

Ref: CPM/ENV/K-32/CF/02/07

Date: 09.11.2011

To  
Dr. S C Katiyar  
Scientist D  
North Eastern Regional Office,  
Ministry of Environment & Forests  
Law U-Sib, Lumbatngen, Near M T C Workshop  
Shillong – 793 021  
Gram: Paryavaran, Shillong

**Sub: Half Yearly Compliance Report on Environmental Stipulations.  
(Period- April 2011 to September 2011)**

Sir,

Half Yearly Compliance report on Environmental Stipulations from April 2011 to September 2011 is hereby submitted for your kind perusal.

Thanking you.

Yours faithfully  
For & on behalf of HPC Ltd  
Cachar Paper Mill

Enclo: as above (07 pages).

( D. Banerjee )  
Sr. Manager (Env & Civil)

Cc:

- i) The Director  
Ministry of Environment & Forest  
Paryavaran Bhavan, CGO Complex  
Lodi Road, New Delhi – 110003
- ii) The Additional Director  
Central Pollution Control Board, N.E.Zonal Office  
Near Fire Brigade, Lower Motinagar  
Shillong - 793014
- iii) The Sr. Environmental Engineer  
Assam Pollution Control Board,  
Itkhola, Ghaniwala Lane  
Silchar – 788 002

HINDUSTAN PAPER CORPORATION LTD  
 CACHAR PAPER MILL, PANCHGRAM  
ENVIRONMENT DEPARTMENT

**Half yearly compliance report on environmental stipulations**  
**Period- April 2011 to September 2011**

**Page 01 of 03**

Sl no	Environmental stipulations	Present status
01.	The project authority must strictly adhere to the stipulation made by the State Pollution Control Board and the State Government. A comprehensive EIA covering 4(Four) seasons data should be submitted to this Ministry latest by Dec'92	Comprehensive EIA Study 1996-1997 had been submitted to MOEF vide no. HPC/ENV/36-A/98/184 dtd. 09-03-1998.
02.	Expansion of the plant should not be taken up without prior approval of this Ministry.	No expansion has been taken up.
03.	The emission from various units should confirm to the standards prescribed by the Government or Central / State Pollution Control Board. At no time the emission levels should be beyond the stipulated standards. In the event of failure of any Pollution Control systems adopted by the units, the respective unit should be put out of operation immediately and not be restarted until the Control System are rectified to achieve the desired efficiency.	Emission monitoring of all the four boilers operating at Cachar Paper Mill are being done and reports are sent to APCB, CPCB & MoEF in every month. The reports are also available in the website of HPC. Monthly average report from April 2011 to September 2011 is enclosed as Table – I.
04.	The Project Authority should not change any design of stacks without the permission of the State Pollution Control Board. They will also provide close circuit grinding Unit in all the grinding sections of the Plant.	Design of stack has not been changed. Paper manufacturing process in the Mill does not include grinding process.
05.	A minimum of 4(Four) Air Quality Monitoring Stations should be set up in the downwind direction as well as where maximum ground level concentration is anticipated. Also stack emission should be monitored by setting up Automatic Stack Monitoring Unit. Air quality & Stack emissions should be monitored regularly. The data collected should be statistically analyzed, interpreted and report submitted to the State Pollution Control Board & this Ministry once in 6(Six) months.	Ambient Air Monitoring at 4 (four) monitoring stations has been continuing since September 2006 and reports are sent to APCB, CPCB & MoEF in every month. The reports are also available in the website of HPC. Monthly average report from April 2011 to September 2011 is enclosed as Table- II.

Sl no	Environmental stipulations	Present status
06.	At Nagaon fluidize bed boiler should be installed within 24(Twenty-four) months.	Not related to this mill. However, for our mill , installation of FBC Boiler is in progress.81% erection job has already been completed.
07.	At Cachar, in case gas is available gas fired boiler should be installed within 24(Twenty-four) months instead of oil fired units.	Gas is not available for installation of gas fired boiler.
08.	Regular monitoring of Hydrogen Sulphide should be done and data should be statistically analyzed.	H <sub>2</sub> S monitoring is regularly being done for Recovery stack and reports are sent to APCB, CPCB & MoEF in every month. The reports are also available in the website of HPC. Monthly average report from April 2011 to September 2011 is enclosed as Table-III.
09.	The liquid effluents generated should be treated so as to meet the prescribed standards of Central / State Pollution Control Board. The quality of liquid effluent should be monitored regularly and the data so collected should be statistically analyzed , interpreted and report submitted to this Ministry & State Pollution Control Board once in 6(Six) months .	The quality of liquid effluent is being monitored regularly and reports are sent to APCB, CPCB & MoEF in every month. The reports are also available in the website of HPC. Monthly average report from April 2011 to September 2011 is enclosed as Table- IV.
10.	Minimize, control foams in the aerated lagoons sprinkler system / fountain system should be installed within 24(Twenty-four) months.	Defoamer is used and foam is controlled.
11.	Action should be taken within 3(Three) years to remove the colour of the effluents before discharging.	This is also CREP requirement. IPMA was advised vide SI no. 6 of CREP to take up project with CPPRI for developing viable technology. Viable Technology is yet to be available. However the color is under control with great effort.
12.	Polishing pond should be desludged regularly.	Desludging activity of South Aeration Lagoon has been completed and the same is in operation from 12.06.2011.
13.	The Mercury level in the liquid effluents should meet the standards stipulated by the State Pollution Control Board. A Mercury Removal System should be installed to care of unforeseen circumstances.	Installation of Ion Exchange Mercury Removal System, removal of mercury from Hydrogen Gas & Caustic Lye, Mercury distillation units are in operation. The Mercury level in the liquid effluents is well within limit.

Sl no	Environmental stipulations	Present status
14.	Plan for proper disposal of solid wastes by way of value added materials should be drawn within months and submitted to this Ministry.	<p>Solid waste Disposal Plan had been submitted vide letter no. ENV/K-32/CF/09 Dtd. 21-12-2000. The area in the vicinity of the mill being flood prone, major solid waste like Coal Ash &amp; lime grits are allowed to the locality for land filling preferably developing of road and demand is very high. To reduce the quantity of Solid Waste generation and disposal measures taken are</p> <ul style="list-style-type: none"> <li>a) To utilize bamboo dust as fuel a Bamboo Dust based Gasification Plant has been Installed &amp; Commissioned in November 2006.</li> <li>b) A Lime Mud Re-burning Plant installation activities completed in March 2008. Commissioning will be done after the production of the mill is stabilized on sustainable basis.</li> <li>c) A Multifuel AFBC Boiler is being installed. 81% erection work has already been completed. Fly Ash generated in Coal fired boiler shall also be used as one of the fuels in AFBC Boiler.</li> </ul>
15.	Ground water around the solid waste disposal pits should be regularly monitored for mercury contamination.	Ground water is being monitored weekly and the reports are sent to APCB CPCB & MoEF in every month. The reports are also available in the website of HPC. Monthly average report from April 2011 to September 2011 is enclosed as Table –V.

TABLE - I  
 STACK EMISSION DATA  
Limit: PM 150 mg/Nm<sup>3</sup>

Monthly average values from April 2011 to September 2011

Source	CF Boiler I	CF Boiler II	CF Boiler III	Recovery Boiler
Month	PM mg/Nm <sup>3</sup>	PM mg/Nm <sup>3</sup>	PM mg/Nm <sup>3</sup>	PM mg/Nm <sup>3</sup>
April`11	142.4	141.6	137.5	118.0
May`11	146.2	138.4	142.0	126.6
June`11	144.4	134.2	137.0	120.4
July`11	139.1	134.2	134.0	129.2
August`11	136.0	128.4	132.0	108.8
September`11	137.6	144.3	141.4	116.5

TABLE – II

**AMBIENT AIR QUALITY DATA**  
**Monthly average values from April 2011 to September 2011**

Source	Yard No.7 at Security Point			At corner of Lagoon			Time Office				Township			
Parameter Limit	SPM 360 µg/m <sup>3</sup>	SO2 80 µg/m <sup>3</sup>	NOX 80 µg/m <sup>3</sup>	SPM 360 µg/m <sup>3</sup>	SO2 80 µg/m <sup>3</sup>	NOX 80 µg/m <sup>3</sup>	SPM 360 µg/m <sup>3</sup>	SO2 80 µg/m <sup>3</sup>	NOX 80 µg/m <sup>3</sup>	RSPM 120 µg/m <sup>3</sup>	SPM 120 µg/m <sup>3</sup>	SO2 60 µg/m <sup>3</sup>	NOX 60 µg/m <sup>3</sup>	RSPM 60 µg/m <sup>3</sup>
Month														
April`11	215.1	15.6	12.7	248.4	16.2	13.4	165.4	13.4	11.3	69.3	134.3	12.2	9.4	44.2
May`11	215.1	17.9	14.1	248.4	16.2	13.4	165.4	22.2	11.3	69.3	134.3	12.2	9.4	44.2
June`11	151.9	15.6	10.8	202.5	18.2	11.0	138.6	13.0	11.0	67.3	82.8	10.3	8.0	43.8
July`11	193.6	11.1	9.4	208.1	13.5	11.9	146.4	12.3	11.9	82.5	69.6	6.4	5.8	41.4
August`11	206.4	14.8	12.0	212.8	17.6	13.8	140.0	11.2	9.8	70.0	88.8	8.6	6.2	44.0
September`11	222.5	11.3	11.7	200.6	10.8	10.7	175.0	12.1	9.5	79.3	118.7	9.4	8.3	43.4

TABLE - III

**HYDROGEN SULPHIDE DATA**  
**Limit: 10 mg/Nm<sup>3</sup>**  
**Monthly average values from April 2011 to September 2011**

Source	Month	Hydrogen Sulphide mg/Nm <sup>3</sup>
Soda Recovery Stack	April`11	8.4
--do--	May`11	8.2
--do--	June`11	8.6
--do--	July`11	8.8
--do--	August`11	7.6
--do--	September`11	9.3

**TABLE - IV**  
**TREATED EFFLUENT QUALITY DATA**  
 Limit: SS 100 mg/l, COD 350 mg/l, BOD 30 mg/l  
 Monthly average values from April 2010 to September 2011

Month	SS mg/l	COD mg/l	BOD mg/l
April`11	95	319	25
May`11	96	319	26
June`11	96	325	28
July`11	91	328	26
August`11	92	332	26
September`11	95	332	27

**TABLE-V**  
**GROUND WATER QUALITY DATA**  
 Monthly average values from April 2011 to September 2011

Parameter Months	LOCATION OF SAMPLING POINT			
	Well opposite to Adm. Building		Well near Railway station	
	p <sup>H</sup>	Mercury	p <sup>H</sup>	Mercury
April`11	8.0	BDL	7.8	-
May`11	7.6	BDL	7.5	BDL
June`11	6.7	BDL	6.6	BDL
July`11	<b>7.0</b>	BDL	6.9	BDL
August`11	<b>6.7</b>	BDL	6.7	BDL
September`11	7.2	BDL	7.4	BDL

