



**AKSHAR
CONSULTANTS**

THE ENVIRONMENT MANAGEMENT PEOPLE

704 & 813, Sakar-5, Nr. Mithakhali Railway Crossing, Off Ashram Road, Ahmedabad - 380 009. Tel/Fax : (079) 26583525

Ref. No. AC/EFF/17-18/065

Date : 13-07-2017

Intas Pharmaceuticals Ltd.,
Plot No. 457, 458, Sarkhej – Bavala Highway,
Vil. : Matoda – 382 210, Ta. : Sanand,
Dist. : Ahmedabad.

Sub. : ANALYSIS REPORT OF YOUR TREATED EFFLUENT SAMPLE.

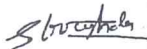
Sample drawn by : Akshar Consultants.
Sample collection date : 07-07-2017.

Sr. No.	Parameter	Result	GPCB Limit
01	pH	7.90	6.5 – 8.5
02	Temperature (Deg. C)	32.00	40.00
03	Colour (Pt-Co unit)	20.00	100.00
04	Total Suspended Solids	84.00	100.00
05	Oil & Grease	3.00	10.00
06	Sulphides	0.30	2.00
07	Ammonical Nitrogen	15.25	50.00
08	Total Chromium	N. D. *	2.00
09	Hexavalent Chromium	N. D. *	0.10
10	Copper	N. D. *	3.00
11	Lead	N. D. *	0.10
12	Mercury	N. D. *	0.01
13	Nickel	N. D. *	3.00
14	Zinc	N. D. *	5.00
15	COD	96.00	100.00
16	BOD	26.00	30.00
17	Chlorides	560.00	600.00
18	Sulphates	236.00	1000.00
19	Total Dissolved Solids	2080.00	2100.00
20	Sodium Absorption Ratio	22.95	26.00
21	Arsenic	N. D. *	0.20
22	Cadmium	N. D. *	2.00
23	Insecticide / Pesticide	Absent	Absent
24	Bio – assay Test	90 % survival of fish after 96 hrs. in 100 % effluent	90 % survival of fish after 96 hrs. in 100 % effluent

Note : All parameters except pH, Temperature & Colour are expressed in mg/L.

N.D.* : Not Detected in mg/L.

ANALYSED BY,



(Analyst)

For AKSHAR CONSULTANTS,



(Authorised Signatory)

...with a commitment to your growth and well-being.



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704 & 813, Sakar-5, Nr. Mithakhali Railway Crossing, Off Ashram Road, Ahmedabad - 380 009. Tel/Fax : (079) 26583525

Report No.: AC/AIR/17-18/267

Date : 13-07-2017

STACK SAMPLING ANALYSIS REPORT

UNIT	: Intas Pharmaceuticals Ltd.	Sampling Date : 07-07-2017
SITE	: Plot No. 457, 458, Sarkhej-Bavla Highway, Vil. : Matoda – 382 210. Ta. Sanand, Dist. : Ahmedabad.	TIME : 12 : 30 PM
SAMPLING LOCATION	: Stack attached to Liquid / Solid Waste Incinerator.	FUEL USED : HSD

DUST CONCENTRATION (PM) DATA

Stack /Flue gas temperature (Deg. C)	132.00
Stack gas velocity (m./sec.)	7.95
Sampling duration (min.)	30.00
Vacuum gauge reading (mm. of Hg.)	10.00
Volume of gas sampled at NTP conditions (cu. m.)	0.60
Wt. of PM collected (mg.)	28.93

GAS CONCENTRATION DATA

Sampling duration (min.)	30.00
Gas flow-rate (litres per min.)	5.00
Volume of gas sampled at NTP conditions (cu. m.)	0.150

RESULTS

PARAMETER		CONCENTRATION	GPCB Limit
		mg/Nm3	
Particulate matter	(PM)	48.22	50 mg/Nm ³
Sulphur Di-oxide	(SO ₂)	88.35	200 mg/Nm ³
Nitrogen Di-oxide	(NO ₂)	27.60	400 mg/Nm ³
Hydrochloric Acid	(HCl)	18.24	50 mg/Nm ³
Ammonia	(NH ₃)	41.60	175 mg/Nm ³

Note : NTP conditions have been taken as 25 Deg. C & 760 mm of Hg atmospheric pressure.

ANALYSED BY,

(Analyst)

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Report No. : AC/AIR/17-18/265

Date : 13-07-2017

SCRUBBER SAMPLING ANALYSIS REPORT

UNIT	: Intas Pharmaceuticals Ltd.	Sampling Date : 07-07-2017
SITE	: Plot No. 457, 458, Sarkhej-Bavla Highway, Vil. : Matoda - 382 210. Ta. Sanand, Dist. : Ahmedabad.	TIME : 11: 00 AM
SAMPLING LOCATION	: Vent attached to reaction vessel of API Plant.	

GAS CONCENTRATION DATA

Sampling duration (min.)	30.00
Gas flow-rate (litres per min.)	5.00
Volume of gas sampled at NTP conditions (cu. m.)	0.150

RESULTS

PARAMETER		CONCENTRATION	GPCB Limit
		mg/Nm ³	mg/Nm ³
Particulate Matter	(PM)	Nil	150.00
Sulphur Di-oxide	(SO ₂)	13. 25	40.00
Oxides of Nitrogen	(NO _x)	3. 50	25.00

ANALYSED BY,

(Analyst)

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Report No. : AC/AIR/17-18/266

Date : 13-07-2017

STACK SAMPLING ANALYSIS REPORT

UNIT	: Intas Pharmaceuticals Ltd.	Sampling Date : 07-07-2017
SITE	: Plot No. 457, 458, Sarkhej-Bavla Highway, Vil. : Matoda – 382 210. Ta. Sanand, Dist. : Ahmedabad.	TIME : 11 : 45 AM
SAMPLING LOCATION	: Stack attached to 10 TPH Steam boiler.	FUEL USED : Imported Coal

DUST CONCENTRATION (PM) DATA

Stack /Flue gas temperature (Deg. C)	145.00
Stack gas velocity (m./sec.)	8.54
Sampling duration (min.)	30.00
Vacuum gauge reading (mm. of Hg.)	10.00
Volume of gas sampled at NTP conditions (cu. m.)	0.75
Wt. of PM collected (mg.)	110.96

GAS CONCENTRATION DATA

Sampling duration (min.)	30.00
Gas flow-rate (litres per min.)	5.00
Volume of gas sampled at NTP conditions (cu. m.)	0.150

RESULTS

PARAMETER	CONCENTRATION		GPCB Limit
	mg/Nm ³	ppm	
Particulate matter (PM)	147.95	---	150 mg/Nm ³
Sulphur Di-oxide (SO ₂)		93.40	100 ppm
Nitrogen Di-oxide (NO ₂)		3.10	50 ppm

Note : NTP conditions have been taken as 25 Deg. C & 760 mm of Hg atmospheric pressure.

ANALYSED BY,

(Analyst)

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704 & 813, Sakar-5, Nr. Mithakhali Railway Crossing, Off Ashram Road, Ahmedabad - 380 009. Tel/Fax : (079) 26583525

Report No. : AC/AIR/17-18/268

Date : 13-07-2017

SCRUBBER SAMPLING ANALYSIS REPORT

UNIT	: Intas Pharmaceuticals Ltd.	Sampling Date : 07-07-2017
SITE	: Plot No. 457, 458, Sarkhej-Bavla Highway, Vil. : Matoda – 382 210. Ta. Sanand, Dist. : Ahmedabad.	TIME : 01 : 15 PM
SAMPLING LOCATION	: Vent attached to reaction vessel of API Plant.	

GAS CONCENTRATION DATA

Sampling Duration (min.)		30.00
Vaccum Gauge Reading (mm. of Hg.)		0.00
Gas flow-rate (litres per min.)		5.00
Volume of Gas Sampled at STP Conditions (cu. mt.)		0.15

RESULTS

PARAMETER		CONCENTRATION	GPCB Limit
		mg/Nm ³	mg/Nm ³
Particulate Matter	(PM)	Nil	150.00
Sulphur Di-oxide	(SO ₂)	15.60	40.00
Oxides of Nitrogen	(NOx)	2.95	25.00

Note : STP conditions have been taken as 25° C & 760 mm of Hg atmospheric pressure.

ANALYSED BY,

(Analyst)

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(Authorised Signatory)

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704 & 813, Sakar-5, Nr. Mithakhali Railway Crossing, Off Ashram Road, Ahmedabad - 380 009. Tel/Fax : (079) 26583525

Report No. : AC/AIR/17-18/269

Date : 13-07-2017

STACK SAMPLING ANALYSIS REPORT

UNIT	: Intas Pharmaceuticals Ltd.	Sampling Date : 07-07-2017
SITE	: Plot No. 457, 458, Sarkhej-Bayla Highway, Vil. : Matoda - 382 210. Ta. Sanand, Dist. : Ahmedabad.	TIME : 02 : 00 PM
SAMPLING LOCATION	: Stack attached to 1010 KVA DG set.	FUEL USED : LDO.

DUST CONCENTRATION (PM) DATA

Stack /Flue gas temperature (Deg. C)	214.00
Stack gas velocity (m./sec.)	6.35
Sampling duration (min.)	30.00
Vacuum gauge reading (mm. of Hg.)	10.00
Volume of gas sampled at NTP conditions (cu. m.)	0.65
Wt. of PM collected (mg.)	47.08

GAS CONCENTRATION DATA

Sampling duration (min.)	30.00
Gas flow-rate (litres per min.)	5.00
Volume of gas sampled at NTP conditions (cu. m.)	0.150

RESULTS

PARAMETER	CONCENTRATION		GPCB Limit
	mg/Nm ³	ppm	
Particulate matter (PM)	72.43	---	150 mg/Nm ³
Sulphur Di-oxide (SO ₂)		20.30	100 ppm
Nitrogen Di-oxide (NO ₂)		2.10	50 ppm

Note : NTP conditions have been taken as 25 Deg. C & 760 mm of Hg atmospheric pressure.

ANALYSED BY,

(Analyst)

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704 & 813, Sakar-5, Nr. Mithakhali Railway Crossing, Off Ashram Road, Ahmedabad - 380 009. Tel/Fax : (079) 26583525

Report No. : AC/AIR/17-18/270

Date : 13-07-2017

STACK SAMPLING ANALYSIS REPORT

UNIT	: Intas Pharmaceuticals Ltd.	Sampling Date : 07-07-2017
SITE	: Plot No. 457, 458, Sarkhej-Bavla Highway, Vil. : Matoda – 382 210. Ta. Sanand, Dist. : Ahmedabad.	TIME : 03 : 00 PM
SAMPLING LOCATION	: Stack attached to 650 KVA DG set.	FUEL USED : LDO.

DUST CONCENTRATION (PM) DATA

Stack /Flue gas temperature (Deg. C)	198.00
Stack gas velocity (m./sec.)	5.70
Sampling duration (min.)	30.00
Vacuum gauge reading (mm. of Hg.)	10.00
Volume of gas sampled at NTP conditions (cu. m.)	0.55
Wt. of PM collected (mg.)	32.08

GAS CONCENTRATION DATA

Sampling duration (min.)	30.00
Gas flow-rate (litres per min.)	5.00
Volume of gas sampled at NTP conditions (cu. m.)	0.150

RESULTS

PARAMETER	CONCENTRATION		GPCB Limit
	mg/Nm ³	ppm	
Particulate matter (PM)	58.33	---	150 mg/Nm ³
Sulphur Di-oxide (SO ₂)		21.44	100 ppm
Nitrogen Di-oxide (NO ₂)		2.30	50 ppm

Note : NTP conditions have been taken as 25 Deg. C & 760 mm of Hg atmospheric pressure.

ANALYSED BY,

(Analyst)

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Report No. : AC/AIR/17-18/271

Date : 13-07-2017

AMBIENT AIR SAMPLING ANALYSIS REPORT

UNIT	: Intas Pharmaceuticals Ltd.	Sampling Date : 07-07-2017
SITE	: Plot No. 457, 458, Sarkhej-Bavla Highway, Vil. : Matoda – 382 210. Ta. Sanand, Dist. : Ahmedabad.	TIME : 09 : 30 AM
SAMPLING LOCATION	: In open space near boiler house.	

AMBIENT AIR QUALITY DATA

(A) 8 hourly observation :		
1. Duration of sampling		09 : 30 AM to 05 : 30 PM
2. Weight of PM _{2.5} collected		0.394 mg.
3. Volume of Air sampled		7.665 Cubic meter
4. PM _{2.5} concentration		51.40 $\mu\text{g} / \text{m}^3$ GPCB Limit 60 $\mu\text{g} / \text{m}^3$

(B) 8 hourly observation :

Time : 09 : 30 AM to 05 : 30 PM

Volume of Air Sampled (cu. mt.)	0.24	GPCB Limit $\mu\text{g} / \text{m}^3$
Sulphur Di-oxide (SO₂) ($\mu\text{g} / \text{m}^3$)	10.40	80.00
Nitrogen Di-oxide (NO₂) ($\mu\text{g} / \text{m}^3$)	21.70	80.00

ANALYSED BY,

(Analyst)

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Report No. : AC/AIR/17-18/272

Date : 13-07-2017

AMBIENT AIR SAMPLING ANALYSIS REPORT

UNIT	: Intas Pharmaceuticals Ltd.	Sampling Date : 07-07-2017
SITE	: Plot No. 457, 458, Sarkhej-Bayla Highway, Vil. : Matoda – 382 210, Ta. Sanand, Dist. : Ahmedabad.	TIME : 09 : 30 AM
SAMPLING LOCATION	: In open space near boiler house.	

AMBIENT AIR QUALITY DATA

(A) <u>8 hourly observation</u> :	
1. Duration of sampling	09 : 30 AM to 05 : 30 PM
2. Weight of PM ₁₀ collected	0.685 mg.
3. Volume of Air sampled	7.580 Cubic meter
4. PM ₁₀ concentration	GPCB Limit 90.37 µg / m ³ 100 µg/m ³

ANALYSED BY,

(Analyst)

FOR AKSHAR CONSULTANTS,

(Authorised Signatory)



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Report No. : AC/AIR/17-18/273

Date : 13-07-2017

WORK AREA AIR SAMPLING ANALYSIS REPORT

UNIT	: INTAS PHARMACEUTICALS LTD.
SITE	: Plot No. 457, 458, Sarkhej-Bavla Highway, Vil. : Matoda – 382 210. Ta. Sanand, Dist. : Ahmedabad.

Sr. No.	Sampling location	Date of Sampling	Weight of PM _{2.5} collected (in ug)	Volume of Air sampled (in m ³)	Dust concentration – PM _{2.5} (in ug/m ³)	GPCB Limit (in ug/m ³)
1	Ware House Dispensing Area	07/07/'17	69.03	7.80	8.85	60.00
2	First floor of Manufacturing plant	07/07/'17	70.91	7.75	9.15	60.00
3	Second floor of Manufacturing plant	07/07/'17	72.9	8.05	8.98	60.00

Sr. No.	Sampling location	Date of Sampling	Methylene Di-chloride (MDC) concentration (VOC) (in ug/m ³)	Toluene concentration (VOC) (in ug/m ³)
1	Ware House Dispensing Area	07/07/'17	BDL	---
2	First floor of Manufacturing plant	07/07/'17	BDL	BDL
3	Second floor of Manufacturing plant	07/07/'17	BDL	---

BDL : Below Detectable Limit.

ANALYSED BY,

(Analyst)

FOR AKSHAR CONSULTANTS,

(Authorised Signatory)



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704 & 813, Sakar-5, Nr. Mithakhali Railway Crossing, Off Ashram Road, Ahmedabad - 380 009. Tel/Fax : (079) 26583525

INSTANTANEOUS NOISE LEVEL MONITORING REPORT

Name of Company : Intas Pharmaceuticals Ltd.

Address : Plot No. 457, 458, Sarkhej Bavla Highway,
Vil. : Motoda – 382 210,
Dist. : Ahmedabad.

Date : 07-07-2017

Sr. No.	LOCATIONS	AVERAGE READING (dB)	
		12:30 PM to 01:00 PM (day time)	11:25 PM to 11:55 PM (night time)
01	Near main gate no.1.	60.3	51.4
02	Near main gate no. 2.	64.6	55.3
03	Near NE corner of premises.	63.7	55.2
04	Near SE corner of premises.	62.9	52.7
05	Near boiler house.	73.8	63.2
06	Near ETP.	74.2	63.9
07	Near RM storage area.	65.5	58.7
08	Near administration building.	63.8	54.9
09	Near pump house.	72.0	63.2
10	Near DG set & compressor room	74.1	64.3

Measured by, 2017

(Analyst)

For AKSHAR CONSULTANTS,

(AUTHORISED SIGNATORY)

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704 & 813, Sakar-5, Nr. Mithakhali Railway Crossing, Off Ashram Road, Ahmedabad - 380 009. Tel/Fax : (079) 26583525

Ref. No. AC/SOLID/17-18/008

Date : 13-07-2017

Intas Pharmaceuticals Ltd.,
Plot No. 457, 458, Sarkhej – Bavla Highway,
Vil. : Matoda – 382 210, Ta. : Sanand,
Dist. : Ahmedabad.

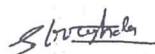
Sub. : Analysis report of your ETP sludge sample.

Source : Effluent Treatment Plant.
Date of Receipt : 07-07-2017
Sample drawn by : Akshar Consultants.
Physical state : Dry sludge.

Sr. No.	Characteristics	Unit	Results
01	pH (10 % Solution)	----	7.81
02	Chemical Oxygen Demand (COD)	gms/kg	9.35
03	Bio-chemical Oxygen Demand (BOD)	gms/kg	3.73
04	Chlorides	gms/kg	18.24
05	Sulphate	gms/kg	29.25
06	Total Inorganic Solids at 550 Deg. C	gms/kg	693.22
07	Total Dissolved Solids	gms/kg	94.80
08	Total Hardness (as CaCO_3)	gms/kg	11.00
09	Calcium Hardness (as CaCO_3)	gms/kg	7.50
10	Magnesium Hardness (as CaCO_3)	gms/kg	3.50
11	Oil & Oil Emulsions	gms/kg	N. D. *
12	Total Alkalinity (as CaCO_3)	gms/kg	2.11

N. D. *: Not Detected in gms/kg.

ANALYSED BY,



(Analyst)

For AKSHAR CONSULTANTS,



(Authorised Signatory)



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704 & 813, Sakar-5, Nr. Mithakhali Railway Crossing, Off Ashram Road, Ahmedabad - 380 009. Tel/Fax : (079) 26583525

Ref. No. AC/SOLID/17-18/009

Date : 13-07-2017

Intas Pharmaceuticals Ltd.,
Plot No. 457, 458, Sarkhej – Bavla Highway,
Vil. : Matoda – 382 210, Ta. : Sanand,
Dist. : Ahmedabad.

Sub. : Analysis report of your sludge sample (Incinerator Ash).

Source : Incinerator.
Date of Receipt : 07-07-2017
Sample drawn by : Akshar Consultants.
Physical state : Dry powder.

Sr. No.	Characteristics	Unit	Results
01	pH (10 % Solution)	----	8.44
02	Chemical Oxygen Demand (COD)	gms/kg	8.62
03	Bio-chemical Oxygen Demand (BOD)	gms/kg	1.99
04	Chlorides	gms/kg	35.35
05	Sulphate	gms/kg	19.20
06	Total Inorganic Solids at 550 Deg. C	gms/kg	882.45
07	Total Dissolved Solids	gms/kg	92.44
08	Total Hardness (as CaCO_3)	gms/kg	13.00
09	Calcium Hardness (as CaCO_3)	gms/kg	8.00
10	Magnesium Hardness (as CaCO_3)	gms/kg	5.00
11	Oil & Oil Emulsions	gms/kg	N. D. *
12	Total Alkalinity (as CaCO_3)	gms/kg	3.21

N. D. *: Not Detected in gms/kg.

ANALYSED BY,

S. Singh

(Analyst)

For AKSHAR CONSULTANTS,

D. J. Parekh

(Authorised Signatory)