

ANNEXURE - I

HIDALCO HIRAKUD SMELTER COMPLIANCE TO CREP GUIDELINES

Action Points	Targets	Status
1. <u>Technology</u> Allowing new potlines only with pre-baked technology.	Clearance by MoEF only for pre-baked after June 2003.	Complied. The expansion of smelter capacity through adopting modern state of the art prebake technology.
2. <u>Fluoride emissions</u> (i) Prescribing Max. plant size.	To be decided based on assimilative capacity of plant location.	
(ii) Revision of Fluoride emission standard.	Soderberg 2.8 kg/t by Dec 2005	For prebake line 0.8 kg/t is being complied.
	1.0 kg/t (VSS) & 1.30 kg/t (HSS) by Dec 2010.	
	Pre-baked 0.8 kg/t	
(iii) Phasing out wet scrubbing system for fluoride	By December 2006.	Complied.
(iv) Allowing new potlines only with dry scrubbing system.	Clearance by MoEF only for dry scrubber system, after June 2003	We have dry scrubbing system (3 No. FTPs) for all our pot lines.
(v) Fugitive Emissions monitoring from pot rooms	Monitoring data to be submitted to CPCB/SPCBs from January 2004.	We have been submitting the data to both CPCB/SPCB and also to MoEF Regional Office at Bhubaneswar vide six monthly compliance report.
3. <u>Fluoride Consumption</u> Prescribing fluoride consumption per tonne of aluminium produced (Guidelines)	For Soderberg 15 kg/t by Dec 2005.	-
	For pre-baked 10 kg/t by Dec 2005.	Complied.
4. <u>Ambient Fluoride</u> (i) Forage fluoride std.	- 12 consecutive months average 40 ppm.	Forage analysis is regularly carried out on monthly basis and all the values are within stipulated standards.
	- 2 consecutive months average 60 ppm. - One month 80 ppm.	
(ii) Forage fluoride measurement	To start monitoring and submit data from Jan 2004.	The data is being regularly submitted to CPCB/SPCB

ANNEXURE - I (Contd)

5.	Spent Pot Lining (SPL) (i) Setting up individual SPL treatment facility	Target dates to be submitted by industries.	Exploring to otherwise use SPL in cement plants and CPP boilers. Further, as a part of reutilization programme, we have carried a trial run for co-incineration of SPL in our CPP boiler as a fuel mix along with coal with due permission from SPCB. The results found very encouraging.
	(ii) Limit for pot life (new pots installed after Dec 31, 2003).	2500 days (average).	-
	(iii) SPL (Carbon and Refractory) disposal in secured landfill.	With immediate effect.	Stored in covered shed on concrete floor as per the authorization. The SLF is being implemented.
6.	Red Mud (i) Phasing out wet disposal	To achieve min. 50% solids in Red Mud by Dec 2005.	Not applicable
	(ii) Red Mud utilisation	To be proposed by the Aluminium Association of India.	
7.	Anode Baking Oven	Achieve PM limit of 50 mg/Nm ³ by Dec 2005.	Not applicable