

A. TREATED EFFLUENT QUALITY IN THE MONTH OF SEPT 2010

| Date | Temp °C | pH | SS Mg/L | COD Mg/L | BOD Mg/L |
|------------|------------|-----|------------|-------------|-------------|
| 01.09.2010 | 31 | 7.9 | 100 | 312 | 30 |
| 02.09.2010 | 30 | 7.8 | 96 | 320 | 24 |
| 03.09.2010 | 30 | 7.7 | 98 | 328 | 27 |
| 04.09.2010 | 29 | 7.7 | 100 | 320 | 24 |
| 05.09.2010 | 29 | 7.8 | 98 | 336 | -* |
| 06.09.2010 | 30 | 7.8 | 100 | 328 | - |
| 07.09.2010 | 29 | 7.7 | 98 | 320 | - |
| 08.09.2010 | 30 | 8.2 | 98 | 344 | - |
| 09.09.2010 | 30 | 7.7 | 96 | 336 | - |
| 10.09.2010 | 30 | 7.6 | 98 | 328 | - |
| 11.09.2010 | 31 | 7.2 | 100 | 336 | - |
| 12.09.2010 | 30 | 7.5 | 96 | 312 | - |
| 13.09.2010 | 29 | 7.9 | 98 | 336 | - |
| 14.09.2010 | 29 | 7.8 | 96 | 320 | - |
| 15.09.2010 | 30 | 7.3 | 100 | 312 | 24 |
| 16.09.2010 | 29 | 7.4 | 98 | 328 | 29 |
| 17.09.2010 | 29 | 7.3 | 96 | 320 | 24 |
| 18.09.2010 | 30 | 7.6 | 98 | 336 | 27 |
| 19.09.2010 | 30 | 7.7 | 96 | 328 | 27 |
| 20.09.2010 | 29 | 7.6 | 100 | 336 | 24 |
| 21.09.2010 | 29 | 7.4 | 96 | 320 | 27 |
| 22.09.2010 | 30 | 7.7 | 96 | 304 | 24 |
| 23.09.2010 | 30 | 7.2 | 94 | 312 | 21 |
| 24.09.2010 | 29 | 7.6 | 98 | 320 | 24 |
| 25.09.2010 | 29 | 7.6 | 94 | 304 | 24 |
| 26.09.2010 | 29 | 7.5 | 96 | 328 | 27 |
| 27.09.2010 | 28 | 7.7 | 98 | 320 | 24 |
| 28.09.2010 | 29 | 7.6 | 96 | 328 | 27 |
| 29.09.2010 | 30 | 7.6 | 94 | 320 | 24 |
| 30.09.2010 | 30 | 7.6 | 96 | 328 | 27 |

* BOD incubator in Laboratory was under maintenance during the period 05.09.10 to 14.09.2010, hence tests could not be done.

B. RIVER WATER QUALITY OF BARAK AND KUSHIYARA IN THE MONTH OF SEPT 2010

| Date | LOCATIONS | pH | SS mg/l | COD mg/l | DO mg/l | BOD mg/l |
|------------|---------------------------------------------|-----|------------|-------------|------------|-------------|
| 19.09.2010 | 1 KM Upstream of effluent discharge point | 7.0 | 252 | 16.0 | 6.2 | 1.0 |
| | At Effluent discharge point | 7.1 | 350 | 19.2 | 6.3 | 1.2 |
| | 1 KM Downstream of effluent discharge point | 7.0 | 410 | 17.2 | 6.1 | 1.2 |
| | 15 KM Downstream at Bhanga | 7.2 | 450 | 17.6 | 6.1 | 1.2 |
| 26.09.2010 | 1 KM Upstream of effluent discharge point | 7.6 | 380 | 20.8 | 6.3 | 0.4 |
| | At Effluent discharge point | 7.5 | 420 | 19.2 | 6.0 | 1.1 |
| | 1 KM Downstream of effluent discharge point | 7.2 | 380 | 19.2 | 6.4 | 0.9 |
| | 15 KM Downstream at Bhanga | 7.4 | 450 | 17.6 | 6.2 | 0.9 |
| | 35 Km Downstream at Karimganj | 7.3 | 430 | 19.2 | 6.4 | 0.7 |

C. GROUND WATER QUALITY IN SEPT 2010

| Date | Source | pH | Mercury mg/l |
|------------|---------------------------|-----|-----------------|
| 07.09.2010 | Bore well near sludge pit | 7.8 | BDL |
| 07.09.2010 | Piezometric tube well | 8.0 | 0.0025 |
| 14.09.2010 | Bore well near sludge pit | 7.6 | BDL |
| 14.09.2010 | Piezometric tube well | 7.5 | 0.0025 |
| 28.09.2010 | Bore well near sludge pit | 7.0 | BDL |
| 28.09.2010 | Piezometric well | 7.5 | BDL |

D. STACK EMISSION MONITORING DATA IN THE MONTH OF SEPTEMBER 2010

| SOURCE | Particulate Matter (mg/Nm³) | CO₂ (mg/Nm³) | H₂S (mg/Nm³) | CO (%) | Cl₂ (mg/Nm³) | HCl (mg/Nm³) |
|-----------------------------|-----------------------------------------------|-------------------------------------------|-------------------------------------------|--------------------|-------------------------------------------|--------------------------------|
| C.F.Boiler – 1 | 148.1 | 6.1 | - | Less than 1 | - | - |
| C.F.Boiler – 2 | 141.2 | 6.3 | - | Less than 1 | - | - |
| C.F.Boiler - 3 | 132.1 | 6.2 | - | Less than 1 | - | - |
| Soda Recovery Boiler | 124.6 | 5.8 | 9.2 | Less than 1 | - | - |
| Hypo Stack (C&C) | - | - | - | - | 12.8 | - |
| HCl Stack (C&C) | - | - | - | - | - | 29.6 |

E. AMBIENT AIR MONITORING DATA IN THE MONTH OF SEPT 2010

| Source | Suspended Particulate Matter (µg/Nm³) | SO₂ (µg/Nm³) | NO_x (µg/Nm³) | RSPM (µg/Nm³) |
|-----------------------------|---------------------------------------------------------|-------------------------------------------|-------------------------------------------|---------------------------------|
| Yard No 7 at Security Point | 216.7 | 15.4 | 12.0 | Not applicable |
| At corner of Lagoon | 161.0 | 15.9 | 12.6 | Not applicable |
| Time Office | 152.0 | 11.5 | 10.3 | 75.8 |
| Township | 112.0 | 9.2 | 7.3 | 47.4 |

