

Action plan for Chitra GIDC

Sr No	Activity	Issue	Action	Implementing Agency	Time limit	Financial implication & outlay
WATER						
1.	Standard flow meter at final outlet of ETP	<p>To control overflowing of CIA pipeline in future, it is necessary to control the discharge of excessive quantity of wastewater from the industrial units.</p> <p>It is necessary to have metering system consisting of Standard Flow Meter at the final outlet for industries having discharge more than 25 m³/day.</p>	<p>Identification of units having effluent quantity more than 25 m³/day.</p> <p>Industrial Association will issue the circular to their member to provide the Standard flow meter.</p>	<p>GPCB, Concerned industries, CIA</p> <p>Concerned industries, CIA</p>	<p>Already identified & verified.</p> <p>Identified three industries have already provided the flow meter.</p>	<p>Complied by individual industries</p>

2.	Identification of users dependent on water supply other than GIDC/ BMC i.e. bore well, tanker supply.	With a view to conserve the water, reducing wastewater generation and preventing disposal mismanagement; it is necessary to restrict water consumption from sources other than regular supply of GIDC/ BMC.	Identification of source of water i.e. tanker, bore well etc. for its authenticity.	Concerned industries, CIA, GIDC, GPCB	31.8.2010	
			Direction to restrict the use of sources that are not permitted like; bore well and tankers	Concerned industries, CIA, GIDC, GPCB	31.8.2010	
3.	Collection and conveyance of effluent in to environmentally safe manner	Earlier effluent was discharged through underground drainage and surface drain having operational problems as well, which is ultimate disposal in to creek. Presently due to ongoing work of conveyance, treatment and disposal	All industries are required to be covered under the on going effluent conveyance, treatment and disposal scheme	Concerned industries, CIA, GIDC, BMC	31.10.2010	

		scheme, effluent is being diverted through surface drain having ultimate disposal in to creek.	Zero industrial discharge unit should not be given connection for discharge of industrial effluent	Concerned industries, CIA, GIDC, BMC	31.10.2010	
			All industrial units shall be directed to operate only one outlet through flow meter for effluent disposal so that unauthorized discharge can be checked	Concerned industries, CIA, GIDC, BMC	31.10.2010	

4.	Identification of unauthorized connection to CIA drainage line OR BMC	Unauthorized connection in drainage line to be checked and disconnected.	Intensive monitoring needs to be carried out and verification needs to be done frequently.	CIA, GIDC, BMC, GPCB	Ongoing process after commissioning of pipeline.	
5.	Sampling point should be easily approachable to enable regulatory authority for drawing sample of discharge effluent.	To have better environment monitoring system in place it is necessary to have proper effluent sampling system.	All industries are required to provide appropriate sampling chamber/point in the frontal premises of the industries before connecting to the underground drainage under implementation.	Individual industries, CIA, GPCB	30.9.2010 (Prior to commissioning of underground drainage system.)	

6.	Monitoring of quality of effluent at outlets and point of confluences	To check the effectiveness of pollutants released in to the environment it is necessary to have proper monitoring mechanism in place.	Identification of sampling points <ul style="list-style-type: none"> • Before mixing of city sewage • After mixing with city sewage • Final outlet of system at disposal point 	GPCB, CIA	Sampling points already identified.	
			Initiating sampling once in a month from identified locations.	GPCB	Sampling already started.	
7.	Completion of effluent conveyance, treatment and disposal system in time frame.	Earlier this effluent was discharged through underground drainage and surface drain having ultimate disposal in to creek. Presently due to ongoing work of	Conveyance from estate to Oxidation pond.	CIA	Work under progress	
			Commissioning of Treatment Plant – Oxidation Pond	CIA	60 % work completed	

		conveyance, treatment and disposal scheme, it is diverted through surface drain having ultimate disposal in to creek.	Disposal system from Oxidation pond to final out fall as approved by NIO.	CIA	Completed	
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AIR						
1.	Upgrading of Air Pollution Control Measures (APCM)	<p>The industries either chemical industries with no chemical process emission having utility installation other than SIB, thermic fluid heaters etc. has major concern for PM, SO_x and NO_x as pollutant from flue gases.</p> <p>Bentonite based mineral processing industries has process emission from grading and grinding operations. PM is concern parameter from process emission,</p> <p>Above both needs to meet with revised AAQM norms particularly for PM 2.5, and PM10.</p>	Upgrade air pollution control system by installing/modifying suitable APCM like Cyclone, Multi-cyclone, bag filters etc.	<p>Concerned industries CIA GPCB</p> <p>(For identification of suitable APCM help of GCPC and other experts can be sought based on need by the industry)</p>	31.12.2010	To be borne by the concerned industry. Association may assist individual units

2.	Adoption of cleaner fuel and cleaner technology	Mineral processing (Bentonite) industrial units required adopting cleaner technology and process	Mineral processing (Bentonite) industrial units required adopting cleaner technology and process wherever it is feasible considering availability and economics.	Concerned industries GPCB (Help of GCPC and other experts can be sought based on need by the industry)	To start from 15.7.2010	
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 GIDC.	Area to be earmarked for the plantation in consultation with GIDC	CIA, GIDC	120,000 M ² area is already earmarked (Indicted on enclosed map).	

			Preparation of three years plan considering the present plantation as baseline datum	CIA, GIDC (In consultation with Forest department)	30.9.2010	
4.	Control of fugitive emission	Construction of paved road and maintaining Ambient Air Quality during construction phase are the major source of fugitive emission.	Monitoring the area in addition to the progress of Conveyance system followed by Paved road and Plantation	CIA	Ongoing task till completion of the work	

5.	Ambient Air Quality Monitoring	Operating the existing AAQMS regularly and also to increase the number of stations	Weekly minimum 2 sample from AAQM stations for SPM, PM, SO _x , NO _x and PM 2.5 in particular.	GPCB CIA	In Chitra AAQM for SPM, PM, SO _x , NO _x is already in progress. AAQM for PM2.5 has commissioned from 25.6.2010.	
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HAZARDOUS WASTE

1.	Checking of illegal transportation and dumping of Hazardous waste	Illegal dumping of hazardous waste posing problem of surface and ground water pollution. This is not persistent in the Chitra due to inorganic industries in the majority,	Constant vigilance require to be kept on illegal: <ul style="list-style-type: none">• Transportation• Dumping	Individual industries, CETP, CIA, GPCB (Help from RTO can be taken for transportation issue)	This is not persistent in the Chitra due to inorganic industries in the majority, However, it is on going process.	
2.	Adoption of 4-R's (Reduce, Recover, Reuse, Recycle)	It is required to adopt 4-R's for better management of Hazardous waste.	Inventorying of the various solid/ Hazardous waste generated from the industries	GPCB, Concern industries, CIA, GCPC	31.12.2010	

		Industrial units need to be trained towards cleaner fuel and cleaner technology for cleaner production.	Organizing series of workshop and seminars.	GPCB, Concern industries, CIA In consultation with GCPC/ NPC/ NCPC	Starting from 30.6.2010	
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