



**AKSHAR  
CONSULTANTS**

THE ENVIRONMENT MANAGEMENT PEOPLE

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

Report No. AC/EFF/17-18/004

Date : 08-04-2017

Intas Pharmaceuticals Ltd.,  
Plot No. 191, Vil. : Chacharwadi-Vasna,  
Ta. : Sanand, Dist. : Ahmedabad.

**Sub. : ANALYSIS REPORT OF YOUR TREATED EFFLUENT SAMPLE.**

Sample drawn by : AKSHAR CONSULTANTS.  
Sample drawn date : 03-04-2017.

Sr. No.	Parameter	Result	GPCB Limit
1	pH	7.60	6.5 to 8.5
2	Temperature	34.00	40 Deg. C
3	Colour (Pt-Co Unit)	20.00	100 units
4	Suspended Solids	88.00	100
5	Oil & Grease	4.00	10
6	Phenolic Compounds	0.40	1
7	Cyanides	N. D.*	0.2
8	Fluorides	0.25	1.5
9	Sulphides	N. D.*	0.5
10	Ammonical Nitrogen	47.20	50
11	Arsenic	N. D.*	0.2
12	Total Chromium	N. D.*	2.0
13	Hexavalent Chromium	N. D.*	0.1
14	Copper	N. D.*	2
15	Lead	N. D.*	0.1
16	Mercury	N. D.*	0.01
17	Nickel	N. D.*	3
18	Zink	N. D.*	5
19	Cadmium	N. D.*	2
20	BOD	28.00	30
21	COD	97.00	100
22	Chlorides	589.00	600
23	Sulphate	247.00	1000
24	Total Dissolved Solids	2024.00	2100
25	Insecticides / Pesticides	Absent	Absent
26	Sodium absorption ratio (SAR)	23.45	26
27	Selenium	N. D.*	0.05
28	Boron	N. D.*	2
29	Total residual Chlorine	0.80	1
30	Percent Sodium	58.25	60
31	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, temp., colour, SAR, % Sodium are expressed in mg/L.  
N. D.\* : Not detected in mg/L.

Analysed By,

( Analyst )

For AKSHAR CONSULTANTS,

( AUTHORISED SIGNATORY )



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### INSTANTANEOUS NOISE LEVEL MONITORING REPORT

Name of Company : Intas Pharmaceuticals Ltd.

Address : Plot No. 191, Vil. : Chacharwadi-Vasna,  
Ta. : Sanand,  
Dist. : Ahmedabad.

Date : 03-04-2017

Sr. No.	LOCATIONS	AVERAGE READING ( dB )			
		02:00 PM to 02:30 PM (day time)	GPCB Limit (dB)	11:20 PM to 11:45 PM (night time)	GPCB Limit (dB)
01	Near main gate	60.3	75	51.8	70
02	Near ETP	69.2	75	57.6	70
03	Near Bore well	63.2	75	56.4	70
04	Near Electric Substation	69.1	75	58.3	70
05	Near Canteen	63.0	75	53.2	70
06	Near Utility Area	72.4	75	62.7	70
07	Near Ware House	66.9	75	61.4	70
08	Inside Production Area	68.3	75	61.8	70

Measured by,

( Analyst )

For AKSHAR CONSULTANTS,

( AUTHORISED SIGNATORY )

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Report No. : AC/AIR/17-18/018

Date : 10-04-2017

**WORK AREA AIR SAMPLING ANALYSIS REPORT**

UNIT	: INTAS PHARMACEUTICALS LTD.
SITE	: Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad.

Sr. No.	Sampling location	Date of Sampling	Weight of PM <sub>2.5</sub> collected (in ug)	Volume of Air sampled (in m <sup>3</sup> )	Dust concentration – PM <sub>2.5</sub> (in ug/m <sup>3</sup> )	GPCB Limit (in ug/m <sup>3</sup> )
1	Ware House Dispensing Area	03/04/'17	66.38	7.95	8.35	60.00
2	Ground floor of Manufacturing plant	03/04/'17	71.94	8.02	8.97	60.00
3	First floor of Manufacturing plant	03/04/'17	70.53	7.88	8.95	60.00

Sr. No.	Sampling location	Date of Sampling	Ethyl Acetate concentration (VOC) (in ug/m <sup>3</sup> )
1	Ware House Dispensing Area	03/04/'17	BDL
2	Ground floor of Manufacturing plant	03/04/'17	BDL
3	First floor of Manufacturing plant	03/04/'17	BDL

BDL : Below Detectable Limit.

ANALYSED BY,

( Analyst )

FOR AKSHAR CONSULTANTS,

( Authorised Signatory )



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Report No. : AC/AIR/17-18/017

Date : 10-04-2017

**AMBIENT AIR SAMPLING ANALYSIS REPORT**

UNIT	: Intas Pharmaceuticals Ltd.	Sampling Date : 03-04-2017
SITE	: Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad.	TIME : 09 : 45 AM
SAMPLING LOCATION	: In open space near main gate.	

**AMBIENT AIR QUALITY DATA**

( A ) 8 hourly observation :	
1. Duration of sampling	09 : 45 AM to 05 : 45 PM
2. Weight of PM <sub>10</sub> collected	0.627 mg.
3. Volume of Air sampled	7.880 Cubic meter
4. PM <sub>10</sub> concentration	<b>GPCB Limit</b> 79.57 µg / m <sup>3</sup> 100 µg/m <sup>3</sup>

ANALYSED BY,

( Analyst )

FOR AKSHAR CONSULTANTS,

( Authorised Signatory )





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Report No. : AC/AIR/17-18/016

Date : 10-04-2017

**AMBIENT AIR SAMPLING ANALYSIS REPORT**

UNIT	: Intas Pharmaceuticals Ltd.	Sampling Date : 03-04-2017
SITE	: Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad.	TIME : 09 : 45 AM
SAMPLING LOCATION	: In open space near main gate.	

**AMBIENT AIR QUALITY DATA**

<b>( A ) 8 hourly observation :</b>	
1. Duration of sampling	09 : 45 AM to 05 : 45 PM
2. Weight of PM <sub>2.5</sub> collected	0.347 mg.
3. Volume of Air sampled	7.785 Cubic meter
4. PM <sub>2.5</sub> concentration	44.57 µg / m <sup>3</sup> GPCB Limit 60 µg/m <sup>3</sup>

**( B ) 8 hourly observation :**

**Time :** 09 : 45 AM to 05 : 45 PM

Volume of Air Sampled ( cu. mt. )	0.24	GPCB Limit µg/m <sup>3</sup>
<b>Sulphur Di-oxide ( SO<sub>2</sub> ) ( ug/m<sup>3</sup> )</b>	<b>11.90</b>	<b>80.00</b>
<b>Nitrogen Di-oxide ( NO<sub>2</sub> ) ( ug/m<sup>3</sup> )</b>	<b>27.33</b>	<b>80.00</b>

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

Report No. : AC/AIR/17-18/015

Date : 10-04-2017

**SCRUBBER SAMPLING ANALYSIS REPORT**

UNIT	: Intas Pharmaceuticals Ltd.	Sampling Date : 03-04-2017
SITE	: Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad.	TIME : 04 : 00 PM
SAMPLING LOCATION	: Vent attached to Solvent Vapour scrubber of wing - 2.	

**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 <sup>3</sup>	mg/Nm <sup>3</sup>
Hydrochloric Acid (HCl)	Nil	20.00
Chlorine	Nil	9.00
Sulphur Di-oxide (SO <sub>2</sub> )	Nil	40.00
Oxides of Nitrogen (NO <sub>x</sub> )	Nil	25.00
Ammonia	Nil	175.00
H <sub>2</sub> S	Nil	45.00
CS <sub>2</sub>	Nil	180.00
CO	Nil	150.00
Hydro Carbon (VOC)	8.05	45.00
Mercaptan	Nil	0.5 (by volume)

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

ANALYSED BY,

( Analyst )

FOR AKSHAR CONSULTANTS,

( Authorised Signatory )

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

Report No. : AC/AIR/17-18/014

Date : 10-04-2017

**SCRUBBER SAMPLING ANALYSIS REPORT**

UNIT	: Intas Pharmaceuticals Ltd.	Sampling Date : 03-04-2017
SITE	: Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad.	TIME : 03 : 00 PM
SAMPLING LOCATION	: Vent attached to Solvent Vapour scrubber of wing – 1.	

**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 <sup>3</sup>	mg/Nm <sup>3</sup>
Hydrochloric Acid (HCl)	Nil	20.00
Chlorine	Nil	9.00
Sulphur Di-oxide (SO <sub>2</sub> )	Nil	40.00
Oxides of Nitrogen (NO <sub>x</sub> )	Nil	25.00
Ammonia	Nil	175.00
H <sub>2</sub> S	Nil	45.00
CS <sub>2</sub>	Nil	180.00
CO	Nil	150.00
Hydro Carbon (VOC)	6.20	45.00
Mercaptan	Nil	0.5 (by volume)

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

ANALYSED BY,

( Analyst )

FOR AKSHAR CONSULTANTS,

( Authorised Signatory )



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Report No. : AC/AIR/17-18/013

Date : 10-04-2017

**SCRUBBER SAMPLING ANALYSIS REPORT**

UNIT	: Intas Pharmaceuticals Ltd.	Sampling Date : 03-04-2017
SITE	: Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad.	TIME : 02 : 00 PM
SAMPLING LOCATION	: Vent attached to HCl scrubber of wing – 2.	

**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 <sup>3</sup>	mg/Nm <sup>3</sup>
Hydrochloric Acid (HCl)	12.98	20.00
Chlorine	Nil	9.00
Sulphur Di-oxide (SO <sub>2</sub> )	Nil	40.00
Oxides of Nitrogen (NO <sub>x</sub> )	Nil	25.00
Ammonia	Nil	175.00
H <sub>2</sub> S	Nil	45.00
CS <sub>2</sub>	Nil	180.00
CO	Nil	150.00
Hydro Carbon (VOC)	Nil	45.00
Mercaptan	Nil	0.5 (by volume)

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

ANALYSED BY,

( Analyst )

FOR AKSHAR CONSULTANTS,

( Authorised Signatory )





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Report No. : AC/AIR/17-18/012

Date : 10-04-2017

**SCRUBBER SAMPLING ANALYSIS REPORT**

UNIT	: Intas Pharmaceuticals Ltd.	Sampling Date : 03-04-2017
SITE	: Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad.	TIME : 01 : 30 PM
SAMPLING LOCATION	: Vent attached to HCl scrubber of wing - 1.	

**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 <sup>3</sup>	mg/Nm <sup>3</sup>
Hydrochloric Acid (HCl)	11.66	20.00
Chlorine	Nil	9.00
Sulphur Di-oxide (SO <sub>2</sub> )	Nil	40.00
Oxides of Nitrogen (NO <sub>x</sub> )	Nil	25.00
Ammonia	Nil	175.00
H <sub>2</sub> S	Nil	45.00
CS <sub>2</sub>	Nil	180.00
CO	Nil	150.00
Hydro Carbon (VOC)	Nil	45.00
Mercaptan	Nil	0.5 (by volume)

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

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/17-18/003

Date : 10-04-2017

Intas Pharmaceuticals Ltd.,  
Plot No. 191, Vil. : Chachrwadi-Vasna,  
Ta. : Sanand, Dist. : Ahmedabad.

**Sub. : Analysis report of your ETP sludge sample.**

Source : Effluent Treatment Plant.  
Date of Receipt : 03-04-2017  
**Sample drawn by : Akshar Consultants.**  
Physical state : Dry sludge.

Sr. No.	Characteristics	Unit	Results
01	pH ( 10 % Solution )	----	7.71
02	Chemical Oxygen Demand ( COD )	gms/kg	21.80
03	Bio-chemical Oxygen Demand ( BOD )	gms/kg	6.98
04	Chlorides	gms/kg	28.33
05	Sulphate	gms/kg	21.05
06	Total Inorganic Solids at 550 Deg. C	gms/kg	685.05
07	Total Dissolved Solids	gms/kg	93.22
08	Total Hardness ( as $\text{CaCO}_3$ )	gms/kg	13.00
09	Calcium Hardness ( as $\text{CaCO}_3$ )	gms/kg	7.50
10	Magnesium Hardness ( as $\text{CaCO}_3$ )	gms/kg	5.50
11	Oil & Oil Emulsions	gms/kg	N. D. *
12	Total Alkalinity ( as $\text{CaCO}_3$ )	gms/kg	2.91

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

Analysed By,

( Analyst )

For AKSHAR CONSULTANTS,

( AUTHORISED SIGNATORY )