

**STACK EMISSION MONITORING & ANALYSIS DATA BASE**

(Apr'09-Sept'09)

**Stack Physical Parameters**

Stack connected to	Height from GL (m)	Internal dia at sampling point (m)
DEG	58	3.16
Hot oil Heater	69	1.9
Boiler/Incinerator	88	1.7
PX oxidation off gas (PX - Paraxylene)	21.85	2.2
Vent gas scrubber -I (Scrubbing of Process off gas from)	18.35	1.6
Vent gas scrubber -II (PTA Storage Scrubber)	15.15	2.1

- Note:** 1. Stack emissions are monitored wrt to PM, CO, SO<sub>2</sub>. However as per the Air & Water Consent to operate only PM & CO are to be monitored. Hydrocarbon monitoring done on quarterly basis in DEG & Hot oil heater stacks.  
 2. As there is no P M, SO<sub>2</sub> & NO<sub>2</sub> from Process emission (PX off gas, Vent gas scrubber- I & II), so these parameters are not measured from these stacks.  
 3. Incinerator emission is through Boiler stack ie Boiler & Incinerator stack is common.  
 4. Boiler not running during normal operation. It is operated only during start up & shut down of the Plant.  
 5. Stack sampling from Hot Oil Heater, DEG, Incinerator conducted by third party as well as by in- house, whereas for vent gas scrubber I,II, PX Off Gas stack samp conducted in-house.

**ANALYSIS RESULTS**

Month - April'09

S No.	Parameter	Hot oil heater	DEG	Incinerator	PX off gas Stack	Vent gas scrubber-I	Vent gas scrubber-II
1	PM (mg/Nm <sup>3</sup> )	139.0	69.9	50.2	-	-	-
2	CO (% v/v)	<0.01	<0.2	<0.2	0.39	<0.01	0.37
3	SO <sub>2</sub> (mg/Nm <sup>3</sup> )	2225.0	1862.4	79.2	-	-	-
4	NO <sub>2</sub> (mg/NM <sup>3</sup> )	44.0	485.8	-	-	-	-

**WBPCB SAMPLING:**

June'09

S No.	Parameter	Hot oil heater	DEG	Incinerator
1	PM (mg/Nm <sup>3</sup> )	-	22.82	28.3
2	CO (% v/v)	-	-	-

**ANALYSIS RESULTS**

Month - July'09

S No.	Parameter	Hot oil heater	DEG	Incinerator	PX off gas Stack	Vent gas scrubber-I	Vent gas scrubber-II
1	PM (mg/Nm <sup>3</sup> )	170.0	103.0	58.0	-	-	-
2	CO (% v/v)	<0.2	<0.2	<0.2	-	-	-
3	SO <sub>2</sub> (mg/Nm <sup>3</sup> )	3623.0	3588.0	490.8	-	-	-
4	NO <sub>2</sub> (mg/Nm <sup>3</sup> )	438.0	750.0	-	-	-	-

S No.	Parameter	Hot oil heater	DEG	Incinerator
1	Total HC	549	1244	-

**ANALYSIS RESULTS**

Month - August'09

S No.	Parameter	Hot oil heater	DEG	Incinerator	PX off gas Stack	Vent gas scrubber-I	Vent gas scrubber-II
1	PM (mg/Nm <sup>3</sup> )	145	123.0	68.0	-	-	-
2	CO (% v/v)	<0.01	<0.2	<0.2	-	-	-
3	SO <sub>2</sub> (mg/Nm <sup>3</sup> )	1940	1195.0	230.0	-	-	-
4	NO <sub>2</sub> (mg/Nm <sup>3</sup> )	24	778.0	-	-	-	-

**WBPCB SAMPLING:**

S No.	Parameter	Hot oil heater	DEG	Incinerator
1	PM (mg/Nm <sup>3</sup> )	43.82	32.78	n/m