CIN : U24110AP1989PLC009723

HETERO LABS LIMITED (UNIT-IX)

Plot No. 2, HETERO INFRASTRUCTURE LTD.-SEZ , N. Narasapuram (Vill.), Nakkapally (Mandal),
VISAKHAPATNAM (Dist.) - 531 081, A.P., India. Tel : +91-891-2877999, Fax : +91-891-2877933
E-mail : contact@heterodrugs.com. URL : http//www.heterodrugs.com.

29th September 2021

Letter No: HLL-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 Labs Ltd, Unit-IX vide Order NO:
   APPCB/ZVSP\VSP/221/CFO/HO/2020-,Date:29.03.2020
2. CFE of M/s Hetero Labs Ltd, Unit –IX Vide Order No:
   221/APPCB/CFE/RO-VSP/HO/2012, Date: 01.10.2019

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 Labs Limited, Unit-IX

25/09/2021

S. Kullayi Reddy
Sr. General Manager- EHS

Enclosures : As above

PROFILE

M/s. Hetero Labs Ltd, **Unit IX** obtained consent for operation (change of product mix) from A.P Pollution Control Board vide order no. APPCB/VSP/VSP/221/CFO/HO/2020 Dated 29/03 /2021 valid upto 31st December 2023 for manufacturing of Bulk Drugs and its Intermediates. The products are manufactured in two categories i.e. is Regular and Campaign products. Manufacturing of the same groups is being undertaken as per the consent conditions.

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

Total Site Area	65 Acres
Built up Area	35 Acres
Area of Green Belt Developed	20 Acres
Area available for Green Belt Development	10 Acres
Year of Establishment	2010
Year of Commissioning	2011
Capital Cost	326 Crores
Type of plant	Bulk Drug Manufacturing
Water Consumption	246.13 KLD
Investment on Pollution Control	
• Capital Investment	1000 Lakhs
• Recurring O & M	200 Lakhs/annum
Employment	2000

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		**C. Mohan Reddy, Director-operations** 7-2-A2, Hetero Corporate, Industrial Estate Sanathnagar Hyderabad -5000082.
Registered Office Address	:	**M/s. Hetero Labs Ltd,** 7-2-A2, Hetero Corporate Industrial Estate Sanathnagar Hyderabad -5000082 Tel:3704923/24/25
Works address	:	**M/s. Hetero Labs Ltd, Unit-IX,** Plot No.2 & 3 Hetero Infrastrucure SEZ Ltd., N.Narsapuram (V), Nakkapally (M), Visakhapatnam Dist.
Industry Category	:	Red.
Production Capacity	:	258 TPM (**As Per CFO**)
Month and Year of Establishment	:	2010.
Date of Last Environmental Statement Submitted	:	September-2020

PART-B

Water and Raw Material Consumption

S.NO	Purpose	As per CFO Quantity(KLD)	Actual Consumption KL/Day
1.	Process & Washing	101.13	75
2.	Boiler feed	50.00	38
3.	Cooling Towers	70.00	62
4.	Domestic	25.00	13
	Total	246.13	188

Indicates there is no water for the boiler as the required steam is being met from the boilers of M/s Hetero Infrastructure SEZ ltd.

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/ MANAGEMENT AND HAZARDOUS WASTE (AS SPECIFIED UNDER HANDLING RULES-2016)

Hazardous Wastes	Total Quantity (Kg.)	
	During the previous financial Year(**2019-2020**)	During the current financial Year(**2020-2021**)
Organic Residue	656.84 Tons	266.84 Tons
Spent Carbon	388.57 Tons	370.82 Tons
Process Inorganic waste	48.4 Tons	158.85 Tons
Used carboys-HDPE Drums	24219 No's (155.814 Tons)	21819 No's 160.587 (Tons)
Used carboys-MS Drums	13936 No's (209.346 Tons)	21878 No's 334.613 (Tons)
Detoxification Liners (LDPE bags)	NIL	53.030 Tons
Waste Oils	.....	16.060 KL

PART-E
SOLID WASTES

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 (T/Annum)	
	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
CHARACTERISTICS INTERMS OF COMPOSITION AND QUANTUM OF HAZARDOUS AS WELL AS SOLID WASTES AND THE DISPOSAL PRACTICES ADOPTED BY 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 (either ground water or 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 gardening purpose as a replacement for chemical fertilizers.
- Green belt Development for abatement of pollution.
- Rain water 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 Plant (Stripper, MEE, ATFD Bio-tower & Dual stage aerobic Treatment plant based on ASP) for treatment of trade effluent and sewage treatment plant for the treatment of Domestic wastewater 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 equipment like CAAQM and VOC meters for measuring pollutants in and around factory premises.

- 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 crore towards installation of new 1 MLD Effluent Treatment plant during this financial year 2021-22.

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 Labs 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. Utilization of domestic waste water discharges for development of greenery after treatment in STP.
3. Giving due importance to the greenery and ultimately taken care in abating the pollution.
4. Rainwater harvesting being carried by collecting rain water in a pond created by the industry
5. Online instruments for monitoring the pollution levels in and around factory premises.
6. 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	Water Consumption Per Ton In KI (During The Financial Year(2019-2020)	Water Consumption Per Ton In KL (During The Financial Year(2020-2021)
1.	Abacavir sulfate	3	3
2.	Atazanavir sulfate	28	28
3.	Atorvastatin calcium usp	23	23
4.	Darunavir ethanolate	17	17
5	Dolutegravir	NIL	21
6	Efavirenz	22	22
7	Etravirine	16	16
8	Levetiracetam	4	4
9	Lopinavir	76	NIL
10	Nevirapine	21	21
11	Quetiapine fumarate usp	10	10
12	Ritonavir	NIL	5.79
13	Tenofovir disoproxil fumarate	29	29
14	Valsartan	NIL	NIL
15.	Zidovudine	12.4	12.4

ANNEXURE-II

RAW MATERIAL CONSUMPTION REPORT FROM 01.04.2020 TO 31.03.2021

S.no	Product	Raw Material	Uom	Qty
1	Abacavir Sulfate	Anhydrous hcl gas cylinders	Kg	11,008.00
		Triethyl ortho formate	L	1,26,266.31
		Sulphuric acid (lr)	L	3,137.00
		Glutaric acid	Kg	5,185.00
		(1s,4r)-4-amino-2-cyclopentene-1-methanol-d-(+)-tartaric acid salt	Kg	11,773.94
		N-(2-amino-4,6-dichloro-pyrimidin-5yl) formamide	Kg	36,365.30
		(1s,4r)-4-amino-2-cyclopentene-1-methanol-hydrochloride (rml197)	Kg	19,351.00
2	Atazanavir Sulfate	1-hydroxy benzo triazole	Kg	2,374.00
		Methyl chloro formate	L	2,354.16
		Phosphoric acid	Kg	39,619.00
		L-tertiary leucine	Kg	1,176.00
3	Atrovastatin	Morpholine	Kg	680
		Tetra butyl ammonium hydrogen sulphate	Kg	675
		Raney nickel catalyst (active)	Kg	400
		Calcium acetate	Kg	228
		Pivalic acid	Kg	228
		(±)-4-flouro-?-(2-methyl-1-oxopropyl)-y-oxo-n,?-diphenyl benzene butaneamide	Kg	3,200.00
		(4r-cis)-1,1-dimethyl ethyl-[6-cynomethyl-2,2-dimethyl-1,3-dioxan]-4-acetate	Kg	2,000.00
4	Atzanavir	Sodium di hydrogen ortho phosphate 1-hydrate	Kg	397
		Dnh	Kg	1,452.40
		1-[4-(pyridin-2-yl)phenyl)-5-(s)-2,5-bis[(tert-butoxy-carbonyl)-amino]-4(s)-hydroxy-6-phenyl-2-azahexane	Kg	1,584.30
5	BDH PURE	Benzyl chloride	Kg	1,86,813.00
		Di tertiary butyl dicarbonate	Kg	25,202.00
		L-Phenyl alanine	KG	34,201.00
		2,2,2-Trifluoroacetic acid	KG	54,378.50
		(2s,3s,5s)-2-amino-3-hydroxy-5-(t-butyloxycarbonylamino)-1,6-diphenyl hexane	Kg	2,100.80
		Sodamide	KG	20,525.00
		5%Palladium Carbon(50%wet)	KG	795.3
6	Darunavir ~~Dhruvinar~~	Acetonitrile	L	25,642.00
		Mono methyl amine in water	Kg	165.5
		Lithium boro hydride	Kg	5,708.57
		2 methyl 2 butanol	Kg	14,959.00
		2,5-dioxopyrrolidin-1-yl ((3r,3as,6ar)-hexahydrofuro [2,3-b] furan-3-yl) carbonate	Kg	2,862.50
		4-amino-n-(2r,3s) (3-amino-2-hydroxy-4-phenyl-butyl)-n-isobutyl-benzene sulfonamide	Kg	5,283.91
		4-amino-n-(2r,3s) -3-amino-2-hydroxy-4-phenyl-butyl)-n-isobutyl benzene sulfonamide	Kg	1,081.60

		(3r,3as,6ar)-hexahydrofuro[2,3-b] furan-3-yl(4-nitrophenyl)carbonate (hnc)	Kg	1
7	Dolutegravir	Methane Sulfonic acid	KG	54,379.50
		Tertiary butyl methyl ether	L	2,91,806.00
		[(2,4-difluorophenyl) methyl] amine	Kg	7,051.00
		(4r,12as)-7-methxoy-4-methyl-6, 8-dioxo-3,4,6,8,12,12a-hexahydro- 2h-pyrido[1',2'4,5]pyrazino [2,1-b] [1,3] oxazine-9- carboxilic acid	Kg	14,101.70
8	Efavirenz	Ethylene dibromide	Kg	1,153.20
		Citric acid mono hydrate	Kg	4,16,542.00
		2,2,2-trifluoroethanol	Kg	54,202.00
		Sodium bicarbonate	Kg	5,73,063.40
		Tetrahydrofuran	L	5,63,715.50
		Cyclopropyl acetylene	Kg	57,662.00
		Magnesium metal turnings	Kg	38,486.00
		Sodium hydride	Kg	73,990.00
		Iodine	Kg	50.005
		(1r,2s) n-pyrrolidinyl norephedrine base	Kg	4,538.00
		N-butyl chloride	Kg	71,793.00
		Btmc	Kg	84,870.00
		Zinc chloride	Kg	1,06,675.00
		4-chloro-2-trifluoroacetylaniline hydrochloride hydrate	Kg	1,363.00
		4-chloro-2-trifluoroacetylaniline hydrochloride hydrate	Kg	2,14,877.00
9	Emtricitabine	(2r,5s)-5-(4-amino-5-fluro-2-oxo-2h-pyrimidin-1-yl)-[1,3] oxathiolane-2-carboxylic acid (1r,2s,5r)-menthyl ester	Kg	1,49,216.00
10	ERT	IP HCL	L	3,772.00
11	Escitalopram	Methane sulphonyl chloride	Kg	578
		Di-p-toluoyl-d-tartaric acid	Kg	33
		4-(4-dimethylamino)-1-(4-fluorophenyl)-1-(hydroxybutyl)-3-(hydroxyl methyl)-benzonitrile hydrobromide.	Kg	3,600.00
12	Etravirine premix	1,4-dioxane	Kg	4,839.60
		Bromine liquid	Kg	75.5
		Hydroxy propyl methyl cellulose	Kg	310
		4-(4,6-dichloropyrimidin-2-yl amino) benzonitrile	Kg	226.345
		4-hydroxy-3,5-dimethyl benzonitrile	Kg	135.6
		Hydroxy propyl methyl cellulose.	Kg	110
13	Gabaprntine	Urê	KG	600
		1,1-cyclohexane diacetic acid	Kg	1,000.00
14	General	Anhydrous liquor ammonia gas cylinders	Kg	2,45,250.00
		C s flakes	Kg	1,86,301.19
		Hydrogen gas	M3	5,934.50
		Hyflo supercel	Kg	31,471.00
		Sodium meta bisulphite	Kg	6,122.20
		Sodium hypo chlorite solution	L	12,479.90
		Ferrous sulphate	Kg	135.5
		Activated carbon	Kg	1,18,616.10
		Genesys lf	L	2,838.13
		Bleaching powder/calcium hypochlorite	Kg	117
		Helium (gc) cylinders	M3	602
		Hydrogen (gc) cylinders	M3	1,197.00

		Iolar nitrogen cylinders	M3	3,437.00
		Zero air (gc) cylinders	M3	5,341.00
		Sterillium 5 ltr	L	4.00
		Dettol liquid 5 ltr pack	L	1,363.00
		Savlon 1 lit	Pc	6,717.00
15	Hpcq	4,7-dichloro quinoline(ksm)	Kg	1,201.00
		2-((4-Aminophenyl)(ethyl)amino)ethanol(HYDROXYNOVOLDI AMINE)(KSM)	KG	1,701.00
16	Hpp Lopinavir	N.n dimethyl acetamide	L	217
		L-pyroglutamic acid	Kg	450.2
17	Hydroxy chloroquine sulfate	Hydroxy chloroquine sulfate	Kg	36.6
		2-((4-Aminophenyl)(ethyl)amino)ethanol(HYDROXYNOVOLDI AMINE)(KSM)	KG	100.5
18	Lamivudine	Dipotassium phosphate	Kg	14,11,93
		Salicylic acid	Kg	1,58,597.00
		Sodium borohydride	Kg	3,31,460.00
		(2r-cis)–5-(4-amino-1, 2-dihydro-2-oxo-1-pyrimidinyl)-1,3-oxathiolane-2-carboxylic acid (2s, 5r)-menthyl ester	Kg	12,52,751.00
		(1r,2s,5r)-2-isopropyl-5-methylcyclohexy	Kg	3,01,250.00
19	Levetiracetam	4-chloro butyryl chloride	Kg	3,66,960.32
		S-(+)-2-amino butyramide hydrochloride	Kg	3,33,600.00
		Potassium hydroxide powder(rml084)	Kg	2,03,270.00
		Abhcl(rml213)	Kg	1,200.00
20	Lopinavir	Sodium bisulphite	Kg	19
		N,n-carbonyl diimidazole	Kg	14,514.90
		2s-(1-tetrahydro-pyrimid-2-onyl)-3-methyl butanoic acid	Kg	4,525.30
		(2s,3s,5s)-2-(2,6-dimethyl phenoxyacetyl) amino-3-hydroxyl -5-amino-1,6-diphenyl hexane	Kg	8,736.50
		2S-(1-Tetrahydro-pyrimid-2-onyl)-3-methyl butanoic acid	KG	1,550.00
		(2s)-n-[(2s,4s,5s)-5-[[2-(2,6-dimethylphenoxy)acetyl]amino]-4-hydroxy-1,6-diphenylhexan-2-yl]-3-methyl-2-(2-oxo-1,3-diazinan-1-yl)butanamide	Kg	4,800.00
21	Nevirapine	Cyclopropyl amine	Kg	23,918.54
		Dimethyl formamide	L	1,48,423.98
		Calcium oxide	Kg	6,601.00
		2-chloro-n-(2-chloro-4-methyl-3-pyridinyl)-3-pyridine carboxamide	Kg	26,401.00
22	Quetiapine	Phosphorous oxychloride	Kg	76,230.00
		Caustic potash flakes	Kg	4,46,941.50
		N,n-dimethyl aniline	Kg	34,864.00
		Piperazine	Kg	5,005.00
		2-(chloro ethoxy) ethanol	Kg	2,050.00
		Sodium iodide	Kg	1,919.00
		Sodium carbonate	Kg	79,385.00
		1-[2-(hydroxy ethoxy)ethyl]-1-piperazine	Kg	92,342.00

		Dibenzo-(1,4)-thiazepine-11(10h)-one	Kg	1,08,950.00
23	Ritonavir	Potassium carbonate	Kg	89,612.70
		N-methyl morpholine	L	931.854
		((5-thiazolyl) methyl)-(4-nitrophenyl)carbonate	Kg	1,101.00
		Isobutyl chloroformate	Kg	2,475.70
		N-[methyl(2-isopropyl-4-thiazoyl methyl) amino carbonyl]-l-valine	Kg	2,514.10
24	Sofosbuvir	Diisopropyl ether	L	30,309.96
		Diisopropyl ether	Kg	11,888.64
		N-heptane	Kg	14,518.54
		Di-isopropyl ethyl amine	Kg	3,325.00
		Magnesium chloride	Kg	7,692.00
25	Solvents	Ethyl alcohol	L	19,58,980.00
		Acetone	L	7,89,018.06
		Hexanes	L	2,81,253.73
		Triethyl amine	L	7,81,846.19
		Caustic soda lye	L	13,59,070.50
		Acetic acid	L	4,32,622.50
		Ethyl acetate	L	45,80,242.40
		Hydrochloric acid	L	48,51,174.30
		Isopropyl alcohol	L	27,70,377.75
		Cyclo hexane	L	21,63,620.26
		Liquor ammonia	L	1,00,860.00
		Methylene chloride	L	28,04,958.00
		Ortho xylene	L	26,534.40
		Sulphuric acid	L	1,41,365.90
		Chloroform	L	4,18,612.60
		Toluene	L	20,52,970.45
		Methanol	L	62,42,383.40
26	Tenofovir	Tetra butyl ammonium bromide	Kg	2,93,489.00
		Fumaric acid	Kg	3,06,390.00
		Ade	Kg	4,37,675.00
		Magnesium tert.butoxide	Kg	4,59,047.00
		Diethyl para toluene sulfonyl oxy methyl phosphonate	Kg	12,83,137.38
		P carbonate	Kg	4,00,964.00
		Hydro bromic acid	L	23,10,512.67
		Sodium sulfate / sodium sulphate	Kg	2,07,690.00
		1-methyl -2-pyrrolidinone	Kg	13,67,016.40
		Cic	Kg	9,06,595.40
		(R)-9-[2-phosphonomethoxy) propyl] adenine mono hydrate	Kg	97,806.80

		Trimethyl chlorosilane	Kg	6,184.00
27	Zidovudine	Ammonium chloride	Kg	44,148.10
		Dimethyl sulphoxide	L	10,22,858.33
		Sodium azide	Kg	1,10,881.00
		Ptsa	Kg	26,209.00
		Sodium chloride	Kg	14,54,632.00
		5'-o-trityl-2,3-anhydrothymidine	Kg	1,84,801.00

ANNEXURE-III

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/HLL9/21-08/001	Date : 20-08-2021
Name and Address	:	**M/s. HETERO LABS LIMITED (UNIT-IX)** Hetero Infrastructure Limited, N. Narasapuram Village, Nakkapally Mandal, Visakhapatnam (Dt).	
Sample Particulars	:	Ambient Air Quality	
Source of Collection	:	Near Production A-Block	
Sample Code	:	SVELC/21/AAQ/867	
Date and Time of Start	:	10-08-2021 11:30 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}	$\mu g/m^3$	60.2	IS : 5182 – P-23	100
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	22.6	IS : 5182 – P-24	60
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	13.8	IS : 5182 – P-2	80
4	Oxides of Nitrogen – NO_X	$\mu g/m^3$	12.4	IS : 5182 – P-6	80

ANALYZED BY

SV ENVIRO LABS & CONSULTANTS

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/HLL9/21-08/002	Date : 20-08-2021
Name and Address	: **M/s. HETERO LABS LIMITED (UNIT-IX)** Hetero Infrastructure Limited, N.Narasapuram Village, Nakkapally Mandal, Visakhapatnam (Dt).	
Sample Particulars	: Ambient Air Quality	
Source of Collection	: Near Solvent Area	
Sample Code	: SVELC/21/AAQ/868	
Date and Time of Start	: 10-08-2021 11:45 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}	$\mu g/m^3$	60.8	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	$\mu g/m^3$	15.2	IS : 5182 – P-2	80
4	Oxides of Nitrogen – NO_X	$\mu g/m^3$	13.6	IS : 5182 – P-6	80

ANALYZED BY

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(An ISO 9001 Certified and NABET Accreditated for EIA)

Ref Code	: SVELC/HLL9/21-08/003	Date : 20-08-2021
Name and Address	: **M/s. HETERO LABS LIMITED (UNIT-IX)** Hetero Infrastructure Limited, N.Narasapuram Village, Nakkapally Mandal, Visakhapatnam (Dt).	
Sample Particulars	: Ambient Air Quality	
Source of Collection	: Near Canteen Area	
Sample Code	: SVELC/21/AAQ/869	
Date and Time of Start	: 10-08-2021 12:00 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}	$\mu g/m^3$	56.4	IS : 5182 – P-23	100
2	Particulate Matter –$PM_{2.5}$	$\mu g/m^3$	21.2	IS : 5182 – P-24	60
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	12.6	IS : 5182 – P-2	80
4	Oxides of Nitrogen – NO_X	$\mu g/m^3$	11.8	IS : 5182 – P-6	80

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Ref Code	: SVELC/HLL9/21-08/004	**Date : 20-08-2021**
Name and Address	: **M/s. HETERO LABS LIMITED (UNIT-IX)** Hetero Infrastructure Limited, N.Narasapuram Village, Nakkapally Mandal, Visakhapatnam (Dt).	
Sample Particulars	: Stack Monitoring	
Source of Collection	: 1010 KVA Generator	
Sample Code	: SVELC/21/SE/870	
Date and Time of Start	: 10-08-2021 13:15 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
4	Temperature @ DGM	°C	34
5	Stack Temperature	°C	184
6	Nozzle Diameter	mm	10
7	Exit Velocity	m/sec	13.8
8	Fuel Used	-	HSD

EMISSION DATA

S.No	Parameter	Unit	Result	Method	Standard
1	Particulate matter – PM	mg/nm^3	50.8	IS:11255 – P-1	115
2	Sulphur Dioxide – SO_2	mg/nm^3	25.6	IS:11255 – P-2	-
3	Oxides of Nitrogen – NO_x	mg/nm^3	32.4	IS:11255 – P-7	-

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Ref Code	: SVELC/HLL9/21-08/005	Date : 20-08-2021
Name and Address	: **M/s. HETERO LABS 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 Ed,2017
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/i	BDL	APHA,3120-B , 23rd Ed,2017

Note: BDL denotes Below Detectable Level

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Ref Code	: SVELC/HLL9/21-08/006	Date : 20-08-2021
Name and Address	: **M/s. HETERO LABS 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,4500S2 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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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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