HETERO DRUGS LIMITED (UNIT-IX)

Plot No. 1, **HETERO INFRASTRUCTURE LTD.-SEZ**, N. Narasapuram (Vill.), Nakkapalli (Mandal), VISAKHAPATNAM (Dist.) - 531 081, A.P., India. Tel : 0891-2877999, Fax : 0891- 2877740.
E-mail : contact@heterodrugs.com. URL : http//www.heterodrugs.com.

29th September 2021

Letter No: HDL-IX/EHS/APPCB/2021-22/06

The Environmental Engineer
Regional Office
Andhra Pradesh Pollution Control Board
Visakhapatnam

Dear Sir,

Sub: Submission of Environmental statement in Form-V for the year ending 31st March 2021-Regarding.

Reference:

1. CFO of M/s Hetero Drugs Ltd, Unit-IX vide Order NO: **APPCB/VSP/220/CFO/HO/2018-,Date:31.10.2018**
2. CFE of M/s Hetero Drugs Ltd, Unit –IX Vide Order No: **220/PCB/CFE/RO-VSP/HO/2012-1236, Date: 24.05.2013**

With reference to the above, we are herewith submitting Environmental Statement in Form-V for the financial ending 31st March 2021 for your information and perusal.

Kindly acknowledge the receipt.

Thanking You,

Yours Faithfully
For Hetero Drugs Limited, Unit-IX

29/09/2021.

S. Kullayi Reddy
Sr. General Manager- 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 upto 31st December 2023 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:

1. The required steam for the unit will be supplied from boilers Of M/s Hetero infrastructure SEZ Ltd.
2. Sewage Treatment Plant is installed in Hetero Infra for treatment of Domestic waste.
3. Trade effluent is being treated in common Effluent Treatment Plant installed in M/s Hetero infrastructure SEZ Ltd.
4. 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 2021.

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-2020

PART-B

WATER CONSUMPTIONDETAILS

S.No	Water Consumption	Quantity (KL/day) (as per CFO)	Quantity (KL/day) (Actual)
1	Process & Washing	62.79	48
2	Cooling tower Make up & Boiler Feed	50.00	20
3	Domestic	25.00	07
Total		**137.79**	**75**

**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 ofPollutants 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 (Kg.)	
	During the previous financial Year **(2019- 20)**	During the current financial Year **(2020-21)**
Organic Residue	220.93 Tons	283.16 Tons
Spent Carbon	94.88 Tons	126.35 Tons
Process Inorganic waste	20.7 Tons	39.32 Tons
Used Carboys	16066 No's (99.383 Tons) NIL	39877 No's (243.303 Ton's) 43 No's (0.774Tons)
Spent solvents	NIL	1553.034KL
Detoxification Liners (LDPE bags)	NIL	82.950Ton's
Waste Oil	NIL	NIL

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 (2019-2020)	**During the current financial year** (2020-2021)
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 2020-2021

S.NO	Name of Products	Process water consumption per unit of product output (TON in KL)	
		During the previous financial year- (2019-2020)	During the current financial year (2020-2021)
1.	ACYCLOVIR	9	9
2.	BUPROPION HYDROCHLORIDE	7.1	7.1
3.	CELECOXIB PH.EUR	8.9	8.9
4.	CINACALCET HYDROCHLORIDE	26	26
5.	CITALOPRAM HYDROBROMIDE	8	8
6.	DICLOFENAC SODIUM	0.001	0.73
7	DIVALPROEX SODIUM	1	1
8.	DIOLAT	7	7
9.	ELETRIPTAN HBR	38	38
10.	ESOMEPRAZOLE MAGNESIUM	11	11
11.	FENOFIBRATE	4	4
12	FESOTERODINE FUMARATE IH	.....	6
13	FEXOFENADINE HYDROCHLORIDE	3	3
14	GABAPENTIN	0.83	0.83
15	LACOSAMIDE	23	23
16	LOPINAVIR	38	38
17.	LURASIDONE HYDROCHLORIDE	15	15
18	MEMANTINE HCL	36	36.
19.	METAXALONE	24	24
20.	MIRABEGRON	34	34
21.	NABUMETONE USP	11	11
22.	PREGABALIN	25	25
23	RALOXIFENE HCL	19	19
24.	RILPIVIRINE HCL	120	....
25.	RITONAVIR	6	10
26	RIVASTIGMINE BASE	14	14
27.	ROSUVASTATIN CALCIUM	10	10
28.	RUFINAMIDE	9	.....
29.	SERTRALINE HCL	1	2
30.	SEVELAMER CARBONATE	16	16
31.	SILODOSIN	6	.....
32.	VALGANCICLOVIR HCL	104	104
33.	ZOLMITRIPTAN IH	20	20

ANNEXURE - II

Raw material consumption Report From 01.04.2020 to 31.03.2021

S.NO	PRODUCT	RAW MATERIAL CONSUMPTION	UOM	QTY
1	ACYCLOVIR	Tetrabutyl Ammonium Bromide	KG	25730.5
		DIMETHYL AMINE 40% (DMA)	KG	423572.5
		2 Acetoxy Ethyl Acetoxy Methyl ether (AEA)	KG	347969.52
		Guanine (GNN)	KG	165608.57
2	AEA	SULPHURIC ACID - LR GRADE	L	3
		1,3-DIOXALANE (DXN)	KG	10000
3	AZITHROMYCIN	Sodium Acetate Anhydrous	KG	500.1
		EDTA Disodium salt	KG	28
4	BUPROPIAN	TERT.BUTYLAMINE (TBM)	KG	67161
		Bromine	KG	40748.5
		Meta chloro propiophenone(CPP)	KG	36450.5
		Ethyl acetate HCL(12%-15%) (EAH)	L	6329
5	CATALYSTS	5%Palladium on Carbon	KG	987.88
		10%Palladium on Carbon	KG	246.633
		5%Palladium on Calcium Carbonate	KG	1956.974
6	CELECOXIB	SMO Solution (SMO)	KG	56070.25
		2,2,2,-tri fluoro acetic acid (TFA)	KG	40916.1
		4-Sulfonamido Phenyl Hydrazine Hydrochloride (SPH)	KG	54601.02
		4-Methyl acetophenone (MAP)	KG	32992.13
7	CINACALCET	1,4-Dioxane (DIX)	KG	3946.8
		Sodium cyanoboro hydride	KG	272
		Para Toluene Sulphonic Acid	KG	3637.6
		(R)-(+)-1-(1-NAPTHYL)ETHYLAMINE (NEA)	KG	673.9
		3-(3-Trifluoromethyl)phenyl)propanal (TPP)	KG	874.1
8	CITALOPRAM (HBR), DIOLAT RIVASTIGMINE	TETRAHYDRO FURAN (THF)	KG	396841.9
		Ammonium Chloride	KG	5500
		Di isopropyl ether (DIP)	KG	25188
		5-Cyano phthalide(CPT)	KG	2200
		Hydrobromic Acid (HBA)	KG	3263.3
		Phosphoric Acid (PHA)	KG	9676.9
		4-Florourophenyl magnesium bromide (FMB)	KG	15400
		3-(Dimethylamino)propyl-magnesium chloride (DMC)	KG	9592
9	COMMON RAW MATERIAL	ACTIVATED CARBON SC40	KG	278.8
		ACTIVATED CARBON PF511SPL	KG	41050
		Caustic Soda Flakes	KG	173663.59
		Sodium Bicarbonate	KG	70258.5
		Hydrogen Cylinders (HGC)	M3	66690
		Hyflow Super Cell	KG	8752.7
		DI METHYL FORMAMIDE	KG	271603
		Sodium Sulphite	KG	32396.4
		Sodium Sulphite	KG	32396.4
		Sodium Meta Bisulphite	KG	674.1
		Potassium Carbonate	KG	13365.36
		Sodium Boro Hydride	KG	13983
		Silica gel (60-120)	KG	1416.6
		Sodium Carbonate	KG	7330.6
		Vaccum Salt	KG	163760.06
		ACTIVATED CARBON PF511SPL	KG	1000

		Sodium hypochlorite LR Grade (SHL)	L	2391.4
		Genesys LF (GLF)	KG	159.1
		Bleaching Powder	KG	114
		Sulfamic acid	KG	393
		Activated carbon (CAR)	KG	24448.66
10	DABIGATRAN	Methyl Tertiory butyl Ether (MTE)	KG	2872.7
		N,N-CARBONYL DIIMIDAZOLE(CDI)	KG	368.87
		n-Hexyl chloroformate (HCF)	KG	300.44
		Ethyl 3-{[3-amino-4-(methylamino) benzoyl](pyridine-2-yl)amino} propanoate	KG	599.8
		"[(4-cyanophenyl)amino]acetic acid (OR) N-(4-cyano-phenyl)-glycine (CPA)"	KG	400.63
		Methane Sulphonic Acid(LR GRADE) (MSL)	KG	101.106
11	DICLOFENAC POTASIUM	Chloroacetyl chloride (CAC)	KG	41880
		ACETIC ACID ANHYDROUS (AAA)	KG	18430.2
		Potassium Carbonate ANHYDROUS	KG	10310.6
12	DICLOFENAC SODIUM	Alluminium Chloride (Acl)	KG	64505
		Sodium hydro sulphite/sodium di thionite	KG	145.17
		2-Ethoxy ethanol (EEL)	KG	94460.1
		"2,6-Dichlorodiphenyl amine (or) 2,6-dichloro-N- phenyl aniline (DDA)"	KG	84120.07
		Charcoal NoritSX ultra (RMD105)	KG	2753.1
		PERMA CLEAN ACP 115	KG	425.05
		DID	KG	7800.35
13	DICOFENAC DIETHYL AMINE	Diethyl amine (DAM)	KG	364
14	DIOLAT	N Butyl Lithium 15% (NBL)	KG	39480
		Iso Propyl Acetate (IPC)	KG	265783
		Sodium Hydride	KG	3880
		(2E)-3-(3-(4-fluorophenyl)-1-(1-Methylethyl)-1H-Indol-2-YL)-2-Propenal (FIP)	KG	24391.35
		TERTIARY BUTYL ACETO ACETATE (TAA)	KG	14765.45
		Hydrogen peroxide 35% (HPX)	KG	27080.6
		Diethyl Methoxy borane50%in THF (DEM)	KG	8070
15	DIVALPROEX SODIUM	DIETHYL 2,2-DIPROPYLMALONATE (DDM)	KG	700
16	ELETRIPTAN	Hydrobromic Acid(Lr grade) (HBL)	L	28
		(R)-1-ACETYL -5-(2-PHENYL SULPHONYLETHENYL)-3-(N-METHYL PURROLIDIN-2-YL METHYL)-1H-INDOLE (RAB)	KG	243.21
17	ESOMEPROZOLE TI HYDRATE	Caustic potash Flakes	KG	7907
		5-Methoxy-2-(4-methoxy-3,5-Dimethyl- -pyridin-2-yl)methyl) thio-1H-benzimidazole (OPS)	KG	13650.67
		Cumyl hydroperoxide (CHP)	KG	9190
		Magnesium chloride anhydrous	KG	3587
		Titanium IV iso propoxide (TIP)	KG	1018.5
		Diethyl D(-) Tratarate (DDT)	KG	1638
18	FEBUXOSTATE	Sodium Formate	KG	150
		Iso Butyl bromide (IBB)	KG	750
		Ethyl2-(3-Formyl-4-hydroxyphenyl)-4-methylthizole-5-carboxylate (EMC)	KG	500
		4-Chloro-4-hydroxy benzo phenone (CHB)	KG	46500.29
19	FESOTERODIN FUMARATE	Methyl ethyl Ketone (MEK)	KG	74.03
		Di isopropyl amine (DPL)	KG	2.53
		Iso Butryl chloride (IBC)	KG	15.91

20	FEXOFENADINE HCL	Potassium Iodide	KG	645.41
		Methyl Isobutyl Ketone (MIB)	KG	272271.7
		Azacyclonol (AZC)	KG	43902.52
		4-(4- chloro-1-oxobutyl)-2,2-dimetyl phenyl acetic acid methyl ester (CDP)	KG	61380.06
21	GABAPENTIN	TRI ETHYL AMINE (TEA)	KG	12412.79
		UREA	KG	18938.12
		SODIUM HYPOCHLORITE SOLUTION	KG	173632.942
		1, 1-Cyclohexane Diacetic Acid (CDMA)	KG	30000.22
22	IVACAFTOR PREMIX	ANILINE	KG	320.4
		AQUASOLVE HPMC-AS HG	KG	10
23	LACOSAMIDE	Benzylamine (BZL)	KG	2090
		Isobutyl Chloroformate (ICF)	KG	5122.95
		(R)-2((t-butoxy)carbonylamino)3-methoxylpropanoic acid (RTC)	KG	4320.78
24	LEVODOPA	ACETYL CHLORIDE	KG	1344
		"L-ASCORBIC ACID "	KG	14
		L-TYROSIN	KG	2390.3
25	LOPINAVIR (AMROPHOUS)	THIONYL CHLORIDE (TLC)	KG	2004.5
		IMIDAZOLE	KG	4290
		Cyclohexane (CHX)	KG	20746.5
		2S-(1-tetrahydro-pyrimid-2-onyl)-3-methylbutanoic acid (TPM)	KG	1216.51
		"(2s,3s,5s)-2-(2,6-dimethyl phenoxyacetyl)amino-3-hydroxy-5-amino-1,6-diphenyl hexane (DPH)"	KG	1516.32
26	LUMACAFTOR	DCA	KG	2
27	LURASIDONE	"(1R,2R)-cyclohexane-1,2-diyl-bis (methylene) dimethane sulfonate (CDB)"	KG	420.1
		1(1,2-BENZISOTHIAZOLE-3-YL)-PIPERAZONE(BIP)	KG	302.57
		(Cis-Exo)-2,3-norbornane dicarboximide (BDX)	KG	222.7
28	MEMANTINE HCL	ACETONITRILE (CAN)	KG	44183.3
		Sodium Bicarbonate	KG	2314
		Mono ethylene glycol (MEG)	KG	2448
		1,3-Dimethyl adamantane (DIA)	KG	729
29	MEXILETINE HYDROCHLORIDE	1- CHLORO ACETONE (CPO)	KG	380
		RANEY NICKEL	KG	100
		2,6 XYLENE (DPO)	KG	400
		HYDROXYL AMINE HCL	KG	228
		Di Potassium phosphate	KG	1380.2
30	MIRABEGRAN	2-(2-aminothiazol-4-yl)acetic acid (ATA)	KG	0.2
31	NABUMETONE	Sodium methoxy powder(SMO POWDER)	KG	1600
		2-Acetyl 6 methoxy naphthalene(AMN)	KG	4000
32	PITAVASTATIN	Pitavsstatin Acetonide Tetra Butyl Ester(PAT)	KG	36.1
33	Prasugrel HCl	5,6,7,7A-Tetra hydro thieno(3,2-c)Pyridine-2(4H)-one HCL (THP)	KG	1.2
		Cyclopropyl-2- flurobenzyl carbonyl bromide (CFB)	KG	4.4
34	PREGABLIN	R-(+)alpha methyl benzyl amine (MBA)	KG	4615.4
		(+)-3-(CarbomoylMethyl)-5-methyl hexanoic acid(CMM)	KG	53914.88
		ADDZYEM 70	KG	2310.05
35	RALOXIFENE HCL	1-PROPANETHIOL (PPT)	KG	399.09
		4-(2-(1- piperdinyl)ethoxy) benzoic acid hydrochloride	KG	918.26
		6-Methoxy-2-[4-methoxy phenyl]-benzothiophene	KG	766.65

36	RILPVIRINE	2-DICHLORO PYRIMIDINE(DCP)	KG	200.28
		(E)-3-(4-Amino-3,5-Dimethyl Phenyl)Acrylonitrile HCL(ADH)	KG	130.2
		N,N-DI Isopropyl Ethyl amine (NND)	KG	1775.38
		4-AMINO BENZONITRILE(CNA)	KG	7.5
37	RISODRONATESODIUM	Fumaric acid	KG	62.9
38	RITONAVIR PREMIX	4- Dimethyl Amino Pyridine	KG	492.04
		Citric Acid Monohydrate	KG	2934
		1-Hydroxybenzotriazole hydrate (HBT)	KG	3607
		N- Hepatane (NHP)	KG	50420.5
		N-methyl morpholine (NMM)	KG	5486.45
		((5-Thiazolyl)methyl)-(4-nitrophenyl) carbonate	KG	8279.57
		(2S,3S.5S)-2-Amino-3-hydroxy-5-(t-butyloxy carbonyl amino)-1,6-diphenyl hexane (AHH)	KG	8641.37
		N-[Methyl(2-isopropyl-4-Thiazolylmethyl)amino carbonyl]-L-valine	KG	4898.47
		COPOVIDONE	KG	350.95
		ABSOLUTE ALCOHOL	L	556097
		Colloidal silicon dioxide	KG	0.656
		Sorbitan monolauratate (SPN)	KG	38.403
		COPOVIDONE USP/NF (PLASDONE S 630)	KG	36.31
39	RIVASTIGMINE	3-Hydroxy acetophenone (HAP)	KG	4534.8
		L(+)Tartaric Acid	KG	1000
		Hydrochloric Acid (CP)	KG	2124
		N-Ethyl N-Methyl carbamoyl chloride (NEM)	KG	1744.66
		Methane Sulphonic Acid (MSA)	KG	40.8
		Methane Sulpfonyl chloride (MSC)	KG	4643
		Sodium Sulphate	KG	2920
		Tetraethyl Ammonium chloride	KG	624
		AVESTA (630)	KG	177
		1-amino-2hydroxy indane(AMH)	KG	380
		(S)-3-(1-(Dimethyl amino)Ethyl)Phenol(DML-II)	KG	1372.9
		AVESTA (410)	KG	97.5
40	RIZATRIPTAN	Benzoic acid	KG	38.7
		4-Dimethlyamino butyraldehyde diethyl acetal (DBD)	KG	173.05
		4-((1H-1,2,4-triazol-1-yl) methyl) benzenamine (TMB)	KG	198.52
41	ROSUVASTATIN CALCIUM	CALCIUM CHLORIDE FUSED EP	KG	1000
		Calcium Chloride Anhydrous	KG	13964.42
		Cyclohexylamine (CHA)	KG	3773.4
		Tert-butyl 2-((4R,6S)-6-((E)-2-(4-(4-flurophenyl)-6-isopropyl-2-(N- methylmethane sulfonamido)Pyrimidin - 5-yl)vinyl)-2,2-dimethyl-1,3-dioxane-4-yl-) acetate (TIN)	KG	17899.46
42	RUFINAMIDE	HEXANES	L	5236.15
		Formic acid (FAC)	KG	1446
		Sodium Azide	KG	337.7
		"2-(bromo methyl)-1,3-difluorobenzene (or) 2,6-Difluro benzyl bromide (BMD)"	KG	835
		Ethyl propiolate (EPL)	KG	336.2
		HYPROMELLOSE HYPROMELLOSE USP	KG	315
43	SERTRALINE HCL	D(-)Mandelic Acid	KG	41600
		5% PD ON CALCIUM CARBONATE	KG	850
		4-(3,4-dichlorophenyl)-3,4-dihydro-N-methyl-1-(2H)-Naphthalenimine	KG	340986.71

		10% PD ON CARBON	KG	434.38
44	SEVELAMER	Carbon dioxide cylinders(COC) Co2 Cylinders	KG	436
		Epichloro hydrine (ECH)	KG	108.2
		Polly allylamine hydrochloride (PAH)	KG	2800.1
45	SILDOSIN	Di Methyl sulphoxide (DMO)	KG	86105
		Hydrogen peroxide 50% (HGP)	KG	24
		(R) - 3-(5-(2-aminopropyl)-7-cyanoindolin-1-yl) propyl benzoate tartrate (ACP)	KG	168.26
		2-(2-(2,2,2-trifluoroethoxy) phenoxy) ethyl methane sulfonate (TPE)	KG	108.17
		2 Butanol (BTL)	KG	338.92
46	SIVILAMIR	6-Bromo hexyl (trimethyl)ammonium bromide(BTA)	KG	60
47	SOLVENTS	ACETONE	KG	1315640.647
		C.S.LYE	KG	173638.018
		ACETIC ACID	KG	145357.41
		ETHYLE ACETATE	KG	2209713.168
		HCL	KG	1121309.18
		ISO PROPYL ALCOHOL	KG	1600367.276
		LIQUOR AMMONIA	KG	693382.76
		METHYLENE CHLORIDE	KG	1859260.68
		ACETIC ANHYDRIDE (ACH)	KG	500504.346
		N-BUTANOL	KG	258765.14
		SULPHURIC ACID(C.P)	KG	50542.461
		CHLOROFORM	KG	575451.852
		TOLUENE	KG	923099.378
		METHANOL	KG	4410290.473
48	TOPIRAMATE/SAXAGLIPTON	2, 3:4,5-Bis-0-(1-Methylidene)-B-D-Fructopyranose(BOM)	KG	500.05
		SULPHURYL CHLORIDE (SFC)	KG	3519.68
		PYRIDINE (PDN)	KG	352
49	VALGANCYCLOVIR HCL	TRIMETHYL ORTHOACETATE (TMOA)	KG	19831.03
		TRIMETHYL SILYL CHLORIDE (TCS)	KG	8092
		N,O-Bis(trimethylsilyl)-acetamide (NBA)	KG	1093.96
		Carbobenzyloxy-L-Valine (CBV)	KG	46756.25
		Hexa Methyl diSilazane (HMD)	KG	145928.6
		N,N-Dicyclohexyl carbodimide (DCC)	KG	18177.14
		Ammonium Sulfate	KG	7623.1
		(S)-3-(benzyloxycarbonyl)-4-isopropyl-2,5-oxazolidinedione	KG	8700.55
		1,3-Diacetoxy-2-(acetoxt mthoxy)propane (DAA)	KG	47882.23
		QUADRASIL	KG	78.1
50	ZAFIRLUCAST	Lithium hydroxide monohydrate	KG	41.3
		Silica gel (100-200MESH)	KG	632
		Methyl4-((5-amino-1-methyl-1H-Indol-3-yl)methyl)-3hydroxy benzoate (MAB)	KG	238
		CYCLOPENTYL CHLOROFORMATE	KG	130.97
		O-Tolue sulphonamide (OTS)	KG	109.06
51	ZOLMITRIPTAN\RIZATRIPTAN	S-(4)-(4-Nitro benzyl)-2-Oxazolidinone (NBO)	KG	1.92
		Sodium Nitrate	KG	88

ANNEXURE-III

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(An ISO 9001 Certified and NABET Accredited for EIA)

Ref Code	: SVELC/HDL9/21-08/001	Date : 20-08-2021
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/21/AAQ/855	
Date and Time of Start	: 10-08-2021 09:15 Hr	
Duration of Sampling	: 24 Hours	
Atmosphere Condition	: CLEAR SKY	

S.NO	PARAMETER	UNIT	RESULT	METHOD	NAAQ STANDARD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	64.2	IS : 5182 – P-23	100
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	26.4	IS : 5182 – P-24	60
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	18.0	IS : 5182 – P-2	80
4	Oxides of Nitrogen – NO_x	$\mu g/m^3$	15.8	IS : 5182 – P-6	80

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An ISO 9001:2008 Organization

Q.C

Ref Code	: SVELC/HDL9/21-08/002	**Date : 20-08-2021**
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/21/AAQ/856	
Date and Time of Start	: 10-08-2021 09:30 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}	$\mu g/m^3$	65.8	IS : 5182 – P-23	100
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	24.6	IS : 5182 – P-24	60
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	15.4	IS : 5182 – P-2	80
4	Oxides of Nitrogen – NO_x	$\mu g/m^3$	13.1	IS : 5182 – P-6	80

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Ref Code	:	SVELC/HDL9/21-08/003	Date : 20-08-2021
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/21/AAQ/857	
Date and Time of Start	:	10-08-2021 09:45 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}	$\mu g/m^3$	67.4	IS : 5182 – P-23	100
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	25.8	IS : 5182 – P-24	60
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	17.2	IS : 5182 – P-2	80
4	Oxides of Nitrogen – NO_x	$\mu g/m^3$	14.6	IS : 5182 – P-6	80

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Ref Code	:	SVELC/HDL9/21-08/004	Date : 20-08-2021
Name and Address	:	**M/s. HETERO DRUGS LIMITED (UNIT-IX)** Hetero Infrastructure Limited, N.Narasapuram Village, Nakkapally Mandal, Visakhapatnam (Dt).	
Sample Particulars	:	Stock Monitoring	
Source of Collection	:	1010 KVA DG SET	
Sample Code	:	SVELC/21/SE/858	
Date and Time of Start	:	10-08-2021 10:00 Hr	
Duration of Sampling	:	30 MINS	

TEST REPORT

STACK DETAILS

S No	Description	Unit	Result
1	Pitot Coefficient	-	0.87
2	Specific Gravity of Fluid	-	1.0
3	Temperature @ DGM	°C	31
4	Stack Temperature	°C	212
5	Nozzle Diameter	mm	10
6	Exit Velocity	m/sec	16.2
7	Duration of Sampling	minutes	30
8	Fuel Used	-	HSD

EMISSION DATA

S.No	Parameter	Unit	Result	Method	Standard
1	Particulate Matter – PM	mg/nm^3	60.3	IS:11255 – P-1	115
2	Sulphur Dioxide – SO_2	mg/nm^3	32.8	IS:11255 – P-2	-
3	Oxides of Nitrogen – NO_x	mg/nm^3	45.6	IS:11255 – P-7	-

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Ref Code	: SVELC/HDL9/21-08/007	Date : 20-08-2021
Name and Address	: **M/s. HETERO DRUGS LIMITED (UNIT-IX)** Hetero Infrastructure Limited, N.Narasapuram Village, Nakkapally Mandal, Visakhapatnam (Dt).	
Sample Particulars	: Stack Monitoring	
Source of Collection	: 1250 KVA DG SET	
Sample Code	: SVELC/21/SE/861	
Date and Time of Start	: 10-08-2021 10:45 Hr	
Duration of Sampling	: 30 MINS	

TEST REPORT

STACK DETAILS

S.No	Description	Unit	Result
1	Pitot Coefficient	-	0.87
2	Specific Gravity of Fluid	-	1.0
3	Temperature @ DGM	°C	33
4	Stack Temperature	°C	221
5	Nozzle Diameter	mm	10
6	Exit Velocity	m/sec	16.8
7	Duration of sampling	minutes	30
7	Fuel Used	-	HSD

EMISSION DATA

S.No	Parameter	Unit	Result	Method	Standard
1	Particulate Matter – PM	mg/nm^3	60.5	IS:11255 – P-1	115
2	Sulphur Dioxide – SO_2	mg/nm^3	28.6	IS:11255 – P-2	-
3	Oxides of Nitrogen – NO_x	mg/nm^3	40.8	IS:11255 – P-7	-

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Ref Code	:	SVELC/HDL9/21-08/005	Date : 20-08-2021
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/21/EFF/859	
Date of Collection	:	10-08-2021	
Date of Receipt	:	10-08-2021	

TEST REPORT

S No	Parameter	Unit	Result	Method
1	pH	-	7.46	APHA 4500-H+B, 23rd
2	Suspended Solids, SS	mg/l	192	APHA 2540-D, 23rd Ed,2017
3	Total Dissolved Solids, TDS	mg/l	13961	APHA,2540-C,23rd Ed, 2017
4	Chemical Oxygen Demand(COD)	mg/l	11416	APHA 5220-B, 23rd Ed,2017
5	BOD 3d 27^{0}C	mg/l	4558	IS 3025 Part 44
6	Chlorides as Cl^-	mg/l	2977	APHA,4500-Cl B,23rd Ed, 2017
7	Oil & Grease	mg/l	9.5	APHA,5520-D,5-38,23rd Ed, 2017
8	Sulphide as S	mg/l	8.6	APHA,4500S^2 D, 23rd Ed,2017
9	Phenolic compounds (C_6H_5OH)	mg/l	0.32	APHA,5530-C, 23rd Ed,2017
10	Cyanide as CN	mg/l	BDL	APHA,4500-CN^- E , 23rd Ed,2017
11	Hexavalent chromium as Cr^{+6}	mg/l	BDL	APHA,3500-Cr B , 23rd Ed,2017
12	Lead as Pb	mg/l	BDL	APHA,3120-B , 23rd Ed,2017

Note: BDL denotes Below Detectable Level

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Ref Code	: SVELC/HDL9/21-08/006	Date : 20-08-2021
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 OUTLET	
Sample Code	: SVELC/21/EFF/860	
Date of Collection	: 10-08-2021	
Date of Receipt	: 10-08-2021	

TEST REPORT

S No	Parameter	Unit	Result	Method	Standard
1	pH	-	7.40	APHA 4500-H+B, 23rd Ed,2017	5.5-9.0
2	Suspended Solids, SS	mg/l	16	APHA 2540-D, 23rd Ed,2017	100
3	Total Dissolved Solids, TDS	mg/l	1732	APHA,2540-C,23rd Ed, 2017	-
4	Chemical Oxygen Demand(COD)	mg/l	186	APHA 5220-B, 23rd Ed,2017	250
5	BOD 3d 27^{0}C	mg/l	70	IS 3025 Part 44	100
6	Chlorides as Cl^-	mg/l	406	APHA,4500-Cl B,23rd Ed, 2017	1000
7	Oil & Grease	mg/l	2.3	APHA,5520-D,5-38,23rd Ed, 2017	10
8	Sulphide as S	mg/l	0.15	APHA,4500S^2 D, 23rd Ed,2017	2.0
9	Phenolic compounds (C_6H_5OH)	mg/l	0.06	APHA,5530-C, 23rd Ed,2017	1.0
10	Cyanide as CN	mg/l	BDL	APHA,4500-CN^- E , 23rd Ed,2017	0.2
11	Hexavalent chromium as Cr^{+6}	mg/l	BDL	APHA,3500-Cr B , 23rd Ed,2017	0.1
12	Lead as Pb	mg/l	BDL	APHA,3120-B , 23rd Ed,2017	0.1

Note: BDL denotes Below Detectable Level

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