



## 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/14-15/141

Date : 20-10-2014

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 : 15-10-2014.

Sr. No.	Parameter	Result	GPCB Limit
1	pH	7.95	6.5 to 8.5
2	Temperature	31.00	40 Deg. C
3	Colour (Pt-Co Unit)	10.00	100 units
4	Suspended Solids	81.00	100
5	Oil & Grease	2.00	10
6	Phenolic Compounds	0.25	1
7	Cyanides	N. D.*	0.2
8	Fluorides	0.25	1.5
9	Sulphides	N. D.*	0.5
10	Ammonical Nitrogen	11.50	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	20.00	30
21	COD	80.00	100
22	Chlorides	517.00	600
23	Sulphate	260.00	1000
24	Total Dissolved Solids	2052.00	2100
25	Insecticides / Pesticides	Absent	Absent
26	Sodium absorption ratio (SAR)	23.15	26
27	Selenium	N. D.*	0.05
28	Boron	N. D.*	2
29	Total residual Chlorine	0.60	1
30	Percent Sodium	55.15	60
31	Bio - assay Test	91 % survival of fish after 96 hours in 100 % effluent	90 % survival of fish after 96 hours 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 )

EFFNA



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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/14-15/462

**AMBIENT AIR SAMPLING ANALYSIS REPORT**

UNIT	: Intas Pharmaceuticals Ltd.	DATE	: 15-10-2014
SITE	: Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad.	TIME	: 10 : 00 AM
SAMPLING LOCATION	: In open space near main gate.		

**AMBIENT AIR QUALITY DATA**

<b>( A ) 8 hourly observation :</b>	
1. Duration of sampling	10 : 00 AM to 06 : 00 PM
2. Weight of PM <sub>2.5</sub> collected	0.433 mg.
3. Volume of Air sampled	8.005 Cubic meter
4. PM <sub>2.5</sub> concentration	<b>54.09 <math>\mu\text{g} / \text{m}^3</math></b> <b>GPCB Limit</b> <b>60 <math>\mu\text{g}/\text{m}^3</math></b>

**( B ) 8 hourly observation :**


**Time :** 10 : 00 AM to 06 : 00 PM

Volume of Air Sampled ( cu. mt. )	0.24	<b>GPCB Limit</b> <b><math>\mu\text{g}/\text{m}^3</math></b>
<b>Sulphur Di-oxide ( SO<sub>2</sub> ) ( <math>\mu\text{g}/\text{m}^3</math> )</b>	<b>17.25</b>	<b>80.00</b>
<b>Nitrogen Di-oxide ( NO<sub>2</sub> ) ( <math>\mu\text{g}/\text{m}^3</math> )</b>	<b>29.80</b>	<b>80.00</b>

ANALYSED BY,

  
( Analyst )

FOR AKSHAR CONSULTANTS,

  
( Authorised Signatory )

STAKANA



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Report No. : AC/AIR/14-15/463

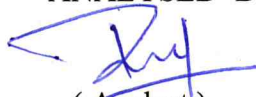
**AMBIENT AIR SAMPLING ANALYSIS REPORT**

UNIT	: Intas Pharmaceuticals Ltd.	DATE : 15-10-2014
SITE	: Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad.	TIME : 10 : 00 AM
SAMPLING LOCATION	: In open space near main gate.	


**AMBIENT AIR QUALITY DATA**

( A ) 8 hourly observation :	
1. Duration of sampling	10 : 00 AM to 06 : 00 PM
2. Weight of PM <sub>10</sub> collected	0.711 mg.
3. Volume of Air sampled	7.955 Cubic meter
4. PM <sub>10</sub> concentration	<b>89.38 µg / m<sup>3</sup></b> <b>GPCB Limit</b> <b>100 µg/m<sup>3</sup></b>

ANALYSED BY,

  
( Analyst )

FOR AKSHAR CONSULTANTS,

  
( Authorised Signatory )

STAKANA



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

Ref. No. AC/SOLID/14-15/018

Date : 20-10-2014

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 : 15-10-2014  
**Sample drawn by : Akshar Consultants.**  
Physical state : Semi – solid sludge.

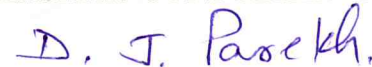
Sr. No.	Characteristics	Unit	Results
01	pH ( 10 % Solution )	----	7.95
02	Chemical Oxygen Demand ( COD )	gms/kg	69.15
03	Bio-chemical Oxygen Demand ( BOD )	gms/kg	17.60
04	Chlorides	gms/kg	28.60
05	Sulphate	gms/kg	14.10
06	Total Inorganic Solids at 550 Deg. C	gms/kg	690.74
07	Total Dissolved Solids	gms/kg	78.66
08	Total Hardness ( as CaCO <sub>3</sub> )	gms/kg	13.00
09	Calcium Hardness ( as CaCO <sub>3</sub> )	gms/kg	8.50
10	Magnesium Hardness ( as CaCO <sub>3</sub> )	gms/kg	4.50
11	Oil & Oil Emulsions	gms/kg	N. D. *
12	Total Alkalinity ( as CaCO <sub>3</sub> )	gms/kg	3.40

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

ANALYSED BY,

  
( Analyst )

For AKSHAR CONSULTANTS,

  
( Authorised Signatory )

SLUDGE



## AKSHAR CONSULTANTS

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Report No. : AC/AIR/14-15/456

### SCRUBBER SAMPLING ANALYSIS REPORT

UNIT	: Intas Pharmaceuticals Ltd.	DATE : 15-10-2014
SITE	: Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad.	TIME : 11 : 00 AM
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)	12.30	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 )

STAKANA



## 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/AIR/14-15/457

### SCRUBBER SAMPLING ANALYSIS REPORT

UNIT	: Intas Pharmaceuticals Ltd.	DATE : 15-10-2014
SITE	: Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad.	TIME : 01 : 30 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)	11.95	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 )

STAKANA





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Report No. : AC/AIR/14-15/458

### SCRUBBER SAMPLING ANALYSIS REPORT

UNIT	: Intas Pharmaceuticals Ltd.	DATE : 15-10-2014
SITE	: Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad.	TIME : 02 : 15 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

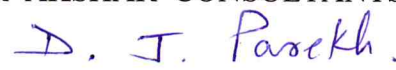
PARAMETER	CONCENTRATION	GPCB Limit
	mg/Nm <sup>3</sup>	mg/Nm <sup>3</sup>
Hydrochloric Acid (HCl)	Nil	20.00
Chlorine	Nil	9.00
Sulphur Di-oxide (SO <sub>2</sub> )	Nil	40.00
Oxides of Nitrogen (NO <sub>x</sub> )	Nil	25.00
Ammonia	Nil	175.00
H <sub>2</sub> S	Nil	45.00
CS <sub>2</sub>	Nil	180.00
CO	Nil	150.00
Hydro Carbon (VOC)	9.50	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/14-15/459

### SCRUBBER SAMPLING ANALYSIS REPORT

UNIT	: Intas Pharmaceuticals Ltd.	DATE : 15-10-2014
SITE	: Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad.	TIME : 05 : 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)	10.30	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 )

STAKANA





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Report No. : AC/AIR/14-15/465

### 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	15/10/'14	55.41	7.95	6.97	60.00
2	Ground floor of Manufacturing plant	15/10/'14	58.03	8.15	7.12	60.00
3	First floor of Manufacturing plant	15/10/'14	53.15	7.98	6.66	60.00

Sr. No.	Sampling location	Date of Sampling	Ethyl Acetate concentration (VOC) (in ug/m <sup>3</sup> )
1	Ware House Dispensing Area	15/10/'14	BDL
2	Ground floor of Manufacturing plant	15/10/'14	BDL
3	First floor of Manufacturing plant	15/10/'14	BDL

BDL : Below Detectable Limit.

ANALYSED BY,

(Analyst)

FOR AKSHAR CONSULTANTS,

D. J. Parekh,  
(Authorised Signatory)

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