

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

Dtd.12-06-2010

To
Dr. S C Katiyar
Joint Director (S)
North Eastern Regional Office,
Ministry of Environment & Forests
Upland Road, Laitumkrah, Shillong – 793 003
Gram: Paryavaran, Shillong

Sub: Half Yearly Compliance Report on Environmental Stipulations.

Sir,

Half Yearly Compliance report on Environmental Stipulations from October 2009 to March 2010 is hereby submitted for your kind perusal.

Thanking you.

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

Encl: as above.

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

Cc:

- i) The Director
Ministry of Environment & Forest
Paryavaran Bhavan, CGO Complex
Lodi Road, New Delhi – 110003
- ii) Zonal Officer
N.E.Zonal Office, Central Pollution Control Board,
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 environment stipulations from
 October 2009 to March 2010**

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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 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. Monthly average report from October 2009 to March 2010 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 Sep'06'. Monthly average report from October 2009 to March 2010 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 ₂ S Monitoring is being done for Recovery stack and reports are sent to APCB every month. Monthly average report from October 2009 to March 2010 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 .	Monitoring reports of treated effluent is submitted to APCB every month. Monthly average report from October 2009 to March '10 is enclosed asTable- 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. Viable Technology being not available, IPMA has been advised vide SI no. 6 of CREP to take up project with CPPRI for developing viable technology.
12.	Polishing pond should be desludged regularly.	Desludging activity of South Aeration Lagoon is in steady progress and is likely to be completed within 2010.
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.	Action has been taken corresponding to requirement of CREP. Installation of Ion Exchange Mercury Removal System , removal of mercury from Hydrogen Gas & Caustic Lye , Mercury distillation unit have already been commissioned and is in operation.

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 & Bamboo fines are allowed to the locality free of cost for land filling preferably developing of road and demand is very high.</p> <p>To reduce the quantity of Solid Waste generation and disposal measures taken are</p> <ul style="list-style-type: none"> a) To utilize bamboo dust a Bamboo Dust based Gasification Plant has been Installed & Commissioned in Nov'06. b) A Lime Mud Re-burning Plant installation activities completed in March2008. Commissioning will be done after the production of the mill is stabilized on sustainable basis. c) A Miltifuel 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.
15.	Ground water around the solid waste disposal pits should be regularly monitored for mercury contamination.	Ground water is being monitored weekly & result is sent to APCB every month . Monthly average from October 2009 to March 2010 is enclosed as Table –V.

TABLE - I
STACK EMISSION
Limit: PM 150 mg/Nm³
Monthly values from October 2009 to March 2010

Source	CF Boiler I	CF Boiler II	CF Boiler III	Recovery Boiler
Month	PM mg/Nm ³	PM mg/Nm ³	PM mg/Nm ³	PM mg/Nm ³
Oct`09	148.00	138.60	144.20	122.00
Nov`09	140.20	136.40	132.80	SHUT
Dec`09	139.70	137.20	133.40	SHUT
Jan`10	148.60	144.20	131.40	146.20
Feb`10	146.20	143.50	138.40	141.20
Mar`10	147.80	139.00	140.60	142.10

TABLE - II
AMBIENT AIR
Monthly average values from October 2009 to March 2010

Source	Yard No.7 at Security Point			At corner of Lagoon			Time Office				Township			
Parameter Limit Month	SPM 360 µg/m ³	SO2 80 µg/m ³	NOX 80 µg/m ³	SPM 360 µg/m ³	SO2 80 µg/m ³	NOX 80 µg/m ³	SPM 360 µg/m ³	SO2 80 µg/m ³	NOX 80 µg/m ³	RSPM 120 µg/m ³	SPM 120 µg/m ³	SO2 60 µg/m ³	NOX 60 µg/m ³	RSPM 60 µg/m ³
Oct`09	169.2	16.7	13.0	175.4	14.0	12.3	174.1	11.0	9.9	60.5	115.8	12.0	9.7	47.3
Nov`09	115.9	9.0	6.4	109.9	7.2	7.1	104.8	8.7	7.7	69.0	85.5	5.5	3.6	43.6
Dec`09	227.6	17.3	12.0	215.1	18.3	14.8	193.3	13.9	11.4	90.3	133.5	12.3	9.5	43.6
Jan`10	222.1	18.5	16.3	203.6	19.5	14.7	119.2	14.1	11.1	87.0	99.5	13.9	11.1	49.5
Feb`10	219.4	18.8	15.5	207.1	17.5	14.7	170.8	15.4	13.6	96.6	94.1	11.5	10.3	57.1
Mar`10	232.9	16.3	12.3	224.2	18.3	14.8	165.9	13.1	11.4	118.5	163.0	12.3	9.5	69.3

TABLE - III
HYDROGEN SULPHIDE DATA
Limit: 10 mg/Nm³
Monthly values from October 2009 to March 2010

Source	Month	Hydrogen Sulphide mg/Nm³
Soda Recovery Stack	Oct`09	7.8
--do --	Nov`09	SHUT
--do--	Dec`09	SHUT
--do--	Jan`10	8.8
--do--	Feb`10	8.7
--do--	Mar`10	8.6

TABLE - IV
TREATED EFFLUENT QUALITY
 Limit: SS 100 mg/l, COD 350 mg/l, BOD 30 mg/l
 Monthly average values from Oct` 09 to Mar` 10

Month	SS mg/l	COD mg/l	BOD mg/l
Oct`09	98	325	27
Nov`09	98	323	28
Dec`09	98	325	29
Jan`10	98	324	28
Feb`10	98	327	27
Mar`10	98	326	27

TABLE - V
GROUND WATER QUALITY
Monthly average values from Oct 2009 to Mar 2010

Parameter Month	LOCATION OF SAMPLING POINT			
	Well opposite to Adm. Building		Well near Railway station	
	p ^H	Mercury	p ^H	Mercury
Oct `09	7.2	BDL	7.2	BDL
Nov`09	7.0	BDL	-	-
Dec`09	7.3	BDL	7.1	BDL
Jan`10	7.2	BDL	7.5	BDL
Feb`10	8.0	BDL	7.7	BDL
Mar`10	7.8	BDL	7.8	BDL