

## **ACTION PLAN OF AHMEDABAD CLUSTER**

<b>Sr No</b>	<b>Activity</b>	<b>Issue</b>	<b>Action</b>	<b>Implementing Agency</b>	<b>Time limit</b>	<b>Financial implication &amp; outlay</b>
<b>WATER</b>						
1	Standard flow meter and flow recorder at final outlet of ETP & CETP.	To control overflowing of mega pipeline, it is necessary to control the discharge of excessive quantity of w/w from the industrial units (i.e. the w/w discharge should be as per CCA condition). To check the quantity of w/w being discharged it is proposed that in the 1st phase the units having effluent quantity > 100m <sup>3</sup> /day and all CETPs should provide standard Flow Meter at the final outlet. Flow recorder is necessary to know the cumulative flow during any period.	Identification of units having effluent quantity > 100 KLD.	GPCB, Concerned industries, CETP, Industrial Association	Already identified & verification by 15.07.2010	To be borne by the concerned industry. Association may assist individual units
			Industrial Association will issue the circular to their members to provide the standard flow meter. GPCB will also issue notice to such units.	Concerned industries, CETP, Industrial Association, GPCB	31.7.2010	
			Standard flow meter required to install at final outlet of ETP by large scale units effluent quantity > 100 KLD and CETP.	Concerned industries, CETP	31.10.2010	

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2	Water consumption from non permitted sources (eg. Borewell, tanker etc.) or more than permitted quantity	It is observed that many industrial units have no proper control over water consumption which not only increase the overall w/w generation but also tends to w/w disposal mismanagement. There-fore, it is necessary to direct unit to restrict water consumption as per the quantity mentioned in CCA application and to also to direct GIDC to seal the non permitted bore wells.	Identification of source of water i.e. tanker, bore well etc. for its authenticity.	Concerned industries, Industrial Association, GIDC , GPCB	31.8.2010	-
			Issue direction to stop the unauthorized use of water by the industries.	Concerned industries, Industrial Association, GIDC , GPCB	31.10.2010	
			Direction to seal the non permitted bore well, tankers	GIDC/ Concern agency	31.12.2010	
3	Sealing of unauthorized discharge other than regular discharge of effluents.	All industrial units shall be directed to operate only one outlet through flow meter for effluent disposal so that unauthorized discharge can be	Concern authority will be asked to identify unauthorized outlet.	Concerned industries, Industrial Association, GIDC, GPCB.	Ongoing process and will be made more vigorous	Expenses, if any, to be borne by the unit having unauthorized outlet.

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		checked. The Concerned authority shall disconnect / seal such unauthorized discharge.	All industrial units will be asked to submit notarized undertaking to GPCB with a copy to respective association stating that there is no unauthorized outlet.	Concerned industries	31.8.2010	
4	Zero discharge units – not to have Drainage connection or any outside discharge.	GIDC/ AMC shall be asked to disconnect the drainage connection (if any) to the industrial units which are issued CCA with zero discharge condition. Careful monitoring shall be carried out to avoid any illegal discharge.	<p>Inventorisation of the units having consent under Water Act for zero discharge.</p> <p>Review the condition specifically for multi products/ H- acid, VS manufacturing units.</p>	<p>Industrial Association, GPCB</p> <p>GPCB</p>	<p>31.7.2010</p> <p>31.12.2010</p>	Expense to be borne by the defaulter unit.

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			Drainage connection to be disconnected of zero discharge units and certified by GIDC/AMC and checked by GPCB.	Concerned industries, Industrial Association, GIDC, GPCB.	31.12.2010	
			All zero discharge units will be asked to submit notarized undertaking to GPCB with a copy to respective association stating that there is no unauthorized outlet and observing zero discharge.	Concerned industries	30.9.2010	

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5	Identification of unauthorized connection to GIDC drainage line OR Mega pipeline	Intensive monitoring shall be carried out of the units, which are located on the bank / adjacent to mega pipeline / kharicut canal.	Unauthorized connection in drainage line to be checked and disconnected by competent authority and verified by GPCB.	AMC, GIDC, Industrial Association, GPCB	Ongoing process	Expense to be borne by the defaulter unit.
6	Identification of non-biodegradable effluent	For better treatability at ETP/ CETP, units having non-biodegradable effluent shall be identified and shall be directed to segregate the said stream and to install appropriate and effective treatment units like multiple effect evaporator, RO system, incinerator etc	Identification of the streams having Non-biodegradable effluent containing refractory COD, toxicants like Ammonical Nitrogen where treatability not possible.	Concerned industries, Industrial Association, CETP, GPCB	31.8.2010	Common incinerator may be installed for non-biodegradable effluent Cost may be worked out by respective association on PPP mode within one year.

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			The units manufacturing pesticides, dyes intermediates, bulk drugs will be asked to study their present treatability of effluent and accordingly segregate non-biodegradable streams.	Concerned industries	31.12.2010	
			A time bound action plan required to be submitted to install multiple effect evaporator/RO system/ Incinerator System/ New technology including cleaner production and cleaner technology by concerned industries.	Concerned industries	30.11.2010	

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			Commissioning of above proposal	Concerned industries	31.3..2011	
7	Reduction of pollution load on CETP & upgradation of CETP	It is observed that CETP inlet and outlet norms are not meeting with the prescribed norms.	Based on the data available review the present inlet norms of the CETP for the units generating effluent more than 25 KLD. Stringent the inlet norms of the same.	GPCB,	31.7.2010	PPP mode
	CETP authority shall study their treatability of effluent from prominent agency.	CETP authority	30.9.2010			
The performance evaluation of CETP indicates quality of effluent discharge is not as per the specified norms, which clearly indicates the CETP requires up gradation/modification	Based on the recommendation of agency, CETP authority shall upgrade CETP.	CETP authority	31.03.2011			

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8	Checking of illegal discharge of Acidic/ highly polluted effluent	Units manufacturing dye-intermediates are generating spent acid of low concentration which is required to manage properly. Necessary directions shall be issued to the spent acid generating as well as acid using industrial units to become member of NOVEL for proper management of spent acid	Movement of spent acid shall be regularized by single point purchase system. Acidic/ highly polluted effluent which is discharged illegally to be checked by GPCB as well as Industrial Association on routine basis	NOVEL, Industrial Association, GPCB	Ongoing process	-
9	To stop tray drying and salting process	Generation of high TDS stream wastewater, which disturb the functioning of the CETP.	Identification of the unit having tray drying and salting process	Concerned industrial units, GPCB	30.9.2010	-
			Setting up of common spray drying facility or identification of spare capacity with existing spray dryer	CETP, VIA	31.3.2011	



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			Complete phase out of tray drying and salting process	Concerned industries	30.6.2011	
10	Upgradation of drainage system	CETP receives partially treated w/w through drainage. Hence frequent problems of drainage chocking are observed resulting into overflow of manholes/ seepage etc. concerned agency for the drainage shall be directed for proper maintenance	Foolproof mechanism for regular monitoring, cleaning and maintenance is required by concerned authority.	INDUSTRIAL ASSOCIATION, GIDC, AMC		Scheme in this regards may be prepared by the concerned authority for financial help under the government policy, if any.
11	To study impact on health within and surrounding population	Probable health risk within and vicinity of 2 kms from the cluster.	To carryout health impact assessment study	Concern industrial Association through NIOH/DISH	31.12.2010	PPP Mode

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1	Strengthening of air pollution control measures	Air Action Plan for Ahmedabad City is under implementation. The industrial units shall be directed to upgrade APCM to meet the amended Ambient Air Quality Norms.	Industrial units consuming solid fuel like coal, agro waste, etc. required to upgrade air pollution control system by installing bag filters so that ambient air in the nearby area meet with the revised norms of PM.	Concerned industries, GPCB	30.09.2010.	To be borne by the concerned industry. Association may assist individual units
			Air pollution control system attached to process is required to be checked for adequacy and if needed upgrade the same by adopting efficient absorbing media.	Concerned industries, GPCB	30.09.2010.	

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			Total 102 Bag filters & 6 ESPs had been installed by the industries as APCM. Modification & upgradation of installed Bag filters and ESP.	Prominent agency	31.12.2010	concerned industries
2	Adoption of cleaner fuel	Gas infrastructure agency has created an infrastructure for industrial gas supply. The industrial units shall be asked to convert their boilers for gas usage.	Industrial units using solid fuel shall be required to adopt cleaner fuel wherever it is feasible considering availability of gas and economics. However, there are constraints like assured supply, adequate supply, high prices and competition in market etc.	Concerned industries, Gas Company, GPCB	Reasonable	

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3	Plantation in the industrial estate	Concerned authority shall be asked to provide adequate green belt in the periphery as well as wherever possible within the estate.	Considering the present plantation as baseline datum, five years plan for plantation of industrial estate to be submitted by the GIDC/ Association in consultation with Forest department.	Industrial Association, GIDC, Forest dept.	30.09.2010	
4	Restriction on using unauthorized fuel.	Use of unauthorized fuel like petcock, shall be stopped. The industrial units shall be directed to use the fuel as per the consented condition	Industrial units shall use authorized fuel as consented and shall not use any unauthorized fuel.	Concerned industries, GPCB	31.12.2010	

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5	Control of fugitive emissions.	It is observed that fuel handling, chemical storage and processes including pickling are the major source of fugitive emission. Hence the industrial units shall be directed to adopt good housekeeping practices.	Good practices like cleaner production and cleaner technology to be adopted in fuel handling, process control in close system and house keeping	Concerned industries.	30.09.2010	concerned industry
6	Ambient Air Quality Monitoring	Concerned agency shall be asked to operate the existing AAQMS regularly and also to increase the nos. of stations.	Existing AAQMS to be strengthened to monitor AAQ as per new notification. New AAQMS shall be installed. Installation of continuous ambient air monitoring station.	GPCB, Industrial Association	31.12.2010	
iii	<b>Hazardous Waste</b>					

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1	Checking of illegal transportation and dumping of Hazardous waste	TSDF operators/Industries Association shall be asked to keep vigil on their member units regarding timely and regular disposal of HAZ wastes	Vigil check required to be kept on illegal transportation and dumping of hazardous waste.	Individual industries, CETP, NGO Industrial Association, GPCB	On going process	Concerned unit and recycler unit.
2	CPCB guidelines for TSDF are to be strictly followed	TSDF guidelines for waste quantity at site, sheds for different wastes, fire fighting facility working of incineration, etc. are not properly observed.	TSDF operator will comply with these requirements.	Concerned TSDF	31-08-2010	Concerned TSDF
3.	Adoption of 4-Rs (Reduce, Recover, Reuse, Recycle)	It is required to adopt 4-Rs for better management of Hazardous waste and co-incineration of incinerable hazardous waste in cement kiln.	Inventorisation of the various solid/ Hazardous waste generated from the industries	GPCB, Concern industries, Industrial Association, Gujarat Cleaner Productivity Council	31.12.2010	
			Creation of waste exchange center inline with Novel Spent Acid System	Concern industries, Industrial Association	30.6.2011	

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3	Capacity Upgradation of Existing TSDF	It is observed that TSDF is about to reach their design capacity. therefore, it is required to expand their design capacity	TSDF authority may be asked to work out for the remaining life of existing TSDF and identification of new site / new cell in existing facility as per requirement.	Concerned TSDF	31.12.2010	TSDF authority may approach the Ministry of Industry for Upgradation of TSDF under various schemes

