

**CORPORATE RESPONSIBILITY FOR ENVIRONMENTAL PROTECTION (CREP)
CONDITIONS AND ITS COMPLIANCE**

S.NO	POSSIBLE EMERGENCY	PREVENTIVE MEASURES
1.	<p>COKE OVEN PLANTS</p> <p>To meet the parameters PLD (% leaking colors), PLL (% leaking lids), PLO (% leaking off take), of the notified standards under EPA within three years by December 2005). Industry will submit time bound action plan and PER Chart along with the Bank Guarantee for the implementation or the time.</p> <p>To rebuild at least 40% of the coke oven batteries in next 10 years (by December 2012).</p>	Not applicable as there is no coke oven plant
2.	<p>STEEL MELTING SHOP</p> <p>Fugitive emissions- To reduce 30% by March 2004 and 100% by March 2008 (including installation of secondary de- dusting facilities).</p>	Achieved and being maintained
3.	<p>BLAST FURNACE</p> <p>Direct inject of reducing agents by June 2013.</p>	Not applicable since there is no blast furnace
4.	<p>SOLID WASTE /HAZARDOUS WASTE MANAGEMENT</p> <p>Utilization of Steel/ Melting shop (SMS)/ Blast Furnace (BF) Slag as per the following schedule: By 2004 - 70% By 2006 - 80% and By 2007 - 100 %.</p>	SMS slag is being sold to outside slag crusher units and if required is being used for by pass/approach roads construction or Low-lying area filling purposes.
	<p>HAZARDOUS WASTES</p> <p>Charge of tar sludge/ ETP sludge to Coke Oven by June 2003.</p> <p>Inventorization of the Hazardous waste as per Hazardous Waste (M& H), Rules, 1989 as amended in 2000 and implementation of the Rules by Dec. 2003. (tar sludge, acid sludge, waste Lubricating oil and type fuel falls in</p>	Hazardous Waste Management Rules 2016 are being followed for only used oil & Resin.



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	the category of Hazardous waste).	
5.	<p>WATER CONSERVATION/ WATER POLLUTION</p> <p>To reduce specific water consumption to 5 m³/t for long products and 8 m³/t for flat products by December 2005.</p> <p>To operate the Co-BP effluent treatment plant efficiently to achieve the notified effluent discharge standards. – by June 2003.</p>	The plant is based on water consumption of 3.53 m ³ /t
6	Installation of Continuous stacks monitoring system & its calibration in major stacks and setting up of the online ambient air quality monitoring stations by June 2005.	Continuous online stack monitoring system for PM/SO _x /NO _x installed on our major stack.
7	To operate the existing pollution control equipment efficiently and to keep proper record of run hours, failure time and efficiency with immediate effect. Compliance report in this regard is submitted to CPCB/SPCB every three months.	We have provided electric meters on all installed pollution control equipment for their running hrs. & Failure time. Compliance report is being submitted to CECB every month and to MoEFCC Regional Office, Raipur
8	To implement the recommendations of Life Cycle Assessment (LCA) study sponsored by MoEF by December 2003.	• NA
9	The industry will initiate the steps to adopt the following clean technologies measures to improve the performance of industry towards production, energy and land environment.	-
	<ul style="list-style-type: none"> • Energy recovery of top Blast Furnace (BF) gas. 	Not Applicable
	<ul style="list-style-type: none"> • Use of Tar- free runner linings. 	No tar runner linings are proposed
	<ul style="list-style-type: none"> • De- dusting of Cast house at tap holes, runners, skimmers ladle and charging points. 	Dedusting has been provided.
	<ul style="list-style-type: none"> • Suppression of fugitive emissions using nitrogen gas or other inert gas 	Fugitive emission is being controlled by installed bag filters, uses of Mist water spray at all transfer points.

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	<ul style="list-style-type: none"> To study the possibility of slag and fly ash transportation back to the abandoned mines, to fill up the cavities through empty railway wagons while they return back to the mines and its implementation. 	Slag and Fly Ash is being used for brick making in our own Fly Ash Brick plant situated at same premises, while slag is being supplied to outsider slag crusher units.
	<ul style="list-style-type: none"> Processing of the waste containing flux & ferrous wastes through waste recycling plant. 	Not applicable to us.
	<ul style="list-style-type: none"> To implement rainwater harvesting 	Rainwater harvesting structures have been constructed at different locations of plant premises.
	<ul style="list-style-type: none"> Reduction Green House Gases by: <ul style="list-style-type: none"> ➤ Reduction in power consumption ➤ Use of by -products gases for power generation ➤ Promotion of Energy Optimization technology including energy/ audit 	<p>Green houses gases are being reduced by adopting Direct Hot Rolling Technology in Rolling Mill, use of Furnace oil as a Fuel.</p> <p>Implemented the energy efficiency measures and over achieved the energy efficiency target.</p> <p>Not applicable for us.</p> <p>We are conducting self-audit for Energy Optimization.</p>
	<ul style="list-style-type: none"> Up- gradation in the monitoring and analysis facilities for air and water pollution. Also, to impart elaborate training to the manpower so that realistic data is obtained in the environmental monitoring laboratories. 	NABL and MOEF recognized Laboratories are engaged to monitor air and water pollution levels. In house well, equipped Environment Lab is developed with qualified and experienced technical staff.
	<ul style="list-style-type: none"> To improve overall housekeeping and Green belt. 	<p>Greenbelt has been developed to control fugitive dust and Noise.</p> <p>Good housekeeping is being maintained in the plant.</p>



10	SPONGE IRON PLANTS Inventorisation of sponge iron plants to be completed by SPCBs/CPCE by June 2003 and units will be asked to install proper air pollution control equipment by December 2003 to control primary and secondary emissions. As per rebuilding schedule submitted to CPCB/MoEF.	Not applicable as there is no Sponge Iron Plant
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