



## Natco Pharma Limited

Regd. Off. : 'NATCO HOUSE', Road No. 2, Banjara Hills, Hyderabad-500 034.  
Telangana, INDIA. Tel : +91 40 23547532, Fax : +91 40 23548243  
CIN : L24230TG1981PLC003201, www.natcopharma.co.in



04<sup>th</sup> September, 2020

o/c

To  
The Environmental Engineer  
T.S.P.C.B., Regional Office – Hyderabad  
IV<sup>th</sup> Floor, Hyderabad Collectorate Complex,  
Nampally Station Road,  
**HYDERABAD – 500 001**

Sir,

**Sub: Submission of Environmental Statement in Form-V for the Year 2019 – 2020.**

We M/s. Natco Pharma Limited-Chemical Division are herewith submitting the Environmental Statement in Form-V for the year 2019 – 2020 for your kind perusal.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully

**For Natco Pharma Limited – Chemical Division**

**(Ch. Srinivasa Rao)**  
**General Manager – EHS**



**Copy to:**

Member Secretary, T.S.P.C.B., Paryavaran Bhavan, Sanathnagar, Hyderabad.



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**General Manager – EHS**

✓ **Copy to:**

Member Secretary, T.S.P.C.B., Paryavaran Bhavan, Sanathnagar, Hyderabad.



# ENVIRONMENTAL STATEMENT

(FORM – V)  
For the year 2019 – 2020



Submitted By



**M/s. NATCO PHARMA LIMITED  
(CHEMICAL DIVISION)**

**Mekaguda Village, Nandigama Mandal,  
Ranga Reddy District, Telangana State, India**

**PIN: 509 223**



**Environmental Statement 2019 – 2020**  
**Natco Pharma Limited-Chemical Division**

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**Environmental Statement 2019 – 2020**  
**Natco Pharma Limited-Chemical Division**

# **PART - A**



**Environmental Statement 2019 – 2020**  
**Natco Pharma Limited-Chemical Division**

**FORM – V**  
**(See rule 14)**

**Environmental Statement for the year ending 31<sup>st</sup> March, 2020**

**PART – A**

|     |                                                                                |                                                                                                                                                                                                                                                            |
|-----|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| i   | Name and address of the owner / occupier of the Industry operation or process. | Mr. P.S.R.K. Prasad<br>NATCO PHARMA LIMITED<br>"NATCO HOUSE",<br>Road No. 2, Banjara Hills,<br>Hyderabad – 500 034.                                                                                                                                        |
| ii  | Industry Category                                                              | Red Category – Hazardous                                                                                                                                                                                                                                   |
| iii | Production Capacity                                                            | At any given time a maximum of 9 products, 3 from Group–A, 3 from Group–B and 3 from Group–C shall be manufactured so that the total production capacity at any point of time shall not exceed 9.625 TPM<br><br>List of products with capacities enclosed. |
| iv  | Year of establishment                                                          | 1993                                                                                                                                                                                                                                                       |
| v   | Date of the last Environmental Statement submitted                             | September – 2019                                                                                                                                                                                                                                           |



**Environmental Statement 2019 – 2020**  
**Natco Pharma Limited-Chemical Division**

**List of Products with capacities (As per CFO Order: 17042210117, 12.01.2017 & Amendment Order: 17042210117-2178, 05.10.2018)**

| Group | S. No. | Name of the Product              | Capacity (kg/month) | Remarks                                                                                                                                                                                                   |
|-------|--------|----------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A     | 1      | Alendronate                      | 1600                | At any given time, a maximum of 9 products 3 from Group-A, 3 from Group-B and 3 from Group-C shall be manufactured so that the total production capacity at any point of time shall not exceed 9.625 TPM. |
|       | 2      | Citalopram Hydrobromide          | 2000                |                                                                                                                                                                                                           |
|       | 3      | Chloroquine Phosphate            | 1500                |                                                                                                                                                                                                           |
|       | 4      | Clozapine                        | 500                 |                                                                                                                                                                                                           |
|       | 5      | Deferasirox                      | 50                  |                                                                                                                                                                                                           |
|       | 6      | ErlotinibHCl                     | 170                 |                                                                                                                                                                                                           |
|       | 7      | Escitalopram Oxalate             | 75                  |                                                                                                                                                                                                           |
|       | 8      | Geftinib                         | 300                 |                                                                                                                                                                                                           |
|       | 9      | Glatiramer Acetate               | 70                  |                                                                                                                                                                                                           |
|       | 10     | Ibandronate Sodium               | 150                 |                                                                                                                                                                                                           |
|       | 11     | Imatinib Mesylate                | 700                 |                                                                                                                                                                                                           |
|       | 12     | Lapatinib Ditosylate Monohydrate | 80                  |                                                                                                                                                                                                           |
|       | 13     | Macitentan                       | 150                 |                                                                                                                                                                                                           |
|       | 14     | OndansetronHCl                   | 400                 |                                                                                                                                                                                                           |
|       | 15     | Sertraline HCl                   | 1700                |                                                                                                                                                                                                           |
|       | 16     | Sofosbuvir                       | 500                 |                                                                                                                                                                                                           |
| B     | 17     | ACDMQ                            | 400                 |                                                                                                                                                                                                           |
|       | 18     | Armodafinil                      | 30                  |                                                                                                                                                                                                           |
|       | 19     | Benzyloxy aniline HCl            | 1000                |                                                                                                                                                                                                           |
|       | 20     | Bosentan Monohydrate             | 100                 |                                                                                                                                                                                                           |
|       | 21     | Dimethyl Fumarate                | 1000                |                                                                                                                                                                                                           |
|       | 22     | Lansoprazole                     | 700                 |                                                                                                                                                                                                           |
|       | 23     | Lanthanum Carbonate Dihydrate    | 1000                |                                                                                                                                                                                                           |
|       | 24     | L-Biopterin                      | 30                  |                                                                                                                                                                                                           |
|       | 25     | Ledipasvir                       | 150                 |                                                                                                                                                                                                           |
|       | 26     | Minodronic Acid Hydrate          | 150                 |                                                                                                                                                                                                           |
|       | 27     | Omeprazole                       | 1650                |                                                                                                                                                                                                           |
|       | 28     | Pantoprazole Sodium              | 1500                |                                                                                                                                                                                                           |
|       | 29     | Pazopanib Hydrochloride          | 300                 |                                                                                                                                                                                                           |
|       | 30     | SorafenibTosylate                | 300                 |                                                                                                                                                                                                           |
|       | 31     | Sumatriptan Succinate            | 300                 |                                                                                                                                                                                                           |



**Environmental Statement 2019 – 2020**  
**Natco Pharma Limited-Chemical Division**

| Group | S. No. | Name of the Product                                                                                                 | Capacity (kg/month) | Remarks                                                                                                                                                                                                  |
|-------|--------|---------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C     | 32     | (1S, 2S, 3R, 5S)-Pinanedilol-L-Phenylalanine-L-leucine boronate Hydrochloride (Intermediate of Bortezomib)          | 19                  | At any given time a maximum of 9 products 3 from Group-A, 3 from Group-B and 3 from Group-C shall be manufactured so that the total production capacity at any point of time shall not exceed 9.625 TPM. |
|       | 33     | 5-fluoro2-oxindole (Intermediate of Sunitinib Malate)                                                               | 12                  |                                                                                                                                                                                                          |
|       | 34     | Ambrisentan                                                                                                         | 10                  |                                                                                                                                                                                                          |
|       | 35     | AmifostineTrihydrate                                                                                                | 15                  |                                                                                                                                                                                                          |
|       | 36     | Anastrozole                                                                                                         | 30                  |                                                                                                                                                                                                          |
|       | 37     | Apixaban                                                                                                            | 30                  |                                                                                                                                                                                                          |
|       | 38     | Argatroban                                                                                                          | 10                  |                                                                                                                                                                                                          |
|       | 39     | BCC / NRC-2694-A                                                                                                    | 10                  |                                                                                                                                                                                                          |
|       | 40     | Carfilzomib-Acid Intermediate                                                                                       | 15                  |                                                                                                                                                                                                          |
|       | 41     | Dasatinib                                                                                                           | 30                  |                                                                                                                                                                                                          |
|       | 42     | Entecavir Monohydrate                                                                                               | 5                   |                                                                                                                                                                                                          |
|       | 43     | Ethyl-4-[5-(Bis(2-Hydroxyethyl)amino)-1-Methyl-1H-benzo[d]imidazol-2-yl]Butanoate (Intermediate of BendamustineHCl) | 45                  |                                                                                                                                                                                                          |
|       | 44     | Fingolimod intermediate                                                                                             | 5                   |                                                                                                                                                                                                          |
|       | 45     | GranisetronHCl                                                                                                      | 5                   |                                                                                                                                                                                                          |
|       | 46     | Letrozole                                                                                                           | 30                  |                                                                                                                                                                                                          |
|       | 47     | Liraglutide Acetate                                                                                                 | 2.5                 |                                                                                                                                                                                                          |
|       | 48     | N-(2-(diethylamino)ethyl)-5-formyl-2,4-dimethyl-1H-pyrrole-3-carboxamide (Intermediate of Sunitinib Malate)         | 21                  |                                                                                                                                                                                                          |
|       | 49     | Nilotinib Hydrochloride Hydrate                                                                                     | 10                  |                                                                                                                                                                                                          |
|       | 50     | NRC/AN/019                                                                                                          | 30                  |                                                                                                                                                                                                          |
|       | 51     | Plerixafor                                                                                                          | 1                   |                                                                                                                                                                                                          |
|       | 52     | Pomalidomide                                                                                                        | 20                  |                                                                                                                                                                                                          |
|       | 53     | Ponatinib                                                                                                           | 70                  |                                                                                                                                                                                                          |
|       | 54     | Regorafenib                                                                                                         | 50                  |                                                                                                                                                                                                          |
|       | 55     | Rizatriptan Benzoate                                                                                                | 30                  |                                                                                                                                                                                                          |
|       | 56     | SalmeterolXinafoate                                                                                                 | 30                  |                                                                                                                                                                                                          |
|       | 57     | Sapropterin.2HCl                                                                                                    | 50                  |                                                                                                                                                                                                          |
|       | 58     | Teriflunomide                                                                                                       | 30                  |                                                                                                                                                                                                          |
|       | 59     | Tigecycline                                                                                                         | 30                  |                                                                                                                                                                                                          |
|       | 60     | TRB / D-5                                                                                                           | 30                  |                                                                                                                                                                                                          |
|       | 61     | TRB / TMR                                                                                                           | 30                  |                                                                                                                                                                                                          |
|       | 62     | TRB-5 / I T-VIII                                                                                                    | 25                  |                                                                                                                                                                                                          |
|       | 63     | Tri Hexyphenidyl HCl                                                                                                | 30                  |                                                                                                                                                                                                          |
|       | 64     | Zoledronic acid                                                                                                     | 5                   |                                                                                                                                                                                                          |
|       | 65     | Zolmitriptan                                                                                                        | 30                  |                                                                                                                                                                                                          |





# **PART - B**



**Environmental Statement 2019 – 2020**  
**Natco Pharma Limited-Chemical Division**

**PART – B**

**Water and Raw Material Consumption**

**i. Water Consumption (m<sup>3</sup>/day):**

| S. No. | Description            | Average water consumption for the year 2019-2020 |               |              | Consented Quantity |
|--------|------------------------|--------------------------------------------------|---------------|--------------|--------------------|
|        |                        | Fresh Water                                      | Recycle Water | Total        |                    |
| 01     | Process & Washings     | 49.8                                             | --            | 49.8         | 225.67             |
| 02     | Cooling Towers make-up | 15.6                                             | 54.7          | 70.3         |                    |
| 03     | Boiler Feed            | 21.6                                             | 57.5          | 79.1         |                    |
| 04     | Fire Hydrant make-up   | --                                               | 5.4           | 5.4          |                    |
| 05     | Domestic               | 14.4                                             | --            | 14.4         | 13.0               |
| 06     | Gardening              | 29.1                                             | --            | 29.1         | 30.0               |
|        | <b>Total</b>           | <b>130.5</b>                                     | <b>117.6</b>  | <b>248.1</b> | <b>268.67</b>      |



**Environmental Statement 2019 – 2020**  
**Natco Pharma Limited-Chemical Division**

| S. No. | Name of the Products manufactured for the year 2019 – 2020 | Process water consumption per unit of product output.                              |                                                                                    |
|--------|------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|        |                                                            | During the previous financial year 2018 – 2019                                     | During the current financial year 2019 – 2020                                      |
| 01     | Anastrozole                                                | 2.776 KL / kg of product.<br><br>Products are being manufactured on campaign basis | 2.776 KL / kg of product.<br><br>Products are being manufactured on campaign basis |
| 02     | Apixaban                                                   |                                                                                    |                                                                                    |
| 03     | Argatroban                                                 |                                                                                    |                                                                                    |
| 04     | Chloroquine Phosphate                                      |                                                                                    |                                                                                    |
| 05     | Citalopram Hydrobromide                                    |                                                                                    |                                                                                    |
| 06     | Erlotinib HCl                                              |                                                                                    |                                                                                    |
| 07     | Geftinib                                                   |                                                                                    |                                                                                    |
| 08     | Glatiramer Acetate                                         |                                                                                    |                                                                                    |
| 09     | Granisetron Hydrochloride                                  |                                                                                    |                                                                                    |
| 10     | Ibandronate Sodium                                         |                                                                                    |                                                                                    |
| 11     | Imatinib Mesylate                                          |                                                                                    |                                                                                    |
| 12     | Lansoprazole                                               |                                                                                    |                                                                                    |
| 13     | Lanthanum Carbonate Dihydrate                              |                                                                                    |                                                                                    |
| 14     | Ledipasvir                                                 |                                                                                    |                                                                                    |
| 15     | Letrozole                                                  |                                                                                    |                                                                                    |
| 16     | Nilotinib Hydrochloride Monohydrate                        |                                                                                    |                                                                                    |
| 17     | Ondansetron Hydrochloride                                  |                                                                                    |                                                                                    |
| 18     | Regorafenib                                                |                                                                                    |                                                                                    |
| 19     | Rizatriptan benzoate                                       |                                                                                    |                                                                                    |
| 20     | Salmeterol Xinafoate                                       |                                                                                    |                                                                                    |
| 21     | Sertraline Hydrochloride                                   |                                                                                    |                                                                                    |
| 22     | Sumatriptan Succinate                                      |                                                                                    |                                                                                    |
| 23     | Teriflunamide                                              |                                                                                    |                                                                                    |
| 24     | Tri Hexyphenidyl HCl                                       |                                                                                    |                                                                                    |
| 25     | Zoledronic acid                                            |                                                                                    |                                                                                    |
| 26     | Zolmitriptan                                               |                                                                                    |                                                                                    |

**ii. Raw Material Consumption**

The industry has obtained consent for operation to manufacture 65 products in three groups A, B and C. Any given time a maximum of nine products will be manufactured groups A, B and C. The details of raw materials consumed for the production during the year 2019 - 2020 presented in **Annexure-1**.



# **PART - C**



**Environmental Statement 2019 – 2020**  
**Natco Pharma Limited-Chemical Division**

**PART – C**

**(a) Pollution Discharged to environment / per unit of out put**  
**(Parameters as specified in the Consent issued)**

| Pollutant                       | Average quantity of pollutants discharged mass / day (Recycled) | Concentrations of pollutants in discharges mass / volume (Recycled) | Percentage of variation from prescribed standards With reasons                                                                                           |
|---------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>a) Water</b>                 | <b>Zero Liquid Discharge system</b>                             |                                                                     |                                                                                                                                                          |
| pH                              | --                                                              | 7.50                                                                | The unit adopts Zero Liquid Discharge concept for wastewater treatment and Recycling. All the parameters are within the acceptable limits for recycling. |
| Total Dissolved Solids (TDS)    | 9.87 kgs                                                        | 117.5 mg/L                                                          |                                                                                                                                                          |
| Total Suspended Solids (TSS)    | 0.84 kgs                                                        | 10.0 mg/L                                                           |                                                                                                                                                          |
| Chemical Oxygen Demand (COD)    | 2.02 kgs                                                        | 24.0 mg/L                                                           |                                                                                                                                                          |
| Biochemical Oxygen Demand (BOD) | 0.17 kgs                                                        | 2.0 mg/L                                                            |                                                                                                                                                          |
| Chlorides                       | 3.31 kgs                                                        | 39.4 mg/L                                                           | Reports enclosed as Annexure-2                                                                                                                           |
| Sulphates                       | 0.08 kgs                                                        | 1.0 mg/L                                                            |                                                                                                                                                          |

| Pollutant                                                     | Average concentrations of pollutants in discharges mass / volume | Percentage of variation from prescribed standards With reasons                         |
|---------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>b) Air</b>                                                 |                                                                  |                                                                                        |
| <b>AAQ</b>                                                    |                                                                  |                                                                                        |
| Particulate Matter (PM-2.5) $\mu\text{g}/\text{m}^3$          | 24.00 $\mu\text{g}/\text{m}^3$                                   | All parameters are within the permissible Limits<br><br>Reports enclosed as Annexure-2 |
| Particulate Matter (PM-10) $\mu\text{g}/\text{m}^3$           | 62.53 $\mu\text{g}/\text{m}^3$                                   |                                                                                        |
| Sulphur Dioxide ( $\text{SO}_2$ ) $\mu\text{g}/\text{m}^3$    | 18.75 $\mu\text{g}/\text{m}^3$                                   |                                                                                        |
| Oxides of Nitrogen ( $\text{NO}_x$ ) $\mu\text{g}/\text{m}^3$ | 25.80 $\mu\text{g}/\text{m}^3$                                   |                                                                                        |





**Environmental Statement 2019 – 2020**  
**Natco Pharma Limited-Chemical Division**

| Pollutant                                                | Average concentrations of pollutants in discharges mass / volume                                                                                                                                                                                                                                                                                                        | Percentage of variation from prescribed standards With reasons       |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b><u>Incinerator Stack Emissions</u></b>                |                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |
| Particulate Matter (PM) mg/Nm <sup>3</sup>               | As a part of environmentally sound engineering practice, Incinerable organic wastes sendig to cement industry for coprocessing and AFRF fallowed by Co processing at GEPIL & TSDF Ramky. Hence onsite incinerator not using for disposal of incinerable haz. wastes (Incienrator is in working codition. Can be operational at any point of time as and when required). | --                                                                   |
| Sulphur Dioxide (SO <sub>2</sub> ) mg/Nm <sup>3</sup>    |                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |
| Oxides of Nitrogen (NO <sub>x</sub> ) mg/Nm <sup>3</sup> |                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |
| Carbon Monoxide (CO) mg/Nm <sup>3</sup>                  |                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |
| HCl mg/Nm <sup>3</sup>                                   |                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |
| Total Organic Compound (TOC) mg/Nm <sup>3</sup>          |                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |
| HF mg/Nm <sup>3</sup>                                    |                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |
| Carbon Dioxide (CO2) mg/Nm <sup>3</sup>                  |                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |
| <b><u>Boiler Stack Emissions</u></b>                     |                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |
| Particulate Matter (PM) mg/Nm <sup>3</sup>               | 48.2 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                 | Within the permissible limitss<br><br>Reports enclosed as Annexure-2 |
| Sulphur Dioxide (SO <sub>2</sub> ) mg/Nm <sup>3</sup>    | 97.4 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                 |                                                                      |
| Oxides of Nitrogen (NO <sub>x</sub> ) mg/Nm <sup>3</sup> | 113.6 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                |                                                                      |
| <b><u>D.G. Sets Stack Emissions</u></b>                  |                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |
| Particulate Matter (PM) mg/Nm <sup>3</sup>               | 54.2 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                 | Within the permissible limits<br><br>Reports enclosed as Annexure-2  |
| Sulphur Dioxide (SO <sub>2</sub> ) mg/Nm <sup>3</sup>    | 96.3 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                 |                                                                      |
| Oxides of Nitrogen (NO <sub>x</sub> ) mg/Nm <sup>3</sup> | 132.3 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                |                                                                      |
| Non Methane Hydrocarbons                                 | 45.2 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                 |                                                                      |
| Carbon Monoxide (CO) mg/Nm <sup>3</sup>                  | 95.9 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                 |                                                                      |



# **PART - D**



# Environmental Statement 2019 – 2020

## Natco Pharma Limited-Chemical Division

### PART – D Hazardous Wastes

[As specified under Hazardous and Other Wastes (Management, Handling and Transboundary Movement) Rules, 2016 and amendments thereof]

| Hazardous Waste                                                                         | Total Quantity (Tons)                                                   |                                                                                                           |                                                                                                                     |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
|                                                                                         | During the current Financial year 2018-2019                             | During the current Financial year 2019-2020                                                               | Consent quantity as per CFO Order No. 17042210117, dated 12.01.2017 & Amendment Order: 17042210117-2178, 05.10.2018 |
| <b>Generation</b>                                                                       |                                                                         |                                                                                                           |                                                                                                                     |
| <b>a) From Process</b>                                                                  |                                                                         |                                                                                                           |                                                                                                                     |
| Spent Carbon                                                                            | 27.764                                                                  | 16.221                                                                                                    | 31.50                                                                                                               |
| Distillation Bottom residues                                                            | 93.861                                                                  | 91.812                                                                                                    | 106.20                                                                                                              |
| Process Organic Residue (Organic)                                                       | 70.128                                                                  | 37.328                                                                                                    | 149.08                                                                                                              |
| Process Inorganic Residue (Inorganic)                                                   | 17.732                                                                  | 17.831                                                                                                    |                                                                                                                     |
| Spent Solvents (For Disposal to cement industries)                                      | 150.514                                                                 | 116.357                                                                                                   | 9720.00                                                                                                             |
| Spent Solvents (For SRP)                                                                | 7009.305                                                                | 5735.418                                                                                                  |                                                                                                                     |
| Mixed Spent Solvents (For disposal to cement industries)                                | 287.050                                                                 | 230.053                                                                                                   | 357.40                                                                                                              |
| Recovered spent solvents from SRP for Authorized Recyclers                              | 3579.250                                                                | 2925.373                                                                                                  | 4354.56                                                                                                             |
| Recovered spent solvents from SRP for Reuse in Process                                  | 2855.566                                                                | 2365.639                                                                                                  | --                                                                                                                  |
| Spent Catalyst (Raney Nickel)                                                           | Nil                                                                     | 2.230                                                                                                     | 5.342                                                                                                               |
| Spent Liquid Waste (Spent Aluminium Chloride / Hydrogen Bromide / Spent Sulphuric Acid) | 70.605<br>(Spent Sulphuric acid=43.245 & Spent Hydrogen Bromide=27.360) | 105.258<br>(Spent Aluminium Chloride=34.835, Spent Sulphuric acid=63.953 & Spent Hydrogen Bromide=26.470) | 112.240                                                                                                             |
| Detoxified Containers & Containers Liners                                               | 440 Nos.                                                                | 474 Nos.                                                                                                  | 492 Nos.                                                                                                            |
| Used Oil / Waste Lubricating Oil                                                        | 1.195 KL                                                                | 1.535 KL<br>(With moisture content)                                                                       | 1.20 KL                                                                                                             |
| <b>b) From Pollution Control Facilities</b>                                             |                                                                         |                                                                                                           |                                                                                                                     |
| ETP Sludge                                                                              | 562.500                                                                 | 306.100                                                                                                   | 600.00                                                                                                              |
| Forced Evaporation salts                                                                | 875.200                                                                 | 676.050                                                                                                   | 1094.50                                                                                                             |
| Incineration ash                                                                        | Nil                                                                     | Nil                                                                                                       | 6.00                                                                                                                |
| <b>c) Others</b>                                                                        |                                                                         |                                                                                                           |                                                                                                                     |
| E-Waste                                                                                 | 3.115                                                                   | 2.520                                                                                                     | --                                                                                                                  |



**Environmental Statement 2019 – 2020**  
**Natco Pharma Limited-Chemical Division**

| Hazardous Waste                                                                         | Total Quantity (Tons)                       |                                             |                                                                                                                     |
|-----------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
|                                                                                         | During the current Financial year 2018-2019 | During the current Financial year 2019-2020 | Consent quantity as per CFO Order No. 17042210117, dated 12.01.2017 & Amendment Order: 17042210117-2178, 05.10.2018 |
| Disposal                                                                                |                                             |                                             | --                                                                                                                  |
| <b>a) From Process</b>                                                                  |                                             |                                             |                                                                                                                     |
| Spent carbon (Cement Industry).                                                         | 29.600                                      | *19.415                                     |                                                                                                                     |
| Distillation Bottom residues (In-house Incineration)                                    | Nil                                         | Nil                                         |                                                                                                                     |
| Distillation Bottom residues (Cement Industry).                                         | 75.735                                      | 55.655                                      |                                                                                                                     |
| Distillation Bottom residues (HWMP Incineration).                                       | 24.075                                      | Nil                                         |                                                                                                                     |
| Process Residue (Organic Residue) to TSDF                                               | Nil                                         | Nil                                         |                                                                                                                     |
| Process Residue (Organic Residue) at In-house Incineration                              | Nil                                         | Nil                                         |                                                                                                                     |
| Process Residue (Organic Residue) to Cement Industry                                    | 55.765                                      | *60.365                                     |                                                                                                                     |
| Process Residue (Inorganic Residue) to TSDF                                             | 13.870                                      | *22.090                                     |                                                                                                                     |
| Spent Solvents (Taken for Recovery at SRP)                                              | 7009.305                                    | 5735.418                                    |                                                                                                                     |
| Spent Solvents (Disposed to Cement Industry)                                            | 132.415                                     | 131.510                                     |                                                                                                                     |
| Mixed Spent Solvents (In-house Incineration)                                            | Nil                                         | Nil                                         |                                                                                                                     |
| Mixed Spent Solvents (HWMP Incineration).                                               | Nil                                         | Nil                                         |                                                                                                                     |
|                                                                                         |                                             |                                             |                                                                                                                     |
| Mixed Spent Solvents (Cement Industry).                                                 | 268.505                                     | 273.615                                     |                                                                                                                     |
| Recovered spent solvents (Reused in process).                                           | 2855.566                                    | 2365.639                                    |                                                                                                                     |
| Recovered spent solvents (to Authorized recyclers).                                     | 3575.071                                    | 2914.905                                    |                                                                                                                     |
| Spent Catalyst (Raney Nickel)                                                           | Nil                                         | 2.230                                       |                                                                                                                     |
| Spent Liquid Waste (Spent Aluminium Chloride / Hydrogen Bromide / Spent Sulphuric Acid) |                                             |                                             |                                                                                                                     |
| 1) Spent Aluminium Chloride                                                             | Nil                                         | 34.835                                      |                                                                                                                     |
| 2) Hydrogen Bromide                                                                     | 25.995                                      | 27.885                                      |                                                                                                                     |
| 3) Spent Sulphuric Acid<br>(Spent Sulphuric acid converted to Gypsum)                   | 40.221                                      | 66.977                                      |                                                                                                                     |
| Detoxified Containers & Containers Liners                                               | 465 Nos.                                    | 426 Nos.                                    |                                                                                                                     |
| Used Oil / Waste Lubricating Oil                                                        | *2.225 KL                                   | 1.130 KL                                    |                                                                                                                     |
| <b>b) From Pollution Control Facilities</b>                                             |                                             |                                             |                                                                                                                     |
| ETP sludge (TSDF)                                                                       | 536.785                                     | 232.390                                     |                                                                                                                     |
| Forced Evaporation Salts (TSDF)                                                         | 882.675                                     | 675.875                                     |                                                                                                                     |
| Incineration Ash (TSDF)                                                                 | Nil                                         | Nil                                         |                                                                                                                     |
| <b>c) Others</b>                                                                        |                                             |                                             |                                                                                                                     |
| E-Waste                                                                                 | 2.280                                       | 1.630                                       |                                                                                                                     |

\* including closing stocks of previous year



# **PART - E**



**Environmental Statement 2019 – 2020**  
**Natco Pharma Limited-Chemical Division**

**PART – E**

**Solid Wastes**

| Source of solid waste                                 |                                                        | During the Previous Financial year 2018-2019 | During the current Financial year 2019-2020 | Consent quantity as per CFO Order No. 17042210117, dated 12.01.2017 |
|-------------------------------------------------------|--------------------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------------------------------------------------|
|                                                       |                                                        | Quantity (Tons)                              |                                             |                                                                     |
| <b>a) From process</b>                                |                                                        |                                              |                                             |                                                                     |
| Spent Carbon                                          |                                                        | 27.764                                       | 16.221                                      | 31.50                                                               |
| Process Residue (Organic Residue)                     |                                                        | 70.128                                       | 37.328                                      | 149.08                                                              |
| Process Residue (Inorganic Residue)                   |                                                        | 17.732                                       | 17.831                                      |                                                                     |
| <b>b) Form pollution control facility</b>             |                                                        |                                              |                                             |                                                                     |
| ETP sludge                                            |                                                        | 562.500                                      | 306.100                                     | 600.00                                                              |
| Forced Evaporator salts                               |                                                        | 875.200                                      | 676.050                                     | 1094.40                                                             |
| Incineration ash                                      |                                                        | Nil                                          | Nil                                         | 6.00                                                                |
| <b>c)</b>                                             | 1) Quantity recycled or re – utilized within the unit. | Nil                                          | Nil                                         | --                                                                  |
|                                                       | 2) Sold                                                | Nil                                          | Nil                                         |                                                                     |
| <b>3) Disposed</b>                                    |                                                        |                                              |                                             |                                                                     |
| Spent carbon (Cement Industry).                       |                                                        | 29.600                                       | *19.415                                     |                                                                     |
| Process Residue (Organic Residue) (Cement Industry)   |                                                        | 55.765                                       | 60.365                                      |                                                                     |
| Process Residue (Organic Residue) (TSDF-Incineration) |                                                        | Nil                                          | Nil                                         |                                                                     |
| Process Residue (Inorganic Residue) (TSDF)            |                                                        | 13.870                                       | *22.090                                     |                                                                     |
| ETP sludge                                            |                                                        | 536.785                                      | 232.390                                     |                                                                     |
| Forced Evaporator salts (TSDF)                        |                                                        | 882.675                                      | 675.875                                     |                                                                     |
| Incineration ash (TSDF)                               |                                                        | Nil                                          | Nil                                         |                                                                     |

\* including closing stocks of previous year



# **PART – F**





## Environmental Statement 2019 – 2020

### Natco Pharma Limited-Chemical Division

#### PART – F

Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

#### HAZARDOUS WASTE:

The total amount of hazardous waste generated during the year 2019 – 2020 is 1491.752 Tons. Hazardous wastes are segregated based on the characteristics of the wastes such as Spent Carbon, Distillation Bottom Residue, Process Residue (Mixed Inorganic Solid and Mixed Organic Solid), Spent Solvents, Mixed Spent Solvents, ETP Sludge and Forced Evaporation Salts.

Spent Carbon and Process Residue (Mixed Organic Solid) are collected in HDPE bags from process, stored in covered shed and then disposed to cement plants for co-processing.

Distillation Bottom Residue, Spent Solvents and Mixed Spent Solvents are collected in HDPE drums, stored in covered shed and then disposed to cement plants for co-processing/ GEPIL for pre-processing followed by co-processing in cement kilns.

Forced Evaporation Salts generated from ATFD is collected in HDPE Bags, stored in covered shed and disposed to TSDF for secured landfill.

Process Residue (Mixed Inorganic Solid) is collected in HDPE bags from production blocks, stored in covered shed and then disposed to TSDF. For secured landfill.

Dried ETP Sludge generated from effluent treatment system is collected in HDPE bags, stored in covered shed and then disposed to TSDF for secured landfill.

#### 2. SOLID WASTE (NON-HAZARDOUS):

Generation of Non-hazardous solid wastes is in the form of fly ash, packaging material, paper & paper board waste etc. Fly ash is being disposed off to brick manufacturers. Packing materials after detoxification sent to outside agencies for recycling. The Paper and paper board waste sent to ITC Limited through Nish Elgha Technologies Pvt.Ltd authorised agency for recycling.



# **PART - G**



## Environmental Statement 2019 – 2020

### Natco Pharma Limited-Chemical Division

#### PART – G

##### **Impact of pollution abatement measures taken on conservation of natural resources and on the cost of production:**

Installed 3.25 MW solar power plant for captive consumption, which in turn will reduce the grid power consumption. Hence the proportionate quantity of CO<sub>2</sub> emissions (generated during the generation of grid power from fossil fuels) is minimized. Solar power purchase agreement made with the renewal energy generators. Achieved 39.8% of plant power demand meeting from renewable energy sources (from onsite solar power plant & through solar power purchase agreements). Rainwater is harvested to the maximum possible extent. Wastewater is treated in ZLD plant and recycled to reduce the freshwater consumption. Spent sulphuric acid is segregated and converted into gypsum and sold as a raw material to cement industries. Spent catalysts are segregated and sent back to manufacturers for reprocessing. Commissioned the waste to energy plant to produce steam from wastes through Pyrolysis Gassification technology. Stabilization of the plant is in progress. ETP sludge after dewatering (by using sludge decanter) is passed through Sludge dryer to bring down the moisture content to less than 15% thereby reduces volume of sludge sent to landfills and the corresponding transportation related GHG emissions will be reduced. Enhanced the ETP – ZLD capacity and obtained the EC, CFE & CFO for the enhanced capacities (Expansion activity for enhancement of production capacity).



# **PART - H**



## Environmental Statement 2019 – 2020

### Natco Pharma Limited-Chemical Division

#### PART – H

##### **Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution.**

**“Eco Forest”** a new afforestation project launched by Natco – Mekaguda unit using “Miyawaki concept” invented and named after Japanese botanist Akira Miyawaki a unique technique to grow multi-layered dense forests with native species.

“Eco Forest is developed in an area of about 3000sq.mts area with 7600 plants of 45 varieties of native species within the premises and another 500sq.mts area with 1800plants with 45 varieties of native species along the south side boundary towards the village.

Under this concept, number of native species are planted in this area close to each other (at 60cm distance between plants). The plant growth is 10 times faster and the resulting plantation is 30 times denser than usual. This will lead to co-existence of plants and as a matter of fact each plant draws from the other vital nutrients and they grow to become strong and healthy and becomes maintenance-free after the first two years. A substantial decrease in noise and dust control and more Carbon-dioxide absorption as compared to conventional forest.

##### **Photographs of the Eco-Forest (12months old)**









# **PART - I**



# Environmental Statement 2019 – 2020

## Natco Pharma Limited-Chemical Division

### PART – I

**The proposed projects for improving the quality of the Environment:**

Proposed to install "MMIC based semi automation system" for close monitoring of ETP operations seamlessly.

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# **Annexure-1**

**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production****1 Anastrozole**

| S. No. | Raw Material Name                       | Quantity                     |                              |
|--------|-----------------------------------------|------------------------------|------------------------------|
|        |                                         | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | 5-Pentamethyl 1,3-benzenediacetonitrile | 1.820                        | 1.820                        |
| 2      | N-Bromo succinamide                     | 2.500                        | 2.500                        |
| 3      | Carbon                                  | 0.550                        | 0.550                        |
| 4      | Cyclohexane                             | 32.000                       | 32.000                       |
| 5      | Sodium sulphate                         | 0.850                        | 0.850                        |
| 6      | Triazole                                | 1.500                        | 1.500                        |
| 7      | Sodium Hydroxide                        | 1.000                        | 1.000                        |
| 8      | DMF                                     | 25.000                       | 25.000                       |
| 9      | IPA                                     | 5.000                        | 5.000                        |
| 10     | Ethyl Acetate                           | 20.000                       | 20.000                       |

**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production****2 Apixaban**

| S. No. | Raw Material Name                                       | Quantity                     |                              |
|--------|---------------------------------------------------------|------------------------------|------------------------------|
|        |                                                         | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | 4-Nitro aniline                                         | 1.125                        | 1.125                        |
| 2      | 5-Bromovaleryl Chloride                                 | 3.575                        | 3.575                        |
| 3      | Acetone                                                 | 35.000                       | 35.000                       |
| 4      | Activated Carbon                                        | 0.100                        | 0.100                        |
| 5      | Ammonia (20%) Solution                                  | 22.500                       | 22.500                       |
| 6      | DMF                                                     | 3.750                        | 3.750                        |
| 7      | Ethanol                                                 | 11.250                       | 11.250                       |
| 8      | Ethyl Acetate                                           | 22.500                       | 22.500                       |
| 9      | Ethyl-2-chloro-2-[(4-methoxy phenyl) hydrazono] acetate | 1.600                        | 1.600                        |
| 10     | Hydrochloric Acid (35%)                                 | 2.300                        | 2.300                        |
| 11     | Hydrogen                                                | 0.250                        | 0.250                        |
| 12     | Hyflow                                                  | 0.500                        | 0.500                        |
| 13     | Isobutyl Chloroformate                                  | 0.675                        | 0.675                        |
| 14     | Isopropyl alcohol                                       | 5.500                        | 5.500                        |
| 15     | Lithium Carbonate                                       | 0.275                        | 0.275                        |
| 16     | Lithium Chloride                                        | 0.150                        | 0.150                        |
| 17     | Methanol                                                | 63.000                       | 63.000                       |
| 18     | Methylene Chloride                                      | 42.500                       | 42.500                       |
| 19     | n-Heptane                                               | 8.750                        | 8.750                        |
| 20     | Palladium Carbon                                        | 0.100                        | 0.100                        |
| 21     | Phosphorous Pentachloride                               | 5.000                        | 5.000                        |
| 22     | Potassium Carbonate                                     | 1.655                        | 1.655                        |
| 23     | Potassium Hydroxide                                     | 2.078                        | 2.078                        |
| 24     | Sodium Chloride (10%)                                   | 0.400                        | 0.400                        |
| 25     | Sodium Hydroxide                                        | 0.750                        | 0.750                        |
| 26     | Sodium Metabisulphite                                   | 0.050                        | 0.050                        |
| 27     | TBAB                                                    | 0.050                        | 0.050                        |
| 28     | Tetrahydrofurn                                          | 56.250                       | 56.250                       |
| 29     | Toluene                                                 | 28.750                       | 28.750                       |
| 30     | Triethylamine                                           | 1.750                        | 1.750                        |

**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production****3 Argatroban**

| S. No. | Raw Material Name                                                                                      | Quantity                     |                              |
|--------|--------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|
|        |                                                                                                        | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | (2R, 4R)-1-[N-nitro-N-(3-methyl-8-quinolinesulphonyl)-L-arginyl]-4-methyl-2-piperidine carboxylic acid | --                           | 1.540                        |
| 2      | Acetic acid                                                                                            | --                           | 3.080                        |
| 3      | 10% Palladium Carbon                                                                                   | --                           | 0.460                        |
| 4      | Ammonium Hydroxide                                                                                     | --                           | 1.230                        |
| 5      | Methanol                                                                                               | --                           | 20.770                       |
| 6      | Hydrogen Gas                                                                                           | --                           | 0.660                        |

**4 Chloroquine Phosphate**

| S. No. | Raw Material Name               | Quantity                     |                              |
|--------|---------------------------------|------------------------------|------------------------------|
|        |                                 | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | 4,7-Dichloro quinoline          | 0.500                        | 0.500                        |
| 2      | 2-Amino 5-diethyl amino pentane | 0.640                        | 0.640                        |
| 3      | Phosphoric acid                 | 0.400                        | 0.400                        |
| 4      | Toluene                         | 9.600                        | 9.600                        |
| 5      | Methanol                        | 5.930                        | 5.930                        |
| 6      | Isopropyl alcohol               | 5.000                        | 5.000                        |
| 7      | Sodium Hydroxide                | 0.170                        | 0.170                        |
| 8      | Phenol                          | 0.327                        | 0.327                        |
| 8      | DM water                        | 16.00                        | 16.00                        |

**5 Citalopram Hydrobromide**

| S. No. | Raw Material Name                                                                                              | Quantity                     |                              |
|--------|----------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|
|        |                                                                                                                | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | 4-[4-Dimethylamino-1-(4-fluorophenyl)-1-hydroxy-1-butyl]-3-hydroxy methylbenzonitrile(Cyano diol hydrobromide) | 0.74                         | 0.74                         |
| 2      | Sulphuric acid -CP                                                                                             | 0.35                         | 0.35                         |
| 3      | Ammonia liquid                                                                                                 | 0.58                         | 0.58                         |
| 4      | Hydrobromic acid-CP                                                                                            | 0.60                         | 0.60                         |
| 5      | Toluene                                                                                                        | 7.46                         | 7.46                         |
| 6      | Isopropyl alcohol                                                                                              | 7.46                         | 7.46                         |
| 7      | Activated Carbon                                                                                               | 0.16                         | 0.16                         |
| 8      | Purified water                                                                                                 | 12.21                        | 12.21                        |

**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production****6 Erlotinib HCl**

| S. No. | Raw Material Name                   | Quantity                     |                              |
|--------|-------------------------------------|------------------------------|------------------------------|
|        |                                     | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | 2-Idooethylin ethyl ether           | 1.26                         | 1.26                         |
| 2      | 3-Ethynylaniline                    | 0.44                         | 0.44                         |
| 3      | 6,7- Diacetoxy-quinazolin-4(3H)-one | 0.96                         | 0.96                         |
| 4      | Ammonia Liquor                      | 0.39                         | 0.39                         |
| 5      | Carbon Activated                    | 0.41                         | 0.41                         |
| 6      | Chloroform                          | 17.65                        | 17.65                        |
| 7      | DMF                                 | 17.68                        | 17.68                        |
| 8      | IPA-HCl                             | 0.94                         | 0.94                         |
| 9      | Methanol                            | 3.29                         | 3.29                         |
| 10     | Methyl Ethyl Ketone                 | 17.65                        | 17.65                        |
| 11     | Methylene Chloride                  | 23.53                        | 23.53                        |
| 12     | Oxalyl Chloride                     | 0.47                         | 0.47                         |
| 13     | Potassium carbonate                 | 0.59                         | 0.59                         |
| 14     | Sodium bicarbonate                  | 0.31                         | 0.31                         |
| 15     | Sodium sulphate                     | 0.16                         | 0.16                         |

**7 Gefitinib**

| S. No. | Raw Material Name                           | Quantity                     |                              |
|--------|---------------------------------------------|------------------------------|------------------------------|
|        |                                             | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | Quinazoline Derivative                      | 3.530                        | 3.530                        |
| 2      | Sulphuric acid                              | 1.670                        | 1.670                        |
| 3      | LC-900                                      | 2.000                        | 2.000                        |
| 4      | Acetic anhydride                            | 1.260                        | 1.270                        |
| 5      | Thionyl chloride                            | 1.070                        | 1.070                        |
| 6      | LC-900 (C <sub>6</sub> H <sub>5</sub> NFCl) | 1.300                        | 1.300                        |
| 7      | DMF                                         | 53.630                       | 53.630                       |
| 8      | Isopropyl alcohol                           | 40.000                       | 40.000                       |
| 9      | Ammonium Hydroxide (27%)                    | 1.650                        | 1.650                        |
| 10     | Methanol                                    | 50.000                       | 40.000                       |
| 11     | LC-1400                                     | 0.770                        | 0.770                        |
| 12     | Potassium Carbonate                         | 0.320                        | 0.320                        |
| 13     | Toluene                                     | 12.050                       | 12.050                       |
| 14     | Activated Carbon                            | 0.300                        | 0.300                        |

**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production****8 Glatiramer Acetate**

| S. No. | Raw Material Name       | Quantity                     |                              |
|--------|-------------------------|------------------------------|------------------------------|
|        |                         | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | 1,4-Dioxane             | 72.060                       | 72.060                       |
| 2      | Acetic acid             | 1.670                        | 1.670                        |
| 3      | Acetone                 | 6.120                        | 6.120                        |
| 4      | Benzyl alcohol          | 0.700                        | 0.700                        |
| 5      | C.S. Flakes             | 2.380                        | 2.380                        |
| 6      | Isopropyl ether         | 16.740                       | 16.740                       |
| 7      | Diethyl amine           | 5.000                        | 5.000                        |
| 8      | Ethyl acetate           | 167.310                      | 167.310                      |
| 9      | HBr in Acetic acid      | 39.980                       | 39.980                       |
| 10     | HCl                     | 0.520                        | 0.520                        |
| 11     | Hexane                  | 229.780                      | 229.780                      |
| 12     | Hyflow                  | 0.890                        | 0.890                        |
| 13     | L-Alanine (powdered)    | 1.300                        | 1.300                        |
| 14     | L-Glutamic acid         | 0.950                        | 0.950                        |
| 15     | L-Lysine hydrochloride  | 4.100                        | 4.100                        |
| 16     | L-Tyrosine              | 0.490                        | 0.490                        |
| 17     | Methyl trifluoroacetate | 3.710                        | 3.710                        |
| 18     | Phenol                  | 3.500                        | 3.500                        |
| 19     | Piperdine               | 8.670                        | 8.670                        |
| 20     | Sodium carbonate        | 3.500                        | 3.500                        |
| 21     | Sulphuric acid          | 2.500                        | 2.500                        |
| 22     | Tetrahydrofuran         | 29.340                       | 29.340                       |
| 23     | Triethyl amine          | 2.520                        | 2.520                        |
| 24     | Triphosgene             | 6.130                        | 6.130                        |

**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production****9 Granisetron HCl**

| S. No. | Raw Material Name                   | Quantity                     |                              |
|--------|-------------------------------------|------------------------------|------------------------------|
|        |                                     | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | 1-Methyl Indazole-3-Carboxylic acid | 0.750                        | 0.750                        |
| 2      | Granatamine                         | 0.750                        | 0.750                        |
| 3      | Thionyl chloride                    | 1.580                        | 1.580                        |
| 4      | Triethyl amine                      | 0.540                        | 0.540                        |
| 5      | Sodium bicarbonate                  | 0.600                        | 0.600                        |
| 6      | Sodium Sulphate                     | 0.500                        | 0.500                        |
| 7      | IPA-HCl                             | 1.250                        | 1.250                        |
| 8      | Dimethyl formamide                  | 0.080                        | 0.080                        |
| 9      | Hyflow Supergel                     | 0.200                        | 0.200                        |
| 10     | Activated Carbon                    | 0.250                        | 0.250                        |
| 11     | Chloroform                          | 11.000                       | 11.000                       |
| 12     | Methylene Chloride                  | 25.000                       | 25.000                       |
| 13     | IPA                                 | 48.000                       | 48.000                       |

**10 Ibandronate Sodium**

| S. No. | Raw Material Name             | Quantity                     |                              |
|--------|-------------------------------|------------------------------|------------------------------|
|        |                               | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | 3-(Methylamino) propionitrile | 0.84                         | 0.84                         |
| 2      | Acetone                       | 19.00                        | 19.00                        |
| 3      | Carbon Activated              | 0.04                         | 0.04                         |
| 4      | Caustic Soda Flakes           | 0.50                         | 0.50                         |
| 5      | Dimethyl Formamide            | 3.50                         | 3.50                         |
| 6      | HCl - Tech                    | 1.15                         | 1.15                         |
| 7      | Hyflow                        | 0.08                         | 0.08                         |
| 8      | Methanol                      | 3.80                         | 3.80                         |
| 9      | 5-bromo pentane               | 1.52                         | 1.52                         |
| 10     | Phosphorous Acid              | 0.35                         | 0.35                         |
| 11     | Phosphorous Trichloride       | 0.57                         | 0.57                         |
| 12     | Potassium Carbonate           | 1.26                         | 1.26                         |
| 13     | Toluene                       | 9.8                          | 9.8                          |



**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production****11 Imatinib Mesylate**

| S. No. | Raw Material Name                                  | Quantity                     |                              |
|--------|----------------------------------------------------|------------------------------|------------------------------|
|        |                                                    | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | O - Toluidine                                      | 2.06                         | 2.06                         |
| 2      | Nitric acid                                        | 1.39                         | 1.39                         |
| 3      | Sulphuric acid                                     | 2.64                         | 2.64                         |
| 4      | Ammonia solution (20%)                             | 12.50                        | 12.50                        |
| 5      | IPA                                                | 10.00                        | 10.00                        |
| 6      | Cyanamide                                          | 0.10                         | 0.10                         |
| 7      | n-Butanol                                          | 28.00                        | 28.00                        |
| 8      | Methanol                                           | 10.00                        | 10.00                        |
| 9      | IPE                                                | 14.00                        | 14.00                        |
| 10     | 2 - Dimethylamino-1-(pyridyl) 2-propanone          | 0.93                         | 0.93                         |
| 11     | Sodium hydroxide                                   | 33.86                        | 33.86                        |
| 12     | 2-propanol                                         | 20.00                        | 20.00                        |
| 13     | Stannous chloride                                  | 8.00                         | 8.00                         |
| 14     | Conc.HCl                                           | 4.44                         | 4.44                         |
| 15     | Chloroform                                         | 30.00                        | 30.00                        |
| 16     | 4-(4-methyl piperazine monomethyl) benzoic acid di | 0.91                         | 0.91                         |
| 17     | Thionyl Chloride                                   | 0.35                         | 0.35                         |
| 18     | Ethyl Acetate                                      | 5.00                         | 5.00                         |
| 19     | Hydrogen Gas                                       | 0.02                         | 0.02                         |
| 20     | DMF                                                | 4.00                         | 4.00                         |
| 21     | Activated Carbon                                   | 0.53                         | 0.53                         |
| 22     | Methane sulphonic acid                             | 0.23                         | 0.23                         |
| 23     | Hyflow                                             | 0.12                         | 0.12                         |
| 24     | Aluminium chloride                                 | 4.80                         | 4.80                         |

**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production****12      Lansoprazole**

| S. No. | Raw Material Name                      | Quantity                     |                              |
|--------|----------------------------------------|------------------------------|------------------------------|
|        |                                        | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | 2-Mercapto benzimidazole               | 0.406                        | 0.406                        |
| 2      | 2-Hydroxy methyl-3-methyl pyridine HCl | 0.698                        | 0.698                        |
| 3      | Thionyl chloride                       | 0.323                        | 0.323                        |
| 4      | Methylene chloride                     | 1.000                        | 1.000                        |
| 5      | Toluene                                | 2.000                        | 2.000                        |
| 6      | Sodium hydroxide                       | 0.257                        | 0.257                        |
| 7      | Isopropyl alcohol                      | 2.200                        | 2.200                        |
| 8      | Hydrogen Peroxide (33%)                | 0.280                        | 0.280                        |
| 9      | Catalyst                               | 0.002                        | 0.002                        |
| 10     | Chloroform                             | 2.400                        | 2.400                        |
| 11     | Acetone                                | 1.600                        | 1.600                        |

**13      Lanthanum Carbonate Dihydrate**

| S. No. | Raw Material Name                    | Quantity                     |                              |
|--------|--------------------------------------|------------------------------|------------------------------|
|        |                                      | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | Ammonium bicarbonate                 | 1.230                        | 1.230                        |
| 2      | Lanthanum Chloride 7H <sub>2</sub> O | 1.600                        | 1.600                        |
| 3      | Toluene                              | 6.320                        | 6.320                        |

**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production****14 Ledipasvir**

| S. No. | Raw Material Name                                                                      | Quantity                     |                              |
|--------|----------------------------------------------------------------------------------------|------------------------------|------------------------------|
|        |                                                                                        | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | Boc-L-hydroxy proline                                                                  | 0.467                        | 0.467                        |
| 2      | 1-(7--Bromo-9, 9-difluoro-9H-fluorene-2-yl)-2-chloroethanone. (INT-D)                  | 0.667                        | 0.667                        |
| 3      | 1,1-Bis (diphenylphosphino)ferrocene-palladium (II) dichloride dichloromethane complex | 0.086                        | 0.086                        |
| 4      | 1,4-Dioxane                                                                            | 12.667                       | 12.667                       |
| 5      | 10% palladium on carbon                                                                | 0.333                        | 0.333                        |
| 6      | 1-Ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride                            | 0.856                        | 0.856                        |
| 7      | 2-Merthyl THF                                                                          | 16.267                       | 16.267                       |
| 8      | 2-Methoxyethanol                                                                       | 0.533                        | 0.533                        |
| 9      | 4-Bromo-1,2-benzenediamine                                                             | 0.413                        | 0.413                        |
| 10     | Acetic acid                                                                            | 0.298                        | 0.298                        |
| 11     | Acetone                                                                                | 22.667                       | 22.667                       |
| 12     | Acetonitrile                                                                           | 18.000                       | 18.000                       |
| 13     | Ammonium acetate                                                                       | 0.283                        | 0.283                        |
| 14     | Benzyltriethylammoniumchloride                                                         | 0.080                        | 0.080                        |
| 15     | Bis (pinacolato)diboron                                                                | 0.521                        | 0.521                        |
| 16     | Borontrifluoride etherate                                                              | 1.933                        | 1.933                        |
| 17     | Bromoform                                                                              | 0.519                        | 0.519                        |
| 18     | Conc. HCl                                                                              | 0.333                        | 0.333                        |
| 19     | Cyclohexane                                                                            | 4.667                        | 4.667                        |
| 20     | Cyclopentadiene                                                                        | 0.300                        | 0.300                        |
| 21     | DiBoc                                                                                  | 0.559                        | 0.559                        |
| 22     | Dichlorobis(di-tert-butylphoshine)palladium (II)                                       | 0.480                        | 0.480                        |
| 23     | Diisopropyl ether                                                                      | 2.000                        | 2.000                        |
| 24     | Dimethyl acetamide                                                                     | 2.667                        | 2.667                        |
| 25     | Dimethyl formamide                                                                     | 10.000                       | 10.000                       |
| 26     | DMAC                                                                                   | 10.667                       | 10.667                       |
| 27     | Ethyl acetate                                                                          | 33.333                       | 33.333                       |
| 28     | Ethylglyoxalate 50% in toluene                                                         | 0.505                        | 0.505                        |
| 29     | Hexane                                                                                 | 33.333                       | 33.333                       |
| 30     | Hydrochloric acid                                                                      | 3.933                        | 3.933                        |
| 31     | Hydrogen                                                                               | 0.010                        | 0.010                        |
| 32     | Hydroxy benzotriazole                                                                  | 0.569                        | 0.569                        |

**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production**

| S. No. | Raw Material Name                   | Quantity                     |                              |
|--------|-------------------------------------|------------------------------|------------------------------|
|        |                                     | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 33     | IPA                                 | 9.333                        | 9.333                        |
| 34     | Isopropyl acetate                   | 10.000                       | 10.000                       |
| 35     | Isopropyl ether                     | 12.667                       | 12.667                       |
| 36     | Lithium hydroxide                   | 0.067                        | 0.067                        |
| 37     | Methanol                            | 5.000                        | 5.000                        |
| 38     | Methyl tert-butyl ether             | 11.333                       | 11.333                       |
| 39     | Methyl Triphenylphosphonium bromide | 0.747                        | 0.747                        |
| 40     | Methylene chloride                  | 47.333                       | 47.333                       |
| 41     | MTBE                                | 6.000                        | 6.000                        |
| 42     | N-Acetyl-L-cysteine                 | 0.293                        | 0.293                        |
| 43     | n-Heptane                           | 33.333                       | 33.333                       |
| 44     | N-Methoxycarbonyl-L-valine          | 0.395                        | 0.395                        |
| 45     | N-Methylmorpholine                  | 0.908                        | 0.908                        |
| 46     | Oxalic acid                         | 0.177                        | 0.177                        |
| 47     | Potassium acetate                   | 0.201                        | 0.201                        |
| 48     | Potassium hydroxide                 | 0.344                        | 0.344                        |
| 49     | Potassium-t-Butoxide in THF         | 2.883                        | 2.883                        |
| 50     | Potassium-tert-Butoxide             | 0.235                        | 0.235                        |
| 51     | R-(+)-PEA                           | 0.533                        | 0.533                        |
| 52     | Silica gel                          | 3.467                        | 3.467                        |
| 53     | Sodium bicarbonate                  | 0.189                        | 0.189                        |
| 54     | Sodium carbonate                    | 1.545                        | 1.545                        |
| 55     | Sodium chloride                     | 0.590                        | 0.590                        |
| 56     | Sodium hydroxide                    | 0.482                        | 0.482                        |
| 57     | Sodium sulphate                     | 0.794                        | 0.794                        |
| 58     | Tempo                               | 0.027                        | 0.027                        |
| 59     | Tetrahydrofuran                     | 12.000                       | 12.000                       |
| 60     | Toluene                             | 22.000                       | 22.000                       |
| 61     | Trichloro isocyanuric acid          | 0.536                        | 0.536                        |
| 62     | Trifluoroacetic acid                | 1.037                        | 1.037                        |
| 63     | Tris potassium phosphate            | 0.419                        | 0.419                        |

**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production****15 Letrozole**

| S. No. | Raw Material Name                        | Quantity                     |                              |
|--------|------------------------------------------|------------------------------|------------------------------|
|        |                                          | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | 4 - fluorobenzonitrile                   | 1.470                        | 1.470                        |
| 2      | 4-[1,2,4-triazolyl) methyl] benzonitrile | 2.000                        | 2.000                        |
| 3      | Ammonium chloride                        | 5.000                        | 3.290                        |
| 4      | Carbon                                   | 1.300                        | 1.300                        |
| 5      | Dimethyl formamide (DMF)                 | 50.000                       | 50.000                       |
| 6      | Isopropyl ether (IPE)                    | 30.000                       | 30.000                       |
| 7      | Methylene chloride                       | 35.000                       | 35.000                       |
| 8      | Potassium ter-butoxide                   | 2.600                        | 2.600                        |
| 9      | Sodium dithionate                        | 0.200                        | 0.200                        |

**16 Nilotinib Hydrochloride Monohydrate**

| S. No. | Raw Material Name                                     | Quantity                     |                              |
|--------|-------------------------------------------------------|------------------------------|------------------------------|
|        |                                                       | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | 4-Methyl-3-Nitrobenzoic acid                          | --                           | 1.000                        |
| 2      | 3-(4-Methylimidazol-1-yl)-5-(trifluoromethyl) aniline | --                           | 0.930                        |
| 3      | Thionyl Chloride                                      | --                           | 1.320                        |
| 4      | Dimethyl Formamide                                    | --                           | 0.010                        |
| 5      | Toluene                                               | --                           | 28.750                       |
| 6      | Methanol                                              | --                           | 41.380                       |
| 7      | Raney Nickel                                          | --                           | 0.580                        |
| 8      | n-Butanol                                             | --                           | 7.240                        |
| 9      | 50% Cyanamide solution                                | --                           | 0.550                        |
| 10     | Conc. Hydrochloric acid                               | --                           | 1.180                        |
| 11     | Ethylacetate                                          | --                           | 12.000                       |
| 12     | Activated Carbon                                      | --                           | 0.250                        |
| 13     | Sodium Hydroxide                                      | --                           | 0.230                        |
| 14     | (E)-3-(Dimethyl amino)-1-(3-pyridyl)prop-2-en-1-one   | --                           | 0.630                        |
| 15     | Anisol                                                | --                           | 9.960                        |
| 16     | Methyl Isobutyl Ketone                                | --                           | 9.630                        |

**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production****17 Ondansetron HCl**

| S. No. | Raw Material Name   | Quantity                     |                              |
|--------|---------------------|------------------------------|------------------------------|
|        |                     | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | 2-Methyl Imidazole  | 0.420                        | 0.420                        |
| 2      | Carbon Activated    | 0.720                        | 0.720                        |
| 3      | Chloroform          | 20.000                       | 20.000                       |
| 4      | HCl-CP              | 0.640                        | 0.640                        |
| 5      | IPA                 | 14.000                       | 14.000                       |
| 6      | Methanol            | 46.000                       | 46.000                       |
| 7      | Mannich Salt        | 1.500                        | 1.500                        |
| 8      | Potassium Carbonate | 0.850                        | 0.850                        |

**18 Regorafenib**

| S. No. | Raw Material Name                                | Quantity                     |                              |
|--------|--------------------------------------------------|------------------------------|------------------------------|
|        |                                                  | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | 1-Fluoro-4-nitrobenzene                          | 0.400                        | 0.400                        |
| 2      | Oxalic acid dihydrate                            | 0.510                        | 0.510                        |
| 3      | Aluminum powder                                  | 0.102                        | 0.102                        |
| 4      | Activated carbon                                 | 0.350                        | 0.350                        |
| 5      | Ethyl acetate                                    | 19.000                       | 19.000                       |
| 6      | Sodium sulphite                                  | 0.600                        | 0.600                        |
| 7      | Aq. Ammonia (20%)                                | 2.000                        | 2.000                        |
| 8      | Hexane                                           | 2.000                        | 2.000                        |
| 9      | 4-chloro N-methyl pyridine-2-carboxamide/SOR-I   | 0.430                        | 0.430                        |
| 10     | Potassium ter-butoxide/PTB                       | 0.290                        | 0.290                        |
| 11     | Dimethylacetamide                                | 1.000                        | 1.000                        |
| 12     | 1-Chloro-4-isocyanato-2-(trifluoromethyl)benzene | 0.550                        | 0.550                        |
| 13     | Acetone                                          | 28.000                       | 28.000                       |

**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production****19 Rizatriptan Benzoate**

| S. No. | Raw Material Name                      | Quantity                     |                              |
|--------|----------------------------------------|------------------------------|------------------------------|
|        |                                        | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | 4-amino-1,2,4, triazole                | 0.735                        | 0.735                        |
| 2      | Acetone                                | 32.400                       | 32.400                       |
| 3      | Ammonia Liquid                         | 7.200                        | 7.200                        |
| 4      | Benzoic acid                           | 5.460                        | 5.460                        |
| 5      | Carbon                                 | 2.030                        | 2.030                        |
| 6      | Ethyl acetate                          | 260.200                      | 260.200                      |
| 7      | Hydrochloric acid                      | 1.347                        | 1.347                        |
| 8      | Hydrogen Gas                           | 0.240                        | 0.240                        |
| 9      | Methanol                               | 88.700                       | 88.700                       |
| 10     | n-Butanol                              | 11.500                       | 11.500                       |
| 11     | Nitrobenzyl Chloride                   | 1.500                        | 1.500                        |
| 12     | NN Dimethyl-4,4-diethoxy-1-butaneamine | 0.870                        | 0.870                        |
| 13     | Raney nickel                           | 1.750                        | 1.750                        |
| 14     | Sodium nitrate                         | 3.336                        | 3.336                        |
| 15     | Sodium sulfate                         | 4.610                        | 4.610                        |
| 16     | Sulfuric acid                          | 17.000                       | 17.000                       |
| 17     | Tetra butyl ammonium bromide           | 0.282                        | 0.282                        |
| 18     | Vacuum salt                            | 6.000                        | 6.000                        |

**20 Salmeterol Xinafoate**

| S. No. | Raw Material Name                             | Quantity                     |                              |
|--------|-----------------------------------------------|------------------------------|------------------------------|
|        |                                               | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | 1-[6-(4-phenylbutoxy)-1-hexyl] bromide        | 4.250                        | 4.250                        |
| 2      | Methylamino-4-hydroxy-1,3-benzene di methanol | 4.990                        | 4.990                        |
| 3      | Dimethyl acetamide                            | 120.830                      | 100.000                      |
| 4      | Ethyl acetate                                 | 291.660                      | 150.000                      |
| 5      | Hexane                                        | 91.830                       | 91.830                       |
| 6      | IPA                                           | 40.240                       | 40.240                       |
| 7      | Carbon activated                              | 6.500                        | 6.500                        |
| 8      | Methanol                                      | 21.990                       | 21.990                       |
| 9      | Pure salt                                     | 3.333                        | 3.333                        |
| 10     | Sodium sulfate anhydrous                      | 1.312                        | 1.312                        |
| 11     | Toluene                                       | 76.650                       | 76.650                       |
| 12     | Triethyl amine                                | 2.490                        | 2.490                        |

**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production****21 Sertraline HCl**

| S. No. | Raw Material Name       | Quantity                     |                              |
|--------|-------------------------|------------------------------|------------------------------|
|        |                         | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | Racemic C &T Sertraline | 1.140                        | 1.140                        |
| 2      | C.S. Lye                | 1.450                        | 1.450                        |
| 3      | D(-) Mandalic acid      | 0.650                        | 0.650                        |
| 4      | Methylene Chloride      | 41.500                       | 41.500                       |
| 5      | Carbon Activated        | 0.025                        | 0.025                        |
| 6      | Methanol                | 7.200                        | 7.200                        |
| 7      | HCl-Tech                | 0.200                        | 0.200                        |
| 8      | Isopropyl alcohol       | 27.000                       | 27.000                       |



**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production****22 Sumatriptan Succinate**

| S. No. | Raw Material Name             | Quantity                     |                              |
|--------|-------------------------------|------------------------------|------------------------------|
|        |                               | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | Benzyl Chloride               | 0.400                        | 0.400                        |
| 2      | Chlorine Gas                  | 0.700                        | 0.700                        |
| 3      | Chloroform                    | 400.000                      | 400.000                      |
| 4      | Dilute HCl                    | 59.000                       | 59.000                       |
| 5      | Hydrogen                      | 0.100                        | 0.100                        |
| 6      | IPA                           | 200.000                      | 200.000                      |
| 7      | Methanol                      | 400.000                      | 400.000                      |
| 8      | MMA Solution (40 %)           | 38.600                       | 38.600                       |
| 9      | Nickel catalyst               | 0.500                        | 0.500                        |
| 10     | Nitric Acid                   | 1.245                        | 1.245                        |
| 11     | Potassium carbonate           | 30.800                       | 30.800                       |
| 12     | Sodium nitrate                | 0.200                        | 0.200                        |
| 13     | Succinic acid                 | 0.400                        | 0.400                        |
| 14     | Sulphuric Acid                | 30.400                       | 30.400                       |
| 15     | Thiourea                      | 0.250                        | 0.250                        |
| 16     | Phosphorous Pentoxide         | 0.700                        | 0.700                        |
| 17     | C4 compound (BC-II)           | 0.460                        | 0.460                        |
| 18     | Stannous Chloride monohydrate | 2.124                        | 2.124                        |
| 19     | 1-Bromo-3-chloropropane       | 0.400                        | 0.400                        |
| 20     | Caustic Soda Lye (50%)        | 43.558                       | 43.558                       |
| 21     | Dimethyl amine solution (40%) | 19.300                       | 19.300                       |
| 22     | Triethyl ortho formate        | 1.450                        | 1.450                        |
| 23     | Magnesium turnings            | 24.100                       | 24.100                       |
| 24     | Cyclohexane                   | 161.000                      | 161.000                      |
| 25     | Hyflow Super cell             | 1.000                        | 1.000                        |
| 26     | Diethyl ether                 | 0.350                        | 0.350                        |
| 27     | HCl                           | 0.100                        | 0.100                        |
| 28     | PPE                           | 1.050                        | 1.050                        |
| 29     | Hydrogen Bromide              | 10.000                       | 10.000                       |

**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production****23 Teriflunomide**

| S. No. | Raw Material Name             | Quantity                     |                              |
|--------|-------------------------------|------------------------------|------------------------------|
|        |                               | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | 4-(Trifluoromethyl)aniline    | --                           | 0.600                        |
| 2      | Cyanoacetic acid              | --                           | 0.320                        |
| 3      | Dicyclohexylcarbodiimide(DCC) | --                           | 0.770                        |
| 4      | Ethyl acetate                 | --                           | 80.000                       |
| 5      | Isopropyl alcohol             | --                           | 10.000                       |
| 6      | Sodium hydride                | --                           | 0.180                        |
| 7      | Acetyl chloride               | --                           | 0.290                        |
| 8      | Tetrahydrofuran               | --                           | 23.000                       |
| 9      | Acetic acid                   | --                           | 0.220                        |
| 10     | Hexane                        | --                           | 21.000                       |
| 11     | Charcoal                      | --                           | 0.100                        |

**24 Tri Hexyphenidyl HCl**

| S. No. | Raw Material Name   | Quantity                     |                              |
|--------|---------------------|------------------------------|------------------------------|
|        |                     | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | Acetophenone        | --                           | 0.780                        |
| 2      | Paraformaldehyde    | --                           | 0.260                        |
| 3      | Piperidine          | --                           | 0.730                        |
| 4      | IPA.HCl (23.4% w/w) | --                           | 2.050                        |
| 5      | IPA                 | --                           | 30.150                       |
| 6      | Sodium Hydroxide    | --                           | 0.240                        |
| 7      | Toluene             | --                           | 12.530                       |
| 8      | Cyclohexyl bromide  | --                           | 2.700                        |
| 9      | THF                 | --                           | 6.720                        |
| 10     | Ammonium Chloride   | --                           | 2.540                        |
| 11     | Acetone             | --                           | 1.980                        |
| 12     | Sodium Sulphate     | --                           | 0.180                        |

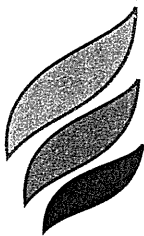
**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production****25 Zoledronic Acid**

| S. No. | Raw Material Name       | Quantity                     |                              |
|--------|-------------------------|------------------------------|------------------------------|
|        |                         | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | Imidazole               | 0.667                        | 0.667                        |
| 2      | Ethyl acetate           | 21.333                       | 21.333                       |
| 3      | Potassium Carbonate     | 2.000                        | 2.000                        |
| 4      | n-Hexane                | 6.000                        | 6.000                        |
| 5      | MDC                     | 13.333                       | 13.333                       |
| 6      | Titanium Tetrachloride  | 1.333                        | 1.333                        |
| 7      | Isopropyl alcohol       | 20.000                       | 20.000                       |
| 8      | Phosphorous acid        | 0.667                        | 0.667                        |
| 9      | Chloro benzene          | 0.467                        | 0.467                        |
| 10     | Phosphorous oxychloride | 0.667                        | 0.667                        |
| 11     | Methanol                | 20.000                       | 20.000                       |

**NATCO PHARMA LIMITED****Chemical Division****Raw material consumption per unit of production****26 Zolmitriptan**

| S. No. | Raw Material Name                      | Quantity                     |                              |
|--------|----------------------------------------|------------------------------|------------------------------|
|        |                                        | Kg/Kg for the year 2018-2019 | Kg/Kg for the year 2019-2020 |
| 1      | 4-Dimethylamino butanol diethyl acetal | 2.590                        | 2.590                        |
| 2      | Acetone                                | 45.000                       | 50.000                       |
| 3      | Ammonia solution (10%)                 | 30.000                       | 30.000                       |
| 4      | Activated Carbon                       | 8.700                        | 8.700                        |
| 5      | Diethyl carbonate                      | 5.970                        | 5.970                        |
| 6      | Ethyl acetate                          | 312.000                      | 300.000                      |
| 7      | Hydrogen                               | 0.100                        | 0.100                        |
| 8      | Hyflow                                 | 1.400                        | 1.400                        |
| 9      | IPA                                    | 3.000                        | 13.000                       |
| 10     | IPE                                    | 2.000                        | 3.000                        |
| 11     | L-Phenyl alanine                       | 7.900                        | 7.900                        |
| 12     | Methanol                               | 175.000                      | 175.000                      |
| 13     | Methylene chloride                     | 42.000                       | 42.000                       |
| 14     | n-Hexane                               | 18.000                       | 18.000                       |
| 15     | Nitric acid                            | 3.380                        | 3.380                        |
| 16     | Pd/C                                   | 0.930                        | 0.930                        |
| 17     | Potassium carbonate                    | 0.260                        | 0.260                        |
| 18     | Sodium borohydride                     | 0.900                        | 0.900                        |
| 19     | Sodium hydroxide                       | 3.460                        | 3.460                        |
| 20     | Sodium nitrite                         | 0.970                        | 0.970                        |
| 21     | Sodium sulfate                         | 0.980                        | 0.980                        |
| 22     | Sodium Sulfite                         | 9.140                        | 9.140                        |
| 23     | Sulfuric acid                          | 22.740                       | 22.740                       |
| 24     | Thionyl chloride                       | 4.300                        | 4.300                        |

# **Annexure-2**



# SAVANT

## TEST REPORT

Savant Envitech Pvt. Ltd.

Plot No. 203, H. No. 5-36/203,  
Prashanthnagar, Kukatpally IDA,  
Hyderabad - 500 072.

Ph : 040-23070602, 2307 5699

: 040-40126589

Email : info@savantenvitech.com

Web : www.savantenvitech.com

Report No : SEPL/NAT/WW/19/19-20/0084

URL No. TC837720000000049P

Format No : SEPL/GF/LAB-04

### WASTE WATER ANALYSIS

Name and Address of the Client:

M/s .Natco Pharma Limited.,  
Mekaguda, Nandigama Mandal  
Ranga Reddy (District), Telangana -509223

|                          |              |                          |                                          |
|--------------------------|--------------|--------------------------|------------------------------------------|
| Date of Report           | : 30.03.2020 | Sample Collected by      | : Savant Envitech                        |
| Sampling Date            | : 20.03.2020 | Sample Condition         | : Received in Plastic Can & Glass bottle |
| Sample Received on       | : 21.03.2020 | Sampling Procedure       | : SEPL/STP/Sampling/Lab-203              |
| Analysis Start Date      | : 21.03.2020 | Sample Registration No's | : WW/03/20/0083, 0084, 0085 & 0086       |
| Analysis Completion Date | : 30.03.2020 | Sample Description       | : Effluent Water                         |
| Sub Contract Test        | : Not Given  | Sample Quantity          | : 2 Lts - each                           |

1. WW/03/20/0083 : Raw Effluent
2. WW/03/20/0084 : Bio Aeration tank-I Inlet [(ECOT Outlet)]
3. WW/03/20/0085 : Bio-Clarifier -II [Outlet]
4. WW/03/20/0086 : Secondary R.O Permeate

### TEST RESULT

Sample is analyzed "as received basis"

| S. No | Parameter                                 | Method                           | Unit | Raw Effluent | Bio-Aeration tank -I Inlet (ECOT Outlet) | Bio-Clarifier-II [Outlet] | Secondary R.O Permeate |
|-------|-------------------------------------------|----------------------------------|------|--------------|------------------------------------------|---------------------------|------------------------|
| 1     | pH@26.6°C                                 | APHA : 4500 H <sup>+</sup> B     | --   | 6.58         | 7.76                                     | 7.46                      | 7.79                   |
| 2     | Total Suspended Solids                    | APHA : 2540 D                    | mg/L | 110          | 86                                       | 62                        | <10                    |
| 3     | Total Dissolved Solids                    | APHA: 2540 C                     | mg/L | 12722        | 10682                                    | 9226                      | 269                    |
| 4     | Chemical Oxygen Demand                    | APHA : 5220 B                    | mg/L | 22788.48     | 8231.04                                  | 1019.90                   | 31.87                  |
| 5     | Biochemical Oxygen Demand(3day's at 27°C) | IS : 3025(Part-44) :2009         | mg/L | 9666.67      | 4833.33                                  | 394.74                    | <4.0                   |
| 6     | Chlorides as Cl <sup>-</sup>              | APHA : 4500 Cl <sup>-</sup> B    | mg/L | 4902.91      | 4484.07                                  | 1843.49                   | 39.42                  |
| 7     | Sulphates as SO <sub>4</sub>              | APHA : 4500 SO <sub>4</sub> E    | mg/L | 258.6        | 195.6                                    | 136.2                     | 4.2                    |
| 8     | Nitrogen (Ammonia) as N                   | APHA : 4500 NH <sub>3</sub> B, C | mg/L | 220.58       | 124.43                                   | 69.00                     | <10                    |
| 9     | Lead as Pb                                | APIIA . 3111B                    | mg/L | <0.05        | <0.05                                    | <0.05                     | <0.05                  |

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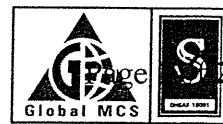
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SAVANT

## TEST REPORT

Savant Envitech Pvt. Ltd.

Plot No. 203, H. No. 5-36/203,  
Prashanthinagar, Kukatpally IDA,  
Hyderabad - 500 072.

Ph : 040-23070602, 2307 5699

: 040-40126589, 65873137

Email : info@savantenvitech.com

Web : www.savantenvitech.com

Report No : SEPL/NAT/W/19/19-20/0081 (Section-II)

Format No : SEPL/GF/LAB-04

## TEST RESULT

| S. No | Parameter                               | Method                                                                                          | Unit | Raw Effluent | Bio-Aeration tank -I Inlet (ECOT Outlet) | Bio-Clarifier-II [Outlet] | Secondary R.O Permeate |
|-------|-----------------------------------------|-------------------------------------------------------------------------------------------------|------|--------------|------------------------------------------|---------------------------|------------------------|
| 10    | Oil & Grease                            | APHA ; 5520 B                                                                                   | mg/L | <5           | <5                                       | <5                        | <5                     |
| 11    | Total Chromium as Cr                    | APHA : 3111B                                                                                    | mg/L | <0.05        | <0.05                                    | <0.05                     | <0.05                  |
| 12    | Zinc as Zn                              | APHA : 3111B                                                                                    | mg/L | <0.5         | <0.5                                     | <0.5                      | <0.5                   |
| 13    | Nickel as Ni                            | APHA: 3111B                                                                                     | mg/L | <0.05        | <0.05                                    | <0.05                     | <0.05                  |
| 14    | Arsenic as As                           | APHA : 3500 As B                                                                                | mg/L | <0.01        | <0.01                                    | <0.01                     | <0.01                  |
| 15    | Mercury                                 | SEPL/SOP/W-WW/Lab-275, Issue No: 01, Issue Date: 01-06-2018; Method based on Instrument Manual. | mg/L | <0.01        | <0.01                                    | <0.01                     | <0.01                  |
| 16    | Cyanide as CN                           | APHA : 4500 CN- C, E                                                                            | mg/L | <0.05        | <0.05                                    | <0.05                     | <0.05                  |
| 17    | Hexavalent Chromium as Cr <sup>+6</sup> | APHA : 3500 Cr B                                                                                | mg/L | <0.05        | <0.05                                    | <0.05                     | <0.05                  |

Method Follows: APHA 23<sup>rd</sup> Edition

Opinion and interpretation: Nil

1. Reports pertained only to the submitted sample.

2. Test reports shall not be reproduced except in full, without written approval of the laboratory.

Note : Section-II is not covered under NABL scope

Checked by  
N.P.Viswanath  
Head - Lab

Authorized Signatory  
S. Lakuma Devi  
Technical Manager

\*End of the Report\*



SAVANT

## TEST REPORT

Savant Envitech Pvt. Ltd.

Plot No. 203, H. No. 5-36/203,  
Prashanthnagar, Kukatpally IDA,  
Hyderabad - 500 072.

Ph : 040-23070602, 2307 5699

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Email : info@savantenvitech.com

Web : www.savantenvitech.com

Report No: SEPL/NATC/STK/20/0087

Format No: SEPL/GF/LAB-90

## STACK MEASUREMENT DATA

Name and Address of the Client:

M/s .Natco Pharma Limited.,  
Mekaguda, Nandigama Mandal  
Ranga Reddy (District), Telangana -509223

Date of Report : 30.03.2020 Sample Collected by : Savant Envitech  
 Sampling Date : 19.03.2020 Sample Condition : Received in Sorbent tubes and Collection  
 Sample Received on : 21.03.2020 Bottles  
 Analysis Start Date : 21.03.2020 Sampling Procedure : IS 11255 Methods  
 Analysis Completion Date: 25.03.2020 Sample Registration No.: STK/03/20/0087  
 Sub Contract Test : Not Given Field ID : NATC /STK/19/03/20/01

Sample Particulars : Stack attached to the Coal Fired Boiler 6.0 TPH

## TEST RESULT

| S.No | Parameter                                                | Method            | Unit                | Results | CPCB/TSPCB Norms |
|------|----------------------------------------------------------|-------------------|---------------------|---------|------------------|
| 1    | Stack Diameter                                           | --                | Meter               | 0.80    | --               |
| 2    | Flue Gas Temperature                                     | IS 11255 (Part-3) | °C                  | 189     | --               |
| 3    | Exit Velocity of Flue gases                              | IS 11255 (Part-3) | m/sec               | 16.4    | --               |
| 4    | Flow Rate                                                | IS 11255 (Part-3) | Nm <sup>3</sup> /hr | 18,726  | --               |
| 5    | Sampling point height                                    | --                | Meter               | 18.0    | --               |
| 6    | Stack Height                                             | --                | Meter               | 30.0    | --               |
| 7    | Particulate Matter                                       | IS 11255 (Part-1) | mg/Nm <sup>3</sup>  | 48.2    | 115              |
| 8    | Sulphur Dioxide as SO <sub>2</sub>                       | IS 11255 (Part-2) | mg/Nm <sup>3</sup>  | 97.4    | --               |
| 9    | Oxides of Nitrogen (NO <sub>x</sub> as NO <sub>2</sub> ) | IS 11255 (Part-7) | mg/Nm <sup>3</sup>  | 113.6   | --               |

Opinion and Interpretation: Nil

Note: i) Test Reports shall not be reproduced except in full, without written approval of the laboratory

## Instrument Details:

|   |                      |                      |
|---|----------------------|----------------------|
| 1 | Instrument           | Stack Monitoring Kit |
| 2 | Make                 | Lata Envirotech      |
| 3 | Model/S.No           | APM-160/133-DTB-2020 |
| 4 | Calibrated On        | 19.02.2020           |
| 5 | Calibration Due Date | 18.02.2021           |

Checked by  
N.P.Viswanath  
Head - Lab

Authorized Signatory  
S. Lakuma Devi  
Technical - Manager

\*End of the Report\*

Page 1 of 1

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## TEST REPORT

# SAVANT

Savant Envitech Pvt. Ltd.

Plot No. 203, H. No. 5-36/203,  
Prashanthnagar, Kukatpally IDA,  
Hyderabad - 500 072.

Ph : 040-23070602, 2307 5699

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Web : www.savantenvitech.com

Report No: SEPL/NATC/STK/20/0088

Format No: SEPL/GF/LAB-90

### STACK MEASUREMENT DATA

Name and Address of the Client:

M/s .Natco Pharma Limited,  
Mekaguda, Nandigama Mandal  
Ranga Reddy (District), Telangana -509223

|                           |              |                          |                                                    |
|---------------------------|--------------|--------------------------|----------------------------------------------------|
| Date of Report            | : 30.03.2020 | Sample Collected by      | : Savant Envitech                                  |
| Sampling Date             | : 19.03.2020 | Sample Condition         | : Received in Sorbent tubes and Collection Bottles |
| Sample Received on        | : 21.03.2020 | Sampling Procedure       | : IS 11255 Methods                                 |
| Analysis Start Date       | : 21.03.2020 | Sample Registration No.: | STK/03/20/0088                                     |
| Analysis Completion Date: | 26.03.2020   | Field ID                 | : NATC /STK/19/03/20/02                            |
| Sub Contract Test         | : Not Given  |                          |                                                    |

Sample Particulars : Stack attached to the D.G.Set 906 (1010 KVA)

### TEST RESULT

| S.No | Parameter                                                | Method            | Unit                | Results | Standards |
|------|----------------------------------------------------------|-------------------|---------------------|---------|-----------|
| 1    | Stack Diameter                                           | --                | meter               | 0.30    | --        |
| 2    | Flue Gas Temperature                                     | IS 11255 (Part-3) | °C                  | 162     | --        |
| 3    | Exit Velocity of Flue gases                              | IS 11255 (Part-3) | m/sec               | 16.2    | --        |
| 4    | Flow Rate                                                | IS 11255 (Part-3) | Nm <sup>3</sup> /hr | 2,774   | --        |
| 5    | Sampling point height                                    | --                | meter               | 15.0    | --        |
| 6    | Stack Height                                             | --                | meter               | 20.0    | --        |
| 7    | Particulate Matter                                       | IS 11255 (Part-1) | mg/Nm <sup>3</sup>  | 53.9    | 75        |
| 8    | Sulphur Dioxide as SO <sub>2</sub>                       | IS 11255 (Part-2) | mg/Nm <sup>3</sup>  | 96.8    | --        |
| 9    | Oxides of Nitrogen (NO <sub>x</sub> as NO <sub>2</sub> ) | IS 11255 (Part-7) | mg/Nm <sup>3</sup>  | 126     | 710       |
| 10   | Non Methane Hydrocarbons                                 | Gas Chromatograph | mg/Nm <sup>3</sup>  | 43.6    | 100       |
| 11   | Carbon Monoxide (CO)                                     | Gas Chromatograph | mg/Nm <sup>3</sup>  | 98.2    | 150       |

Note: The above standards are from GSR 489 (E) dated on 11.07.2002

Opinion and Interpretation: Nil

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### Instrument Details:

|   |                      |                      |
|---|----------------------|----------------------|
| 1 | Instrument           | Stack Monitoring Kit |
| 2 | Make                 | Lata Envirotech      |
| 3 | Model/S.No           | APM-160/133-DTB-2020 |
| 4 | Calibrated On        | 19.02.2020           |
| 5 | Calibration Due Date | 18.02.2021           |

Checked by  
N.P.Viswanath  
Head - Lab

Authorized Signatory  
S. Lakuma Devi  
Technical Manager

\*End of the Report\*

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## TEST REPORT

# SAVANT

Savant Envitech Pvt. Ltd.

Plot No. 203, H. No. 5-36/203,  
Prashanthinagar, Kukatpally IDA,  
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Web : www.savantenvitech.com

Report No: SEPL/NATC/STK/20/0089

### STACK MEASUREMENT DATA

Format No: SEPL/GF/LAB-90

Name and Address of the Client:

M/s .Natco Pharma Limited.,  
Mekaguda, Nandigama Mandal  
Ranga Reddy (District), Telangana -509223

|                           |              |                          |                                                    |
|---------------------------|--------------|--------------------------|----------------------------------------------------|
| Date of Report            | : 30.03.2020 | Sample Collected by      | : Savant Envitech                                  |
| Sampling Date             | : 19.03.2020 | Sample Condition         | : Received in Sorbent tubes and Collection Bottles |
| Sample Received on        | : 21.03.2020 | Sampling Procedure       | : IS 11255 Methods                                 |
| Analysis Start Date       | : 21.03.2020 | Sample Registration No.: | : STK/03/20/0089                                   |
| Analysis Completion Date: | 26.03.2020   | Field ID                 | : NATC /STK/19/03/20/03                            |
| Sub Contract Test         | : Not Given  |                          |                                                    |

Sample Particulars : Stack attached to the D.G.Set 907(1010 KVA)

### TEST RESULT

| S.No | Parameter                                                | Method            | Unit                | Results | Standards |
|------|----------------------------------------------------------|-------------------|---------------------|---------|-----------|
| 1    | Stack Diameter                                           | --                | Meter               | 0.30    | --        |
| 2    | Flue Gas Temperature                                     | IS 11255 (Part-3) | °C                  | 165     | --        |
| 3    | Exit Velocity of Flue gases                              | IS 11255 (Part-3) | m/sec               | 16.4    | --        |
| 4    | Flow Rate                                                | IS 11255 (Part-3) | Nm <sup>3</sup> /hr | 2,785   | --        |
| 5    | Sampling point height                                    | --                | Meter               | 14.9    | --        |
| 6    | Stack Height                                             | --                | Meter               | 20.0    | --        |
| 7    | Particulate Matter                                       | IS 11255 (Part-1) | mg/Nm <sup>3</sup>  | 54.6    | 75        |
| 8    | Sulphur Dioxide as SO <sub>2</sub>                       | IS 11255 (Part-2) | mg/Nm <sup>3</sup>  | 95.3    | --        |
| 9    | Oxides of Nitrogen (NO <sub>x</sub> as NO <sub>2</sub> ) | IS 11255 (Part-7) | mg/Nm <sup>3</sup>  | 136     | 710       |
| 10   | Non Methane Hydrocarbons                                 | Gas Chromatograph | mg/Nm <sup>3</sup>  | 45.6    | 100       |
| 11   | Carbon Monoxide (CO)                                     | Gas Chromatograph | mg/Nm <sup>3</sup>  | 95.4    | 150       |

Note: The above standards are from GSR 489 (E) dated on 11.07.2002

Opinion and Interpretation: Nil

Note: i) Test Reports shall not be reproduced except in full, without written approval of the laboratory

### Instrument Details:

|   |                      |                      |
|---|----------------------|----------------------|
| 1 | Instrument           | Stack Monitoring Kit |
| 2 | Make                 | Lata Envirotech      |
| 3 | Model/S.No           | APM-160/133-DTB-2020 |
| 4 | Calibrated On        | 19.02.2020           |
| 5 | Calibration Due Date | 18.02.2021           |

Checked by  
N.P.Viswanath  
Head - Lab

Authorized Signatory  
S. Lakuma Devi  
Technical - Manager

\*End of the Report\*

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 Certified by OHSAS 18001 : GS-131001  
 Certified by GLP : GLP-140701



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Report No: SEPL/NATC/STK/20/0090

Format No: SEPL/GF/LAB-90

### STACK MEASUREMENT DATA

Name and Address of the Client:

M/s .Natco Pharma Limited.,  
Mekaguda, Nandigama Mandal  
Ranga Reddy (District), Telangana -509223

|                           |              |                          |                                                    |
|---------------------------|--------------|--------------------------|----------------------------------------------------|
| Date of Report            | : 30.03.2020 | Sample Collected by      | : Savant Envitech                                  |
| Sampling Date             | : 19.03.2020 | Sample Condition         | : Received in Sorbent tubes and Collection Bottles |
| Sample Received on        | : 21.03.2020 | Sampling Procedure       | : IS 11255 Methods                                 |
| Analysis Start Date       | : 21.03.2020 | Sample Registration No.: | STK/03/20/0090                                     |
| Analysis Completion Date: | 26.03.2020   | Field ID                 | : NATC /STK/19/03/20/04                            |
| Sub Contract Test         | : Not Given  |                          |                                                    |

Sample Particulars : Stack attached to the D.G.Set 908(1010 KVA)

### TEST RESULT

| S.No | Parameter                                                | Method            | Unit                | Results | Standards |
|------|----------------------------------------------------------|-------------------|---------------------|---------|-----------|
| 1    | Stack Diameter                                           | --                | Meter               | 0.30    | --        |
| 2    | Flue Gas Temperature                                     | IS 11255 (Part-3) | °C                  | 159     | --        |
| 3    | Exit Velocity of Flue gases                              | IS 11255 (Part-3) | m/sec               | 16.2    | --        |
| 4    | Flow Rate                                                | IS 11255 (Part-3) | Nm <sup>3</sup> /hr | 2,794   | --        |
| 5    | Sampling point height                                    | --                | Meter               | 15.0    | --        |
| 6    | Stack Height                                             | --                | Meter               | 20.0    | --        |
| 7    | Particulate Matter                                       | IS 11255 (Part-1) | mg/Nm <sup>3</sup>  | 53.1    | 75        |
| 8    | Sulphur Dioxide as SO <sub>2</sub>                       | IS 11255 (Part-2) | mg/Nm <sup>3</sup>  | 96.8    | --        |
| 9    | Oxides of Nitrogen (NO <sub>x</sub> as NO <sub>2</sub> ) | IS 11255 (Part-7) | mg/Nm <sup>3</sup>  | 135     | 710       |
| 10   | Non Methane Hydrocarbons                                 | Gas Chromatograph | mg/Nm <sup>3</sup>  | 47.8    | 100       |
| 11   | Carbon Monoxide (CO)                                     | Gas Chromatograph | mg/Nm <sup>3</sup>  | 93.6    | 150       |

Note: The above standards are from GSR 489 (E) dated on 11.07.2002

Opinion and Interpretation: Nil

Note: i) Test Reports shall not be reproduced except in full, without written approval of the laboratory

### Instrument Details:

|   |                      |                      |
|---|----------------------|----------------------|
| 1 | Instrument           | Stack Monitoring Kit |
| 2 | Make                 | Lata Envirotech      |
| 3 | Model/S.No           | APM-160/133-DTB-2020 |
| 4 | Calibrated On        | 19.02.2020           |
| 5 | Calibration Due Date | 18.02.2021           |

Checked by  
N.P.Viswanath  
Head - Lab

Authorized Signatory  
S. Lakshmi Devi  
Technical Manager

\*End of the Report\*

Page 1 of 1



# SAVANT

## TEST REPORT

Savant Envitech Pvt. Ltd.

Plot No. 203, H. No. 5-36/203,  
Prashanthinagar, Kukatpally IDA,  
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Ph : 040-23070602, 2307 5699

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Report No: SEPL/NATC/STK/20/0091

Format No: SEPL/GF/LAB-90

### STACK MEASUREMENT DATA

Name and Address of the Client:

M/s .Natco Pharma Limited.,  
Mekaguda, Nandigama Mandal  
Ranga Reddy (District), Telangana -509223

|                          |              |                          |                                                    |
|--------------------------|--------------|--------------------------|----------------------------------------------------|
| Date of Report           | : 30.03.2020 | Sample Collected by      | : Savant Envitech                                  |
| Sampling Date            | : 19.03.2020 | Sample Condition         | : Received in Sorbent tubes and Collection Bottles |
| Sample Received on       | : 21.03.2020 |                          |                                                    |
| Analysis Start Date      | : 21.03.2020 | Sampling Procedure       | : IS 11255 Methods                                 |
| Analysis Completion Date | : 26.03.2020 | Sample Registration No.: | : STK/03/20/0091                                   |
| Sub Contract Test        | : Not Given  | Field ID                 | : NATC /STK/19/03/20/05                            |

Sample Particulars : Stack attached to the D.G.Set 909(1010 KVA)

### TEST RESULT

| S.No | Parameter                                                | Method            | Unit                | Results | Standards |
|------|----------------------------------------------------------|-------------------|---------------------|---------|-----------|
| 1    | Stack Diameter                                           | --                | Meter               | 0.30    | --        |
| 2    | Flue Gas Temperature                                     | IS 11255 (Part-3) | °C                  | 163     | --        |
| 3    | Exit Velocity of Flue gases                              | IS 11255 (Part-3) | m/sec               | 16.5    | --        |
| 4    | Flow Rate                                                | IS 11255 (Part-3) | Nm <sup>3</sup> /hr | 2,811   | --        |
| 5    | Sampling point height                                    | --                | Meter               | 15.0    | --        |
| 6    | Stack Height                                             | --                | Meter               | 20.0    | --        |
| 7    | Particulate Matter                                       | IS 11255 (Part-1) | mg/Nm <sup>3</sup>  | 55.2    | 75        |
| 8    | Sulphur Dioxide as SO <sub>2</sub>                       | IS 11255 (Part-2) | mg/Nm <sup>3</sup>  | 96.3    | --        |
| 9    | Oxides of Nitrogen (NO <sub>x</sub> as NO <sub>2</sub> ) | IS 11255 (Part-7) | mg/Nm <sup>3</sup>  | 132.2   | 710       |
| 10   | Non Methane Hydrocarbons                                 | Gas Chromatograph | mg/Nm <sup>3</sup>  | 43.6    | 100       |
| 11   | Carbon Monoxide (CO)                                     | Gas Chromatograph | mg/Nm <sup>3</sup>  | 96.2    | 150       |

Note: The above standards are from GSR 489 (E) dated on 11.07.2002

Opinion and Interpretation: Nil

Note: i) Test Reports shall not be reproduced except in full, without written approval of the laboratory

### Instrument Details:

|   |                      |                      |
|---|----------------------|----------------------|
| 1 | Instrument           | Stack Monitoring Kit |
| 2 | Make                 | Lata Envirotech      |
| 3 | Model/S.No           | APM-160/133-DTB-2020 |
| 4 | Calibrated On        | 19.02.2020           |
| 5 | Calibration Due Date | 18.02.2021           |

Checked by  
N.P.Viswanath  
Head - Lab

Authorized Signatory  
S. Lakuma Devi  
Technical - Manager

\*End of the Report\*

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Certified by GLP : GLP-140701



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OHSAS -18001:2007 Certified Company  
& GLP Certified Company



## TEST REPORT

# SAVANT

Savant Envitech Pvt. Ltd.

Plot No. 203, H. No. 5-36/203,  
Prashanthinagar, Kukatpally IDA,  
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: 040-40126589

Email : info@savantenvitech.com

Web : www.savantenvitech.com

Report No :SEPL/BC/AAQ/19/20/0023(Section-I)

URL No.TC837720000000050P

Format No : SEPL/GF/LAB-03

### AMBIENT AIR QUALITY DATA

Name and Address of the Client:

M/s .Natco Pharma Limited.,  
Mekaguda, Nandigama Mandal  
Ranga Reddy (District), Telangana -509223

Date of Report : 30.03.2020

Sampling Date : 19.03.2020

&20.03.2020

Sample Received on : 21.03.2020

Analysis Start Date : 21.03.2020

Analysis Completion Date: 27.03.2020

Sub Contract Test : Not Given

Locations:

i) Top of the ETP Lab

Sample Collected by : Savant Envitech

Sample Condition : Received in Self sealed Polythene Covers  
and Sample Bottles

Sampling Procedure : CPCB Guidelines (NAAQMS/36/2012-13)

Weather Conditions : Dry

Sample Registration No's: AAQ/03/20/0053

Temperature & Humidity: 30.2°C &52 %

: AAQ/03/20/0053

: NATC/AAQ/18/03/19-20/01

### TEST RESULT

24 hrs @ 8 hourly sampling

Samples are analyzed as received basis

| S. No | Name of the Parameter                | Units   | Results            |                    |                    |            | NAAQS Limits | Test Method                                            |
|-------|--------------------------------------|---------|--------------------|--------------------|--------------------|------------|--------------|--------------------------------------------------------|
|       |                                      |         | 1st Interval (8hr) | 2nd Interval (8hr) | 3rd Interval (8hr) | Avg. 24hrs |              |                                                        |
| 1     | Average Flow Rate                    | Cum/min | 1.20               | 1.18               | 1.18               | 1.18       | -            | -                                                      |
| 2     | Particulate Matter (<10µm) or PM10   | µg/m³   | 64.2               | 63.4               | 61.6               | 63.06      | 100          | IS 5182:Part-23 (2012)                                 |
| 3     | Particulate Matter (<2.5µm) or PM2.5 | µg/m³   | 25.1               | 24.7               | 23.4               | 24.4       | 60           | CPCB Manual (NAAQMS/36/2012-13) Gravimetric Method     |
| 4     | Sulphur Dioxide as SO <sub>2</sub>   | µg/m³   | 18.2               | 20.2               | 17.6               | 18.66      | 80           | IS 5182:Part-2(2012)                                   |
| 5     | Nitrogen Dioxide as NO <sub>x</sub>  | µg/m³   | 28.2               | 27.2               | 27.6               | 27.33      | 80           | IS 5182:Part-6(2012)                                   |
| 6     | Ozone (O <sub>3</sub> )              | µg/m³   | 22.8               | -                  | -                  | 22.8       | 100          | IS 5182:Part-IX (1974)                                 |
| 7     | Ammonia (NH <sub>3</sub> )           | µg/m³   | 30.2               | 28.6               | 29.6               | 29.46      | 400          | CPCB Manual (NAAQMS/36/2012-13) Indophenol Blue Method |
| 8     | Lead (Pb)                            | µg/m³   | <0.1               | <0.1               | <0.1               | <0.1       | 1.0          | IS 5182:Part-22 (2009)                                 |

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: GLP-140701



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TC-8377

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## TEST REPORT

# SAVANT

Savant Envitech Pvt. Ltd.

Plot No. 203, H. No. 5-36/203,  
Prashanthinagar, Kukatpally IDA,  
Hyderabad - 500 072.

Ph : 040-23070602, 2307 5699

: 040-40126589, 65873137

Email : info@savantenvitech.com

Web : www.savantenvitech.com

Report No :SEPL/BC/AAQ/19/20/0023(Section-II)  
URL No.TC837720000000050P

Format No : SEPL/GF/LAB-03

### TEST RESULT

| S. No | Name of the Parameter                          | Units             | Results                  |                          |                          |            | NAAQS Limits | Test Method                     |
|-------|------------------------------------------------|-------------------|--------------------------|--------------------------|--------------------------|------------|--------------|---------------------------------|
|       |                                                |                   | 1 <sup>st</sup> Interval | 2 <sup>nd</sup> Interval | 3 <sup>rd</sup> Interval | Avg. 24hrs |              |                                 |
| 9     | Carbon monoxide as CO                          | mg/m <sup>3</sup> | 0.68                     | 0.62                     | 0.59                     | 0.63       | 02           | IS 5182:Part-10 (1999)          |
| 10    | Nickel (Ni)                                    | ng/m <sup>3</sup> | <5.0                     | <5.0                     | <5.0                     | <5.0       | 20           | CPCB Manual (NAAQMS/36/2012-13) |
| 11    | Arsenic (As)                                   | ng/m <sup>3</sup> | <2.0                     | <2.0                     | <2.0                     | <2.0       | 06           | CPCB Manual (NAAQMS/36/2012-13) |
| 12    | Benzene(C <sub>6</sub> H <sub>6</sub> )        | µg/m <sup>3</sup> | <1.0                     | <1.0                     | <1.0                     | <1.0       | 05           | IS 5182:Part-11 (2006)          |
| 13    | Benzo(a) pyrene (BaP) (Particulate phase only) | ng/m <sup>3</sup> | <0.1                     | <0.1                     | <0.1                     | <0.1       | 01           | CPCB Manual (NAAQMS/36/2012-13) |

Opinion and Interpretation: Nil

Note:i) Test Reports shall not be reproduced except in full, without written approval of the laboratory  
ii) Limit as per CPCB notification, New Delhi, 18th November -2009(NAAQS), for Ambient Air Quality.

Instrument Details:

RDS:Make: Ecotech Instruments :-, Model AAS 217-NL, SI.No. 18-I-711(Calibration Valid up to : 26.05.2020);

PM<sub>2.5</sub> : Make: LataEnvirotech Instruments Model: APM 154SI.No:73-DTH-2013 (Calibration Valid up to : 28.05.2020)

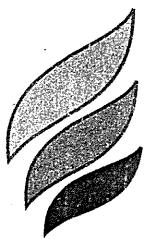
Observations if any: Nil

Note : Section-II is not covered under NABL scope

Checked by  
N.P.Viswanath  
Head - Lab

Authorized Signatory  
S. Lakuma Devi  
Technical - Manager

\*End of the Report\*



## TEST REPORT

# SAVANT

Report No :SEPL/BC/AAQ/19/20/0024(Section-I)  
 URL No.TC837720000000051P

Savant Envitech Pvt. Ltd.

Plot No. 203, H. No. 5-36/203,  
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Ph : 040-23070602, 2307 5699  
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Email : info@savantenvitech.com

Web : www.savantenvitech.com

Format No : SEPL/GF/LAB-03

### AMBIENT AIR QUALITY DATA

Name and Address of the Client:

M/s .Natco Pharma Limited.,  
 Mekaguda, Nandigama Mandal  
 Ranga Reddy (District), Telangana -509223

Date of Report : 30.03.2020 Sample Collected by : Savant Envitech  
 Sampling Date : 19.03.2020 Sample Condition : Received in Self sealed Polythene Covers  
 &20.03.2020 and Sample Bottles  
 Sample Received on : 21.03.2020 Sampling Procedure : CPCB Guidelines (NAAQMS/36/2012-13)  
 Analysis Start Date : 21.03.2020 Weather Conditions : Dry  
 Analysis Completion Date: 27.03.2020 Sample Registration No's: AAQ/03/20/0054  
 Sub Contract Test : Not Given Temperature & Humidity: 30.4°C &52 %  
 Locations:

i) Top of the Canteen Building : AAQ/03/20/0054 : NATC/AAQ/18/03/19-20/02

### TEST RESULT

24 hrs @ 8 hourly sampling  
 Samples are analyzed as received basis

| S. No | Name of the Parameter                | Units   | Results            |                    |                    |            | NAAQS Limits | Test Method                                            |
|-------|--------------------------------------|---------|--------------------|--------------------|--------------------|------------|--------------|--------------------------------------------------------|
|       |                                      |         | 1st Interval (8hr) | 2nd Interval (8hr) | 3rd Interval (8hr) | Avg. 24hrs |              |                                                        |
| 1     | Average Flow Rate                    | Cum/min | 1.18               | 1.16               | 1.16               | 1.16       | -            | -                                                      |
| 2     | Particulate Matter (<10µm) or PM10   | µg/m³   | 63.2               | 64.4               | 59.2               | 62.26      | 100          | IS 5182:Part-23 (2012)                                 |
| 3     | Particulate Matter (<2.5µm) or PM2.5 | µg/m³   | 24.6               | 25.7               | 23.1               | 24.4       | 60           | CPCB Manual (NAAQMS/36/2012-13) Gravimetric Method     |
| 4     | Sulphur dioxide as SO <sub>2</sub>   | µg/m³   | 19.6               | 18.6               | 18.2               | 18.8       | 80           | IS 5182:Part-2(2012)                                   |
| 5     | Nitrogen dioxide as NO <sub>x</sub>  | µg/m³   | 26.6               | 25.8               | 24.6               | 25.66      | 80           | IS 5182:Part-6(2012)                                   |
| 6     | Ozone (O <sub>3</sub> )              | µg/m³   | 22.2               | -                  | -                  | 22.2       | 100          | IS 5182:Part-IX (1974)                                 |
| 7     | Ammonia (NH <sub>3</sub> )           | µg/m³   | 28.2               | 27.6               | 27.8               | 27.8       | 400          | CPCB Manual (NAAQMS/36/2012-13) Indophenol Blue Method |
| 8     | Lead (Pb)                            | µg/m³   | <0.1               | <0.1               | <0.1               | <0.1       | 1.0          | IS 5182:Part-22 (2009)                                 |

Recognized by MOEF&CC, GOI, New Delhi : S.O.1953(E)  
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 Certified by ISO 9001 : QMS-K13344  
 Certified by OHSAS 18001 : GS-131001  
 Certified by GLP : GLP-140701



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TC-8377



ISO - 9001:2015 Certified Company



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## TEST REPORT

# SAVANT

Savant Envitech Pvt. Ltd.  
 Plot No. 203, H. No. 5-36/203,  
 Prashanthnagar, Kukatpally IDA,  
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Report No :SEPL/BC/AAQ/19/20/0024(Section-II)  
 URL No.TC837720000000051P

Format No : SEPL/GF/LAB-03

### TEST RESULT

| S. No | Name of the Parameter                          | Units             | Results                  |                          |                          |            | NAAQS Limits | Test Method                     |
|-------|------------------------------------------------|-------------------|--------------------------|--------------------------|--------------------------|------------|--------------|---------------------------------|
|       |                                                |                   | 1 <sup>st</sup> Interval | 2 <sup>nd</sup> Interval | 3 <sup>rd</sup> Interval | Avg. 24hrs |              |                                 |
| 9     | Carbon monoxide as CO                          | mg/m <sup>3</sup> | 0.69                     | 0.66                     | 0.68                     | 0.67       | 02           | IS 5182:Part-10 (1999)          |
| 10    | Nickel (Ni)                                    | ng/m <sup>3</sup> | <5.0                     | <5.0                     | <5.0                     | <5.0       | 20           | CPCB Manual (NAAQMS/36/2012-13) |
| 11    | Arsenic (As)                                   | ng/m <sup>3</sup> | <2.0                     | <2.0                     | <2.0                     | <2.0       | 06           | CPCB Manual (NAAQMS/36/2012-13) |
| 12    | Benzene(C <sub>6</sub> H <sub>6</sub> )        | µg/m <sup>3</sup> | <1.0                     | <1.0                     | <1.0                     | <1.0       | 05           | IS 5182:Part-11 (2006)          |
| 13    | Benzo(a) pyrene (BaP) (Particulate phase only) | ng/m <sup>3</sup> | <0.1                     | <0.1                     | <0.1                     | <0.1       | 01           | CPCB Manual (NAAQMS/36/2012-13) |

Opinion and Interpretation: Nil

Note:i) Test Reports shall not be reproduced except in full, without written approval of the laboratory

ii) Limit as per CPCB notification, New Delhi, 18th November -2009(NAAQS), for Ambient Air Quality.

Instrument Details:

RDS:Make: Ecotech Instruments :-, Model AAS 217-NL, SI.No. SI.No:16-E-439(Calibration Valid up to : 26.05.2020); PM<sub>2.5</sub> : Make: LataEnvirotech Instruments Model: APM 154 , SI.No72-DTH-2013(Calibration Valid up to : 28.05.2020)

Observations if any: Nil

Note : Section-II is not covered under NABL scope

Checked by  
 N.P.Viswanath  
 Head - Lab

Authorized Signatory  
 S. Lakuma Devi  
 Technical Manager

\*End of the Report\*







## TEST REPORT

# SAVANT

Savant Envitech Pvt. Ltd.

Plot No. 203, H. No. 5-36/203,  
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Format No : SEPL/GF/LAB-03

Report No :SEPL/BC/AAQ/19/20/0025(Section-I)

URL No.TC837720000000052P

### AMBIENT AIR QUALITY DATA

Name and Address of the Client:

M/s .Natco Pharma Limited.,  
Mekaguda, Nandigama Mandal  
Ranga Reddy (District), Telangana -509223

|                           |              |                           |                                            |
|---------------------------|--------------|---------------------------|--------------------------------------------|
| Date of Report            | : 30.03.2020 | Sample Collected by       | : Savant Envitech                          |
| Sampling Date             | : 19.03.2020 | Sample Condition          | : Received in Self sealed Polythene Covers |
|                           | &20.03.2020  | and Sample Bottles        |                                            |
| Sample Received on        | : 21.03.2020 | Sampling Procedure        | : CPCB Guidelines (NAAQMS/36/2012-13)      |
| Analysis Start Date       | : 21.03.2020 | Weather Conditions        | : Dry                                      |
| Analysis Completion Date: | 27.03.2020   | Sample Registration No's: | AAQ/03/20/0056                             |
| Sub Contract Test         | : Not Given  | Temperature & Humidity:   | 30.2°C &52 %                               |

Locations:

i) Top of the Staff Quarters : AAQ/03/20/0056 : NATC/AAQ/18/03/19-20/03

### TEST RESULT

24 hrs @ 8 hourly sampling

Samples are analyzed as received basis

| S. No | Name of the Parameter                | Units             | Results                        |                                |                                |            | NAAQS Limits | Test Method                                            |
|-------|--------------------------------------|-------------------|--------------------------------|--------------------------------|--------------------------------|------------|--------------|--------------------------------------------------------|
|       |                                      |                   | 1 <sup>st</sup> Interval (8hr) | 2 <sup>nd</sup> Interval (8hr) | 3 <sup>rd</sup> Interval (8hr) | Avg. 24hrs |              |                                                        |
| 1     | Average Flow Rate                    | Cum/min           | 1.20                           | 1.18                           | 1.16                           | 1.18       | -            | -                                                      |
| 2     | Particulate Matter (<10µm) or PM10   | µg/m <sup>3</sup> | 62.8                           | 63.4                           | 60.8                           | 62.26      | 100          | IS 5182:Part-23 (2012)                                 |
| 3     | Particulate Matter (<2.5µm) or PM2.5 | µg/m <sup>3</sup> | 23.8                           | 24.0                           | 21.8                           | 23.2       | 60           | CPCB Manual (NAAQMS/36/2012-13) Gravimetric Method     |
| 4     | Sulphur dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 16.8                           | 17.2                           | 16.6                           | 18.8       | 80           | IS 5182:Part-2(2012)                                   |
| 5     | Nitrogen dioxide as NO <sub>x</sub>  | µg/m <sup>3</sup> | 24.2                           | 24.8                           | 24.2                           | 24.4       | 80           | IS 5182:Part-6(2012)                                   |
| 6     | Ozone (O <sub>3</sub> )              | µg/m <sup>3</sup> | 20.2                           | -                              | -                              | 20.2       | 100          | IS 5182:Part-IX (1974)                                 |
| 7     | Ammonia (NH <sub>3</sub> )           | µg/m <sup>3</sup> | 26.8                           | 25.8                           | 29.6                           | 26.4       | 400          | CPCB Manual (NAAQMS/36/2012-13) Indophenol Blue Method |
| 8     | Lead (Pb)                            | µg/m <sup>3</sup> | <0.1                           | <0.1                           | <0.1                           | <0.1       | 1.0          | IS 5182:Part-22 (2009)                                 |

Recognized by MOEF&CC, GOI, New Delhi : S.O.1953(E)  
Accredited by ISO/IEC 17025:2017 : TC-8377  
Certified by ISO 9001 : QMS-K13344  
Certified by OHSAS 18001 : GS-131001  
Certified by GLP : GLP-140701



OHSAS -18001:2007 Certified Company



# SAVANT

## TEST REPORT

Savant Envitech Pvt. Ltd.

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Prashanthinagar, Kukatpally IDA,  
Hyderabad - 500 072.

Ph : 040-23070602, 2307 5699

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Report No :SEPL/BC/AAQ/19/20/0025(Section-II)

URL No.TC837720000000051P

Format No : SEPL/GF/LAB-03

| S. No | Name of the Parameter                          | Units             | Results                  |                          |                          |            | NAAQS Limits | Test Method                     |
|-------|------------------------------------------------|-------------------|--------------------------|--------------------------|--------------------------|------------|--------------|---------------------------------|
|       |                                                |                   | 1 <sup>st</sup> Interval | 2 <sup>nd</sup> Interval | 3 <sup>rd</sup> Interval | Avg. 24hrs |              |                                 |
| 9     | Carbon monoxide as CO                          | mg/m <sup>3</sup> | 0.66                     | 0.64                     | 0.62                     | 0.64       | 02           | IS 5182:Part-10 (1999)          |
| 10    | Nickel (Ni)                                    | ng/m <sup>3</sup> | <5.0                     | <5.0                     | <5.0                     | <5.0       | 20           | CPCB Manual (NAAQMS/36/2012-13) |
| 11    | Arsenic (As)                                   | ng/m <sup>3</sup> | <2.0                     | <2.0                     | <2.0                     | <2.0       | 06           | CPCB Manual (NAAQMS/36/2012-13) |
| 12    | Benzene(C <sub>6</sub> H <sub>6</sub> )        | μg/m <sup>3</sup> | <1.0                     | <1.0                     | <1.0                     | <1.0       | 05           | IS 5182:Part-11 (2006)          |
| 13    | Benzo(a) pyrene (BaP) (Particulate phase only) | ng/m <sup>3</sup> | <0.1                     | <0.1                     | <0.1                     | <0.1       | 01           | CPCB Manual (NAAQMS/36/2012-13) |

Opinion and Interpretation: Nil

Note:i) Test Reports shall not be reproduced except in full, without written approval of the laboratory

ii) Limit as per CPCB notification, New Delhi, 18th November -2009(NAAQS), for Ambient Air Quality.

Instrument Details:

RDS: Make: LataEnvirotechInstruments :- Model : APM 860, SI.No : 58-DTL-2013 (Calibration Valid up to : 26.05.2020); PM<sub>2.5</sub> : Make: Ecotech Instruments, Model: AAS127 Mini, SI.No:16-D-583(Calibration Valid up to : 28.05.2020)

Observations if any: Nil

Note : Section-II is not covered under NABL scope

Checked by  
N.P.Viswanath  
Head - Lab

Authorized Signatory  
S. Lakuma Devi  
Technical - Manager

\*End of the Report\*

