



HETERO DRUGS LIMITED (UNIT-IX)
Plot No.1, Hetero Infrastructure Ltd. SEZ
N.Narasapuram (Village),
Nakkapalli (Mandal),
Anakapalli (Dist) - 531 081., A.P., INDIA.
Tel : +91 891 2877999, Fax: +91 891 2877740

Letter No: HDL-IX/EHS/APPCB/2023-24/10

30th September 2023

**The Environmental Engineer
Regional Office
Andhra Pradesh Pollution Control Board
Visakhapatnam**

Dear Sir

**Sub : Submission of Environmental Statement in Form-V of M/s Hetero
Drugs Ltd, Unit-IX for the Financial Year 2022-2023 – Regarding**

Ref : APPCB/VSP/220/CFO/HO/2010 Dated 27/09/2022

With reference to above, we are here with submitting the environmental statement in Form-V for the financial year 2022-2023 for your information and perusal.

Kindly acknowledge the receipt of the same.

Thanking You Sir,

Yours Faithfully

For Hetero Drugs Limited, Unit-IX


**S. Kullayi Reddy
Associate Vice President - EHS**

Enclosures: As above



PROFILE

M/s. Hetero Drugs Ltd, Unit IX obtained consent for operation from AP Pollution Control Board vide order No: APPCB/VSP/VSP/220/CFO/HO/2018 dated 31/10/2018 valid up to 31st December 2022 and got CFO amendment order dated 25/06/2019 for manufacturing of Bulk Drugs and its Intermediates. The products are manufactured in two categories i.e. Regular & campaign products. Manufacturing of the same groups is being undertaken as per the consent conditions.

SALIENT FEATURES OF M/s. HETERO DRUGS LTD, UNIT – IX

| | |
|---|-------------------------|
| Total Site Area | 25 Acres |
| Built up Area | 13 Acres |
| Area of Green Belt Developed | 10 Acres |
| Area available for Green Belt Development | 02 Acres |
| Year of Establishment | 2010 |
| Year of Commissioning | 2011 |
| Capital Cost | 156 Crores |
| Type of plant | Bulk Drug Manufacturing |
| Water Consumption | 137.79 KLD |
| Investment on Pollution Control | |
| • Capital Investment | 1400 Lakhs |
| • Recurring O & M | 400 Lakhs/annum |
| Employment | 555 |

Other details:

The required steam for the unit will be supplied from boilers of M/s Hetero infrastructure SEZ Ltd.

1. Sewage Treatment Plant is installed in Hetero Infra for treatment of Domestic waste.
2. Trade effluent is being treated in common Effluent Treatment Plant installed in M/s Hetero infrastructure SEZ Ltd.
3. Hazardous waste is being stored in common waste storage shed.

MINISTRY OF ENVIRONMENT AND FORESTS NOTIFICATION
New Delhi, the 22nd April 1993
(PART II, SECTION 3, SUB-SECTION (1))

"FORM - V"
ENVIRONMENTAL STATEMENT FOR
THE FINANCIAL YEAR ENDING THE 31ST MARCH 2023.

PART – A

Name and address of the owner/
Occupier of the industry, operation
Or process : **J.Sambi Reddy, Director-operations**
7-2-A2, Hetero Corporate,
Industrial Estate
Sanathnagar, Hyderabad -5000082.

Registered Office Address : **M/s. Hetero Drugs Ltd,**
7-2-A2, Hetero Corporate
Industrial Estate
Sanathnagar, Hyderabad -5000082
Tel:3704923/24/25

Works address : **M/s. Hetero Drugs Ltd, Unit-IX,**
Plot No.1, Hetero Infrastrucure SEZ Ltd.,
N.Narsapuram (V),
Nakkapally (Md), Visakhapatnam Dist.

Industry Category : Red.

Production Capacity : 106 TPM (AS Per CFO)

Month and Year of Establishment : 2010.

Date of Last Environmental Statement
Submitted : September-2022

PART - B

Water Consumption Details

| S.No | Water Consumption | Quantity (KL/day) (as per CFO) | Quantity (KL/day) (Actual) |
|--------------|-------------------------------------|-----------------------------------|-------------------------------|
| 1 | Process & Washing | 62.79 | 59.12 |
| 2 | Cooling tower Make up & Boiler Feed | 50.00 | 40.00 |
| 3 | Domestic | 25.00 | 25.00 |
| Total | | 137.79 | 124.12 |

**Indicated the water is inclusive of floor washing and other washings of the plant.

Process Water consumption of production output in KL: Enclosed as **Annexure-I**

Raw material Consumption : Enclosed as **Annexure-II**

PART - C
POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT
(PARAMETER AS SPECIFIED IN THE CONSENT ISSUED)

| Pollutants | Quality of Pollutants discharged (mass/day) | Concentrations of Pollutants discharges (Mass/volume) | Percentage of variation from prescribed standards with reasons. |
|------------------------|---|---|---|
| 1. Ambient Air quality | Analysis reports enclosed at Annexure -III | | Within the limits |
| 2. Stack Emissions | | | |
| 3. Noise levels | | | |
| 4. Effluent | | | |

PART - D
HAZARDOUS WASTE (AS SPECIFIED UNDER HAZARDOUS WASTES/MANAGEMENT AND HANDLING RULES, 2016)

| Hazardous Wastes | Total Quantity in Kgs | |
|-----------------------------------|--|---|
| | During the previous financial Year (2021-22) | During the current financial Year (2022-23) |
| Organic Residue | 483.24 Tons | 426.81T |
| Spent Carbon | 104.43 Tons | 125.42T |
| Process Inorganic waste | 0 Tons | 0T |
| Used Carboys | 73 Tons | |
| Spent solvents | 15668.78 KL | 387.130T |
| Detoxification Liners (LDPE bags) | - | - |
| Waste Oil | NIL | 2.79T |

PART - E
SOLID WASTE

The sources of solid waste generated from the plant are process and fly ash from boiler. Detailed quantities of solid wastes are given below.

| Solid waste | Total Quantity | |
|-------------|--|---|
| | During the previous financial year (2021-2022) | During the current financial year (2022-2023) |
| Boiler ash | (Generated in Hetero Infrastructure SEZ Ltd) | (Generated in Hetero Infrastructure SEZ Ltd) |

Note: The required steam for the unit is being supplied by M/s Hetero Infrastructure SEZ Ltd.

PART - F
CHARACTERIZATIONS (IN TERMS OF COMPOSITION AND QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTES AND THE DISPOSAL PRACTICE ADOPTED THEM

| | |
|---------------------------|---|
| Fly Ash from Boilers | NA |
| Spent Carbon from process | To cement Industries for Co-processing (Incineration) |
| Forced Evaporation salts | NA : (Generated in CETP of M/s Hetero Infrastructure SEZ Ltd) |
| Process Inorganic salts | To TSDF, Parawada for secured land filling |
| Organic Residue | To Cement Industries for Co-processing (Incineration) |

PART- G
IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION.

The industry has adopted following measures for the conservation of natural resources:

- Sea water Desalination Plant for meeting the water requirement of the Industry thereby avoiding the usage of natural resources (ground water of surface water).
- Sewage Treatment Plant for reuse of Domestic wastewater for gardening purposes by avoiding usage of fresh water for gardening purpose.
- Usage of Vermi-compost for Green belt and grounding purpose as a replacement for chemical fertilizers.
- Green belt Development for abatement of pollution.
- Rainwater harvesting by way of collecting the storm water in a pond created by the industry in its premises.
- Hazardous waste which is having higher calorific value is being sent to cement industries as an alternate fuel.
- Initiated selling used salts for authorized recyclers for reuse/recycling purpose.

The Industry adopted all possible measures for controlling the pollution there by conserving the natural environment as listed below:

- Common Effluent Treatment Plants (Stripper, MEE, ATFD Bio-tower & Dual stage aerobic Treatment plant based on ASP) for treatment of trade effluent and sewage treatment plant for treatment of trade effluent in the premises of M/s Hetero Infrastructure SEZ Ltd.
- Scrubbers are installed for the vents of reactor where acidic reactions are being carried for controlling fugitive emissions for abatement of air pollution.
- Constructed all the above ground tanks for the collection and treatment of effluents to avoid chances of ground water/ Soil contamination.
- Adequate stack height has been provided to all DG sets for safe dispersion of pollutants as per CPCB guidelines and all DG sets are provided with acoustic enclosures for abatement of noise pollution.
- Installed online monitoring equipments like CAAQM, Portable VOC meters for measuring organic vapour concentration in and around factory area.
- Thick greenbelt in and around factory premises.

PART - H
**ADDITIONAL INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION INCLUDING
ABATEMENT OF POLLUTION**

The industry has already invested around Rs. 100.00 Crores towards installation of pollution control devices (In Hetero Infrastructure SEZ Ltd) and developed green belt in and around the industry in an area of more than 40% of the total area of the industry. Green belt consists of various plants like Ganuga, Neem, Almond, Silver oak, Plintoform, casurina, Eucalyptus and Conacorpous etc. All installed Pollution control equipments are periodically evaluated and necessary modifications/replacements are being made for improvement in their performances from time to time as and when required irrespective of Budget allocations.

The industry proposed to invest additional amount of Rs 60 crores towards installation of 1 MLD Effluent Treatment plant during this financial year 2021-22 in the premises of M/s Hetero Infrastructure SEZ Ltd.

PART - I
**ANY OTHER PARTICULARS IN RESPECT OF ENVIRONMENTAL PROTECTION AND
ABATEMENT OF POLLUTION.**

- Increasing the greenbelt area by planting more plants.
- Industry is maintaining good housekeeping, mitigating fugitive emissions, reducing spills of raw material by taking all possible measures.
- Solvents are being recovered to the maximum possible extent at the production area itself thereby reducing the organic vapours entry into the atmosphere.
- Installation of dual stage condensers for all reactor vents to avoid escaping of solvent vapours from the reactors.
- Replaced most of the traditional centrifuges & Tray Driers with Agitated Nuetch Filter and Drier (ANFD) for safe and clean operations.
-

CONCLUSION

Hetero Drugs Ltd, Unit - IX is taking all possible measures for the abatement of pollution and also certain steps are in consideration for work improvement and cost reduction. The following are the pollution abatement measures taken by the industry:

1. Taking all steps required to ensure low emission levels, without any prejudice to the quantum of production.
 2. Giving due importance to the greenery and ultimately taken care in abating the pollution.
 3. Rainwater harvesting being carried by collecting rain water in a pond created by the industry
 4. Online instruments for monitoring the pollution levels in and around factory premises.
 5. Regular monitoring of air, water, effluent by Third party once in a month to keep watch on the pollution levels.
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ANNEXURE - I

Water Consumption Data for the Year 2022 – 2023 HDL-IX

| S.No | Name of Products | Process water consumption per unit of product output (TON in KL) | |
|------|--------------------------|--|---|
| | | During the previous financial year- (2021-2022) | During the current financial year (2022-2023) |
| 1 | ACYCLOVIR | 9 | 9 |
| 3 | BUPROPIAN | | 4.3 |
| 4 | CELECOXIB | 8.8 | 8.8 |
| 5 | CINACALCET | 25.96 | 25.96 |
| 6 | CITALOPRAM HBR | 30.66 | 30.66 |
| 7 | DABIGATRAN | 95.86 | 95.86 |
| 8 | DICLOFENAC SODIUM | 1.52 | 1.52 |
| 9 | DICOFENAC DIETHYL AMINE | 10.66 | 10.66 |
| 10 | DIOLAT | 14.9 | 14.9 |
| 11 | ELITRIPTAN | | |
| 12 | ESOMEPROZOLE TIHYDRATE | | 2.15 |
| 13 | FENOFIBRATE | 4.4 | 4.4 |
| 14 | FESOTERODIN FUMARATE | 6 | 6 |
| 15 | FEXOFENADINE HCL | 100 | 100 |
| 16 | GABAPENTIN | 0.83 | 0.83 |
| 17 | LACOSAMIDE | 16.29 | 16.29 |
| 18 | LURASIDONE | 34 | 34 |
| 19 | MEMANTINE HCL | 36 | 36 |
| 20 | METAXALONE | 24.61 | 24.61 |
| 21 | MEXILETINE HYDROCHLORIDE | | 0.15 |
| 22 | MIRABEGRAN | | 2.045 |
| 23 | NABUMETONE | 11.11 | 11.11 |
| 24 | PITAVASTATIN | 36.17 | 36.17 |
| 25 | PRASUGREL | 23.07 | 23.07 |
| 26 | PREGABLIN | 2.45 | 2.45 |
| 27 | RALOXIFENE HCL | 19.55 | 19.55 |
| 28 | RILVRIPINE | 142.8 | 142.8 |
| 29 | RITONAVIR | 17.5 | 17.5 |
| 30 | RIVASTRIGMINE BASE | 13.84 | 13.84 |
| 31 | RIZATRIPTAN | 26.66 | 26.66 |
| 32 | ROSUVASTATIN CALCIUM | 10.71 | 10.71 |
| 33 | RUFINAMIDE | 8.88 | 8.88 |
| 34 | SERTRALINE HCL | 2 | 2 |
| 35 | SEVELAMER | 3.8 | 3.8 |
| 36 | SILIDOSIN | | 0.548 |
| 37 | SODIUM ZIRCONIUM | 33.96 | 33.96 |
| 38 | TOPIRAMATE | 29.4 | 29.4 |
| 39 | VALGANCYCLOVIR | 11.45 | 11.45 |
| 40 | ZAFIRLUCAST | 38.09 | 38.09 |
| 41 | ZOLMITRIPTAN | 20.44 | 20.44 |

ANNEXURE-II

Raw Material Consumption Report From 01.04.2022 to 31.03.2023

| RAW MATERIAL CONSUMPTION | | | | |
|--------------------------|-------------------------|---|-----|----------|
| S.No | Product Name | Raw Material Description | UOM | QTY |
| 1 | ACYCLOVIR | 2 Acetoxy Ethyl Acetoxy Methyl ether (AEA) | KG | 41229.12 |
| | | Guanine (GNN) | KG | 133738.3 |
| 2 | AEA | 1,3 Dioxolane | KG | 175000 |
| 3 | BUPROPIAN | Meta chloro propiophenone(CPP) | KG | 67641.53 |
| 4 | CARBIDOPA | (2S)2AMINO3(3,4DIHYDROXYPHENYL) | KG | 0.3 |
| 5 | CELECOXIB | 2,2,2,-tri fluoro acetic acid (TFA) | KG | 29589.2 |
| | | 4-Sulfo0mido Phenyl Hydrazine Hydrochloride (SPH) | KG | 38305.13 |
| | | 4-Methyl acetophenone (MAP) | KG | 19849.15 |
| 6 | CIOCALCET | (R)-(+)-1-(1-OPHTHYL)ETHYLAMINE (NEA) | KG | 714.02 |
| | | 3-(3-Trifluoromethyl)phenyl)propa0l (TPP) | KG | 926.5 |
| 7 | CITALOPRAM HBR | 5-Cyano phthalide(CPT) | KG | 9.75 |
| | | 4-Florourophenyl magnesium bromide (FMB) | KG | 0 |
| | | 3-(Dimethylamino)propyl-magnesium chloride (DMC) | KG | 37 |
| 8 | DABIGATRAN | n-Hexyl chloroformate (HCF) | KG | 4080.35 |
| | | 3-[(3-amino-4-methylamino-benzoyl)-pyridin-2-yl-amino]-propionic acid ethyl ester (EMP) | KG | 7000.87 |
| | | N-(4-cyano-phenyl)-glycine (CPA) | KG | 4676.44 |
| | | ETHYL 4 CHLORO 3 OXO BUTANOATE | KG | 1250 |
| | | HEXYL AMINO(4AMINOPHENYL)METHYLENECARBA | KG | 0 |
| 9 | DICLOFE0C SODIUM | Chloroacetyl chloride (CAC) | KG | 56237 |
| | | 2,6-dichloro-N- phenyl aniline (DDA) | KG | 116286.3 |
| 10 | DICOFE0C DIETHYL AMINE | Diethyl amine | KG | 1960 |
| 11 | DIVALPROEX SODIUM | DIETHYL ETHOXY METHYLENE MALOOTE (DMM) | KG | 280.6 |
| | | DIETHYL 2,2-DIPROPYLMALOOTE (DDM) | KG | 19500 |
| 12 | ELETRIPTAN | (R)-1-ACETYL -5-(2-PHENYL SULPHONYLETHENYL)-3-(N-METHYL PURROLIDIN-2-YL METHYL)-1H-INDOLE (RAB) | KG | 66 |
| 13 | ESOMEPROZOLE TI HYDRATE | 5-Methoxy-2-(4-methoxy-3,5-Dimethyl- -pyridin-2-yl)methyl thio-1H-benzimidazole (OPS) | KG | 6902.09 |

| | | | | |
|----|--------------------------|--|----|----------|
| 14 | FEBUXOSTATE | Iso Butyl bromide (IBB) | KG | 500 |
| | | Ethyl2-(3-Formyl-4-hydroxyphenyl)-4-methylthizole-5-carboxylate (EMC) | KG | 400 |
| | | 4-Chloro-4-hydroxy benzo phenone (CHB) | KG | 38000 |
| 15 | FESOTERODIN FUMARATE | 2-((R)-3-(Diisopropyl amino)-1-phenyl propyl)-4-(hydroxymethyl)phenol (RDP) | KG | 27.5 |
| 16 | FEXOFEODINE HCL | Azacyclonol (AZC) | KG | 44632.84 |
| | | 4-(4-chloro-1-oxobutyl)-2,2-dimethyl phenyl acetic acid methyl ester (CDP) | KG | 44146.51 |
| 17 | GABAPENTIN | 1, 1-Cyclohexane Diacetic Acid (CDA) | KG | 8000 |
| | | 1, 1-Cyclohexane Diacetic Acid (CDMA) | KG | 29000 |
| 18 | IVACAFTOR PREMIX | 2,4 Di tertbutyl-5-nitrophenyl methyl carbo0te (DNC) | KG | 280.7 |
| | | HPMCAS | KG | 0 |
| 19 | LACOSAMIDE | ACETYL CHLORIDE | KG | 56 |
| | | Benzylamine (BZL) | KG | 15617.5 |
| | | (R)-2((t-butoxy)carbonylamino)3-methoxypropanoic acid (RTC) | KG | 29669.21 |
| 20 | LEVODOPA | L-tyrosine | KG | 2000 |
| 21 | LURASIDONE | (1R,2R)-cyclohexane-1,2-diyl-bis (methylene) dimethane sulfo0te (CDB) | KG | 1400.52 |
| | | 1(1,2-BENZISOTHIAZOLE-3-YL)-PIPERAZONE(BIP) | KG | 938.07 |
| | | (Cis-Exo)-2,3-norbor0ne dicarboximide (BDX) | KG | 759.25 |
| 22 | MEMANTINE HCL | 1,3-Dimethyl adamantane (DIA) | KG | 963.2 |
| 23 | MEXILETINE HYDROCHLORIDE | MONO CHLORO ACETONE (CPO) | KG | 760.2 |
| | | 2,6 XYLENE (DPO) | KG | 800 |
| 24 | MIRABEGRAN | 2-aminothiazol-4-acetic acid(ATA) | KG | 141.2 |
| | | 1-(3-DIMETHYL AMINO PROPYL)-3-ETHYL CARBODIIMIDE MONO HYDROCHLORIDE(EDC HCL) | KG | 312.3 |
| | | ®-2-[(2-(4-AMINOPHENYL)ETHYL)AMINO]-1-PHENYL ETHANOLDIHYDROCHLORIDE (HDA) | KG | 243.1 |
| 25 | NABUMETONE | 2-Acetyl 6 methoxy 0phthalene(AMN) | KG | 999.9 |
| 26 | PITAVASTATIN | Pitavsstatin Acetonide Tetra Butyl Ester(PAT) | KG | 25.035 |
| 27 | PRASUGREL | 5,6,7,7A-Tetra hydro thieno(3,2-c)Pyridine-2(4H)-one HCL (THP) | KG | 0.2 |
| | | Cyclopropyl-2- fluobenzyl carbonyl bromide (CFB) | KG | 0.2 |
| 28 | PREGABLIN | (+)-3-(CarbomoylMethyl)-5-methyl hexanoic acid(CMM) | KG | 100249.7 |
| | | DI METHYL 3-ISOBUTYL PENTAEDIOATE | KG | 23421.28 |

| | | | | |
|----|----------------------|---|----|----------|
| 29 | RALOXIFENE HCL | 4-(2-(1- piperdinyloxy) benzoic acid hydrochloride | KG | 972.07 |
| | | (or) 6-Methoxy-2-[4-methoxy]-benzothiophene (MMB) | KG | 810 |
| 30 | RILPIVIRINE HCL | (E)-3-(4-Amino-3,5-Dimethyl Phenyl)Acrylonitrile HCL(ADH) | KG | 200 |
| 31 | RILVRIPINE | D-CAMPHOR SULPHONIC ACID | KG | 0 |
| | | 2-DICHLORO PYRIMIDINE(DCP) | KG | 205 |
| | | 4-AMINO BENZONITRILE(CO) | KG | 23.5 |
| 32 | RITOOVIR | ((5-Thiazolyl)methyl)-(4-nitrophenyl) carbo0te (or) | KG | 56351.16 |
| | | (2S,3S,5S)-2-Amino-3-hydroxy-5-(t-butyloxy carbonyl amino)-1,6-diphenyl hexane (AHR) | KG | 65630.39 |
| | | N-[Methyl(2-isopropyl-4-Thiazolylmethyl)amino carbonyl]-L-valine | KG | 40119.59 |
| 33 | RIVASTRIGMINE BASE | N-Ethyl N-Methyl carbamoyl chloride | KG | 2479.5 |
| | | 3-Hydroxy acetophenone (HAP) | KG | 5251.12 |
| | | Methane Sulphonyl chloride (MSC) | KG | 12551 |
| 34 | RIZATRIPTAN | 4-Dimethylamino butyraldehyde diethyl acetal (DBD) | KG | 274.9 |
| | | 4-((1H-1,2,4-triazol-1-yl) methyl) benze0mine (TMB) | KG | 216 |
| 35 | ROSUVASTATIN CALCIUM | Tert-butyl 2-((4R,6S)-6-((E)-2-(4-(4-fluorophenyl)-6-isopropyl-2-(N- methylmethane sulfo0mido)Pyrimidin - 5-yl)vinyl)-2,2-dimethyl-1,3-dioxane-4-yl-) acetate (TIN) | KG | 23650.21 |
| 36 | RUFIOMIDE | 2,6-Difluoro benzyl bromide (BMD) | KG | 1986.5 |
| | | Ethyl propiolate (EPL) | KG | 496.9 |
| 37 | SERTRALINE HCL | 4-(3,4-dichlorophenyl)-3,4-dihydro-N-methyl-1-(2H)-Ophthalenimine | KG | 560447 |
| 38 | SEVELAMER | Epichloro hydrine (ECH) | KG | 553.5 |
| | | polly allylamine hydrochloride (PAH) | KG | 10750 |
| 39 | SILDOSIN | (R) - 3-(5-(2-aminopropyl)-7-cyanoindolin-1-yl) propyl benzoate tartrate (ACP) | KG | 154 |
| | | 2-(2-(2,2,2-trifluoroethoxy) phenoxy) ethyl methane sulfo0te (TPE) | KG | 99 |
| 40 | SODIUM ZIRCONIUM | ZIRCONIUM ACETATE solution | L | 39.016 |
| | | sodium silicate solution | L | 0 |
| 41 | TOPIRAMATE | 2, 3:4,5-Bis-O-(1-Methylidene)-B-D-Fructopyranose(BOM) | KG | 6.33 |
| 42 | VALGANCICLOVIR | (S)-3-(benzyloxycarbonyl)-4-isopropyl-2,5-oxazolidinedione(OR)z-valineNCA(ZVN) | KG | 0 |
| | | 1,3-Diacetoxy-2-(acetoxymethoxy)propane (DAA) | KG | 36694 |
| 43 | ZAFIRLUCAST | Lithium hydroxide monohydrate | KG | 47.2 |

| | | | | |
|----|--------------|--|----|--------|
| | | Cyclopentyl chloroformate | KG | 149.61 |
| | | O-Tolue sulphoOmid (OTS) | KG | 124.64 |
| 44 | ZOLMITRIPTAN | S-(4)-(4-Nitro benzyl)-2-Oxazolidinone (NBO) | KG | 65 |



SV ENVIRO LABS & CONSULTANTS
Environmental Engineers & Consultants in Pollution Control

Enviro House, B-1, Block - B, IDA
Autonagar, Visakhapatnam
Phone: 9440338628

Email: info@svenvirolabs.com
(Recognized by GOI, Ministry of Environment & Forests)
(An ISO 9001 Certified and NABET Accredited for EIA)



Ref Code : SVELC/HDL9/23-03/001 **Date** : 21-03-2023
Name and Address : **M/s. HETERO DRUGS LIMITED (UNIT-IX),**
Hetero Infrastructure Limited, N. Narasapuram Village, Nakkapally Mandal,
Visakhapatnam (Dt).

Sample Particulars : Ambient Air Quality

Source of Collection : Near Stores Area

Sample Code : SVELC/23/AAQ/0295

Date and Time of Start : 11-03-2023 10:00 Hr

Duration of Sampling : 24 Hours

Atmosphere Condition : CLEAR SKY

| S.NO | PARAMETER | UNIT | RESULT | METHOD | NAAQ STANDARD |
|------|--|-------------------|--------|------------------|---------------|
| 1 | Particulate Matter – PM ₁₀ | µg/m ³ | 68.5 | IS : 5182 – P-23 | 100 |
| 2 | Particulate Matter – PM _{2.5} | µg/m ³ | 27.1 | IS : 5182 – P-24 | 60 |
| 3 | Sulphur Dioxide – SO ₂ | µg/m ³ | 16.4 | IS : 5182 – P-2 | 80 |
| 4 | Oxides of Nitrogen – NO _x | µg/m ³ | 14.7 | IS : 5182 – P-6 | 80 |

[Signature]
ANALYZED BY



[Signature]
SV ENVIRO LABS & CONSULTANTS



SV ENVIRO LABS & CONSULTANTS
Environmental Engineers & Consultants in Pollution Control

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(Recognized by GOI, Ministry of Environment & Forests)

(An ISO 9001 Certified and NABET Accredited for EIA)



Ref Code : SVELC/HDL9/23-03/002 **Date** : 21-03-2023
Name and Address : **M/s. HETERO DRUGS LIMITED (UNIT-IX)**
Hetero Infrastructure Limited, N.Narasapuram Village,
Nakkapally Mandal, Visakhapatnam (Dt).

Sample Particulars : Ambient Air Quality
Source of Collection : Near D-Block Area
Sample Code : SVELC/23/AAQ/0296
Date and Time of Start : 11-03-2023 10:15 Hr
Duration of Sampling : 24 Hours
Atmosphere Condition : CLEAR SKY

TEST REPORT

| S.NO | PARAMETER | UNIT | RESULT | METHOD | NAAQ STANDARD |
|------|--|-------------------|--------|------------------|---------------|
| 1 | Particulate Matter – PM ₁₀ | µg/m ³ | 66.1 | IS : 5182 – P-23 | 100 |
| 2 | Particulate Matter – PM _{2.5} | µg/m ³ | 25.4 | IS : 5182 – P-24 | 60 |
| 3 | Sulphur Dioxide – SO ₂ | µg/m ³ | 16.1 | IS : 5182 – P-2 | 80 |
| 4 | Oxides of Nitrogen – NO _x | µg/m ³ | 13.8 | IS : 5182 – P-6 | 80 |

any
ANALYZED BY



[Signature]
SV ENVIRO LABS & CONSULTANTS



SV ENVIRO LABS & CONSULTANTS
Environmental Engineers & Consultants in Pollution Control

Enviro House, B-1, Block - B, IDA
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(Recognized by GOI, Ministry of Environment & Forests
(An ISO 9001 Certified and NABET Accredited for EIA)



Ref Code : SVELC/HDL9/23-03/003 **Date** : 21-03-2023

Name and Address : **M/s. HETERO DRUGS LIMITED (UNIT-IX)**
Hetero Infrastructure Limited, N.Narasapuram Village,
Nakkapally Mandal, Visakhapatnam (Dt).

Sample Particulars : Ambient Air Quality

Source of Collection : Near Scrubber Area

Sample Code : SVELC/23/AAQ/0297

Date and Time of Start : 11-03-2023 10:30 Hr

Duration of Sampling : 24 Hours

Atmosphere Condition : CLEAR SKY

TEST REPORT

| S.NO | PARAMETER | UNIT | RESULT | METHOD | NAAQ STANDARD |
|------|--|-------------------|--------|------------------|---------------|
| 1 | Particulate Matter – PM ₁₀ | µg/m ³ | 70.2 | IS : 5182 – P-23 | 100 |
| 2 | Particulate Matter – PM _{2.5} | µg/m ³ | 30.5 | IS : 5182 – P-24 | 60 |
| 3 | Sulphur Dioxide – SO ₂ | µg/m ³ | 15.4 | IS : 5182 – P-2 | 80 |
| 4 | Oxides of Nitrogen – NO _x | µg/m ³ | 13.3 | IS : 5182 – P-6 | 80 |

any
ANALYZED BY



P. K.
SV ENVIRO LABS & CONSULTANTS



**SV ENVIRO LABS & CONSULTANTS Environmental
Engineers & Consultants in Pollution Control**

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(Recognized by GOI, Ministry of Environment & Forests)

(An ISO 9001 Certified and NABET Accredited for EIA)



Ref Code : SVELC/HDL9/23-03/004 **Date** : 21-03-2023

Name and Address : **M/s. HETERO DRUGS LIMITED (UNIT-IX)**
Hetero Infrastructure Limited, N.Narasapuram Village,
Nakkapally, Mandal, Visakhapatnam (Dt).

Sample Particulars : Effluent Analysis

Source of Collection : ETP INLET

Sample Code : SVELC/23/EFF/0298

Date of Collection : 11-03-2023

Date of Receipt : 11-03-2023

TEST REPORT

| S No | Parameter | Unit | Result | Method |
|------|---|------|--------|---|
| 1 | pH | - | 7.56 | |
| 2 | Suspended Solids – SS | mg/l | 180 | APHA 2540-D, 23 rd Ed,2017 |
| 3 | Total Dissolved Solids – TDS | mg/l | 13684 | APHA,2540-C,23 rd Ed, 2017 |
| 4 | Chemical Oxygen Demand – COD | mg/l | 10546 | APHA 5220-B, 23 rd Ed,2017 |
| 5 | BOD 3d 27°C | mg/l | 4425 | IS 3025 Part 44 |
| 6 | Chlorides as Cl ⁻ | mg/l | 3014 | APHA,4500-Cl B,23 rd Ed, 2017 |
| 7 | Oil & Grease | mg/l | 6.2 | APHA,5520-D,5-38,23 rd Ed, 2017 |
| 8 | Sulphide as S | mg/l | 8.34 | APHA,4500S ² D, 23 rd Ed,2017 |
| 9 | Phenolic Compounds (C ₆ H ₅ OH) | mg/l | 0.31 | APHA,5530-C, 23 rd Ed,2017 |
| 10 | Cyanide as CN | mg/l | BDL | APHA,4500-CN E , 23 rd Ed,2017 |
| 11 | Hexavalent Chromium as Cr ⁺⁶ | mg/l | BDL | APHA,3500-Cr B , 23 rd Ed,2017 |
| 12 | Lead as Pb | mg/l | BDL | APHA,3120-B , 23 rd Ed,2017 |

Note: BDL denotes Below Detectable Level


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