



## 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/14-15/014

Date : 21-04-2014

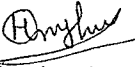
Intas Pharmaceuticals Ltd.,  
Plot No. 457, 458, Sarkhej – Bavala Highway,  
Vil. : Matoda – 382 210, Ta. : Sanand,  
Dist. : Ahmedabad.

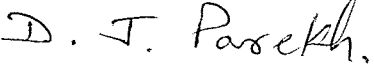
### Sub. : ANALYSIS REPORT OF YOUR TREATED EFFLUENT SAMPLE.

Sample drawn by : Akshar Consultants.  
Sample collection date : 14-04-2014.

Sr. No.	Parameter	Result	GPCB Limit
01	pH	7.23	6.5 – 8.5
02	Temperature ( Deg. C )	32.00	40.00
03	Colour ( Pt-Co unit )	10.00	100.00
04	Total Suspended Solids	60.00	100.00
05	Oil & Grease	1.00	10.00
06	Phenolic Compounds	Nil	1.00
07	Cyanides	N. D. *	0.20
08	Fluorides	0.30	2.00
09	Sulphides	0.40	2.00
10	Ammonical Nitrogen	11.50	50.00
11	Total Chromium	N. D. *	2.00
12	Hexavalent Chromium	N. D. *	0.10
13	Copper	N. D. *	3.00
14	Lead	N. D. *	0.10
15	Mercury	N. D. *	0.01
16	Nickel	N. D. *	3.00
17	Zinc	N. D. *	5.00
18	COD	80.00	100.00
19	BOD	18.00	30.00
20	Chlorides	515.00	600.00
21	Sulphates	220.00	1000.00
22	Total Dissolved Solids	2033.00	2100.00
23	Sodium Absorption Ratio	23.00	26.00
24	Arsenic	N. D. *	0.20
25	Cadmium	N. D. *	2.00
26	Insecticide / Pesticide	Absent	Absent
27	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, Temperature & Colour are expressed in mg/L.  
N.D.\* : Not Detected in mg/L.

Analysed By,  
  
( Analyst )

For AKSHAR CONSULTANTS,  
  
( AUTHORISED SIGNATORY )

EFFANA



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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/14-15/032

**STACK SAMPLING ANALYSIS REPORT**

UNIT	: Intas Pharmaceuticals Ltd.	DATE	: 14-04-2014
SITE	: Plot No. 457, 458, Sarkhej-Bavla Highway, Vil. : Matoda – 382 210. Ta. Sanand, Dist. : Ahmedabad.	TIME	: 12 : 15 PM
SAMPLING LOCATION	: Stack attached to 10 TPH Steam boiler.	FUEL USED	: Imported Coal.

**DUST CONCENTRATION ( PM ) DATA**

Stack /Flue gas temperature ( Deg. C )	111.00
Stack gas velocity ( m./sec.)	10.11
Sampling duration ( min.)	30.00
Vacuum gauge reading (mm. of Hg.)	10.00
Volume of gas sampled at NTP conditions ( cu. m. )	0.50
Wt. of PM collected ( mg.)	46.27

**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**

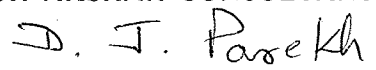
PARAMETER	CONCENTRATION		GPCB Limit
	mg/Nm <sup>3</sup>	ppm	
Particulate matter ( PM )	92.54	---	150 mg/Nm <sup>3</sup>
Sulphur Di-oxide ( SO <sub>2</sub> )		59.15	100 ppm
Nitrogen Di-oxide ( NO <sub>2</sub> )		7.90	50 ppm

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

ANALYSED BY,

  
( Analyst )

FOR AKSHAR CONSULTANTS,

  
( Authorised Signatory )

STAKANA



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Report No. : AC/AIR/14-15/033

**STACK SAMPLING ANALYSIS REPORT**

UNIT	: Intas Pharmaceuticals Ltd.	DATE	: 14-04-2014
SITE	: Plot No. 457, 458, Sarkhej-Bavla Highway, Vil. : Matoda – 382 210. Ta. Sanand, Dist. : Ahmedabad.	TIME	: 12 : 50 PM
SAMPLING LOCATION	: Stack attached to Liquid / Solid Waste Incinerator.	FUEL USED	: HSD

**DUST CONCENTRATION ( PM ) DATA**

Stack /Flue gas temperature ( Deg. C )	89.00
Stack gas velocity ( m./sec.)	10.55
Sampling duration ( min.)	30.00
Vacuum gauge reading (mm. of Hg.)	10.00
Volume of gas sampled at NTP conditions ( cu. m. )	0.44
Wt. of PM collected ( mg.)	47.01

**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**

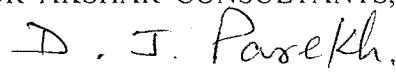
PARAMETER	CONCENTRATION		GPCB Limit
	mg/Nm <sup>3</sup>	ppm	
Particulate matter ( PM )	106.84	---	150 mg/Nm <sup>3</sup>
Sulphur Di-oxide ( SO <sub>2</sub> )		22.95	100 ppm
Nitrogen Di-oxide ( NO <sub>2</sub> )		7.85	50 ppm

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

ANALYSED BY,

  
( Analyst )

FOR AKSHAR CONSULTANTS,

  
( Authorised Signatory )

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Report No. : AC/AIR/14-15/034

**SCRUBBER SAMPLING ANALYSIS REPORT**

UNIT	: Intas Pharmaceuticals Ltd.	DATE	: 14-04-2014
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 HCl scrubber 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**

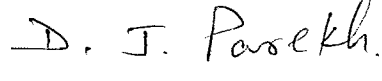
PARAMETER	CONCENTRATION		GPCB Limit
		mg/Nm <sup>3</sup>	mg/Nm <sup>3</sup>
Hydrochloric Acid (HCl)	12.30	20.00	
Particulate Matter (PM)	Nil	150.00	
Sulphur Di-oxide (SO <sub>2</sub> )	Nil	40.00	
Oxides of Nitrogen (NO <sub>x</sub> )	Nil	25.00	

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/14-15/035

**SCRUBBER SAMPLING ANALYSIS REPORT**

UNIT	: Intas Pharmaceuticals Ltd.	DATE	: 14-04-2014
SITE	: Plot No. 457, 458, Sarkhej-Bavla Highway, Vil. : Matoda – 382 210. Ta. Sanand, Dist. : Ahmedabad.	TIME	: 11: 30 AM
SAMPLING LOCATION	: Vent attached to Ammonia Scrubber 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

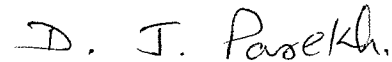
**RESULTS**

PARAMETER	CONCENTRATION		GPCB Limit
		mg/Nm <sup>3</sup>	mg/Nm <sup>3</sup>
Ammonia (NH <sub>3</sub> )		33. 70	175.00
Particulate Matter (PM)		Nil	150.00
Sulphur Di-oxide (SO <sub>2</sub> )		Nil	40.00
Oxides of Nitrogen (NO <sub>x</sub> )		Nil	25.00

ANALYSED BY,

  
( Analyst )

FOR AKSHAR CONSULTANTS,

  
( Authorised Signatory )

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Report No. : AC/AIR/14-15/036

**AMBIENT AIR SAMPLING ANALYSIS REPORT**

UNIT	: Intas Pharmaceuticals Ltd.	DATE	: 14-04-2014
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 <sub>2.5</sub> collected	0.396 mg.
3. Volume of Air sampled	7.950 Cubic meter
4. PM <sub>2.5</sub> concentration	<b>49.81 µg / m<sup>3</sup></b> <b>GPCB Limit 60 µg/m<sup>3</sup></b>

(B) 8 hourly observation :

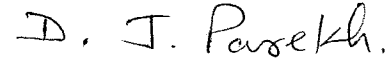
Time : 09 : 30 AM to 05 : 30 PM

Volume of Air Sampled ( cu. mt. )	0.24	<b>GPCB Limit µg/m<sup>3</sup></b>
<b>Sulphur Di-oxide ( SO<sub>2</sub> ) ( µg/m<sup>3</sup> )</b>	<b>17.20</b>	<b>80.00</b>
<b>Nitrogen Di-oxide ( NO<sub>2</sub> ) ( µg/m<sup>3</sup> )</b>	<b>31.85</b>	<b>80.00</b>

ANALYSED BY,

  
( Analyst )

FOR AKSHAR CONSULTANTS,

  
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Report No. : AC/AIR/14-15/037

**AMBIENT AIR SAMPLING ANALYSIS REPORT**

UNIT	: Intas Pharmaceuticals Ltd.	DATE	: 14-04-2014
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.		

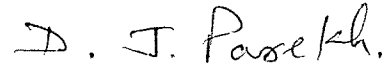
**AMBIENT AIR QUALITY DATA**

(A) 8 hourly observation :	
1. Duration of sampling	09 : 30 AM to 05 : 30 PM
2. Weight of PM <sub>10</sub> collected	0.632 mg.
3. Volume of Air sampled	7.805 Cubic meter
4. PM <sub>10</sub> concentration	<b>GPCB Limit</b> 80.97 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/14-15/038

**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 <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	14/04/'14	47.50	7.85	6.05	60.00
2	First floor of Manufacturing plant	14/04/'14	41.30	7.65	5.40	60.00
3	Second floor of Manufacturing plant	14/04/'14	39.55	7.80	5.07	60.00

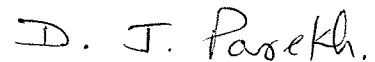
Sr. No.	Sampling location	Date of Sampling	Methylene Di-chloride (MDC) concentration (VOC) (in ug/m <sup>3</sup> )	Toluene concentration (VOC) (in ug/m <sup>3</sup> )
1	Ware House Dispensing Area	14/04/'14	BDL	---
2	First floor of Manufacturing plant	14/04/'14	BDL	BDL
3	Second floor of Manufacturing plant	14/04/'14	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

Ref. No. AC/SOLID/14-15/001

Date : 21-04-2014

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 : 14-04-2014  
**Sample drawn by : Akshar Consultants.**  
Physical state : Semi – solid sludge.

Sr. No.	Characteristics	Unit	Results
01	pH ( 10 % Solution )	----	8.05
02	Chemical Oxygen Demand ( COD )	gms/kg	13.60
03	Bio-chemical Oxygen Demand ( BOD )	gms/kg	4.10
04	Chlorides	gms/kg	12.70
05	Sulphate	gms/kg	21.65
06	Total Inorganic Solids at 550 Deg. C	gms/kg	692.25
07	Total Dissolved Solids	gms/kg	63.80
08	Total Hardness ( as CaCO <sub>3</sub> )	gms/kg	8.50
09	Calcium Hardness ( as CaCO <sub>3</sub> )	gms/kg	5.50
10	Magnesium Hardness ( as CaCO <sub>3</sub> )	gms/kg	3.00
11	Oil & Oil Emulsions	gms/kg	N. D. *
12	Total Alkalinity ( as CaCO <sub>3</sub> )	gms/kg	6.25

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

ANALYSED BY,

( Analyst )

For AKSHAR CONSULTANTS,

( Authorised Signatory )

SLUDGE



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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/14-15/002

Date : 21-04-2014

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

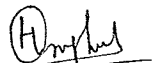
**Sub. : Analysis report of your sludge sample ( Incinerator Ash ).**

Source : Incinerator.  
Date of Receipt : 14-04-2014  
**Sample drawn by : Akshar Consultants.**  
Physical state : Dry powder.

Sr. No.	Characteristics	Unit	Results
01	pH ( 10 % Solution )	----	8.10
02	Chemical Oxygen Demand ( COD )	gms/kg	4.25
03	Bio-chemical Oxygen Demand ( BOD )	gms/kg	0.85
04	Chlorides	gms/kg	11.95
05	Sulphate	gms/kg	6.05
06	Total Inorganic Solids at 550 Deg. C	gms/kg	885.70
07	Total Dissolved Solids	gms/kg	89.70
08	Total Hardness ( as CaCO <sub>3</sub> )	gms/kg	12.00
09	Calcium Hardness ( as CaCO <sub>3</sub> )	gms/kg	7.00
10	Magnesium Hardness ( as CaCO <sub>3</sub> )	gms/kg	5.00
11	Oil & Oil Emulsions	gms/kg	N. D. *
12	Total Alkalinity ( as CaCO <sub>3</sub> )	gms/kg	7.15

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

ANALYSED BY,

  
( Analyst )

For AKSHAR CONSULTANTS,

  
( Authorised Signatory )

SLUDGE