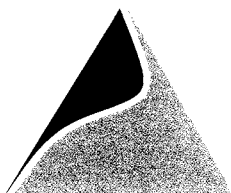


**TEST REPORT
(AMBIENT AIR QUALITY)**

**PRAKRUTI
ENVIRONMENTAL
ENGINEERS**



Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3407
Location:	PO: Moti Khavadi Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Analysis Date:	03/02/2018
Station:	Approach Gate Security Cabin Terrace	Analysed By:	G M Desai
Sampling Duration:	24 hours	Receipt Date:	02/02/2018
Field Observation:	--	Receipt Time:	10:30
Monitoring Method:	IS: 5182 (Part 14) & (Part 5)	Received By:	Hitesh Parmar
Applicable Standard:	NAAQS-2009	Collection Date:	31/01/2018
		Collection Time:	12:00
		Collected By:	Satyendra

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	Particulate Matter (as PM ₁₀)	µg/m ³	EN 12341	61.96	100.00
2	Particulate Matter (as PM _{2.5})	µg/m ³	SOP-TCH-001	34.24	60.00
3	Sulphur Dioxide (as SO ₂)	µg/m ³	IS: 5182 (Part 2):2001, R 2012	10.56	80.00
4	Oxides of Nitrogen (as NO ₂)	µg/m ³	IS: 5182 (Part 6):2006, R 2012	10.12	80.00
5	Ammonia (as NH ₃)	µg/m ³	SOP-TCH-033	BDL (DL: 10.0)	400.00

Remarks:

1. BDL: Below Detactable Limit, DL: Detactable Limit

Checked By: G M Desai (Lab in-charge)

Authorised Signatory: Krishna Desai (Partner)

Note:

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Certificate No. T-2943

TEST REPORT
(AMBIENT AIR QUALITY)

PRAKRUTI
ENVIRONMENTAL
ENGINEERS

Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3408
Location:	PO: Moti Khavadi Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Analysis Date:	03/02/2018
Station:	ADM Building Terrace	Analysed By:	G M Desai
Sampling Duration:	24 hours	Receipt Date:	02/02/2018
Field Observation:	--	Receipt Time:	10:30
Monitoring Method:	IS: 5182 (Part 14) & (Part 5)	Received By:	Hitesh Parmar
Applicable Standard:	NAAQS-2009	Collection Date:	31/01/2018
		Collection Time:	12:20
		Collected By:	Satyendra

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	Particulate Matter (as PM ₁₀)	µg/m ³	EN 12341	58.00	100.00
2	Particulate Matter (as PM _{2.5})	µg/m ³	SOP-TCH-001	29.26	60.00
3	Sulphur Dioxide (as SO ₂)	µg/m ³	IS: 5182 (Part 2):2001, R 2012	9.12	80.00
4	Oxides of Nitrogen (as NO ₂)	µg/m ³	IS: 5182 (Part 6):2006, R 2012	9.18	80.00
5	Ammonia (as NH ₃)	µg/m ³	SOP-TCH-033	BDL (DL: 10.0)	400.00

Remarks:

1. BDL: Below Detectable Limit, DL: Detectable Limit

Checked By: G M Desai (Lab in-charge)

Authorised Signatory: Krishna Desai (Partner)

Note:

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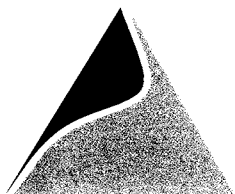
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**TEST REPORT
(AMBIENT AIR QUALITY)**

PRAKRUTI
ENVIRONMENTAL
ENGINEERS



Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3406
Location:	PO: Moti Khavadi Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Analysis Date:	03/02/2018
Station:	Electric Substation Terrace(Near Water Pond)	Analysed By:	G M Desai
Sampling Duration:	24 hours	Receipt Date:	02/02/2018
Field Observation:	--	Receipt Time:	10:30
Monitoring Method:	IS: 5182 (Part 14) & (Part 5)	Received By:	Hitesh Parmar
Applicable Standard:	NAAQS-2009	Collection Date:	31/01/2018
		Collection Time:	11:35
		Collected By:	Satyendra

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	Particulate Matter (as PM ₁₀)	µg/m ³	EN 12341	67.93	100.00
2	Particulate Matter (as PM _{2.5})	µg/m ³	SOP-TCH-001	40.90	60.00
3	Sulphur Dioxide (as SO ₂)	µg/m ³	IS: 5182 (Part 2):2001, R 2012	12.48	80.00
4	Oxides of Nitrogen (as NO ₂)	µg/m ³	IS: 5182 (Part 6):2006, R 2012	14.08	80.00
5	Ammonia (as NH ₃)	µg/m ³	SOP-TCH-033	BDL (DL; 10.0)	400.00

Remarks:

1. BDL: Below Detactable Limit, DL: Detactable Limit

Checked By: G M Desai (Lab in-charge)

Authorised Signatory: Krishna Desai (Partner)

Note:

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**TEST REPORT
(AMBIENT AIR QUALITY)**

Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3410
Location:	PO: Moti Khavadi Dist: Jamnagar-361140	Report Date:	08/02/2018
		Analysis Date:	03/02/2018
Analysed By:	G M Desai	Receipt Date:	02/02/2018
Authorised Person:	Mr. S. A. Desai	Receipt Time:	10:30
Station:	Ammonia Loading Station Terrace	Received By:	Hitesh Parmar
Sampling Duration:	24 hours	Collection Date:	31/01/2018
Field Observation:	--	Collection Time:	13:00
Monitoring Method:	IS: 5182 (Part 14) & (Part 5)	Collected By:	Satyendra
Applicable Standard:	NAAQS-2009		

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	Particulate Matter (as PM ₁₀)	µg/m ³	EN 12341	66.85	100.00
2	Particulate Matter (as PM _{2.5})	µg/m ³	SOP-TCH-001	42.12	60.00
3	Sulphur Dioxide (as SO ₂)	µg/m ³	IS: 5182 (Part 2):2001, R 2012	13.44	80.00
4	Oxides of Nitrogen (as NO ₂)	µg/m ³	IS: 5182 (Part 6):2006, R 2012	13.19	80.00
5	Ammonia (as NH ₃)	µg/m ³	SOP-TCH-033	28.5	400.00

Remarks:

1. BDL: Below Detactable Limit, DL: Detactable Limit

Checked By: G M Desai (Lab in-charge)

Authorised Signatory: Krishna Desai (Partner)

Note:

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TEST REPORT
(AMBIENT AIR QUALITY)

PRAKRUTI
ENVIRONMENTAL
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Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3409
Location:	PO: Moti Khavadi Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Analysis Date:	03/02/2018
Station:	Sikka Shore Terminal Site (Near WorkShop)	Analysed By:	G M Desai
Sampling Duration:	24 hours	Receipt Date:	02/02/2018
Field Observation:	--	Receipt Time:	10:30
Monitoring Method:	IS: 5182 (Part 14) & (Part 5)	Received By:	Hitesh Parmar
Applicable Standard:	NAAQS-2009	Collection Date:	31/01/2018
		Collection Time:	13:45
		Collected By:	Satyendra

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	Particulate Matter (as PM ₁₀)	µg/m ³	EN 12341	71.02	100.00
2	Particulate Matter (as PM _{2.5})	µg/m ³	SOP-TCH-001	45.10	60.00
3	Sulphur Dioxide (as SO ₂)	µg/m ³	IS: 5182 (Part 2):2001, R 2012	12.96	80.00
4	Oxides of Nitrogen (as NO ₂)	µg/m ³	IS: 5182 (Part 6):2006, R 2012	11.77	80.00
5	Ammonia (as NH ₃)	µg/m ³	SOP-TCH-033	15.59	400.00

Remarks:

1. BDL: Below Detectable Limit, DL: Detectable Limit

Checked By: G M Desai (Lab in-charge)

Authorised Signatory: Krishna Desai (Partner)

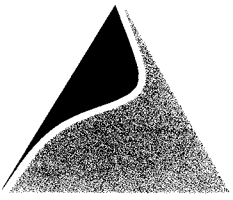
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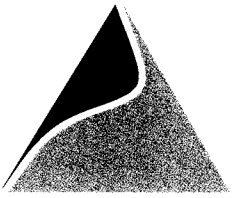
**TEST REPORT
(NOISE LEVEL)**

**PRAKRUTI
ENVIRONMENTAL
ENGINEERS**

Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3411
Location:	PO: Moti Khavadi Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Monitoring Date:	31/01/2018
Monitored Method:	--	Monitored By:	K R Chauhan

SN	Station	Start Date	Start Time	End Date	End Time	Time Duration	NOISE LEVEL dB(A) Leg
1	ADM Building	31/01/2018	11:05:18	31/01/2018	11:17:22	0:12:04	62.9
2	Boiler House	31/01/2018	11:20:50	31/01/2018	11:31:07	0:10:17	73.1
3	DAP Plant Ground Floor	31/01/2018	11:35:12	31/01/2018	11:53:26	0:18:14	72.6
4	QC Laboratory	31/01/2018	11:57:09	31/01/2018	12:09:40	0:12:31	55.4
5	Control Room A/B Train	31/01/2018	12:15:11	31/01/2018	12:27:02	0:11:51	63.2
6	Control Room C Train	31/01/2018	12:30:32	31/01/2018	12:43:17	0:12:45	63.7
7	Control Room Bagging (Old)	31/01/2018	12:45:19	31/01/2018	13:00:08	0:14:49	61.9
8	Bentonite Cylo Room	31/01/2018	13:10:22	31/01/2018	13:20:55	0:10:33	68.3
9	Security Office Factory Side	31/01/2018	13:31:15	31/01/2018	13:42:19	0:11:04	62.5
10	Electrical Substation	31/01/2018	13:50:01	31/01/2018	14:01:23	0:11:22	58.6
11	Bagging-A Control Room	31/01/2018	14:07:18	31/01/2018	14:30:49	0:23:31	64.9
12	Bagging Line-A	31/01/2018	14:42:36	31/01/2018	14:55:05	0:12:29	69.3
13	ADM Building	31/01/2018	22:00:07	31/01/2018	22:12:52	0:12:45	57.2
14	Boiler House	31/01/2018	22:21:19	31/01/2018	22:32:08	0:10:49	72.6
15	DAP Plant Ground Floor	31/01/2018	22:40:23	31/01/2018	22:52:10	0:11:47	72.4
16	QC Laboratory	31/01/2018	23:00:14	31/01/2018	23:10:39	0:10:25	53.8
17	Control Room A/B Train	31/01/2018	23:15:22	31/01/2018	23:27:09	0:11:47	61.3
18	Control Room C Train	31/01/2018	23:33:16	31/01/2018	23:45:12	0:18:34	62.0
19	Control Room Bagging (Old)	31/01/2018	0:02:21	31/01/2018	0:14:37	0:12:16	60.7
20	Bentonite Cylo Room	01/02/2018	0:20:19	01/02/2018	0:31:52	0:11:33	58.6
21	Security Office Factory Side	01/02/2018	0:42:50	01/02/2018	0:55:13	0:12:23	56.8
22	Electrical Substation	01/02/2018	1:05:31	01/02/2018	1:18:47	0:13:16	57.1
23	Bagging-A Control Room	01/02/2018	1:25:41	01/02/2018	1:37:11	0:11:30	67.7
24	Bagging Line-A	01/02/2018	1:47:11	01/02/2018	1:59:22	0:12:11	70.1

Permissible Exposure in cases of Continuous Noise (as prescribed in Factories Act, 1948)		Permissible Exposure Level for Impulsive or Impact Noise	
Total time of exposure (continuous or a number of short terms exposure) per day,	Sound Pressure Level in dB (A)	Peak Sound Pressure Level in dB	Permitted number of impulse or impact per day
8	90	140	100
6	92	135	315
4	95	130	1000
3	97	125	3160
2	100	120	10000
1 1/2	102	1. No exposure in excess of 140 dB peak sound pressure level is permitted	
1	105		
3/4	107		
1/2	110		
1/4	115		
1. No exposure in excess of 115 dB(A) is to be permitted			



TEST REPORT
(NOISE LEVEL)

PRAKRUTI
ENVIRONMENTAL
ENGINEERS

2. For any period of exposure between any figure and the next higher or lower figure as indicated in column1, the permissible sound pressure level is to be determined by extrapolation on proportionate basis

Remarks:

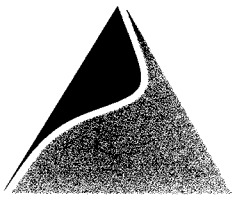
Checked By: **G M Desai (Lab in-charge)**

Authorised Signatory: **Krishna Desai (Partner)**

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TEST REPORT
(METEOROLOGICAL MEASUREMENTS)

PRAKRUTI
ENVIRONMENTAL
ENGINEERS

Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3412
Location:	PO: Moti Khavadi, Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Collected By:	Mayur Raj
Station:	A/B Train Terrace		
Field Observation:	--		
Monitoring Method/ Guidelines:	IS: 5182 (Part 14) - 2005		

DATE	TIME	8	WIND SPEED	TEMPERATURE	RELATIVE HUMIDITY
		TO	KMPH	°C	%
31/01/2018	12:00	NE→SW	6.0	27.0	36.0
	14:00	N→S	8.0	32.0	19.0
	16:00	N→S	9.0	34.0	21.0
	18:00	N→S	15.0	33.0	23.0
	20:00	NW→SE	12.0	24.0	53.0
	22:00	NW→SE	13.0	23.0	54.0
01/02/2018	0:00	NW→SE	15.0	22.0	60.0
	2:00	NW→SE	11.0	20.0	69.0
	4:00	NW→SE	9.0	18.0	73.0
	6:00	NW→SE	8.0	18.0	75.0
	8:00	N→S	6.0	18.0	77.0
	10:00	NW→SE	11.0	23.0	53.0
	12:00	NW→SE	17.0	27.0	43.0
MAX.			17.00	34.00	77.00
MIN.			6.00	18.00	19.00
AVG.			10.77	24.54	50.46

Remarks:

Checked By: G M Desai (Lab in-charge) **Authorised Signatory:** Krishna Desai (Partner)

Note:
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**TEST REPORT
(AIR EMISSION)**

**PRAKRUTI
ENVIRONMENTAL
ENGINEERS**

Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3397
Location:	PO: Moti Khavadi, Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Analysis Date:	03/02/2018
Stack Attached To:	DAP Train- A (S-1)	Analysed By:	G M Desai
Air Pollution Control System:	--	Receipt Date:	02/02/2018
Fuel Type:	Natural Gas	Receipt Time:	10:30
Fuel Consumption:	--	Received By:	Hitesh Parmar
Stack Height:	50 m	Collection Date:	31/01/2018
Stack Diameter:	2150 mm	Collection Time:	14:15
Emission Temperature:	51 °C	Collected By:	Mayur Raj
Velocity:	19.64 m/s		
Flow:	256560.95 m ³ /hr		
Field Observation:	--		
Flow Rate Measurement:	IS 11255 (Part 3) - 2008		
Applicable Standard:	--		

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	Particulate Matter (as PM)	mg/Nm ³	IS: 11255 (Part 1) - 1985, R-2009	16.35	150.00
2	Ammonia (as NH ₃)	mg/Nm ³	IS: 11255 (Part 6) 1999, R 2003	17.09	175.00
3*	Hydrogen Fluoride (as HF)	mg/Nm ³	Method 13 A, EPA: 2007	BDL (DL: 1.0)	25.00

Remarks:

1. BDL: Below Detectable Limit, DL: Detectable Limit

Checked By: G M Desai (Lab in-charge)

Authorised Signatory: Krishna Desai (Partner)

Note:

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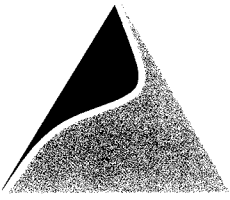
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**TEST REPORT
(AIR EMISSION)**

PRAKRUTI
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Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3396
Location:	PO: Moti Khavadi, Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Analysis Date:	03/02/2018
Stack Attached To:	DAP Train- B (S-2)	Analysed By:	G M Desai
Air Pollution Control System:	--	Receipt Date:	02/02/2018
Fuel Type:	Natural Gas	Receipt Time:	10:30
Fuel Consumption:	--	Received By:	Hitesh Parmar
Stack Height:	50 m	Collection Date:	31/01/2018
Stack Diameter:	2150 mm	Collection Time:	13:30
Emission Temperature:	52 °C	Collected By:	Mayur Raj
Velocity:	19.69 m/s		
Flow:	257214.11 m ³ /hr		
Field Observation:	--		
Flow Rate Measurement:	IS 11255 (Part 3) - 2008		
Applicable Standard:	--		

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	Particulate Matter (as PM)	mg/Nm ³	IS: 11255 (Part 1) - 1985, R-2009	17.15	150.00
2	Ammonia (as NH ₃)	mg/Nm ³	IS: 11255 (Part 6) 1999, R 2003	15.87	175.00
3*	Hydrogen Fluoride (as HF)	mg/Nm ³	Method 13 A, EPA: 2007	BDL (DL: 1.0)	25.00

Remarks:

1. BDL: Below Detactable Limit, DL: Detactable Limit

Checked By: G M Desai (Lab in-charge)

Authorised Signatory: Krishna Desai (Partner)

Note:

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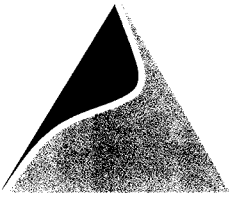
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**TEST REPORT
(AIR EMISSION)**

PRAKRUTI
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Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3395
Location:	PO: Moti Khavadi, Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Analysis Date:	03/02/2018
Stack Attached To:	DAP Train- C (S-3)	Analysed By:	G M Desai
Air Pollution Control System:	--	Receipt Date:	02/02/2018
Fuel Type:	Natural Gas	Receipt Time:	10:30
Fuel Consumption:	--	Received By:	Hitesh Parmar
Stack Height:	55 m	Collection Date:	31/01/2018
Stack Diameter:	3000 mm	Collection Time:	12:45
Emission Temperature:	52 °C	Collected By:	Mayur Raj
Velocity:	16.26 m/s		
Flow:	413556.84 m ³ /hr		
Field Observation:	--		
Flow Rate Measurement:	IS 11255 (Part 3) - 2008		
Applicable Standard:	--		

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	Particulate Matter (as PM)	mg/Nm ³	IS: 11255 (Part 1) - 1985, R-2009	15.68	150.00
2	Ammonia (as NH ₃)	mg/Nm ³	IS: 11255 (Part 6) 1999, R 2003	16.48	175.00
3*	Hydrogen Fluoride (as HF)	mg/Nm ³	Method 13 A, EPA: 2007	BDL (DL: 1.0)	25.00

Remarks:

1. BDL: Below Detactable Limit, DL: Detactable Limit

Checked By: G M Desai (Lab in-charge)

Authorised Signatory: Krishna Desai (Partner)

Note:

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**TEST REPORT
(AIR EMISSION)**

PRAKRUTI
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ENGINEERS

Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3398
Location:	PO: Moti Khavadi, Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Analysis Date:	03/02/2018
Stack Attached To:	Boiler No.-1 GT- 2479 (S-4)	Analysed By:	G M Desai
Air Pollution Control System:	--	Receipt Date:	02/02/2018
Fuel Type:	Natural Gas	Receipt Time:	10:30
Fuel Consumption:	100 m ³ /hr	Received By:	Hitesh Parmar
Stack Height:	30.5 m	Collection Date:	31/01/2018
Stack Diameter:	1250 mm	Collection Time:	12:00
Emission Temperature:	102 °C	Collected By:	Mayur Raj
Velocity:	4.58 m/s		
Flow:	20223.56 m ³ /hr		
Field Observation:	--		
Flow Rate Measurement:	IS 11255 (Part 3) - 2008		
Applicable Standard:	--		

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	Particulate Matter (as PM)	mg/Nm ³	IS: 11255 (Part 1) - 1985, R-2009	5.72	150
2	Sulphur Dioxide (as SO ₂)	mg/Nm ³	IS: 11255 (Part 2) - 1985, R-2009	5.74 (2.19 ppm)	100 ppm
3	Nitrogen Oxide (as NO _x)	mg/Nm ³	IS: 11255 (Part 7) 2005	26.97 (14.34 ppm)	50 ppm

Remarks:

1. BDL: Below Detactable Limit, DL: Detactable Limit

Checked By: G M Desai (Lab in-charge)

Authorised Signatory: Krishna Desai (Partner)

Note:

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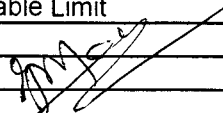
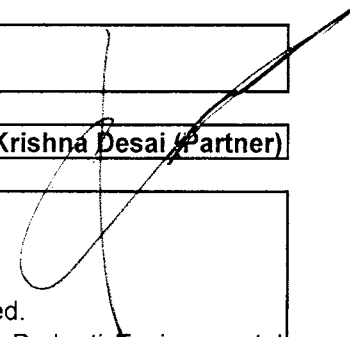
**TEST REPORT
(AIR EMISSION)**

**PRAKRUTI
ENVIRONMENTAL
ENGINEERS**

Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3402
Location:	PO: Moti Khavadi, Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Analysis Date:	03/02/2018
Stack Attached To:	Dedusting Old Cylo S-5 (Near Product Cylo)	Analysed By:	G M Desai
Air Pollution Control System:	--	Receipt Date:	02/02/2018
Fuel Type:	--	Receipt Time:	10:30
Fuel Consumption:	--	Received By:	Hitesh Parmar
Stack Height:	30 m	Collection Date:	31/01/2018
Stack Diameter:	850 mm	Collection Time:	16:30
Emission Temperature:	32 °C	Collected By:	Mayur Raj
Velocity:	13.56 m/s		
Flow:	27686.60 m ³ /hr		
Field Observation:	--		
Flow Rate Measurement:	IS 11255 (Part 3) - 2008		
Applicable Standard:	--		

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	Particulate Matter (as PM)	mg/Nm ³	IS: 11255 (Part 1) - 1985, R-2009	15.38	150.00

Remarks:
1. BDL: Below Detactable Limit, DL: Detactable Limit

Checked By: G M Desai (Lab in-charge)  Authorised Signatory: Krishna Desai (Partner) 

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**TEST REPORT
(AIR EMISSION)**

**PRAKRUTI
ENVIRONMENTAL
ENGINEERS**

Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3403
Location:	PO: Moti Khavadi, Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Analysis Date:	03/02/2018
Stack Attached To:	Dedusting Old Cylo (S-6) Near Bagging	Analysed By:	G M Desai
Air Pollution Control System:	--	Receipt Date:	02/02/2018
Fuel Type:	--	Receipt Time:	10:30
Fuel Consumption:	--	Received By:	Hitesh Parmar
Stack Height:	30 m	Collection Date:	31/01/2018
Stack Diameter:	1028 mm	Collection Time:	17:15
Emission Temperature:	32 °C	Collected By:	Mayur Raj
Velocity:	13.48 m/s		
Flow:	40257.64 m ³ /hr		
Field Observation:	--		
Flow Rate Measurement:	IS 11255 (Part 3) - 2008		
Applicable Standard:	--		

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	Particulate Matter (as PM)	mg/Nm ³	IS: 11255 (Part 1) - 1985, R-2009	15.66	150.00

Remarks:

1. BDL: Below Detectable Limit, DL: Detectable Limit

Checked By: G M Desai (Lab in-charge)

Authorised Signatory: Krishna Desai (Partner)

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**TEST REPORT
(AIR EMISSION)**

**PRAKRUTI
ENVIRONMENTAL
ENGINEERS**

Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3405
Location:	PO: Moti Khavadi, Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Analysis Date:	03/02/2018
Stack Attached To:	Bentonite Cylo S-7 (Boiler Side)	Analysed By:	G M Desai
Air Pollution Control System:	--	Receipt Date:	02/02/2018
Fuel Type:	--	Receipt Time:	10:30
Fuel Consumption:	--	Received By:	Hitesh Parmar
Stack Height:	20 m	Collection Date:	01/02/2018
Stack Diameter:	1000 mm	Collection Time:	10:30
Emission Temperature:	32 °C	Collected By:	Mayur Raj
Velocity:	14.88 m/s		
Flow:	42050.88 m ³ /hr		
Field Observation:	--		
Flow Rate Measurement:	IS 11255 (Part 3) - 2008		
Applicable Standard:	--		

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	Particulate Matter (as PM)	mg/Nm ³	IS: 11255 (Part 1) - 1985, R-2009	17.27	150.00

Remarks:

1. BDL: Below Detectable Limit, DL: Detectable Limit

Checked By: G M Desai (Lab in-charge)

Authorised Signatory: Krishna Desai (Partner)

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**TEST REPORT
(AIR EMISSION)**

PRAKRUTI
ENVIRONMENTAL
ENGINEERS

Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3404
Location:	PO: Moti Khavadi, Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Analysis Date:	03/02/2018
Stack Attached To:	Bentonite Cylo S-8 (ADM Side)	Analysed By:	G M Desai
Air Pollution Control System:	--	Receipt Date:	02/02/2018
Fuel Type:	--	Receipt Time:	10:30
Fuel Consumption:	--	Received By:	Hitesh Parmar
Stack Height:	25 m	Collection Date:	01/02/2018
Stack Diameter:	300 mm	Collection Time:	9:45
Emission Temperature:	32 °C	Collected By:	Mayur Raj
Velocity:	15.02 m/s		
Flow:	3820.19 m ³ /hr		
Field Observation:	--		
Flow Rate Measurement:	IS 11255 (Part 3) - 2008		
Applicable Standard:	--		

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	Particulate Matter (as PM)	mg/Nm ³	IS: 11255 (Part 1) - 1985, R-2009	13.17	150.00

Remarks:

1. BDL: Below Detectable Limit, DL: Detectable Limit

Checked By: G M Desai (Lab in-charge)

Authorised Signatory: Krishna Desai (Partner)

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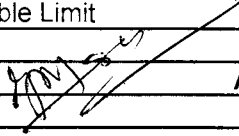
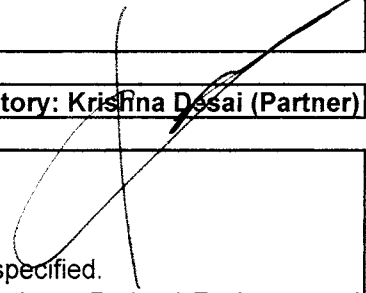
**TEST REPORT
(AIR EMISSION)**

PRAKRUTI
ENVIRONMENTAL
ENGINEERS

Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3399
Location:	PO: Moti Khavadi, Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Analysis Date:	03/02/2018
Stack Attached To:	DG Set (515 KVA) Sikka Shore Terminal Site	Analysed By:	G M Desai
Air Pollution Control System:	--	Receipt Date:	02/02/2018
Fuel Type:	HSD	Receipt Time:	10:30
Fuel Consumption:	100 LPH	Received By:	Hitesh Parmar
Stack Height:	14 m	Collection Date:	01/02/2018
Stack Diameter:	550 mm	Collection Time:	12:30
Emission Temperature:	95 °C	Collected By:	Mayur Raj
Velocity:	11.46 m/s		
Flow:	9796.75 m ³ /hr		
Field Observation:	--		
Flow Rate Measurement:	IS 11255 (Part 3) - 2008		
Applicable Standard:	--		

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	Particulate Matter (as PM)	mg/Nm ³	IS: 11255 (Part 1) - 1985, R-2009	28.34	150
2	Sulphur Dioxide (as SO ₂)	mg/Nm ³	IS: 11255 (Part 2) - 1985, R-2009	60.90 (23.26 ppm)	100 ppm
3	Nitrogen Oxide (as NO _x)	mg/Nm ³	IS: 11255 (Part 7) 2005	50.83 (27.02 ppm)	50 ppm

Remarks:
1. BDL: Below Detactable Limit, DL: Detactable Limit

Checked By: G M Desai (Lab in-charge)  **Authorised Signatory: Krishna Desai (Partner)** 

Note:
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**TEST REPORT
(AIR EMISSION)**

**PRAKRUTI
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Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3400
Location:	PO: Moti Khavadi, Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Analysis Date:	03/02/2018
Stack Attached To:	Dedusting (Bagging Plant-A)	Analysed By:	G M Desai
Air Pollution Control System:	--	Receipt Date:	02/02/2018
Fuel Type:	--	Receipt Time:	10:30
Fuel Consumption:	--	Received By:	Hitesh Parmar
Stack Height:	43 m	Collection Date:	31/01/2018
Stack Diameter:	900 mm	Collection Time:	15:00
Emission Temperature:	32 °C	Collected By:	Mayur Raj
Velocity:	15.58 m/s		
Flow:	35663.55 m ³ /hr		
Field Observation:	--		
Flow Rate Measurement:	IS 11255 (Part 3) - 2008		
Applicable Standard:	--		

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	Particulate Matter (as PM)	mg/Nm ³	IS: 11255 (Part 1) - 1985, R-2009	14.12	150.00

Remarks:

1. BDL: Below Detectable Limit, DL: Detectable Limit

Checked By: G M Desai (Lab in-charge)

Authorised Signatory: Krishna Desai (Partner)

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**TEST REPORT
(AIR EMISSION)**

**PRAKRUTI
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Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3401
Location:	PO: Moti Khavadi, Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Analysis Date:	03/02/2018
Stack Attached To:	Dedusting New Cylo (Product Hardening Dedusting)	Analysed By:	G M Desai
Air Pollution Control System:	--	Receipt Date:	02/02/2018
Fuel Type:	--	Receipt Time:	10:30
Fuel Consumption:	--	Received By:	Hitesh Parmar
Stack Height:	30 m	Collection Date:	31/01/2018
Stack Diameter:	1100 mm	Collection Time:	15:45
Emission Temperature:	32 °C	Collected By:	Mayur Raj
Velocity:	15.1 m/s		
Flow:	51633.85 m ³ /hr		
Field Observation:	--		
Flow Rate Measurement:	IS 11255 (Part 3) - 2008		
Applicable Standard:	--		

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	Particulate Matter (as PM)	mg/Nm ³	IS: 11255 (Part 1) - 1985, R-2009	12.97	150.00

Remarks:
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Checked By: G M Desai (Lab in-charge)  Authorised Signatory: Krishna Desai (Partner) 

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Certificate No. T-2943

TEST REPORT
(WATER AND WASTE WATER)

PRAKRUTI
ENVIRONMENTAL
ENGINEERS

Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3393
Location:	PO: Moti Khavadi, Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Analysis Date:	03/02/2018
Sample Description:	Treated Domestic Effluent	Analysed By:	Ripple Vaidya
Sampling Point:	STP Outlet (Factory)	Receipt Date:	02/02/2018
Sample Type:	Grab	Receipt Time:	10:30
Field Observation:	pH: 6.9 Temperature: 29°C	Received By:	Hitesh Parmar
Sampling Method:	IS: 3025 (Part 1) - 1987, R 2009	Collection Date:	01/02/2018
Applicable Standard:	On land for Plantation	Collection Time:	10:45
		Collected By:	Satyendra

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	pH	-	APHA 4500-H ⁺ B, Standard Methods 22nd Edition	6.94	--
2	Total Suspended Solids	mg/l	APHA 2540 D, Standard Methods 22nd Edition	26.00	30.00
3	Biochemical Oxygen Demand (3d at 27 °C as BOD)	mg/l	IS: 3025 (Part 44) – 1993	18.00	20.00
4	Chlorine (Residual as Cl ₂)	mg/l	APHA 4500-Cl G DPD Colorimetric KIT Method	0.70	> 0.50

Remarks:

1. BDL: Below Detectable Limit, DL: Detectable Limit

Checked By: G M Desai (Lab in-charge)

Authorised Signatory: Krishna Desai (Partner)

Note:

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Certificate No. T-2943

TEST REPORT
(WATER AND WASTE WATER)

PRAKRUTI
ENVIRONMENTAL
ENGINEERS

Customer:	Gujarat State Fertilizers & Chemicals Ltd. (Sikka Unit)	Ref. No.:	3394
Location:	PO: Moti Khavadi, Dist: Jamnagar-361140	Report Date:	08/02/2018
Authorised Person:	Mr. S. A. Desai	Analysis Date:	03/02/2018
Sample Description:	Treated Domestic Effluent	Analysed By:	Ripple Vaidya
Sampling Point:	STP Outlet (Colony)	Receipt Date:	02/02/2018
Sample Type:	Grab	Receipt Time:	10:30
Field Observation:	pH: 6.9 Temperature: 29°C	Received By:	Hitesh Parmar
Sampling Method:	IS: 3025 (Part 1) - 1987, R 2009	Collection Date:	01/02/2018
Applicable Standard:	On land for Plantation	Collection Time:	12:30
		Collected By:	Satyendra

SN	PARAMETERS	UNITS	METHOD REFERENCE	RESULTS	PERMISSIBLE LIMIT
1	pH	-	APHA 4500-H ⁺ B, Standard Methods 22nd Edition	6.85	--
2	Total Suspended Solids	mg/l	APHA 2540 D, Standard Methods 22nd Edition	28.00	30.00
3	Biochemical Oxygen Demand (3d at 27 °C as BOD)	mg/l	IS: 3025 (Part 44) – 1993	18.00	20.00
4	Chlorine (Residual as Cl ₂)	mg/l	APHA 4500-Cl G DPD Colorimetric KIT Method	0.80	> 0.50

Remarks:

1. BDL: Below Detectable Limit, DL: Detectable Limit

Checked By: G M Desai (Lab in-charge)

Authorised Signatory: Krishna Desai (Partner)

Note:

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