



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/14-15/015

Date : 21-04-2014

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

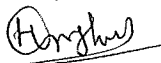
Sub. : ANALYSIS REPORT OF YOUR TREATED EFFLUENT SAMPLE.

Sample drawn by : AKSHAR CONSULTANTS.
Sample drawn date : 14-04-2014.

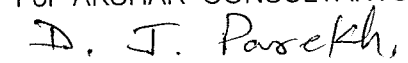
| Sr. No. | Parameter | Result | GPCB Limit |
|---------|-------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| 1 | pH | 7.70 | 6.5 to 8.5 |
| 2 | Temperature | 31.00 | 40 Deg. C |
| 3 | Colour (Pt-Co Unit) | 10.00 | 100 units |
| 4 | Suspended Solids | 73.00 | 100 |
| 5 | Oil & Grease | 2.00 | 10 |
| 6 | Phenolic Compounds | 0.25 | 1 |
| 7 | Cyanides | N. D.* | 0.2 |
| 8 | Fluorides | 0.35 | 1.5 |
| 9 | Sulphides | N. D.* | 0.5 |
| 10 | Ammonical Nitrogen | 11.00 | 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 | 24.00 | 30 |
| 21 | COD | 92.00 | 100 |
| 22 | Chlorides | 504.00 | 600 |
| 23 | Sulphate | 333.00 | 1000 |
| 24 | Total Dissolved Solids | 2058.00 | 2100 |
| 25 | Insecticides / Pesticides | Absent | Absent |
| 26 | Sodium absorption ratio (SAR) | 22.50 | 26 |
| 27 | Selenium | N. D.* | 0.05 |
| 28 | Boron | N. D.* | 2 |
| 29 | Total residual Chlorine | 0.60 | 1 |
| 30 | Percent Sodium | 55.50 | 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/14-15/039

SCRUBBER SAMPLING ANALYSIS REPORT

| | | | |
|----------------------|----------------------------------------------------------------------------|------|--------------|
| UNIT | : Intas Pharmaceuticals Ltd. | DATE | : 14-04-2014 |
| SITE | : Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad. | TIME | : 10 : 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 ³ | | mg/Nm ³ |
| Hydrochloric Acid (HCl) | 11.10 | | 20.00 |
| Chlorine | Nil | | 9.00 |
| Sulphur Di-oxide (SO ₂) | Nil | | 40.00 |
| Oxides of Nitrogen (NO _x) | Nil | | 25.00 |
| Ammonia | Nil | | 175.00 |
| H ₂ S | Nil | | 45.00 |
| CS ₂ | 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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704 & 813, Sakar-5, Nr. Mithakhali Railway Crossing, Off Ashram Road, Ahmedabad - 380 009. Tel/Fax : (079) 26583525

Report No. : AC/AIR/14-15/040

SCRUBBER SAMPLING ANALYSIS REPORT

| | | | |
|----------------------|----------------------------------------------------------------------------|------|--------------|
| UNIT | : Intas Pharmaceuticals Ltd. | DATE | : 14-04-2014 |
| SITE | : Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad. | TIME | : 03 : 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

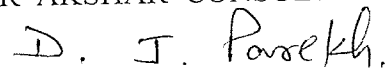
| PARAMETER | CONCENTRATION | GPCB Limit |
|---------------------------------------|--------------------|--------------------|
| | mg/Nm ³ | mg/Nm ³ |
| Hydrochloric Acid (HCl) | 13.45 | 20.00 |
| Chlorine | Nil | 9.00 |
| Sulphur Di-oxide (SO ₂) | Nil | 40.00 |
| Oxides of Nitrogen (NO _x) | Nil | 25.00 |
| Ammonia | Nil | 175.00 |
| H ₂ S | Nil | 45.00 |
| CS ₂ | 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/14-15/041

SCRUBBER SAMPLING ANALYSIS REPORT

| | | | |
|-------------------|----------------------------------------------------------------------------|------|--------------|
| UNIT | : Intas Pharmaceuticals Ltd. | DATE | : 14-04-2014 |
| SITE | : Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad. | TIME | : 03 : 40 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 ³ | | mg/Nm ³ |
| Hydrochloric Acid (HCl) | Nil | | 20.00 |
| Chlorine | Nil | | 9.00 |
| Sulphur Di-oxide (SO ₂) | Nil | | 40.00 |
| Oxides of Nitrogen (NO _x) | Nil | | 25.00 |
| Ammonia | Nil | | 175.00 |
| H ₂ S | Nil | | 45.00 |
| CS ₂ | Nil | | 180.00 |
| CO | Nil | | 150.00 |
| Hydro Carbon (VOC) | 8.50 | | 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)

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(Authorised Signatory)

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Report No. : AC/AIR/14-15/042

SCRUBBER SAMPLING ANALYSIS REPORT

| | | |
|----------------------|----------------------------------------------------------------------------|-------------------|
| UNIT | : Intas Pharmaceuticals Ltd. | DATE : 14-04-2014 |
| SITE | : Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad. | TIME : 04 : 30 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

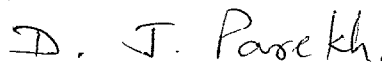
| PARAMETER | CONCENTRATION | | GPCB Limit |
|---------------------------------------|---------------|--------------------|--------------------|
| | | mg/Nm ³ | mg/Nm ³ |
| Hydrochloric Acid (HCl) | Nil | 20.00 | |
| Chlorine | Nil | 9.00 | |
| Sulphur Di-oxide (SO ₂) | Nil | 40.00 | |
| Oxides of Nitrogen (NO _x) | Nil | 25.00 | |
| Ammonia | Nil | 175.00 | |
| H ₂ S | Nil | 45.00 | |
| CS ₂ | Nil | 180.00 | |
| CO | Nil | 150.00 | |
| Hydro Carbon (VOC) | 7.50 | 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)

STAKANA



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Report No. : AC/AIR/14-15/043

AMBIENT AIR SAMPLING ANALYSIS REPORT

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


| | |
|------------------------------------------|---------------------------------------------------------------------|
| <u>(A) 8 hourly observation :</u> | |
| 1. Duration of sampling | 09 : 45 AM to 05 : 45 PM |
| 2. Weight of PM _{2.5} collected | 0.360 mg. |
| 3. Volume of Air sampled | 7.695 Cubic meter |
| 4. PM _{2.5} concentration | 46.78 µg / m ³ GPCB Limit 60 µg/m ³ |

(B) 8 hourly observation :

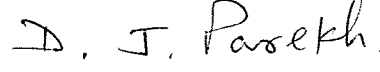
Time : 09 : 45 AM to 05 : 45 PM

| Volume of Air Sampled (cu. mt.) | 0.24 | GPCB Limit µg/m ³ |
|-------------------------------------------------------------|-------|---------------------------------|
| Sulphur Di-oxide (SO ₂) (µg/m ³) | 15.90 | 80.00 |
| Nitrogen Di-oxide (NO ₂) (µg/m ³) | 25.80 | 80.00 |

ANALYSED BY,


(Analyst)

FOR AKSHAR CONSULTANTS,


(Authorised Signatory)

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Report No. : AC/AIR/14-15/044


AMBIENT AIR SAMPLING ANALYSIS REPORT

| | | |
|----------------------|----------------------------------------------------------------------------|-------------------|
| UNIT | : Intas Pharmaceuticals Ltd. | DATE : 14-04-2014 |
| SITE | : Plot No. 191, Vil. : Chacharwadi-Vasna Ta. Sanand, Dist. : Ahmedabad. | TIME : 09 : 45 AM |
| SAMPLING LOCATION | : In open space near main gate. | |

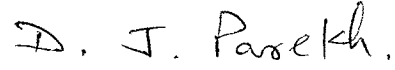
AMBIENT AIR QUALITY DATA

| | |
|-----------------------------------------|---------------------------------------------------------------|
| (A) <u>8 hourly observation</u> : | |
| 1. Duration of sampling | 09 : 45 AM to 05 : 45 PM |
| 2. Weight of PM ₁₀ collected | 0.655 mg. |
| 3. Volume of Air sampled | 7.995 Cubic meter |
| 4. PM ₁₀ concentration | 81.92 µg / m ³ GPCB Limit 100 µg/m ³ |

ANALYSED BY,


(Analyst)

FOR AKSHAR CONSULTANTS,


(Authorised Signatory)

STAKANA



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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/14-15/003

Date : 21-04-2014

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

| Sr. No. | Characteristics | Unit | Results |
|---------|---------------------------------------------|--------|---------|
| 01 | pH (10 % Solution) | ---- | 8.01 |
| 02 | Chemical Oxygen Demand (COD) | gms/kg | 75.30 |
| 03 | Bio-chemical Oxygen Demand (BOD) | gms/kg | 18.04 |
| 04 | Chlorides | gms/kg | 24.15 |
| 05 | Sulphate | gms/kg | 15.05 |
| 06 | Total Inorganic Solids at 550 Deg. C | gms/kg | 679.45 |
| 07 | Total Dissolved Solids | gms/kg | 70.30 |
| 08 | Total Hardness (as CaCO ₃) | gms/kg | 10.50 |
| 09 | Calcium Hardness (as CaCO ₃) | gms/kg | 7.00 |
| 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 | 3.10 |

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

ANALYSED BY,

(Analyst)

For AKSHAR CONSULTANTS,

(Authorised Signatory)

SLUDGE