

GUJARAT POLLUTION CONTROL BOARD



ANNUAL ACTION PLAN 2008-09

**PARYAVARN BHAVAN
SECTOR 10-A
GANDHINAGAR**

| Sr. No. | ITEM | ACTIVITY | TIME FRAME | TARGET | RESPONSIBLE OFFICIALS | FINANCIAL OUTLAY Rs. In Lakhs. | Remark |
|-----------|---|---|---|---|---|--------------------------------|--------|
| 01 | Monitoring of HAPs,POPs,PIPs,HIPs,VOCs | | | | | | |
| 1.1 | HAPs standards which are not identified | <p>(a) Preparatory work</p> <ul style="list-style-type: none"> To identify all HAPs pertinent to Gujarat State To seek the standards & methods for the above from CPCB as available To find out & evaluate the Standards of HAPs which have been yet not covered by CPCB, from EPA,ASTM etc & then recommend them to CPCB for notification including the methods of monitoring and testing of HAPs from source as well as from Environmental body (Ambient Air) | <p>August-2008</p> <p>October-2008</p> <p>December-08</p> | <ul style="list-style-type: none"> To make field study and literature survey. Procurement of the methods and standards from CPCB Procurement of the methods & standards from EPA, ASTM etc. To send the selected standards & methods for consideration and notification to CPCB | <p>Dr. G.K Trivedi</p> <p>Shri K.B.Vaghela</p> <p>Shri R.B.Solanki</p> <p>Mrs. J.B.Pandya</p> | 1.00 | |

| Sr. No. | ITEM | ACTIVITY | TIME FRAME | TARGET | RESPONSIBLE OFFICIALS | FINANCIAL OUTLAY Rs. In Lakhs. | Remarks |
|---------|------|---|----------------------|---|--|--------------------------------|---------|
| | | <p>(b) Training & Instrumentation</p> <p>1. Training</p> <p>In this first phase, which is for year 2008-09, first of all to provide training for the HAPs parameters for which the standards & methods are available readily from CPCB. This training may be imparted to selected scientists working in the field and Laboratory both in house by calling experts and abroad for difficult parameters. Training can also be imparted as a part of package with the principal to whom we place the purchase cum O&M order of the instruments as required.</p> <p>2. Instrumentation</p> <p>By the time the training is set off, the instruments are to be procured for field and Laboratory (Monitoring & Analysis) which are essential for the HAPs parameters which have been so far covered by CPCB. The instruments have to be procured from the World Brand Standard makes from the respective manufacturers / principals and/ or from their Authorized Dealers in India, even on a single offer, without tendering, on their current pricelist but by following due procedure(as may be done by CPCB/MoEF)</p> | <p>February-2009</p> | <ul style="list-style-type: none"> To provide training to at least two scientists from each Lab. | <p>Dr. G.K Trivedi Shri K.B.Vaghela Shri R.B.Solanki Mrs. J.B.Pandya & Shri M.S.Shukla (E.E.- Store)</p> | <p>1.00</p> | |
| | | <p>By the time the training is set off, the instruments are to be procured for field and Laboratory (Monitoring & Analysis) which are essential for the HAPs parameters which have been so far covered by CPCB. The instruments have to be procured from the World Brand Standard makes from the respective manufacturers / principals and/ or from their Authorized Dealers in India, even on a single offer, without tendering, on their current pricelist but by following due procedure(as may be done by CPCB/MoEF)</p> | <p>February-2009</p> | <ul style="list-style-type: none"> Procurement of all the advanced instruments of world renowned Brands. This is in particular to the purpose that it can enable us to make fingerprinting and chemical profiling of the contents of the waste in terms of HAPs, POPs, PIPs, HIPs, VOCs etc. | <p>Dr. G.K Trivedi Shri K.B.Vaghela Shri R.B.Solanki Mrs. J.B.Pandya & Shri M.S.Shukla (E.E.- Store)</p> | <p>500.00</p> | |

| Sr. No. | ITEM | ACTIVITY | TIME FRAME | TARGET | RESPONSIBLE OFFICIALS | FINANCIAL OUTLAY Rs. In Lakhs. | Remarks |
|---------|---|--|---|---|--|--------------------------------|---------|
| 1.2 | To develop Advanced Analytical Laboratory for trace organic & Inorganic pollutants e.g. HAPs, POPs, PIPs, and HIPs at Central Laboratory, Gandhinagar | <p>(a) To develop Infrastructure facilities including space, structure, construction, furniture, electrification, utilities-Gas, Water, & Ventilation etc.</p> <p>(b) To procure the necessary instruments from the World renowned Brands after finalizing the required specifications for the parameters other than HAPs, POPs, PIPs, and HIPs e.g.</p> <p>(1) Organic (Dyes, Drugs, Pesticides etc) Intermediates and their residues</p> <p>(2) Inorganic residues in particular Heavy Metals, Toxic Elements etc.</p> | <p>October 2008</p> <p>March - 2009</p> | <ul style="list-style-type: none"> To restructure the Lab. Housing & Building To procure the instruments on the line of 1.1 (b) - 2 | <p>Dr. G.K Trivedi Shri K.B.Vaghela Shri R.B.Solanki Mrs. J.B.Pandya & Shri M.S.Shukla (E.E.- Store)</p> | <p>50.00</p> <p>200.00</p> | |

| Sr. No. | ITEM | ACTIVITY | TIME FRAME | TARGET | RESPONSIBLE OFFICIALS | FINANCIAL OUTLAY Rs. In Lakhs. | Remarks |
|---------|------------------------------------|--|---|---|--|--------------------------------|---------|
| 1.3 | NABL accreditation of Central Lab. | <p>(a) To strengthen the infrastructure & instrumental facilities of Central Lab upto NABL level.</p> <p>(b) To apply for NABL accreditation and follow-up.</p> <p>(c) Inspection by NABL / Institute authorized by NABL.</p> <p>(d) Compliance based on the inspection.</p> <p>(e) Final preparation to achieve the required level of the Lab for NABL.</p> <p>(f) To get NABL accreditation.</p> | <p>June-08</p> <p>July-08</p> <p>Aug - 08</p> <p>Sept - 08</p> <p>Nov - 2009</p> <p>Jan -09</p> | <p>•To renovate the Lab & the facilities and also procure certain new items as necessary.</p> <p>•To follow up & co-ordinate the actions with NABL & Standard Authorized Labs</p> | <p>Dr. G.K Trivedi Shri K.B.Vaghela Shri R.B.Solanki Mrs. J.B.Pandya & Shri M.S.Shukla (E.E.- Store)</p> | 50.00 | |

| Sr. No | ITEM | ACTIVITY | TIME FRAME | TARGET | RESPONSIBLE OFFICER | FINANCIAL OUTLAY In lakhs | Remarks |
|--------|---|--|--|--|--|---------------------------|---------|
| 2.0 | Action plan for Mitigating Pollution in identified River Stretches | | | | | | |
| 2.1 | Pollution Control and Mitigation of Rivers, lakes | <p>2.1.1 Review of all the permissions granted to dispose trade effluent, sewage into rivers/lakes in the state</p> <p>a) Improvement of quality of water of the rivers/stretches/lakes & its comparison with previous year</p> <p>b) To ensure that there is no domestic waste water discharge from UT/Vapi area into GIDC weir (1)Identification of outlets in each river (2)To ensure there is no industrial / domestic waste water disposal in to the river</p> | <p>June 08</p> <p>Aug-08 to March-09</p> <p>Regular meeting with UT officials and Zonal office, CP CB and monitoring</p> | <p>Rivers – Ambika, Khari, shedhi, Tapi, Amlakhadi, kola k, Par, Auranga, Purna, Narmada, Vatruk Sabarmati, Bhadar, Damanganga, Mindhola, Mahi Dhadhar Lake- Kankaria, Sursagar, Ranmal</p> <p>Quarterly meeting at C & MS level</p> | <p>Officials from RO to sit down with DEE in H.O. unit and then finalize in consult with RO/UH</p> <p>Officials of RO/Unit at H.O.</p> <p>RO,Vapi/UH-Vapi/ZO,CP CB</p> | Nil | |
| | | <p>2.1.2CETP upgradation/Performance</p> <p>(a) Performance studies of CETPs</p> <p>b) To get time bound programme from all CETP for upgradation work.</p> <p>(c) Monitoring of up gradation work all CETP</p> | <p>May 08</p> <p>June 08(All which have been left out in previous year)</p> <p>June06 to March09</p> | All CETP | All R.O & Unit Head | -- | |

| Sr. No | ITEM | ACTIVITY | TIME FRAME | TARGET | RESPONSIBLE OFFICER | FINANCIAL OUTLAY in lacs | Remarks |
|--------|------|--|--|--|--|--------------------------|-------------------------------|
| 2.2 | | 2.2.1 Monitoring of Coastal Water Surrounding of outfall of disposal pipeline with respect to NIO Report. | March-09 | All outfall of disposal pipeline into the sea | Concern ROs/UH | 3 lacs | |
| | | 2.2.2 Provision of water meter on bore well line of all water intensive Industrial units. | May08 To March09 | All concerned Industries. Review every month by RO/UH. Quarterly by MS | All R.O & Unit Head | -- | |
| 2.3 | | Review of all permission granted to solvent distillation industries. | May 08 to July 08 | All Solvent distillation Industries. | Officials from RO & Unit alongwith HW unit | --- | |
| 2.4 | | 2.4.1) Installation of sewage treatment plants in all Municipal corporations and all ULBs | Get time bound programme by June-08 from Municipal corporation and Nagarpalikas. | For this meeting of all CEOs with Director Municipalities under Chairmanship of Chairman, GPCB every two month may be called | All ROs/ UHs | ---- | As per scheme approved by GOG |
| | | 2.4.2) Installation of two low cost STP with water cess fund for Ahmedabad & Mehsana | March-09 | Visnagar in Mehsana & Viramgam in Ahmedabad | RO,Ahmedabad/Mehsana/ Unit-1 | | |
| | | 2.4.3) Installation of two low cost STP with DoEF fund . | March-09 | Limdi in Surendranagar & Kalol in Panchmahal | RO,Rajkot/Godhra/Unit-1 | | |

| Sr. No | ITEM | ACTIVITY | TIME FRAME | TARGET | RESPONSIBLE OFFICER | FINANCIAL OUTLAY in Lacs | Remarks |
|------------|---|---|--|---|---|---|---------|
| 03 | Implementing Air Pollution Control Action Plan in Ahmedabad and six non attainment cities as well as newly identified pockets of states | | | | | | |
| 3.1 | 3.1.1 Ensuring strict compliance of emission norms by all units having air pollution potential for Ahmedabad, 7 Non attainment cities, Morbi, Wankaner and Gandhidham | <p>a) Obtaining time bound programme from industries to switch over cleaner fuel and improved APCM by December -08. Continuous monitoring and vigorous implementation of Air Action Plan for Ahmedabad and other 7 non attainment cities.</p> <p>b) Implementation of area specific Air Action Plan</p> <p>c) Air pollution monitoring through Industrial Association</p> <p>d) Making stringent standards for P.M. in the emission from industries to prevent spread of colored dusting.</p> | <p>March-08</p> <p>April-08 to March-09</p> <p>Review all monitoring and upgrade Action plan accordingly</p> <p>Dec-08</p> | <p>Large and medium scale industries</p> <p>Ahmedabad/ Vadodara/ Surat/Rajkot/ Ankleshwar/ Vapi/Morbi/Wankaner</p> <p>All industrial Estate</p> <p>ALL Concern industries</p> | <p>Respective ROs and Unit Heads</p> <p>All RO/UH</p> <p>All RO/UH</p> <p>Unit head Ahmedabad</p> | <p>On going activities</p> <p>110 Lacs</p> <p>---</p> | |
| 3.2 | 3.2.2 Implementation of area specific Air Action Plan | Put up action plan for Implementation | April-08 to March-09 | Vapi/Morbi/ Wankaner | All RO/UH | | |

| Sr. No | ITEM | ACTIVITY | TIME FRAME | TARGET | RESPONSIBLE OFFICER | FINANCIAL OUTLAY IN LAKHS | Remarks | |
|-----------|---|--|--|---|--|-----------------------------------|---------|--|
| 3.3 | Operation of AAQM stations and Introducing online Air quality monitoring | a. Providing & Networking of CAAQM station b. Introduction of Measurement of PM _{2.5} in Ahmedabad, Vadodara and Ankleshwar. | Continuous activity Oct-08 | a. Ahmedabad b. Ahmedabad, Vadodara, Ankleshwar Surat | a. All ROs, b. Dr. G K Trivedi | 110 Lakhs 60 Lakhs | | |
| 3.4 | Collect and Disseminate Information relating to air pollution | Studies on Health impact of air pollution | May-2008 | Follow up actions of recommendations | a. Shri G.H. Trivedi & Relevant agency | With the help of Industries Dept. | | |
| 3.5 | Source Apportionment Studies for Ahmedabad | a. Ahmedabad city Source Apportionment Study | Start by June-08 | --- | Dr. G. K. Trivedi Shri G. H. Trivedi with IIT, Bombay/NERI/LDCE/CEPT | 100 Lakhs | | |
| 04 | Action Plan for Solid Waste Plan | | | | | | | |
| 4.1 | 4.1.1) Remediation of dumping sites for MSW 4.1.2) Development of MSW Disposal sites for MC/NP | (A)EIA study/evaluation of existing dumps sites. (B)Proper disposal of existing dump as per provision in the HWM rules-89.If dumps are non hazardous, containment on site will be carried out by municipal corporation / municipalities 4.1.1) Coordination with GUDCL to expedite the development of cluster landfill sites. 4.1.2) Coordination with GUDCL to expedite Compost plant at each NP 4.1.3 Development of new landfill site | March-09 March -09 March-09 Oct--09 March-09 | All Municipal corporations All municipal corporation / municipality / operator off site once in every three months All municipal corporation / municipality All municipal corporation / municipality Rajkot/Jamnagar/Bhavnagar/Vadodara/Jamnagar | All ROs/UHs All RO/Unit-1 Concern RO/Unit-1 | ----- | | |

| Sr. No | ITEM | ACTIVITY | TIME FRAME | TARGET | RESPONSIBLE OFFICER | FINANCIAL OUTLAY | Remarks |
|--------|---|---|--|--|---|---------------------|---------|
| 5.1 | Restoration of contaminated Haz. Waste sites | Monitoring of dump sites including ground water and Ambient Air Quality, (Information Compilation) | Sept.-08 | -Pre, post and during monsoon period to ensure that leaching does not take place. | All ROs and Haz Unit at HO (R. P. Gupta) | On going activities | |
| 5.4 | Secure better waste management - Hazardous Waste Management | <p>5.4.1) Implementation of CPCB guideline for all TSDF</p> <p>5.4.2) Setting up of additional facilities at all TSDF</p> <p>5.4.3) Inventorisation of recyclable hazardous waste</p> <p>5.4.4) Tracking of Hazardous Waste by review of Manifest system</p> <p>5.4.5) Setting up of TSDF in Kutch area</p> | <p>Every month at least twice the monitoring must be done</p> <p>By March-09</p> <p>Sept2008</p> <p>Ongoing</p> <p>Dec2008</p> | <p>Compliance of 27 points of TSDF AND CPCB guidelines for common incinerator. Setting up following facilities for solidification /stabilization facility at all TSDF,</p> <p>Minimization of disposable waste by adopting method of reuse, recycle & co-incineration etc.</p> <p>All concern Industries</p> <p>To start construction of TSDF after getting EC and notification under Rule 8(7) of HW2003 from state Govt.</p> | <p>All ROs / Haz unit at HO</p> <p>Must obtain time bound programme from all TSDF operators.</p> <p>All ROs/Haz. Waste unit</p> | On going activities | |

| Sr. No | ITEM | ACTIVITY | TIME FRAME | TARGET | RESPONSIBLE OFFICER | FINANCIAL OUTLAY | Remarks |
|--------|--|--|--|---|---|--|---------|
| 5.5 | <p>5.5.1 Performance studies of CBMWTF</p> <p>5.5.2) Up gradation of common biomedical waste treatment facilities (CBWTFs)</p> | <p>To cover all health care units providing treatment services to more than 1000patients per month and streamlining operation of all CBWTFs..</p> <p>Developing intermediate technology for deep burial system for remote area.</p> | <p>Oct-2008</p> <p>Dec2008</p> | <p>All exiting CBWTFs facilities as per CPCB guidelines on urgent basis.</p> | <p>Shri S M Jha BMW unit at HO and All Regional Officers</p> | <p>--</p> <p>--</p> | |
| | <p>5.5.3 Implementation of Plastic manufacturing, sale & usage Rules</p> | <p>5.5.3.1 Inventorisation of plastic carry bags & containers manufacturing units</p> <p>5.5.3.2 Registration under said Rules</p> <p>5.5.3.3 Inventorisation of recycling/reprocessing of plastic waste units & product manufacturing.</p> | <p>May2008</p> <p>Sept-2008</p> <p>May2008</p> | | <p>Shri S M Jha BMW unit at HO and All Regional Officers</p> | | |
| 06 | Introduce Innovative Methods For Pollution Prevention & Control | | | | | | |
| 6.1 | Creation of Waste Exchange Centre | <p>The Industries Associations will organize, setup and operate the waste exchange centers, wherein industries will be involved as participator, operator and regulator.</p> <p>Identification / Inventorisation of the units generating various waste, process stream and other wastes and its potential for reuse in different industrial sectors.</p> | Oct-08 | <p>In the first phase, Waste Exchange Centre will be established in Vapi & Ankleshwar, for following three categories of industrial sector</p> <p>1. Dyes & Dye</p> <p>Intermediates</p> <p>2. Bulk Drugs and</p> <p>Pharmaceuticals</p> <p>3. Pesticides</p> | <p>Shri A A Dolti Shri J R Mehta and Concerned RO of Bharuch / Vapi</p> | <p>Workshop/ Seminar 2 Lakhs</p> <p>On going</p> | |

| Sr. No | ITEM | ACTIVITY | TIME FRAME | TARGET | RESPONSIBLE OFFICER | FINANCIAL OUTLAY in lacs | Remarks |
|--------|---|--|--|---|--|--------------------------|---------|
| 7.0 | Institutional Change | | | | | | |
| 7.1 | Strengthening of GPCB and Restructuring | 7.1.1 Recruitment of and training of staff (1) All existing vacant post shall be filled up. (2) Training of existing staff (3) Training of new staff | May-08 March-09 Dec-08 | Training regarding Environmental legislations, Monitoring & processing aspect, preparation of report from studies conducted | Shri B.P.Shah/ Shri D M Parmar ADM | --- | |
| 7.2 | e-governance | Receiving on line CCA, CTE applications, processing & conveyance of final order 1). Building database 2). Expanding database 3). Online application CFE/CFO 4). On line processing CFE/CFO 5). Online issue of CFE/CFO | May-08 June-08 July-08 Oct-08 Dec-08 | All ROs/HO | All UH/ROs | | |

| Sr. No | ITEM | ACTIVITY | TIME FRAME | TARGET | RESPONSIBLE OFFICER | FINANCIAL OUTLAY in lacs | Remarks |
|--------|---------------------------------|--|---|---|--|--------------------------|---------|
| 7.3 | | <p>Laboratory Infrastructure development State of art laboratory to be equipped for microanalysis.</p> <p>Mobile Laboratory</p> <p>Full fledged laboratory at each Regional Office.</p> <p>Up gradation of laboratory analytical capability of GPCB</p> <p>Strengthening of vigilance team.</p> <p>Monitoring staff with latest monitoring equipments and personal protective equipments.</p> | <p>Dec-08</p> <p>Dec-08</p> <p>Mar-09</p> <p>Dec-08</p> <p>May08</p> <p>Dec08</p> | <p>Bhavnagar/ Godhra/ Ahmedabad</p> <p>All ROs</p> | <p>Dr G K Trivedi/RO</p> <p>Head central lab</p> | | |
| 7.4 | Special Environmental Planning | <p>Preparation of district Environment Act on 1:25000 scale for entire Gujarat</p> <p>7.4.1) preparation</p> <p>7.4.2) Validation</p> <p>7.4.3) Use</p> | <p>July08</p> <p>Oct08</p> <p>Nov08</p> | | Unit-1 | 15lacs | |
| 7.5 | New building with all amenities | <p>(1) New office building at HO,Gandhinagar</p> <p>(2) New office building at Bhavnagar</p> <p>(3) New office building at Godhra</p> | March 2009 | ROs at Bhavnagar and Godhra must submit time bound plan | Store Branch | | |
| 7.6 | New Regional office | New office in Kutch District | March 2009 | | Administration branch/ Store branch | | |

| Sr. No | ITEM | ACTIVITY | TIME FRAME | TARGET | RESPONSIBLE OFFICER | FINANCIAL OUTLAY | Remarks |
|--------|--|--|----------------------------|---|---|------------------|---------|
| 8 | Assessment of ground water quality | Monitoring and Assessment of ground water quality around Chemical Industrial Estates | September 2008 | Through all GIDC | RO/UH | 5 lacs | |
| 9 | Private participation in the management of Continuous Ambient Air Quality Monitoring Station | Pilot project for involving private participation in the management of Continuous Ambient Air Quality Monitoring Station | Dec 2008 | Ahmedabad/ Vadodara/ Surat/ Rajkot/Ankleshwar/ Vapi/ Morbi- Wankaner | RO/UH Through private companies/ Institutions | | |
| 10 | Control of odour substance | Control of offensive odour substance with specific reference to selected industrial process (1)Major causes of odour. (2) Type of odour (3)Obtaining time bound programme (4) Implementation | April 2008 Dec 2008 | Sector of Industries (1) Pesticide and Distilleries, Bharuch Region (2)Onion Dehydration Units, Mahuva / Gondal (3)Bulk Drug(Uni Mark),Ahmedabad (4)Pesticides/ Bulk Drugs Industries, Vapi (5) Bone Mills, Godhra | All ROs/UH | 2lacs | |
| 11 | Ground water quality around TSDFs and CETPs | 13.1) Studies of ground water quality around TSDF and CETPs 13.2)Comparison of data for Premonsoon, post monsoon | Dec 2008 | All TSDFs/CETPs | All ROs/UH | 6 lacs | |

| Sr. No | ITEM | ACTIVITY | TIME FRAME | TARGET | RESPONSIBLE OFFICER | FINANCIAL OUTLAY | Remarks |
|--------|---|--|--|--|----------------------------|------------------|---------|
| 12 | Noise pollution control | Noise pollution monitoring of Navratri and Deepawali/Mall/Multiplex/Cooling tower/ Traffic and draw separate action plan | Monitoring through out year | Mall/Multiplex/Cooling tower/Traffic/DG Sets / Navratri and Deepawali/ | All ROs /Shri S.M.Zha | --- | |
| 13 | Cleaner Production & Cleaner Technology | Adoption of cleaner Production & Cleaner Technology in major industrial sectors, like Textile & Dyes/Intermediates. | Sector wise plan (1) Seminar (2)Implementation through action plan | All concern industries | All ROs/UH | --- | |
| 14 | Disposal facility for effluent | Creation of Disposal facility for effluent from industrial units in the newly industrialized & land locked areas of Sarkhej – Changodar – Bavla region (Where the soak pit / septic tanks have not been effective because of high water table & low soil permeability) | March2009 | Industrial Association | RO,Ahmedabad/ UH Ahmedabad | ---- | |