STACK EMISSION MONITORING & ANALYSIS DATA BASE

(April'2020 to September'2020) 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

Exp	oansion Plan	t
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 PM, SO₂ & NO₂ from Process emission (PX off gas, Vent gas scrubber- I & II, off gas combustion unit)
- 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'2020

				Exis	ting Plant			Expansion Plant		
S No.	Parameter	Hot oil heater	DEG	Incinerator	PX off gas Stack	Vent gas scrubber-l	Vent gas scrubber-ll	Hot Oil Heater	DEG & Incinerat or	Off Gas Combustion
1	PM (mg/Nm3)			<u> </u>						-
2	CO (%, v/v)	Sampling	Not Done Due T	o COVID-19	Pandamic	Not ventine	Natvantina		Ctorodby.	-
3	SO ₂ (mg/Nm3)		Situation & L	ockdown.		Not venting	Not venting		Standby	-
4	NO ₂ (mg/NM ³)			l						-

ANALYSIS RESULTS

Month -May'2020

				Exis	sting Plant			E	xpansion F	lant
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)									-
2	CO (%, v/v)	Samplir	ng Not Done Due T		Pandamic	N 1 ()	.		0, "	-
3	SO ₂ (mg/Nm3)		Situation & L	ockdown.		Not venting	Not venting		Standby	_
4	NO ₂ , (mg/Nm3									_

WBPCB SAMPLING:

		Existing Plant	E	xpansior	n Plant
S No.	Parameter	Sampling Not Done Due To COVID-19 Pan	damic	Heater	DEG &
3 NO.	Parameter	, ,	luaiiiic	пеацег	Incinerator
1	PM (mg/Nm3)	Situation & Lockdown.			stop

ANALYSIS RESULTS

Month -June'2020

				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)	32.5						93.1		-
2	CO (ppm)	89.7	, 44	, ,	0.10		N 1 ()	78.5		-
3	SO ₂ (mg/Nm3)	647	stop**	stop*		Not venting	Not venting	572.8	standby	-
4	NO ₂ , (mg/Nm3	329.5						276		-

			Existing Plant	Expansion	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 - July'2020

				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-ll	Hot Oil Heater	DEG & Incinerat or	Off Gas Combustion
1	PM (mg/Nm3)	78.5						37.7		-
2	CO (ppm)	81.7	4 44		0.09			72.8		-
3	SO ₂ (mg/Nm3)	630.4	stop**	stop*		Not venting	Not venting	559.6	standby	-
4	NO ₂ , (mg/Nm3	314.5						290.8		-

ANALYSIS RESULTS

Month - August'2020

				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)	56.5						51		-				
2	CO (ppm)	89.6	-t**	stop*	-t*	cton*	ston*	cton*	0.11	Not venting	Nat vantina	78.7	ata a albu	-
3	SO ₂ (mg/Nm3)	466.1	stop**			Not venting	Not venting	403.2	standby	-				
4	NO ₂ , (mg/Nm3	216.2						192.6		-				

WBPCB SAMPLING:

Aug-20

				Existing Plan	nt		Expansi	on Plant
S No.	Para	meter	Hot oil heater	DEG	Incinerator	Hot C	il Heater	DEG & Incinerator
			Sampling don					

ANALYSIS RESULTS

Month -September'2020

				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)	98.6						83.8		-
2	CO (%, v/v)	97.8	-4**	-4*	0.085	NI = 4 = . = 4: - =	N = 4 = = 4 !== =:	83.8	. 4	-
3	SO ₂ (mg/Nm3)	688.4	stop**	stop*		Not venting	Not venting	497.4	standby	-
4	NO ₂ , (mg/Nm3	298.7						219.8		

			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	

^{*} Co- processing activity is on process with M/S Orisha Cement Ltd (Dalmia) as per CPCB approval 3rd party Laboratory Vendor's NABL / MOEFCC approval copies as Annexure-1a, NA- Not Analyzed

SDM: Shutdown Maintenance

^{**} April'2015 onwards we are using Grid power & Bothe the In-house Inceinerators are in stop condition.