



Annexure - B (Collectively)
Sadekar Enviro Engineers Pvt. Ltd.

Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604, Maharashtra State, India.
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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/GSL/2019/102	Date	03/12/2019
Name of Client	M/s GALAXY SURFACTANTS LIMITED		
Address of Client	Plot No. V-23, MIDC, Taloja, Dist : Raigad		
Sample collected by	AA Representative		
Reference	-----		
Date of sampling	22/11/2019	Sample Receipt Date	23/11/2019
Analysis Start Date	25/11/2019	Analysis Complete Date	27/11/2019

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	S-1
Stack Attached To	--	Oil Fire Boiler No.1(2.5 TPH)
Shape	--	Round
Diameter	M	0.8
Height From Ground Level	M	33.3
Temperature	°C	184
Velocity of Flue Gases	M/Sec	9.95
Volume of Flue Gases	Nm ³ /Hr	11735
Type of Fuel	Kg/Hr.	F.O./L.D.O

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm ³	150	95.3
Sulphur Di-Oxide	IS 1255 (part II) – 1985	Kg/day	86.4	9.12
Oxide of Nitrogen	IS 11255 (part 7)-2005	Ppm	--	7.02
Carbon Dioxide	IS 307 :1966	mg/m ³	--	0.23
Sulphur content	---	%	4.5	0.0012

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.

2) The above results relate only to the item tested.

3) BDL – Below Detectable Limit

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/GSL/2019/103	Date	03/12/2019
Name of Client	M/s GALAXY SURFACTANTS LIMITED		
Address of Client	Plot No. V-23, MIDC, Taloja, Dist : Raigad		
Sample collected by	AA Representative		
Reference	-----		
Date of sampling	22/11/2019	Sample Receipt Date	23/11/2019
Analysis Start Date	25/11/2019	Analysis Complete Date	27/11/2019

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	S-2
Stack Attached To	--	Coal Fire Boiler (5TPH) Cyclone Separator + Bag Filter
Shape	--	Round
Diameter	M	0.4
Height From Ground Level	M	35.0
Temperature	°C	190
Velocity of Flue Gases	M/Sec	9.05
Volume of Flue Gases	Nm ³ /Hr	2821
Type of Fuel	Kg/Hr.	Coal

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm ³	150	104.6
Sulphur Di-Oxide	IS 1255 (part II) - 1985	Kg/day	12.0	7.06
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	--	B.D.L
Sulphates	EPA Method	ppm	N.A.	1.14
Chloride	EPA-26 A Method	mg/Nm ³	N.A.	0.02
Sulphur content	---	%	0.5	0.0039

- NOTE:** 1) The above results relate only to the condition prevailing at the time of sampling.
 2) The above results relate only to the item tested.
 3) BDL - Below Detectable Limit.

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/GSL/2019/119	Date	03/12/2019
Name of Client	M/s GALAXY SURFACTANTS LIMITED		
Address of Client	Plot No. V-23, MIDC, Taloja, Dist : Raigad		
Sample collected by	AA Representative		
Reference	-----		
Date of sampling	26/11/2019	Sample Receipt Date	27/11/2019
Analysis Start Date	28/11/2019	Analysis Complete Date	30/11/2019

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	S-3
Stack Attached To	--	Thermopac Boiler (EOU)
Shape	--	Round
Diameter	M	0.4
Height From Ground Level	M	30.25
Temperature	^o C	182
Velocity of Flue Gases	M/Sec	10.10
Volume of Flue Gases	Nm ³ /Hr	2991
Type of Fuel	Kg/Hr.	F.O

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm ³	150	95.8
Sulphur Di-Oxide	IS 1255 (part II) - 1985	Kg/day	155.52	6.24
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	--	4.32
Carbon Dioxide	IS 307 :1966	mg/m ³	--	0.30
Sulphur content	---	%	4.5	0.0033

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
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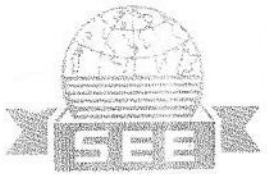
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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/GSL/2019/94	Date	30/11/2019
Name of Client	M/s GALAXY SURFACTANTS LIMITED		
Address of Client	Plot No. V-23, MIDC, Taloja, Dist : Raigad		
Sample collected by	AA Representative		
Reference	-----		
Date of sampling	21/11/2019	Sample Receipt Date	22/11/2019
Analysis Start Date	23/11/2019	Analysis Complete Date	25/11/2019


DETAILS OF STACK

Description	Unit	Result
Stack No.	--	S-4
Stack Attached To	--	Scrubber No .1 (V-23)
Shape	--	Round
Diameter	M	0.6
Height From Ground Level	M	30
Temperature	°C	44
Velocity of Flue Gases	M/Sec	7.48
Volume of Flue Gases	Nm ³ /Hr	7153
Type of Fuel	--	---


POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm ³	150	21.5
Sulphur Di-Oxide	IS 1255 (part II) - 1985	ppm	50	B.D.L (MDL <1)
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	2.12
Carbon Dioxide	IS 307 :1966	mg/m ³	NA	0.16
Acid Mist	EPA Method	ppm	NA	9.92

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
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3) BDL - Below Detectable Limit.


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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/GSL/2019/96	Date	30/11/2019
Name of Client	M/s GALAXY SURFACTANTS LIMITED		
Address of Client	Plot No. V-23, MIDC, Talaja, Dist : Raigad		
Sample collected by	AA Representative		
Reference	---		
Date of sampling	21/11/2019	Sample Receipt Date	22/11/2019
Analysis Start Date	23/11/2019	Analysis Complete Date	25/11/2019

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	S-6
Stack Attached To	--	Scrubber No .3 (MED)
Shape	--	Round
Diameter	M	0.6
Height From Ground Level	M	30
Temperature	°C	46
Velocity of Flue Gases	M/Sec	7.24
Volume of Flue Gases	Nm ³ /Hr	6880
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm ³	150	31.6
Sulphur Di-Oxide	IS 1255 (part II) - 1985	ppm	50	B.D.L (MDL <1)
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	B.D.L (MDL <1)
Carbon Dioxide	IS 307 :1966	mg/m ³	NA	0.19
Acid Mist	EPA Method	ppm	NA	11.4

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
 2) The above results relate only to the item tested.
 3) BDL - Below Detectable Limit.

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/GSL/2019/104	Date	03/12/2019
Name of Client	M/s GALAXY SURFACTANTS LIMITED		
Address of Client	Plot No. V-23, MIDC, Taloja, Dist : Raigad		
Sample collected by	AA Representative		
Reference	-----		
Date of sampling	22/11/2019	Sample Receipt Date	23/11/2019
Analysis Start Date	25/11/2019	Analysis Complete Date	27/11/2019


DETAILS OF STACK

Description	Unit	Result
Stack No.	--	S-7
Stack Attached To	--	D.G. Set 1.9 MW (EOU)
Shape	--	Round
Diameter	M	0.8
Height From Ground Level	M	45
Temperature	°C	201
Velocity of Flue Gases	M/Sec	11.12
Volume of Flue Gases	Nm ³ /Hr	12644
Type of Fuel	Kg/Hr.	F.O

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm ³	150	48.6
Sulphur Di-Oxide	IS 1255 (part II) - 1985	Kg/day	810	6.54
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	5.82
Carbon Dioxide	IS 307 :1966	mg/m ³	NA	0.25
Sulphur content	---	%	4.5	0.0008

NOTE:1)The above results relate only to the condition prevailing at the time of sampling.
2) The above results relate only to the item tested.
3) BDL – Below Detectable Limit.


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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/GSL/2019/105	Date	03/12/2019
Name of Client	M/s GALAXY SURFACTANTS LIMITED		
Address of Client	Plot No. V-23, MIDC, Talaja, Dist : Raigad		
Sample collected by	AA Representative		
Reference	-----		
Date of sampling	22/11/2019	Sample Receipt Date	23/11/2019
Analysis Start Date	25/11/2019	Analysis Complete Date	27/11/2019

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	S-8
Attached To	--	D.G. Set 1000 KVA
Shape	--	Round
Diameter	M	0.8
Height From Ground Level	M	33
Temperature	°C	206
Velocity of Flue Gases	M/Sec	10.27
Volume of Flue Gases	Nm ³ /Hr	11555
Type of Fuel	Kg/Hr.	H.S.D

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm ³	150	45.7
Sulphur Di-Oxide	IS 1255 (part II) - 1985	Kg/day	81.6	4.72
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	4.55
Carbon Dioxide	IS 307 :1966	mg/m ³	NA	0.21
Sulphur content	---	%	1.0	0.0006

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.

2) The above results relate only to the item tested.

3) BDL - Below Detectable Limit.

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/GSL/2019/01	Date	16/08/2019
Name of Client	M/s GALAXY SURFACTANTS LIMITED		
Address of Client	Plot No. V-23, MIDC, Taloja, Dist : Raigad		
Sample collected by	AA Representative		
Reference	-----		
Date of sampling	01/08/2019	Sample Receipt Date	02/08/2019
Analysis Start Date	03/08/2019	Analysis Complete Date	06/08/2019

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	S-1
Stack Attached To	--	Oil Fire Boiler No.1(2.5 TPH)
Shape	--	Round
Diameter	M	0.8
Height From Ground Level	M	33.3
Temperature	°C	188
Velocity of Flue Gases	M/Sec	10.08
Volume of Flue Gases	Nm ³ /Hr	11784
Type of Fuel	Kg/Hr.	F.O./L.D.O

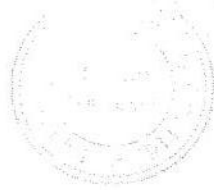
POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm ³	150	98.6
Sulphur Di-Oxide	IS 1255 (part II) - 1985	Kg/day	86.4	8.62
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	--	6.38
Carbon Dioxide	IS 307 :1966	mg/m ³	--	0.20
CH ₄	EPA Method 3-C	ppm	--	BDL
Sulphur content	---	%	4.5	0.03

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.

- 2) The above results relate only to the item tested.
- 3) BDL - Below Detectable Limit.
- 4) Limits as per MPCB Consent

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Report No	SEET/AA/GSL/2019/02	Date	16/08/2019
Name of Client	M's GALAXY SURFACTANTS LIMITED		
Address of Client	Plot No. V-23, MIDC, Talaja, Dist: Raigad		
Sample collected by	AA Representative		
Reference	----		
Date of sampling	23/07/2019	Sample Receipt Date	24/07/2019
Analysis Start Date	25/07/2019	Analysis Complete Date	28/07/2019

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	S-2
Stack Attached To	--	Coal Fire Boiler (5TPH) Cyclone Separator + Bag Filter
Shape	--	Round
Diameter	M	0.4
Height From Ground Level	M	35.0
Temperature	^o C	184
Velocity of Flue Gases	M/Sec	9.57
Volume of Flue Gases	Nm ³ /Hr	2821
Type of Fuel	Kg/Hr.	Coal

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm ³	150	108.3
Sulphur Di-Oxide	IS 1255 (part II) - 1985	Kg/day	12.0	6.74
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	--	B.D.L
Carbon Dioxide	IS 307 :1966	mg/m ³	--	0.26
Sulphates	EPA Method	ppm	N.A.	1.08
Chloride	EPA-26 A Method	mg/Nm ³	N.A.	0.025
CH ₄	EPA Method 3-C	ppm	--	BDL
Sulphur content	---	%	0.5	0.09

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 4) Limits as per MPCB Consent.

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/GSL/2019/03	Date	16/08/2019
Name of Client	M/s GALAXY SURFACTANTS LIMITED		
Address of Client	Plot No. V-23, MIDC, Taloja, Dist : Raigad		
Sample collected by	AA Representative		
Reference	-----		
Date of sampling	08/08/2019	Sample Receipt Date	09/08/2019
Analysis Start Date	10/08/2019	Analysis Complete Date	14/08/2019

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	S-3
Stack Attached To	--	Thermopac Boiler (EOU)
Shape	--	Round
Diameter	M	0.4
Height From Ground Level	M	30.25
Temperature	^o C	176
Velocity of Flue Gases	M/Sec	10.17
Volume of Flue Gases	Nm ³ /Hr	3051
Type of Fuel	Kg/Hr.	F.O

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm ³	150	99.3
Sulphur Di-Oxide	IS 1255 (part II) - 1985	Kg/day	155.52	5.12
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	--	3.50
Carbon Dioxide	IS 307 :1966	mg/m ³	--	0.28
CH ₄	EPA Method 3-C	ppm	--	BDL
Sulphur content	---	%	4.5	0.06

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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/GSL/2019/04	Date	16/08/2019
Name of Client	M/s GALAXY SURFACTANTS LIMITED		
Address of Client	Plot No. V-23, MIDC, Taloja, Dist. Raigad		
Sample collected by	AA Representative		
Reference	----		
Date of sampling	23/07/2019	Sample Receipt Date	24/07/2019
Analysis Start Date	25/07/2019	Analysis Complete Date	30/07/2019

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	S-4
Stack Attached To	--	Scrubber No. 1 (V-23)
Shape	--	Round
Diameter	M	0.6
Height From Ground Level	M	30
Temperature	°C	41
Velocity of Flue Gases	M/Sec	7.44
Volume of Flue Gases	Nm ³ /Hr	7183
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm ³	150	20.8
Sulphur Di-Oxide	IS 1255 (part II) - 1985	ppm	50	BDL (MDL <1)
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	1.98
Carbon Dioxide	IS 307 :1966	mg/m ³	NA	0.18
Acid Mist	EPA Method	ppm	NA	9.68

NOTE:1) The above results relate only to the condition prevailing at the time of sampling.
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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/GSL/2019/05	Date	15/08/2019
Name of Client	M's GALAXY SURFACTANTS LIMITED		
Address of Client	Plot No. V-23, MIDC, Taloja, Dist : Raigad		
Sample collected by	AA Representative		
Reference	-----		
Date of sampling	23/07/2019	Sample Receipt Date	24/07/2019
Analysis Start Date	25/07/2019	Analysis Complete Date	30/07/2019

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	S-5
Stack Attached To	--	Scrubber No. 2 (BOU)
Shape	--	Round
Diameter	M	0.6
Height From Ground Level	M	30
Temperature	^o C	38
Velocity of Flue Gases	M/Sec	7.23
Volume of Flue Gases	Nm ³ /Hr	7048
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm ³	150	30.5
Sulphur Di-Oxide	IS 1255 (part II) - 1985	ppm	50	BDL (MDL <1)
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	BDL (MDL <1)
Carbon Dioxide	IS 307 :1966	mg/m ³	NA	0.16
Acid Mist	EPA Method	ppm	NA	12.6

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
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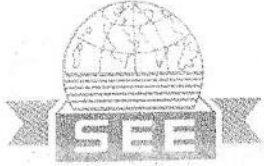


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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/GSL/2019/06	Date	16/08/2019
Name of Client	M/s GALAXY SURFACTANTS LIMITED		
Address of Client	Plot No. V-23, MIDC, Talaja, Dist. Raigad		
Sample collected by	AA Representative		
Reference	-----		
Date of sampling	09/08/2019	Sample Receipt Date	10/08/2019
Analysis Start Date	12/08/2019	Analysis Complete Date	16/08/2019

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	S-6
Stack Attached To	--	Scrubber No.3 (MED)
Shape	--	Round
Diameter	M	0.6
Height From Ground Level	M	30
Temperature	⁰ C	43
Velocity of Flue Gases	M/Sec	7.12
Volume of Flue Gases	Nm ³ /Hr	6874
Type of Fuel	--	---

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm ³	150	28.2
Sulphur Di-Oxide	IS 1255 (part II) - 1985	ppm	50	BDL (MDL <1)
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	BDL (MDL <1)
Carbon Dioxide	IS 307 :1966	mg/m ³	NA	0.14
Acid Mist	EPA Method	ppm	NA	11.8

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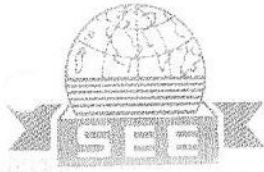


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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/GSL/2019/07	Date	16/08/2019
Name of Client	M/s GALAXY SURFACTANTS LIMITED		
Address of Client	Plot No. V-23, MIDC, Talaja, Dist : Raigad		
Sample collected by	AA Representative		
Reference	-----		
Date of sampling	23/07/2019	Sample Receipt Date	24/07/2019
Analysis Start Date	25/07/2019	Analysis Complete Date	30/07/2019

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	S-7
Stack Attached To	--	D.G. Set 1.9 MW (EOU)
Shape	--	Round
Diameter	M	0.8
Height From Ground Level	M	45
Temperature	°C	208
Velocity of Flue Gases	M/Sec	11.19
Volume of Flue Gases	Nm ³ /Hr	12538
Type of Fuel	Kg/Hr.	F.O

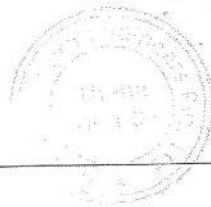
POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm ³	150	46.2
Sulphur Di-Oxide	IS 1255 (part II) - 1985	Kg/day	810	5.04
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	5.6
Carbon Dioxide	IS 307 :1966	mg/m ³	NA	0.27
CH ₄	EPA Method 3-C	ppm	--	BDL
Sulphur content	---	%	4.5	0.02

NOTE: 1) The above results relate only to the condition prevailing at the time of sampling.
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ANALYSIS REPORT FOR STACK EMISSION

Report No	SEET/AA/GSI/2019/08	Date	16/08/2019
Name of Client	M/s GALAXY SURFACTANTS LIMITED		
Address of Client	Plot No. V-23, MIDC, Talaja, Dist : Raigad		
Sample collected by	AA Representative		
Reference	-----		
Date of sampling	23/07/2019	Sample Receipt Date	24/07/2019
Analysis Start Date	25/07/2019	Analysis Complete Date	30/07/2019

DETAILS OF STACK

Description	Unit	Result
Stack No.	--	S-8
Attached To	--	D.G. Set 1000 KVA
Shape	--	Round
Diameter	M	0.8
Height From Ground Level	M	33
Temperature	^o C	214
Velocity of Flue Gases	M/Sec	10.36
Volume of Flue Gases	Nm ³ /Hr	11465
Type of Fuel	Kg/Hr.	H.S.D

POLLUTION PARAMETERS

PARAMETERS	METHOD	UNIT	LIMIT	RESULT
Total Particulate Matter	IS 11255 (part I)-1985	mg/Nm ³	150	44.5
Sulphur Di-Oxide	IS 1255 (part II) - 1985	Kg/day	81.6	4.56
Oxide of Nitrogen	IS 11255 (part 7)-2005	ppm	NA	4.2
Carbon Dioxide	IS 307 :1966	mg/m ³	NA	0.19
CH ₄	EPA Method 3-C	ppm	--	BDL
Sulphur content	---	%	1.0	0.02

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