STACK EMISSION MONITORING & ANALYSIS DATA BASE

(April'15-Sept'15)

Stack Physical Parameters

Exis	ting Plant	
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

Expansion Plant									
Stack connected to	Height from GL (m)	Internal dia at sampling point (m)							
Hot oil Heater	30	1.4							
DEG & Incinerator	70	2.2							
Off Gas Combustion Unit	30								

Note:

- 1. Stack emissions are monitored wrt to PM ,CO, SO2, NO2. 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, SO₂ & NO2 from Process emission (PX off gas, Vent gas scrubber- I & II, off gas combustion unit) so these parameters are not measured from these stacks.
- 3. Incinerator emission is through Boiler stack ie Boiler & Incinerator stack is common in the existing plant.
- 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 in the Existing & Expansion Plant are conducted by third party, whereas for vent gas scrubber I,II, PX Off Gas stack, off gas combustion emission sampling is conducted in-house.

ANALYSIS RESULTS

Month - April'15

				Exis	sting Plant			Expansion Plant		
S No.	Parameter	Hot oil heater	DEG	Incinerator	PX off gas Stack	Vent gas scrubber-l	Vent gas scrubber-II	Hot Oil Heater	DEG & Incinerat or	Off Gas Combustion
1	PM (mg/Nm3)	127.0		stop*				71		-
2	CO (%, v/v)	<0.2	oton**		0.13	Notventing	Notventing	<0.2	Ctondby	-
3	SO ₂ (mg/Nm3)	442.9	stop**			Not venting	Not venting	398.9	Standby	-
4	NO ₂ (mg/NM ³)	197.4						163.5		-

			Existing Plant	Expansion Plant		
S No.	Parameter	Hot oil heater	DEG	Incinerator	Hot Oil Heater	DEG & Incinerator
1	NMHC (ppm)	<1.0	stop**	stop	<1.0	stop

ANALYSIS RESULTS

Month -May'15

				Exis	sting Plant			Expansion Plant		
S No.	Parameter	Hot oil heater	DEG	Incinerator	PX off gas Stack	Vent gas scrubber-l	Vent gas scrubber-II	Hot Oil Heater	DEG & Incinerat or	Off Gas Combustion
1	PM (mg/Nm3)	112.0						71		-
2	CO (%, v/v)	<0.2		[0.17			<0.2	G. 11	-
3	SO ₂ (mg/Nm3)	425.2	stop**	stop*		Not venting	Not venting	376.6	Standby	-
4	NO ₂ , (mg/Nm3	171.4						168.5		-

WBPCB SAMPLING:

			Existing Plant		Expansion Plant		
S No.	Parameter	Hot oil heater	DEG	Incinerator	Hot Oil Heater	DEG & Incinerator	
1	PM (mg/Nm3)	86.11	stop**	stop	164.41	standby	

ANALYSIS RESULTS

Month -June'15

				Exis	ting Plant			Expansion Plant		
S No.	Parameter	Hot oil heater	DEG	Incinerator	PX off gas Stack	Vent gas scrubber-l	Vent gas scrubber-II	Hot Oil Heater	DEG & Incinerat or	Off Gas Combustion
1	PM (mg/Nm3)	98.0						71.0		-
2	CO (%, v/v)	<0.2		j	0.07	Material	Not venting	<0.2	standby	-
3	SO ₂ (mg/Nm3)	394.9	stop**	stop*		Not venting		376.6		-
4	NO ₂ , (mg/Nm3	198.3						168.5		-

ANALYSIS RESULTS

Month - July'15

				Exis	ting Plant			E	Expansion Plant		
S No.	Parameter	Hot oil heater	DEG	Incinerator	PX off gas Stack	Vent gas scrubber-l	Vent gas scrubber-II	Hot Oil Heater	DEG & Incinerat or	Off Gas Combustion	
1	PM (mg/Nm3)	134								-	
2	CO (%, v/v)	<0.2		j		0.1			.		-
3	SO ₂ (mg/Nm3)	792.4	stop**	stop*		Not venting	Not venting	Not done	standby	-	
4	NO ₂ , (mg/Nm3	252.3								-	

			Existing Plant		Expansion Plant		
S No.	Parameter	Hot oil heater	DEG	Incinerator	Hot Oil Heater	DEG & Incinerator	
1	NMHC (ppm)	<1.0	stop**	-	not done	standby	

ANALYSIS RESULTS

Month -Aug'15

				Exis	ting Plant			E	xpansion F	Plant											
S No.	Parameter	Hot oil heater	DEG	Incinerator	PX off gas Stack	Vent gas scrubber-l	Vent gas scrubber-II	Hot Oil Heater	DEG & Incinerat or	Off Gas Combustion											
1	PM (mg/Nm3)	24.0						19		-											
2	CO (%, v/v)	<0.2	-4**		oton*	cton*	cton*	stop*	cton*	cton*	cton*	oton*	oton*	oton*	oton*	not done	Naturation	Nations	<0.2		-
3	SO ₂ (mg/Nm3)	448.1	stop**	Stop.		Not venting	Not venting	336.9	standby	-											
4	NO ₂ , (mg/Nm3	160.9						129.6		-											

WBPCB SAMPLING:

			Existing Pla	nt	Expans	ion Plant
S No.	Parameter	Hot oil heater	DEG	Incinerator	Hot Oil Heater	DEG & Incinerator
					Heater	IIICIIICI atoi
1	PM (mg/Nm3)	114.2	stop**	stop*	58.42	standby

ANALYSIS RESULTS Month -September'15

				Exis	ting Plant			Е	Expansion Plant			
S No.	Parameter	Hot oil heater	DEG	Incinerator	PX off gas Stack	Vent gas scrubber-l	Vent gas scrubber-II	Hot Oil Heater	DEG & Incinerat or	Off Gas Combustion		
1	PM (mg/Nm3)	82.0						96.0		-		
2	CO (%, v/v)	<0.2	-4**		-4*	oton*	0.11	Nat	Nat	<0.2	otondby.	-
3	SO ₂ (mg/Nm3)	617.5	stop**	stop*		Not venting	Not venting	453.8	standby	-		
4	NO ₂ , (mg/Nm3	264.6						145.2		-		

^{*} Co processing activity is on process with M/S Ambuja Cement Ltd.(ACL) as per CPCB approval

^{**} April'15 onwards we are using Grid power