

REF:ENV/K-32/CF/3/13

Date: 15.02.2011

To
The Sr. Environmental Engineer
Pollution Control Board, Assam
Itkhola, Near Ghaniwala Lane
Silchar -788 002

BY SPEED POST

SUB: TEST RESULT FOR THE MONTH OF JANUARY 2011

Sir,

I have the honour to submit herewith the test result of key parameters of the following sources during the month of January 2011 for favour of your disposal. It is to be mentioned here that River water sample from five points as mentioned in the Test Results are collected upto Karimganj.

- A. Treated effluent
- F. River water
- G. Ground water and Piezometric tube well
- H. Stack Emission and
- I. Ambient Air.

Thanking you.

Sincerely yours
For & on behalf of HPC Ltd.
Cachar Paper Mill

Encl: Test Results (Four pages)

Copy to :

- i) The Member Secretary
Pollution Control Board, Assam
Bamunimaidam
Guwahati – 781 021, Assam.

Sr. Manager (Env & Civil)

- ii) The Joint Director (S)
GOI, MoEF, North Eastern Regional Office
Upland Road, Laitumkhrah
Shillong - 793003

- iii) The Zonal Officer
N.E. Zonal Office , Central Pollution Control Board
Near Fire Brigade, Lower Motinagar
Shillong - 793014

A.TREATED EFFLUENT QUALITY IN THE MONTH OF JANUARY 2011

| Date | Temp °C | pH | SS Mg/L | COD Mg/L | BOD Mg/L |
|----------|------------|-----|------------|-------------|-------------|
| 01.01.11 | 27 | 7.7 | 96 | 328 | 27 |
| 02.01.11 | 27 | 7.7 | 92 | 312 | 30 |
| 03.01.11 | 27 | 7.7 | 94 | 304 | 24 |
| 04.01.11 | 27 | 7.6 | 92 | 304 | 24 |
| 05.01.11 | 25 | 7.6 | 98 | 312 | 24 |
| 06.01.11 | 26 | 7.8 | 96 | 320 | 27 |
| 07.01.11 | 26 | 7.6 | 100 | 312 | 24 |
| 08.01.11 | 26 | 7.5 | 98 | 320 | 27 |
| 09.01.11 | 27 | 7.8 | 96 | 328 | 27 |
| 10.01.11 | 27 | 7.8 | 98 | 320 | 24 |
| 11.01.11 | 24 | 7.8 | 96 | 312 | 24 |
| 12.01.11 | 25 | 7.6 | 98 | 312 | 27 |
| 13.01.11 | 22 | 7.5 | 96 | 320 | 30 |
| 14.01.11 | 24 | 7.4 | 94 | 328 | 27 |
| 15.01.11 | 24 | 7.5 | 96 | 320 | 24 |
| 16.01.11 | 23 | 7.6 | 98 | 328 | 30 |
| 17.01.11 | 24 | 7.6 | 96 | 312 | 27 |
| 18.01.11 | 20 | 7.8 | 98 | 320 | 24 |
| 19.01.11 | 20 | 7.6 | 98 | 312 | 27 |
| 20.01.11 | 21 | 7.7 | 94 | 328 | 30 |
| 21.01.11 | 20 | 7.7 | 88 | 312 | 24 |
| 22.01.11 | 22 | 7.9 | 94 | 320 | 27 |
| 23.01.11 | 24 | 7.8 | 98 | 328 | 27 |
| 24.01.11 | 23 | 7.6 | 96 | 320 | 24 |
| 25.01.11 | 23 | 7.3 | 94 | 328 | 27 |
| 26.01.11 | 23 | 7.6 | 98 | 320 | 24 |
| 27.01.11 | 23 | 7.6 | 96 | 328 | 27 |
| 28.01.11 | 24 | 7.6 | 94 | 312 | 21 |
| 29.01.11 | 25 | 7.6 | 98 | 320 | 24 |
| 30.01.11 | 24 | 7.5 | 92 | 312 | 30 |
| 31.01.11 | 25 | 7.7 | 94 | 320 | 27 |

B. RIVER WATER QUALITY OF BARAK AND KUSHIYARA IN THE MONTH OF JANUARY 2011

| Date | LOCATIONS | pH | SS mg/l | COD mg/l | DO mg/l | BOD mg/l |
|-------------|---|-----------|--------------------|---------------------|--------------------|---------------------|
| 02.01.11 | 1 KM Upstream of effluent discharge point | 7.6 | 140 | 17.6 | 8.2 | 3.2 |
| | At Effluent discharge point | 8.2 | 18 | 14.4 | 8.2 | 4.2 |
| | 1 KM Downstream of effluent discharge point | 7.8 | 132 | 16.0 | 8.3 | 4.2 |
| | 15 KM Downstream at Bhanga | 7.8 | 154 | 17.6 | 8.2 | 4.0 |
| 09.01.11 | 1 KM Upstream of effluent discharge point | 7.6 | 136 | 16.0 | 8.0 | 2.2 |
| | At Effluent discharge point | 7.5 | 142 | 17.6 | 8.0 | 2.4 |
| | 1 KM Downstream of effluent discharge point | 7.6 | 140 | 17.6 | 7.9 | 2.6 |
| | 15 KM Downstream at Bhanga | 7.5 | 146 | 16.0 | 8.0 | 2.2 |
| | 35 Km Downstream at Karimganj | 7.7 | 154 | 14.4 | 7.8 | 1.6 |
| 23.01.11 | 1 KM Upstream of effluent discharge point | 7.2 | 148 | 17.6 | 7.6 | 1.1 |
| | At Effluent discharge point | 7.2 | 136 | 16.0 | 7.8 | 1.0 |
| | 1 KM Downstream of effluent discharge point | 7.3 | 144 | 16.0 | 7.8 | 0.9 |
| | 15 KM Downstream at Bhanga | 7.3 | 152 | 14.4 | 7.9 | 1.1 |
| | 35 Km Downstream at Karimganj | 7.4 | 142 | 17.6 | 7.9 | 1.0 |
| 30.01.11 | 1 KM Upstream of effluent discharge point | 8.1 | 124 | 17.6 | 8.3 | 1.1 |
| | At Effluent discharge point | 8.3 | 118 | 16.0 | 8.2 | 1.2 |
| | 1 KM Downstream of effluent discharge point | 8.1 | 126 | 16.0 | 8.2 | 1.2 |
| | 15 KM Downstream at Bhanga | 8.0 | 120 | 14.4 | 8.3 | 1.1 |

C. GROUND WATER QUALITY DATA IN THE MONTH OF JANUARY 2011

| Date | Source | pH | Mercury mg/l |
|-------------|--|-----------|---------------------|
| 04.01.11 | Piezometric tube well near sludge pit | 7.7 | BDL |
| 04.01.11 | Ground water adjacent to Mill boundary | 7.7 | BDL |
| 11.01.11 | Piezometric tube well near sludge pit | 7.8 | 0.0025 |
| 11.01.11 | Ground water adjacent to Mill boundary | 7.8 | BDL |
| 18.01.11 | Piezometric tube well near sludge pit | 8.1 | BDL |
| 18.01.11 | Ground water adjacent to Mill boundary | 7.6 | BDL |
| 25.01.11 | Piezometric tube well near sludge pit | 6.3 | BDL |
| 25.01.11 | Ground water adjacent to Mill boundary | 6.3 | BDL |

D. STACK EMISSION MONITORING DATA IN THE MONTH OF JANUARY 2011

| SOURCE | Particulate Matter (mg/Nm³) | CO₂ (mg/Nm³) | H₂S (mg/Nm³) | CO (%) | Cl₂ (mg/Nm³) | HCl (mg/Nm³) |
|------------------|---|---|---|---------------|---|--------------------------------|
| C.F.Boiler – 1 | 128.2 | 6.4 | - | Less than 1 | - | - |
| C.F.Boiler – 2 | 136.1 | 6.7 | - | Less than 1 | - | - |
| C.F.Boiler - 3 | 120.5 | 6.3 | - | Less than 1 | - | - |
| S / R Boiler | 114.2 | 5.8 | 8.8 | - | - | - |
| Hypo Stack (C&C) | - | - | - | - | 12.8 | - |
| HCl Stack (C&C) | - | - | - | - | - | 29.6 |

E. AMBIENT AIR MONITORING DATA IN THE MONTH OF JANUARY 2011

| Source | Suspended Particulate Matter ($\mu\text{g}/\text{Nm}^3$) | SO₂ ($\mu\text{g}/\text{Nm}^3$) | NO_x ($\mu\text{g}/\text{Nm}^3$) | RSPM ($\mu\text{g}/\text{Nm}^3$) |
|-----------------------------|--|--|--|--|
| Yard No 7 at Security Point | 210.48 | 16.8 | 10.8 | Not applicable |
| At corner of Lagoon | 185.2 | 16.7 | 14.8 | Not applicable |
| Time Office | 159.3 | 15.4 | 13.6 | 88.5 |
| Township | 100.65 | 11.2 | 9.4 | 59.5 |