### **CHANDRAPUR-CEPI Action Plan Status(Aurgust-2013)**

#### Compliance status of Action Plan for reduction of CEPI Summary of Proposed Action Points (Water Environment) 31/8/2013

#### **Short term Action Point (up to 1-year, including continues activity)**

Sr. No.	Action Points	Responsible Stake Holders	Time estimate	Cost	Compliance status
1	M/s Bilt Graphics Paper product, Ballarpur is having activated sludge process ETP of capacity 90 MLD. At present effluent generation is 35 -43 MLD. Industry is achieving 25 – 30 BOD Norms Modernization/replacement of existing batch digesters with continuous digestion system, pulp washing with drum washers will be replaced with presses & adoption of ECF bleaching technology. Replacement of old 2 recovery boilers with single recovery boiler with ESP of 5 electric fields. Up-gradation of ETP & Installation of cooling tower for recycling & MBBR (Moving Bed Bio- film Reactor) technology for improving effluent quality.	Industry	30/09/2011	Entire modernization project is costing around 500Crore	Modernization plant is ready for operation. Plant is under stabilization since May -2013
	<ul> <li>Installation of oxygen delignification process to reduce AOX , BOD &amp; Colour</li> </ul>		Implemented	40 crore	Work completed
	<ul> <li>Existing ETP up-gradation with additional thickener &amp; twin wire press</li> </ul>		31/12/2010	2 crore	Completed.
	<ul> <li>Installation of Disc filter for recycling of paper machine effluent in the system</li> </ul>		31/03/2011	1.5 crore	Completed
	<ul> <li>Distribution Network for treated effluent (0.5 MLD) for gardening in colony area.</li> </ul>		31/03/2011	30 lakhs	Completed
	Use of effluent in fire hydrant system		Implemented	15 lakhs	Completed.

Sr. No.	Action Points	Responsible Stake Holders	Time estimate	Cost	Compliance status
2	M/s Multi- organics Pvt. Ltd., MIDC Chandrapur has installed ETP & Treated effluent is being used for Cooling tower. Industry has achieved Zero discharge Norms. Excess effluent is being dumped in Solar Evaporation Tank. Industry has completed provision of separate drain for storm water & Industrial effluent. Up gradation not required.	Industry	Implemented		Completed and treated water being utilized for cooling tower and thus achieved zero discharge.
	Provision of mechanical seals, provision for arresting spillages/seepages, treatment & recycle in process		31/12/2010	3 lakhs	Completed. Mechanical seal provided to all process pumps and thus complied.
3	Ghugus Area:  1) Gupta Coalfields Ltd: Installation of high frequency screen & thickener to reduce the amount of effluent & easy recovery of solid waste	Industry	31/03/2011	2.5 lakhs	Installed and commissioned.
	2)Bhatiya International Ltd: Additional concrete tank for storage of industrial effluent		31/12/2010	10 lakhs	completed
4	Enforcement of Stringent Norms to evolve Clean technology for Water polluting industries Such as Paper Mill & Thermal Power Plants, along with effective monitoring /vigilance	Industry	30/09/2011		M/s. BILT Graphics paper products Ltd., a pulp and paper mill has adopted new environmental friendly technology based on ECF i.e. Elemental Chlorine Free technology and Board has granted consent to establish Plant is under stabilization since May-2013. Secondly, M/s. Chandrapur Super Thermal Power Station has proposed to install coal washery within their premises for utilization of wash coal. Board has issued directions to all cement and power plants for utilization of washed coal.
5	Additional 2 NWMP monitoring stations at D/S of Wardha River at Ghuggus opencast mine & D/S of MIDC nalla meeting to Erai River	MPCB	31/12/2010		Monitoring is started by this office under Environmental program.

# Summary of Proposed Action Points (Water Environment) Long term Action Point (More than 1-year)

Sr. No.	Action Points	Responsible Stake Holders	Time estimate	Cost	Compliance status
1.	Provision of STP for Chandrapur Town. The domestic effluent generation from Chandrapur Town is about 30.0 MLD. Municipal Council is proposed to install Two Nos. of STP having capacity 45.0 MLD & 25.0 MLD under UIDSSMT scheme, along with laying of sewerage line	Municipal Council	31/03/2012		95% of Civil Work of 2 STP at Pathanpura & Rahamat Nagar Areais completed. Total sewer line connecting two STPs is 180 km. The total capital investment for two STPs including sewer line is 72 crore and around 42 crore expenditure is incurred so far. STP is submerged under water due to flooding in Chandrapur.
2.	Use of treated industry effluent for spraying for dust emission control in nearby mines and plantation in forest area, to reduce river discharge	WCL, Forest department & PWD & Industry	31/03/2012		During sub-committee meeting dated 3/7/2013, the Chairman has directed WCL to interact with forest authority for utilization of mine water in nearby forest area also to explore project for effective use of mine water being disposing into river, such as water supply scheme, irrigation project, water harvesting.
3	Provision of STP for Ballarpur town:	Ballarpur Municipal Council	31/03/2012		District collector has instructed MC Ballarpur to submit proposal for STP
4	Provision of storm water drain in MIDC Tadali and MIDC Chandrapur	MIDC	31/03/2012		As per the reply of Dy.Chief Executive Officer (Env) dt18/12/2012 the excavated open gutter is provided at MIDC Chandrapur area. Proposal is submitted for approval for Tadali Area.

## Summary of Proposed Action Points (Air Environment) Short term Action Point (up to 1 year, including continuous activity)

Sr. No.	Action Points	Responsible Stake Holders	Time estimate	Cost	Compliance Status
1	MIDC Tadali 1) Chaman Metallics:				
	<ul> <li>Installation of 3 stage bag house at product house</li> <li>Installation of new bag filter at cooler discharge</li> <li>Concretization of roads of 0.8 km covering stores and raw material</li> </ul>	Industry	31/12/2010 31/12/2010	33 Lakhs 8.5 lakhs	Completed Completed
	section  • Up-gradation of Recuperator of ESP 1 & 2 like RAV changes, pipe		30/09/2011	85 lakhs	completed
	replacement, plate replacement of castable, impeller		31/12/2010	30 Lakhs	Completed
	2) Grace Industries:				
	Installation of bag filter at coal crusher, coal screening section & iron ore crusher	Industry	31/12/2010	4 lakhs	Completed
	Pneumatic fly ash handling system of M/S Grace Industries.		30/06/2011	2.5 crore	Will be utilized after operation of CFBC boiler which is under erection
	3) Siddhabali Ispat Ltd:	Industry	31/12/2010	9.5 crore	WHRB installed
	Installation of WHRBs for power generation	industry	31/12/2010	9.5 Clore	WIND IIIstalled
	<ul> <li>Replacement of electric fields &amp; revamping of ESPs for all three kilns to achieve 100 mg/Nm<sup>3</sup></li> </ul>		31/03./2011	35 lakhs	Replacement of ESP-1 is completed
	Provision of silo for storage of de-dusting dust which will dispose in After Burning chamber of kilns.	Industry	31/12/2010	25 lakhs	Complied .
	Concretization of internal roads		30/06/2011	50 lakhs	Work completed. Except 1.0KM Patch
	Installation of coal storage shed		30/09/2011	40 lakhs	Shed for coal to be used for CFBC boiler is completed

	4) Gopani Iron & Power Ltd: -  • Installation of 6 bag houses for FBC power plant  • Installation of bag filters at raw material feeding hopper and transfer point  • Concrete road from stores to SMS & from weigh bridge to truck tippler		31/12/2010 31/03/2011 1 year	60 lakhs 30 lakhs 2.37 crore	6 bag house are installed work completed  Road from weigh bridge to truck tippler completed .Canteen to SMS Road is WBM. This patch is expected to complete by Oct-2013.
2	Ballarpur Area BILT Graphics Ltd:  • Installation of NCG (Non condensable gases) burning system to reduce odour in the area.	Industry	31/03/2011	300 Lakhs	Work is completed, NCG burning is in operation
	<ul> <li>Use of CO<sub>2</sub> generated from lime kiln operations for preparation of CaCO<sub>3</sub> (greenhouse gas reduction)</li> </ul>				Completed, plant is in operation
3	MIDC Chandrapur: Multiorganics Ltd: Installation of Bag Filter at coal fire boilers 4.0 & 4.5 t/hr capacity		31/03/2011		Bag filter installed and made operational.
4	Ghuggus  1) ACC Cement: Installation of state of the art technology, entire new plant by scrapping old one: State of the art technology comprises of new kilns, grate cooler & 6 stage, double stream, In Line Calciner, which is an energy efficient process & Reverse Air Bag House & new ESP will be used for air pollution control at kiln, raw mill, boiler & cooler discharge. All storages & material handling systems will be under closed shed. Expected emission levels will be 50 mg /Nm³ for TPM. NOx emission will also be minimized	Industry	31/03/2011	1451 Crore	Complied. Modernization plant started in March -2011
	2) Lloyd Metals Ltd:  • Installation of new ESP for 500 TPD kilns by scraping old one	Industry	Installed in June 2010	5 crore	Completed
	Installation of dust collector at discharge hood at coal slinger belt 3170		30/06/2011	2 lakhs	Complied.
	Installation of 20000 cum capacity dust collector at lump iron ore crushing building		31/03/2011	1 lakh	Complied.
	100 x 4 TPD kiln - Replacement of existing 20000 cum dust collector capacity by 55000 dust collector capacity at product house		31/12/2010	25 lakhs	Complied.

	3) Gupta Coalfields Ltd:  Installation dust extraction system with wet scrubber at washing section.	Industry	30/06/2011	8 lakhs	At present Water sprinkler arrangement provided.
	Installation of rain guns with pipelines & foggy nozzles around the periphery of fines hopper		30/09/2011	50 lakhs	Rain gun and foggy nozzles are installed near fines hopper which seems inadequate
	4) WCL Ghuggus opencast: Installation of additional rain guns at kargil chowk, old railway siding, new railway siding & CHP, Total no. 258	Industry	31/03/2011	15 Lakhs	79 fixed water sprinklers provided, 26 mist type sprinklers provided near CHP, 4 near weigh bridge,
	5) Bhatiya International Ltd: Concretization of Internal Transport road from main gate to weigh bridge up to receiving hopper	Industry	31/12/2010	25 lakhs	Complied.
5	CSTPS Chandrapur:- Augmentation & Improvement of ESP's and provision of Ammonia dosing system.	CSTPS	31/03/2011		1) Continuous ammonia dosing for unit no. 1, 2, 3, 4,5,6 & 7 is completed.
6	WCL Issues:- Coal transportation road should be defined and dedicated and adequate number of fixed water sprinklers should be provided on the road. Period of six month is required for this compliance.	WCL	31/03/2011		There are two mines namely, M/s. Ghugus Opencast Mines, Ghugus and M/s. Ballarpur U/G Mines under CEPI. Fixed water sprinklers provided on the road.
7	WCL Issues:- Tarring of coal transportation roads should be done regularly. This should be a regular activity.	WCL	Regular activity		Main coal transportation roads are tarred.

# Summary of Proposed Action Points Air Environment Long term Action Point (More than 1-year)

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Sr. No.	Action Points	Respons ible Stake	Time estimate	Cost	Compliance Status
1	Ballarpur  1) BILT Graphics Ltd:  • Installation of new single recovery boiler (capacity 180 TPH)  of higher capacity with ESP of 5 electric fields by scrapping out existing old two recovery boilers to achieve 50 mg/Nm³ TPM standards  • Adoption of ECF (Elemental chlorine free) bleaching process by replacing existing use of chlorine with chlorine dioxide.	Industry	31/12/2011	500 crore (includes total modernizat ion project	Modernization plant is ready for operation. Plant is under stabilization since May-2013
2	Implementation of Mechanical Closed type material transportation/coverage of coal carrying truck by full tarpaulin especially for Coal. Introduction of Closed Conveyor belts transportation of Coal from mines.	WCL & MPCB	31/03/2012		Matter is subjudice.
3.	Ghugus & Tadali Area: Installation of waste heat recovery based boilers at sponge iron plants to effectively ensure that all flue gases are discharged through APC.	Industry	31/03/2012		There are 5 sponge iron plants in CEPI Area. Four plants have installed WHRB. One plant namely M/s Chaman Metallics has planned to install WHRB by 2013.Consent to establish for WHRB is already obtained.

4	Development of alternative bypass road for transportation of the Coal & other raw material transportation	WCL, Industrie s, PWD,	31/03/2012	Cost not assessed	During CEPI sub-committee meeting, PWD representative has informed that, after completion of
		RTO			approach road by January 2013, the bypass road, MIDC Chandrapur-Shivni-Rajura will become operative. Hence, 50% of traffic through Chandrapur city can be reduced. He further reported that, one approach bypass road can be made available for Ballarpur city passing through Visapur after necessary strengthening of existing road so as to take care of remaining 50% traffic of heavy vehicles passing Chandrapur city.
6	Health Impact Studies:  a) Health Impact studies due to air pollution problem can be undertaken in Chandrapur city by Health Department.	Health Departm ent	31/03/2012		Health study is under implementation.
	b) Health studies in coal mine area can be undertaken by WCL authorities	WCL	31/03/2012		

7	Vehicular Pollution: a) Mass pool transportation system can be strengthened by State Government	Municipal Council / State Transport	31/03/2012	District collector has directed Chief Officer, Municipal Council, Chandrapur to identify the routes and agencies so as to have mass pool transportation system.
	b) Adulteration of fuel can be prevented by District Administration	District Administr ation	31/03/2012	The District Collector has stated that the regular monitoring is being carried out for checking adulteration of fuel and necessary action is being taken against defaulters.
9.	Shifting of Unothorized Coal depot on Nagpur and	District	31/03/2011	Under implementation.
	Ghuggus Road.	Adminis	, ,	•
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## **Summary of Proposed Action Points (Land Environment) Short term Action Point (up to 1 year, including continues activity)**

Sr. No.	Action Points	Responsi ble Stake Holders	Time estimate	Cost	Compliance Status
1	Ballarpur Area BILT Graphics Ltd:  Installation of rotary lime kiln of capacity 180 TPD for recycling and re-burning of lime sludge	Industry	Implemented (2008)	36 crores	Completed
	Greening of old lime sludge hillocks with soil & trees		Implemented	27 lakhs	Completed
	<ul> <li>Additional tree plantation on sludge hillocks &amp; slopes (Biological Stabilization)</li> </ul>		31/03/2012	15 lakhs	20000 trees planted & effluent distribution network work is completed.
2	Ghugus Area				
	Bhatiya International Ltd: Adequate arrangement for disposal of solid waste for thickener & settling tank	Industry	31/12/2010	2 lakh	Solid waste sludge is being disposed by sale.
	2) Lloyd Metals Ltd:				
	<ul> <li>Installation of new ash silo for 100 TPD boiler dust</li> </ul>	Industry	31/12/2010	15 lakhs	Installed and trials are going on.
	<ul> <li>Disposal/utilization of char after beneficiation for power generation (work in progress)</li> </ul>		31/12/2010	60 lakhs	Char beneficiation plant installed & utilization in CFBC Boiler started.
	■ Installation of fly ash brick plant	Industry	30/06/2011	75 lakhs	Fly ash bricks plant installed in March-2012.AFBC Boiler, fly ash is 100% disposed to cement manufacturer.

3	Tadali Area			
	1) Chaman Metallics Ltd:	00/00/0044		
	Coal char – Disposal by dispatching to power plant, low land	30/06/2011	2.5 lakhs	Complied.
	filing & brick makers			
	• Iron ore fines – Disposal by selling it to cement plant & to the	30/06/2011	1.5 lakhs	Complied
	fines exporter			
	Close shed for product house bag filter dust, bags for the storage arrangement	31/03/2011	10 lakhs	Completed.
	2) Grace Industries Ltd:			
	Coal char disposal by AFBC boiler, iron ore fines disposal by			
	sale, DSC sludge disposal by land fill, bag filter dust disposal by	31/03/2011	20 lakhs	Solid waste such as char/ESP
	pneumatic handling area and use in kiln, ESP dust disposal by			dust is disposed by way of Land
	ash handing plant			<u>filling</u> . Iron ore fines are disposed by sale to cement manufacture.
	3) Gopani Iron & Power Ltd:			
	Char disposal for use in FBC boiler after beneficiation	30/09/2011	2.5 crore	Entire Char is being used in Power Plant after Beneficiation.
	Iron ore fines to Cement Mfg or Sinter Plant	30/06/2011	10.0 Lakhs	Iron ore fines disposal to cement plant is going on
	ESP/de-dusting dust to Bricks Manufacturing	31/01/2011	4.0 Lakhs	ESP/de-dusting dust disposal have started since sep-2010
	4)Sidhbali Steel Industries;-			
	Char disposal for use in FBC boiler or land filling			Disposal of Char started
	Iron ore fines to Cement Mfg or Sinter Plant	31/03/2011	5.0 Lakhs	Iron ore fines disposal to cement plant is going on
	ESP/de-dusting dust to Bricks Manufacturing			
	251 745 dubting dubt to Brioto Maridiaoturing			ESP/de-dusting dust disposal have started since sep-2010 Manual Water sprinkling arrangement on solid waste storage area is provided.

## Summary of Proposed Action Points (Land Environment) Long term Action Point (More than 1-year)

Sr. No.	Action Points	Respons ible Stake	Time estimate	Cost	Compliance Status
1	<ul> <li>Ghugus         <ul> <li>Lloyds Metals, Ghugus:</li> <li>Char disposal to Bricks manufacturers/ FBC boiler/land filling</li> </ul> </li> <li>Land filling for ESP dust &amp; by sale of de-dusting dust</li> </ul>	Industry	31/3/2011 31/3/2011	25 lakhs 75 lakh	Char beneficiation plant is started.  Disposal of solid waste started,
2	Tadali: a) Chaman Metallics, Tadali Char disposal Bricks manufacturers/ FBC boiler/land filling Iron ore fines disposal By sale to cement industry/ sinter plant Land filling for ESP dust & by sale of de-dusting dust	Industry	May 2011 March 2011 Dec 2010	2.5 lakhs 1.5 lakhs 0.75 Lakhs	Char disposal started Iron ore is disposed. Disposal started.
3	Ballarpur: At present MSW of Ballarpur city (19 Ton/Day) is disposed in an unscientific manner. Municipal Council will have to develop waste treatment facility in a time bound manner for wet waste.	Municipal Council	31/03/2012	Lakus	Work yet not started. Collector, Chandrapur has directed SDO, Chandrapur to visit MSW site, Ballarpur and to submit report for initiating action against the Municipal Council, Ballarpur.

4	Chandrapur: Total MSW generation is 120 Ton/Day. At present 1.5 Ton/Day capacity of wet waste treatment facility is installed but not operational. Municipal Council is required to provide adequate capacity of waste treatment facility	Municipal Council	31/03/2012	The fencing work is completed. Tenders are floated for installation of processing facility i.e. compositing. Commissioner, Municipal Corporation, Chandrapur reported that, in spite of repeated tendering no response is received from the agencies. However, he assured to call proposals by changing some conditions in tender. The Chairman of sub-committee has directed to speed up this work immediately during meeting dated 30/10/2012.
5	WCL & CSTPS:-  Demonstration project for use of fly ash for filling the abandoned opencast coal mines	CSTPS and WCL		Work started.WCL authority has disposed 2000 Cu. Meter of pond ash in the underground mines. Besides this WCL Chandrapur area has utilized 472288 cubic meter of slag generated by Maharashtra electros melt Chandrapur.(MEL). However, DGMS has not given final approval for fly ash stoying instead of sand due to technical
6	Development of Landfilling site by MIDC Tadali	MIDC AND Industry		It is understood that MIDC has inventories the total quantum of solid waste to be disposed. MIDC has reserved plot admeasuring 20 acres for such facility.

9.	Shifting of Unauthorized Co	oal depot	on	Nagpur	and	District	31/03/2011	Under implementation.
	Ghuggus Road.					Administ		
						ration		