

CEPI ACTION PLAN

NANDESARI AND PCC CLUSTER

Sr. No	Activity	Issue	Action	Implementing Agency/ Organization	Time Frame	Financial Implication and outlay
Water and Waste Water Management						
1	Stop any discharge into storm water drains	Any suspicious discharge of industrial or domestic effluent from the industry into the storm water network leads to pollute the nearby water bodies.	<ul style="list-style-type: none"> • Identification and sealing of the outlets to storm water drain during the dry period. NIA will plug all the branch outlets so that no discharge goes to the final storm water drain discharge. • Existing mechanism to lift domestic wastewater from the GIDC storm water drain shall be augmented and entire quantity to be diverted to CETP • Large units in PCC will have sluice gates at storm water outlets which shall be kept closed in dry season 	<p>NIA, GPCB</p> <p>NIA</p> <p>PCC Units</p>	<p>Short term (Mar 20)</p> <p>Long Term (Dec 20)</p> <p>Short term (Mar 20)</p>	<p>To be borne by NIA</p> <p>To be borne by NIA</p> <p>To be borne by PCC units</p>

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			<ul style="list-style-type: none"> Provision of Hey Filter & Oil Boom in Storm water Channel to arrest emulsified / fine film from storm water 	IOCL	Short term (April 20)	To be borne by IOCL
2	Up gradation of CETP.	Presently, many industries and CETP are having only conventional treatment system along with hydrodynamic cavitation system adopted to treat the high COD effluent. However it may need the up gradation.	<ul style="list-style-type: none"> CETP shall undergo the performance study through reputed institute. The recommendations need to be implemented. 	NIA	Long term (March-2021)	To be borne by NIA
3	Management of domestic sewage	Presently due to overflow of septic tank/in absence of such facility domestic effluent observed to be disposed off outside the estate through storm drainage network which is required to be stopped.	<ul style="list-style-type: none"> Industries generating domestic sewage more than 10 KL/Day shall treat it either at STP or at ETP/CETP. 	Concerned industries of Nandesari & PCC, NIA, GPCB	Long term (Dec 20)	To be borne by Concerned industries of Nandesari & PCC, NIA

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4	Strengthening of monitoring system	Water quality of surrounding area is required to be checked periodically.	Existing sampling under various projects and routine monitoring shall be continued. In addition to that, sampling on quarterly basis be carried out with respect to the CEPI sampling locations.	GPCB	Ongoing (Nov 19 onwards)	To be borne by GPCB
Air						
1	Strengthening of air pollution control measures	Though industries using solid fuel are having required APCMs, to improve air quality in the cluster Strengthening of the APCMs will be helpful	<ul style="list-style-type: none"> • Identification of industries using solid fuel, industries with spray drier, large & medium industries using hydrodynamic cavitation for treatment of wastewater • Industries using solid fuel in boiler to install additional 	GPCB Concern Industries	Short term (April 20) Short term (June 20)	To be borne by Concern Industries

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			<p>APCM as per GPCB guidelines.</p> <ul style="list-style-type: none"> • Industries with spray drier to install additional water scrubber. • Large and medium industries using hydrodynamic cavitation for treatment of wastewater to install scrubber for control of fugitive emissions as well as to provide system for the chlorine dosage viz. rotameter. • Installation of Integrated Common Boiler Facility for the Estate. 	<p>Concern Industries</p> <p>Concern Industries</p> <p>Nandesari Eco energy Limited</p>	<p>Long term (Dec. '20)</p> <p>Long term (Dec. '20)</p> <p>Long term (Dec. '21)</p>	<p>To be borne by Concern Industries</p> <p>To be borne by Concern Industries</p> <p>To be borne by Nandesari Eco energy Limited</p>

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2	Strengthening of stack and ambient air quality continuous monitoring	Air quality is required to be checked continuously.	<ul style="list-style-type: none"> • Large and Medium scale air polluting red category industries to install CEMs (Continuous Emission Monitoring) and connect to CPCB and GPCB servers. • Eight CAAQMS (Continuous Ambient Air Quality Monitoring System) has already been installed in CPA (1 in Nandesari, 7 in PCC), which are to be connected to GPCB. • One more CAAQMS shall be installed in the downwind direction at Nandesari Estate. 	<p>Individual industries of NIA & PCC area</p> <p>NIA & PCC area</p> <p>NIA</p>	<p>Short term (June 20)</p> <p>Short term (June 20)</p> <p>Long term (Dec 20)</p>	<p>To be borne by Individual industries of NIA & PCC area</p> <p>To be borne by NIA & PCC area</p> <p>To be borne by NIA</p>
			CO analyzer to be provided for getting early indication of any leak	IOCL	Short term (Mar – 20)	To be borne by IOCL

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			and SOP to be prepared for its remedy.			
3	Control of fugitive emission	Fuel handling, chemical storage, the processes like isolation, neutralization etc. coupled with inadequate operations of APCM as well as re-suspension of dust due to vehicles movement on roads are the major sources of fugitive emission.	<ul style="list-style-type: none"> • APCM shall be provided with stand-by pumps and electricity supply back up for uninterrupted operations even during power failure. • VOC vapors from solvent handling activities and processes should be connected to air control devices. • Activated carbon adsorption may be used to achieve VOC removal efficiency of 95-98%. • Open space along the Internal GIDC Roads shall be paved and road conditions shall be 	<p>Concern Industries</p> <p>Concern Industries</p> <p>Concern Industries</p> <p>Notified area authority, NIA</p>	<p>Long term (Dec 20)</p> <p>Long term (Dec 20)</p> <p>Long term (Dec 20)</p> <p>Long term (Dec 20)</p>	<p>To be borne by Concern Industries</p> <p>To be borne by Concern Industries</p> <p>To be borne by Concern Industries</p> <p>To be borne by NIA</p>

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			<p>improved to avoid the fugitive emission.</p> <ul style="list-style-type: none"> • Detailed LDAR program is to be prepared and implemented for control of VOC/HC from the different sources like storage, pipeline conveyance, valves & pumps. 	IOCL, RIL	Short Term (April 20)	To be borne by IOCL and RIL
4	Increase of the Green cover.	<p>This industrial estate is in proximity to main railway line as well as few human settlements. Most of the individual industrial units which are small scale industries do not have enough space for plantation.</p>	<ul style="list-style-type: none"> • Mapping of the current green belt of Nandesari and PCC area. • GIDC to allocate undeveloped / unsold land to NIA for additional green belt development. • NIA and PCC will carry out plantation. 	<p>NIA, PCC</p> <p>GIDC, Notified Area Authority</p> <p>PCC & NIA</p>	<p>Short term (June 20)</p> <p>Long term (Dec 20)</p> <p>Six month after</p>	<p>To be borne by NIA, PCC</p> <p>To be borne by PCC & NIA</p>

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					allocation of land	
Hazardous Waste						
1	Checking of illegal transportation and dumping of Hazardous waste	Illegal movement/disposal, if any of Hazardous waste is to be cubed	<ul style="list-style-type: none"> • Ensure that GPS is installed in all the vehicles carrying hazardous waste. 	NIA, PCC	Short Term (June 20)	To be borne by NIA, PCC
2	Augmenting TSDF capacity	TSDF capacity is about to be exhausted and therefore needs to be either augmented or alternate measures is required to be taken.	<ul style="list-style-type: none"> • Membership of authorized TSDF to be obtained by TSDF – NIA for their member industries. • Identification and inventorization of wastes suitable for co-processing. Facilities shall be augmented 	NECL NECL	Short Term (April 20) Ongoing process	To be borne by NECL To be borne by NECL

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			for preprocessing so that maximum quantity of waste can be sent for co-processing in Cement Industries.			
Other Action :						
1	Health study through expert agency	There is no adequate data and study available about the health status.	Health study in CPA shall be carried out.	NIA, PCC	Long term (Dec 20)	To be borne by NIA, PCC