

An ISO 9001-2015 Certified Company

(MoEF Approved)

871/B/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10. Phone : **(O)** 0265 - 6131000, 6131001



#### **ENVIRONMENTAL MONITORING REPORT**

LABORATORY TEST REPORT - STACK								
DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 00						
Effective Date:, 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015						

# REPORT NO.: SEP19/007/01 (ULR- TC709919000012710F) SAMPLE DETAILS

C N	C No Dozomotoro Unit				Dogovini	d a se	
	STACK DETAILS						
14.	Description of Sample:	Sampling Bottle	s: Seale	d√	Thimble: Packed √	Bladder: Clamped	
12.	Test Requirement: Stack	Air Monitoring	13.	Samp	ling Procedure: IS Met	hod	
10.	Reporting Date: 21.09.20	019	11.	Samp	ole Collected By: Mr.Ja	ved Haveliwala	
8.	Analysis commenced on:	09.09.2019	9.	Analy	Analysis Completed on: 09.09.2019		
6.	Sampling Time: 13:00 hr		7.	Samp	Sampling Duration:10 Mins		
4.	Sample Date: 03.09.2019		5.	Samp	Sampling Location: Boiler GT 5602		
2.	Sample ID: 1837838246-	007SE19SE01	3.	Clien	: Representative : Mr.R	ajendra Chakraborty	
	Halol-Kalol Road, KATOL,	Tal :. Kalol Dist	. – Pano	<u>:ḥmaha</u>	s -389 330		
1.	Name & Address of Client: M/s. INEOS Styrolution				imited,		

			<u>ST</u>	ACK DETAILS		
S.No.	<u>Parameters</u>	Unit (SI)		<u>Description</u>		
1.	Source		:	Boiler GT-560	02	
2.	Height	m	:	30.5		
3.	Diameter	mm	:	800		
4.	Temperature	°C	:	120		
5.	Velocity	m/s	:	6.85		
6.	Type of fuel used		:	Natural Gas		
7.	Quantity of fuel used	-	:	-		
S.No.	<u>Parameters</u>	Unit		Results	Specification/ SPCB Norms	Method Used
4	D 11 - 1 1 B 11	(813	1	20	150	

S.No.	<u>Parameters</u>	<u>Unit</u>		Results	Specification/ SPCB Norms	Method Used
1.	Particulate Matter	mg/Nm³	:	26	150	IS 11255 (Part 1): 1985
2.	Sulphur Dioxide(SO <sub>2</sub> )	ppm		N.D.	100	IS 11255 (Part 2): 1985
3.	Oxides of Nitrogen (NOx)	ppm		4.96	50	IS 5182 (Part 6 ) : 2006

Remark: Gujarat Pollution Control Board Norms are reffered as per consent./N.D. - Not Detected

Authorized By - ABD Name : Ashal Patel

Designation : Sr.Chemist

NOTE:

- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
- Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
- The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----



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# KADAM ENVIRONMENTAL CONSULTANTS

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(MoEF Approved)

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#### **ENVIRONMENTAL MONITORING REPORT**

LABORATORY TEST REPORT - STACK							
DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 00					
Effective Date:. 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015					

### REPORT NO.: SEP19/007/05 (ULR- TC709919000012714F)

Name & Address of Client: M/s. INEOS Styrolution India Limited,

#### **SAMPLE DETAILS**

	Halol-Kalol Road, KATOL, Tal :. Kalol Dist. – Panchmahals -389 330								
2.	Sample ID: 1837838246-007SE19SE05			3. Clie	Client Representative: Mr.Rajendra Chakraborty				
4.	Sample Date: 03.09.2019				5. Sar	Sampling Location: Hot oil Unit - I			
6.	Sampling Time: 13:20 hr				7. Sar	mpling	Duration:10 Mins		
8.	Analysis commenced on:	09.09	.2019		9. Ana	alysis	Completed on: 09.0	9.2019	
	Reporting Date:. 21.09.2			_			Collected By: Mr.Jav		
12.	Test Requirement: Stack	r		ــــــــــــــــــــــــــــــــــــــ		<del></del>	Procedure: IS Met	hod	
14.	Description of Sample:	Sam	pling Bottle	s: :	Sealed √	Th	imble: Packed √	Bladder: Clamped	
				ST	ACK DET	<u>AILS</u>			
S.No.	<u>Parameters</u>		<u>Unit</u> (SI)				<u>Descript</u>	<u>ion</u>	
1,	Source				Hot oil l	Jnit –	·ĭ		
2.	Height		m	:	40.5				
3.	Diameter		mm	:	488				
4.	Temperature		°C	:	82				
5.	Velocity		m/s	:	6.51				
6.	Type of fuel used			:	Natural C	Gas			
7.	Quantity of fuel used		SCM/hr	:	266				
S.No.	<u>Parameters</u>		<u>Unit</u>		Resul	<u>ts</u>	Specification/ SPCB Norms	<u>Method Used</u>	
1.	Particulate Matter		mg/Nm <sup>3</sup>	:	12		150	IS 11255 (Part 1): 1985	
2.	Sulphur Dioxide(SO₂)		ppm	:	N.D.	•	100	IS 11255 (Part 2): 1985	
3.	Oxides of Nitrogen (NO	Dx)	ppm	:	2.41	•	50	IS 5182 (Part 6 ) : 2006	
		· · · · · · · · · · · · · · · · · · ·	<u></u>		<u> </u>		L	L	

Remark: Gujarat Pollution Control Board Norms are reffered as per consent. N.D: Not detected

Authorized By - ABD Name : Ashal Patel

NOTE:

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Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

**Designation: Sr.Chemist** 



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### **ENVIRONMENTAL MONITORING REPORT**

LABORATORY TEST REPORT - STACK							
DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 00					
Effective Date:. 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015					

# REPORT NO.: SEP19/007/06 (ULR- TC709919000012715F) SAMPLE DETAILS

1.	Name & Address of Client: M/s. INEOS Styrolution India Limited,				
	Halol-Kalol Road, KATOL, Tal :. Kalol Dis	t. – Panch	nmahals -389 330		
2.	Sample ID: 1837838246-007SE19SE06	3.	Client Representative: Mr.Rajendra Chakraborty		
4.	Sample Date: 03.09.2019	5.	Sampling Location: Hot oil Unit – II		
6.	Sampling Time: 13:40 hr	7.	Sampling Duration:10 Mins		
8.	Analysis commenced on: 09.09.2019	9.	Analysis Completed on: 09.09.2019		
10.	Reporting Date:. 21.09.2019	11.	Sample Collected By: Mr.Javed Haveliwala		
12.	Test Requirement: Stack Air Monitoring	13.	Sampling Procedure: IS Method		
14.	Description of Sample: Sampling Bottle	es: Sealed	d √ Thimble: Packed √ Bladder: Clamped		

	STACK DETAILS						
S.No.	<u>Parameters</u>	<u>Unit</u> (SI)		Description			
1.	Source		••	Hot oil Unit -	·II		
2.	Height	m	:	40.5			
3.	Diameter	mm	:	488			
4.	Temperature	°c	:	80			
5.	Velocity	m/s	:	6.49			
6.	Type of fuel used		:	Natural Gas			
7.	Quantity of fuel used	SCM/hr	:	266		`	
S.No.	<u>Parameters</u>	Unit		<u>Results</u>	Specification/ SPCB Norms	Method Used	
1.	Particulate Matter	mg/Nm <sup>3</sup>	:	23	150	IS 11255 (Part 1): 1985	
2.	Sulphur Dioxide(SO <sub>2</sub> )	ppm	:	N.D	100	IS 11255 (Part 2) : 1985	
	1	ı	1	I	I	i	

Remark: Gujarat Pollution Control Board Norms are reffered as per consent. N.D: Not detected

Authorized By - ABD Name : Ashal Patel

Oxides of Nitrogen (NOx)

3.

Designation : Sr.Chemist

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ppm

-----END OF REPORT-----

IS 5182 (Part 6): 2006



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#### **ENVIRONMENTAL MONITORING REPORT**

ABORATORY TEST REPORT - STACK								
DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 00						
Effective Date:, 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015						

# REPORT NO.: SEP19/007/02 (ULR- TC709919000012711F)

		<u>s</u>	AM	IPLE D	<u>ETAILS</u>		
1.	Name & Address of Client: M/s	s. INEOS Sty	/rol	lution Ir	ndia Lim	ited,	
	Halol-Kalol Road, KATOL, Tal:	. Kalol Dist	. –	Panchn	nahals -:	389 330.	
2.	Sample ID: 1837838246-0075	E19SE02		3. (	Client Re	epresentative : Mr.F	Rajendra Chakraborty
4.	Sample Date: 03.09.2019			5.	Samplin	g Location: D.G. Se	t – 2 (1010 KVA)-A
6.	Sampling Time: 14:00 hr			7.	Samplin	g Duration:10 Mins	
8.	Analysis commenced on: 09.0	9.2019		9.	Analysis	Completed on: 09.	09.2019
10.	Reporting Date: 21.09.2019			11.	Sample	Collected By: Mr.Ja	aved Haveliwala
12.	Test Requirement: Stack Air M	lonitoring		13.	Samplin	g Procedure: IS Me	thod
14.	Description of Sample: Sam	pling Bottle				himble: Packed √	Bladder: Clamped
		3	ST/	ACK DE	<u>ETAILS</u>		
S.No.	<u>Parameters</u>	Unit (SI)				Descript	tion
1.	Source		:	D.G. S	Set - 2	(1010 KVA)-A	
2.	Height	m	:	18			
3.	Diameter	mm	:	200			
4.	Temperature	°С	:	122			
5.	Velocity	m/s	:	12.55			
6.	Type of fuel used		:	Diesel			
7.	Quantity of fuel used	Lit/day	:	4608			
S.No.	<u>Parameters</u>	<u>Unit</u>		Res	ults	Specification/ SPCB Norms	Method Used
1.	Particulate Matter	mg/Nm³	:	8	30	150	IS 11255 (Part 1): 1985
2.	Sulphur Dioxide(SO <sub>2</sub> )	ppm	:	14	.20	100	IS 11255 (Part 2): 1985
3.	Oxides of Nitrogen (NOx)	ppm	:	4.	35	50	IS 5182 (Part 6 ) : 2006
Rem	ark: Guiarat Pollution Cont	rol Board	Νo	rms ar	e reffer	red as per consen	nt.

Remark: Gujarat Pollution Control Board Norms are reffered as per consent.

Authorized By - ABP Name : Ashal Patel

NOTE:

al Patel Designation: Sr.Chemist

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2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

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-----END OF REPORT-----

Page 1 of 1



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LABORATORY TEST REPORT - STACK							
DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 00					
Effective Date:. 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015					

## REPORT NO.: SEP19/007/03 (ULR- TC709919000012712F)

		<u>s</u>	AN	IPLE DETAILS				
1.	Name & Address of Client: M/s. INEOS Styrolution India Limited,							
	Halol-Kalol Road, KATOL, Tal :. Kalol Dist Panchmahais -389 330.							
2.	Sample ID: 1837838246-007S				Client Representative : Mr.Rajendra Chakraborty			
4.	Sample Date: 03.09.2019			5. Sampling	Sampling Location: D.G. Set – 2 (1010 KVA)-B			
6.	Sampling Time: 14:15 hr			7. Sampling Duration:10 Mins				
8.	Analysis commenced on: 09.09.2019			9. Analysis Completed on: 09.09.2019				
10.	Reporting Date: 21.09.2019			11. Sample Collected By: Mr.Javed Haveliwala				
12.	Test Requirement: Stack Air M	onitoring			Sampling Procedure: IS Method			
14.	4. Description of Sample: Sampling Bottles: Sealed ✓ Thimble: Packed ✓ Bladder: Clamped							
STACK DETAILS								
S.No.	<u>Parameters</u>	<u>Unit</u> (SI)		<u>Description</u>				
1.	Source		:	D.G. Set - 2 (1010 KVA)-B				
2.	Height	m	:	18				
3.	Diameter	mm	:	200				
4.	Temperature	°С	:	126				
5.	Velocity	m/s	:	12.58				
6.	Type of fuel used		:	Diesel	Diesel			
7.	Quantity of fuel used	-	:	4608	508			
S.No	. Parameters	<u>Unit</u>		Results	Specification/ SPCB Norms	Method Used		
1.	Particulate Matter	mg/Nm³	:	50	150	IS 11255 (Part 1): 1985		
2.	Sulphur Dioxide(SO₂)	ppm	:	20.08	100	IS 11255 (Part 2) : 1985		
3.	Oxides of Nitrogen (NOx)	ppm	:	6.40	50	IS 5182 (Part 6 ): 2006		
Remark: Gujarat Pollution Control Board Norms are reffered as per consent.								
Authorized By - OSD								
Nam	Name : Ashal Patel Designation : Sr.Chemist							

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LABORATORY TEST REPORT - STACK							
DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 00					
Effective Date:. 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015					

### REPORT NO.: SEP19/007/04 (ULR- TC709919000012713F) SAMPLE DETAILS

1.	Name & Address of Client: M/s. INEOS Styrolution India Limited,						
	Halol-Kalol Road, KATOL, Tal Kalol Dist. – Panchmahals -389 330						
2.	Sample ID: 1837838246-007SE19SE04		Client Representative: Mr.Rajendra Chakraborty				
4.	Sample Date: 03.09.2019		Sampling Location: D.G. Set – 3 (1250 KVA)				
6.	Sampling Time: 14:40 hr		Sampling Duration:10 Mins				
8.	Analysis commenced on: 09.09.2019		Analysis Completed on: 09.09.2019				
10.	Reporting Date:. 21.09.2019		Sample Collected By: Mr.Javed Haveliwala				
12.	Test Requirement: Stack Air Monitoring	13.	Sampling Procedure: IS Method				
14.	Description of Sample: Sampling Bottles	: Sealed	d √ Thimble: Packed √ Bladder: Clamped				

14.   1	Description of Sample:   Sar	npling Bottles:		<u>-</u>	nimble: Packed √	Bladder: Clamped	
STACK DETAILS							
S.No.	<u>Parameters</u>	Unit (SI)		<u>Description</u>			
1.	Source		:	D.G. Set - 3 (1250 KVA)			
2.	Helght	m	:	30			
3.	Diameter	mm	:	350			
4.	Temperature	°c	:	136			
5.	Velocity	m/s	:	13.08			
6.	Type of fuel used		-	Diesel			
7.	Quantity of fuel used	scm/hrs	:	6043			
S.No.	<u>Parameters</u>	<u>Unit</u>		Results	Specification/ SPCB Norms	Method Used	
1.	Particulate Matter	mg/Nm³	:	47	150	IS 11255 (Part 1): 1985	
2.	Sulphur Dioxide(SO <sub>2</sub> )	ppm	:	17.64	100	IS 11255 (Part 2): 1985	
3.	Oxides of Nitrogen (NOx)	ppm	:	7.17	50	IS 5182 (Part 6 ): 2006	

Remark: Gujarat Pollution Control Board Norms are reffered as per consent.

Authorized By - ABD Name: Ashal Patel

NOTE:

**Designation: Sr.Chemist** Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.

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