost of Project
	Project Head-I	
1	Surveillance of ambient air and water quality monitoring stations and associated laboratory facilities under NAMP & MINARS	2.50
2	Monitoring of Air quality in Bhopal for reporting to TV Channels	1.50
3	Status of municipal solid waste and sewage collection/treatment in District Head Quarters Chhatisgarh State (New)	1.25
4	Groundwater Quality Monitoring in thirty major cities in Central Zone (New)	1.25
5	Assessment of pollution generated due to railway activities at junction station, Itarsi (2 year project starting from 2004-05) (New)	2.00
6	To find out assimilation capacity of River Narmada in the stretch between Hoshangabad and Koteshwar (interstate border) (New)	0.50
	Project Head-II	
7	Development of laboratory and monitoring facilities including operation and maintenance of existing laboratory	13.00
8	Operation and maintenance of surveillance vehicle	1.00
	Project Head-IV	
9	Nomination of officer/staff for training workshops	0.50
	Project Head-V(A)	
10	Development of computer and other facilities in the office and operation and maintenance of existing computers	0.50
	Project Head-V(B)	
11	Development of library	1.00
	Project Head-VI	
12	Performance Studies of CETPs, CBMWTF etc.	2.00
13	Inventorization and assessment of pollution in industrial town Dewas (New)	1.50
14	Status of coal mines of SECL in Chhatisgarh State (New)	1.00
15	Performance study of ETPs in five pharmaceutical industries in Central zone (New)	1.00
16	Performance of ESPs in Thermal Power Plants in Rajasthan State (New)	0.50
17	Follow-up of CREP recommendation with SPCBs and industries (New)	1.00
18	Hazardous Waste/ Reprocessing Units in the region & Inventorisation-Crosschecking	1.00
	Total	33.00

6.6 Zonal Office-Vadodara

Sl. No	Schemes	(Rs. in lakh)
		Total cost of Project
Project Head-I		
1	Surveillance of WQM stations (on going)	
2	Surveillance of Ambient Air Quality Monitoring Stations (on going)	0.20
3	Studies of Ground water quality around CETP & common secured landfill sites located at various places in Gujarat (on going)	0.20
4	Environmental status around common secured landfill sites in Gujarat & Maharashtra (on going)	1.50
5	Studies of Municipal Solid Waste in Vadodara (on going)	0.50
6	Case study on Status of Environment of Coastal town Daman	1.00
7	Performance Studies of CETPs, CBMWTF, Coastal Aquaculture etc	2.50
8	Inventory of Status of pollution control in industries located in four industrial estates of west zone (Ankeleswar, Nandesari in Gujarat, State and Taloja, Tarapur in Maharashtra State)	3.50
9	Noise pollution monitoring during Deepawali & Navratra in Vadodara	0.25
10	Case studies on environmental status of Marine National Park, Gult of Kutch, Jamnagar, Gujarat (on going). (To be paid to GAU)	0.59
11	Studies on pollution potential from fishing harbors to coastal areas w.r.t. Varavel fishing harbors Gujarat (on going) (To be paid to Gujarat Agriculture University)	0.85
12	DOD sponsored project on Land-based sources of pollution in the coastal waters (on going)	Nil
Project Head-II		
13	Strengthening updation & maintenance of laboratories	7.00
14	Annual maintenance conduct of instrument	1.00
15	Annual maintenance of vehicles	0.50
16	Rent Lab Office	10.0
Project Head-IV		
17	Registration fees for attending the training programme organizing of training programme	0.50
Project Head-V(A)		
18	Purchase of new computes with Pentium-IV including one printer	0.50
19	Miscellaneous expenditure for upgradation of existing computers	1.00
Project Head-V(B)		
20	Development of Library	0.50
Project Head-VI		
21	ESS Programmes/Public complaint investigation	3.00
Project Head-VIII		
22	Creation of Mass Awareness	0.50
23	Hazardous Waste/ Reprocessing Units in the region & Inventorisation-Crosschecking	2.00
TOTAL		38.09