



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.

27/10/2022

**Letter No: HLL-IX/EHS/APPCB/2022-23/11**

**The Environmental Engineer  
Regional Office  
A.P. Pollution Control Board  
Visakhapatnam**

Dear Sir,

**Sub : Submission of Environmental Statement in Form-V of M/s Hetero Labs Ltd, Unit-IX  
for the Financial year 2021-22 - Regarding**

**Ref : APPCB/VSP/VSP/221/CFO/HO/2020 Dated 29/03/2020**

With reference to above, we are herewith submitting the environmental statement in Form-V for the financial year 2021-22 for your information and perusal.

You are requested to kindly acknowledge the receipt.

Thanking you Sir,

Yours faithfully,  
**For Hetero Labs Ltd, Unit-IX**

  
**S. Kullayi Reddy  
Associate Vice President -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 31<sup>st</sup>December 2022 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 22<sup>nd</sup> April 1993

(PART II, SECTION 3, SUB-SECTION (1))

"FORM - V"

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31<sup>ST</sup> MAR 2022.

PART - A

Name and address of the owner/	<b>C. Mohan Reddy, Director-operations</b>
Occupier of the industry, operation Or process	7-2-A2, Hetero Corporate, Industrial Estate Sanathnagar Hyderabad -5000082.
Registered Office Address	: <b>M/s. Hetero Labs Ltd,</b> 7-2-A2, Hetero Corporate Industrial Estate Sanathnagar Hyderabad -5000082 Tel:3704923/24/25
Works address	: <b>M/s. Hetero Labs Ltd, Unit-IX,</b> 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-2021

**PART – B**  
**Water and Raw Material Consumption**

S.No	Purpose	As per CFO Quantity (KLD)	Actual Consumption KL / Day
1.	Process & Washing	101.13	49.88
2.	Boiler feed	50.00	13
3.	Cooling Towers	70.00	30
4.	Domestic	25.00	10
	<b>Total</b>	<b>246.13</b>	<b>102.88</b>

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 in Kgs	
	During the previous financial Year (2020 - 2021)	During the current financial Year (2021 - 2022)
Organic Residue	266.84 Tons	348.54T
Spent Carbon	370.82 Tons	381.77T
Process Inorganic waste	158.85 Tons	56.71T
Used carboys - HDPE Drums	160.58T	222.46T
Used carboys - MS Drums	334.61T	180.76T
Detoxification Liners (LDPE bags)	53.030 Tons	0
Waste Oils	16.060 KL	0

**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(2020-2021)	During the current financial year (2021-2022)
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 equipment's 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 100 crore towards installation of new 1.2 MLD Effluent Treatment plant and installation of Multistage scrubbers during 2022-23.**

**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 (2020 - 2021))	Water Consumption Per Ton In KL (During The Financial Year (2021 - 2022))
1	Abacavir sulfate	3	3
2	Atazanavir sulfate	28	28
3	Atorvastatin calcium	23	23
4	Darunavir amorphous		9.6
5	Darunavir Ethanolate	17	17
6	Dolutegravir sodium	NIL	21
7	Doravirine premix		
8	Efavirenz	22	22
9	Emtricitabine		12
10	Etravirine	16	16
11	Gabapentin		0.83
12	Lamivudine		3.29
13	Levetiracetam	4	4
14	Lopinavir	76	NIL
15	Naproxen sodium		10.08
16	Nevirapine	21	21
17	Quetiapine fumarate	10	10
18	Ritonavir	NIL	5.79
19	Sofosbuvir		119.64
20	Tenofovir disoproxil fumarate	29	7.55
21	Zidovudine	12.4	6.94

## ANNEXURE - II

RAW MATERIAL CONSUMPTION REPORT FROM 01.04.2021 TO 31.03.2022

S.No.	Product Name	Raw Material Description	UOM	Total Qty.
1	ABACAVIR SULPHATE	N-(2-AMINO-4,6-DICHLORO-PYRIMIDIN-5YL) FORMAMIDE	KG	6300.08
		(1S,4R)-4-AMINO-2-CYCLO PENTENE-1-METHANOL - HCl	KG	4500
		CYCLOPROPYL AMINE	KG	3132.04
2	ATAZANAVIR SULFATE	L-TERT LEUCINE	KG	2301.68
		RML176-1-[4-(PYRIDIN-2-YL) PHENYL ]-5-(S)-2,5-BIS[(TERT-BUTOXY-CARBONYL)-AMINO]-4(S)-HYDROXY-6-PHENYL-2-AZAHXANE	KG	3702.24
3	ATORVASTATIN CALCIUM	(±)-4-FLOURO-?(2-METHYL-1-OXOPROPYL)-Y-OXO-N,?-DIPHENYL BENZENE BUTANEAMIDE	KG	0
		(4R-CIS)-1,1-DIMETHYL ETHYL-[6-CYNOMETHYL-2,2-DIMETHYL-1,3-DIOXAN]-4-ACETATE	KG	0
4	BDH PURE	L-Phenyl alanine(LALA)	KG	54453
5	DARUNAVIR AMORPHOUS	RML183 - 2,5-DIOXOPY RROLIDIN-1-YL((3R,3AS,6AR)-HEXAHYDRO FURO[2,3-B]FURAN-3-YL) CARBONATE	KG	2269.06
		4-AMINO-N-(2R,3S)(3-AMINO-2-HYDROXY-4-PHENYL-BUTYL)-N-ISOBUTYL-BENZENESULFONAMIDE	KG	3240.735
6	DARUNAVIR ETHANOLATE	4-AMINO-N-(2R,3S)-3-AMINO-2-HYDROXY-4-PHENYL-BUTYL)-N-ISOBUTYL BENZENE SULFONAMIDE	KG	1980.5
		(3R,3AS,6AR)-HEXAHYDRO FURO[2,3-B]FURAN-3-YL(4-NITROPHENYL) CARBONATE (HNC)	KG	1488.5
7	DOLUTEGRAVIR SODIUM	[(2,4-DIFLUOROPHENYL)METHYL] AMINE	KG	900
		(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- CARBOXYLIC ACID	KG	1800
8	DORAVIRINE PREMIX	3-CHLORO-5-2-OXO...BENZONITRILE	KG	84.55
		3-(CHLOROMETHYL)-1,2,4-TRIAZOLIN-5-ONE	KG	38.23
9	EFAVIRENZ	4-CHLORO-2-TRIFLUOROACETYL ANILINE HYDROCHLORIDE HYDRATE(ACTA HCL)	KG	105002
		CYCLOPROPYL ACETYLENE	KG	28182
10	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(ACME)	KG	65001.5
11	EPA	N-(2-HYDROXYETHYL)PHTHALIMIDE	KG	0
12	ETRAVIRANE	ETRAVIRINE	KG	0
13	GABAPENTIN	1,1-CYCLOHEXANE DIACETIC ACID	KG	6002



		1,1- CYCLOHEXANE DIACETIC ACID MONOAMIDE	KG	0.4
14	LOPINAVIR	(2S,3S,5S)-2-(2,6-Dimethyl Phenoxyacetyl) Amino-3- Hydroxyl -5-Amino-1,6-Diphenyl Hexane	KG	0
		2S-(1-Tetrahydro-pyrimid-2-onyl)-3-methyl butanoic acid(new centra)	KG	0
		LOPINAVIR-TEC	KG	191.2
		2S-(1-Tetrahydro-pyrimid-2-onyl)-3-methyl butanoic acid	KG	123.7
15	LAMIVUDINE	2R-CIS)-5-(4-AMINO-1, 2-DIHYDRO-2-OXO-1-PYRIMIDINYL)-1,3-OXATHIO LANE-2-CARBOXYLIC ACID (2S, 5R)- MENTHYL ESTER (COUPLED ESTER)	KG	928750.55
		(1R,2S,5R)-2-ISOPROPYL-5-METHYLCYCLOHEXY	KG	434001.6
16	LEVETIRACETAM	4-CHLORO BUTYRYL CHLORIDE	KG	446294.95
		S-(+)-2-AMINO BUTYRAMIDE HCl	KG	390551
17	NAPROXEN SODIUM	2-Acetyl-6-methoxy naphalene	KG	7503
18	NEVIRAPINE ANHYDROUS	2-CHLORO-N-(2-CHLORO-4-METHYL-3-PYRIDINYL)-3-PYRIDINE CARBOXAMIDE(CCMP)	KG	5600.12
19	QUETIAPINE FUMARATE	DIBENZO-(1,4)-THIAZEPINE-11(10H)- ONE	KG	95400.8
		1-[2-(HYDROXYETHOXY)ETHYL]-1-PIPERAZINE	KG	85335
20	RITONAVIR	((5-THIAZOLYL)METHYL)-(4-NITROPHENYL)CARBONATE	KG	1800.81
		(2S,3S,5S)-2-AMINO-3-HYDROXY-5-(T-BUTYLOXYCARBONYLAMINO)-1,6 -DIPHENYL HEXANE	KG	900
		N-[METHYL(2-ISOPROPYL-4-THIAZOYL METHYL) AMINO CARBONYL]-L-VALINE	KG	1851.44
21	SOFOSBUVIR	ISOPROPYL((S)-PERFLUORO PHENOXY)(PHENOXY) PHOSPHORYL)- L-ALANINATE	KG	525
		1-((2R, 3R, 4R, 5R)-3-FLUORO-4-HYDROXY-5-(HYDROXY METHYL)-3-METHYLTETRA HYDROFURAN-2-YL) PYRIMIDINE-2,4(1H,3H)-DIONE	KG	250
22	TENOFVIR DISOPROXIL FUMARATE	ADENINE	KG	296001
		DIETHYL PARA TOLUENE SULFONYL OXY METHYL PHOSPHONATE	KG	903622.6
		(R)-(+)-PROPYLENE CARBONATE	KG	271915
		CHLOROMETHYLISOPROPYL CARBONATE	KG	498687.6
		(R)-9-(2-PHOSPHONYLMETHOXY PROPYL) ADENINE (TDF-II)	KG	1700.01
23	ZIDOVUDINE	5'-O-TRITYL-2,3-ANHYDROTHYIMIDINE	KG	97200



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( Recognized by GOI, Ministry of Environment & Forests )

( An ISO 9001 Certified and NABET Accredited for EIA )



**Ref Code** : SVELC/HLL9/22-09/01 **Date** : 08-10-2022  
**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/22/AAQ/1182

**Date and Time of Start** : 29-09-2022 11:45 hr

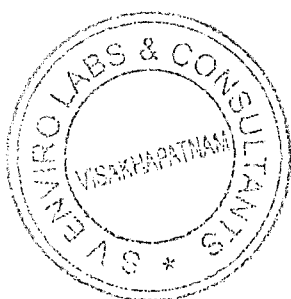
**Duration of Sampling** : 24 Hours

**Atmosphere Condition** : CLEAR SKY

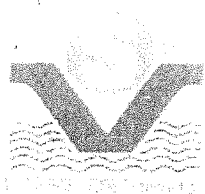
## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	METHOD	NAAQ STANDARD
1	Particulate Matter – PM <sub>10</sub>	µg/m <sup>3</sup>	62.7	IS : 5182 – P-23	100
2	Particulate Matter – PM <sub>2.5</sub>	µg/m <sup>3</sup>	23.1	IS : 5182 – P-24	60
3	Sulphur Dioxide – SO <sub>2</sub>	µg/m <sup>3</sup>	12.9	IS : 5182 – P-2	80
4	Oxides of Nitrogen – NO <sub>x</sub>	µg/m <sup>3</sup>	11.8	IS : 5182 – P-6	80

ANALYZED BY



SV ENVIRO LABS & CONSULTANTS



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**Ref Code** : SVELC/HLL9/22-09/02 **Date** : 08-10-2022  
**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/22/AAQ/1183

**Date and Time of Start** : 29-09-2022 12:00 hr

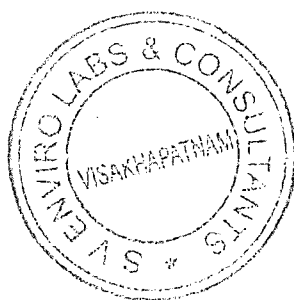
**Duration of Sampling** : 24 Hours

**Atmosphere Condition** : CLEAR SKY

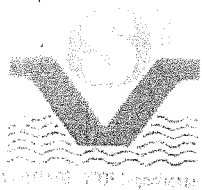
## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	METHOD	NAAQ STANDARD
1	Particulate Matter – PM <sub>10</sub>	µg/m <sup>3</sup>	60.4	IS : 5182 – P-23	100
2	Particulate Matter – PM <sub>2.5</sub>	µg/m <sup>3</sup>	22.5	IS : 5182 – P-24	60
3	Sulphur Dioxide – SO <sub>2</sub>	µg/m <sup>3</sup>	15.1	IS : 5182 – P-2	80
4	Oxides of Nitrogen – NO <sub>x</sub>	µg/m <sup>3</sup>	12.6	IS : 5182 – P-6	80

  
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**Ref Code** : SVELC/HLL9/22-09/03 **Date** : 08-10-2022  
**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/22/AAQ/1184

**Date and Time of Start** : 29-09-2022 12:15 hr

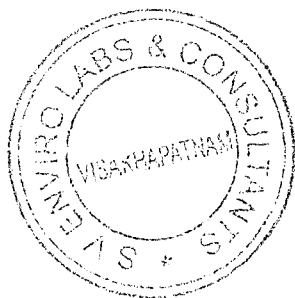
**Duration of Sampling** : 24 Hours

**Atmosphere Condition** : CLEAR SKY

## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	METHOD	NAAQ STANDARD
1	Particulate Matter – PM <sub>10</sub>	µg/m <sup>3</sup>	56.8	IS : 5182 – P-23	100
2	Particulate Matter –PM <sub>2.5</sub>	µg/m <sup>3</sup>	21.3	IS : 5182 – P-24	60
3	Sulphur Dioxide – SO <sub>2</sub>	µg/m <sup>3</sup>	13.9	IS : 5182 – P-2	80
4	Oxides of Nitrogen – NO <sub>x</sub>	µg/m <sup>3</sup>	13.0	IS : 5182 – P-6	80

*ally*  
ANALYZED BY



*J. R. M.*  
SV ENVIRO LABS & CONSULTANTS

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**Ref Code** : SVELC/HLL9/22-09/04 **Date** : 08-10-2022  
**Name and Address** : M/s. HETERO LABS LIMITED (UNIT-IX)  
Hetero Infrastructure Limited, N.Narasapuram Village,  
Nakkapally Mandal, Visakhapatnam (Dt).

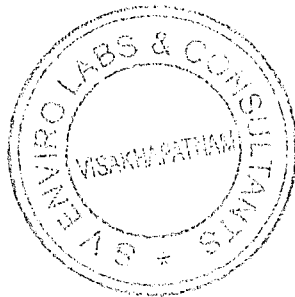
**Sample Particulars** : Effluent Analysis  
**Source of Collection** : ETP INLET  
**Sample Code** : SVELC/22/EFF/1185  
**Date of Collection** : 29-09-2022  
**Date of Receipt** : 29-09-2022

## TEST REPORT

S No	Parameter	Unit	Result	Method
1	pH	-	7.48	APHA 4500-H+B, 23 <sup>rd</sup> Ed,2017
2	Suspended Solids, SS	mg/l	209	APHA 2540-D, 23 <sup>rd</sup> Ed,2017
3	Total Dissolved Solids, TDS	mg/l	14086	APHA,2540-C,23 <sup>rd</sup> Ed, 2017
4	Chemical Oxygen Demand(COD)	mg/l	11693	APHA 5220-B, 23 <sup>rd</sup> Ed,2017
5	BOD 3d 27°C	mg/l	4641	IS 3025 Part 44
6	Chlorides as Cl <sup>-</sup>	mg/l	3098	APHA,4500-CI B,23 <sup>rd</sup> Ed, 2017
7	Oil & Grease	mg/l	8.8	APHA,5520-D,5-38,23 <sup>rd</sup> Ed, 2017
8	Sulphide as S	mg/l	9.13	APHA,4500S <sup>2</sup> D, 23 <sup>rd</sup> Ed,2017
9	Phenolic compounds (C <sub>6</sub> H <sub>5</sub> OH)	mg/l	0.37	APHA,5530-C, 23 <sup>rd</sup> Ed,2017
10	Cyanide as CN	mg/l	BDL	APHA,4500-CN E , 23 <sup>rd</sup> Ed,2017
11	Hexavalent chromium as Cr <sup>+6</sup>	mg/l	BDL	APHA,3500-Cr B , 23 <sup>rd</sup> Ed,2017
12	Lead as Pb	mg/l	BDL	APHA,3120-B , 23 <sup>rd</sup> Ed,2017

Note: BDL denotes Below Detectable Level

ANALYZED BY



SV ENVIRO LABS & CONSULTANTS

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( Recognized by GOI, Ministry of Environment & Forests )

( An ISO 9001 Certified and NABET Accredited for EIA )



Ref Code : SVELC/HLL9/22-09/05

Date : 08-10-2022

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 DG SET

Sample Code : SVELC/22/SE/1186

Date and Time of Start : 29-09-2022 12:45 Hr

Duration of Sampling : 30 MINS

TEST REPORT

STACK DETAILS

S No	Description	Unit	Result
1	Plot Coefficient	-	0.87
2	Specific Gravity of Fluid	-	1.0
3	Temperature @ DGM	°C	33
4	Stack Temperature	°C	177
5	Nozzle Diameter	mm	10
6	Exit Velocity	m/sec	14.1
7	Duration of Sampling	minutes	30
8	Fuel Used	-	HSD

MISSION DATA

S.No	Parameter	Unit	Result	Method	Standard
1	Particulate Matter – PM	mg/nm <sup>3</sup>	65.2	IS:11255 – P-1	115
2	Sulphur Dioxide – SO <sub>2</sub>	mg/nm <sup>3</sup>	39.4	IS:11255 – P-2	-
3	Oxides of Nitrogen – NO <sub>x</sub>	mg/nm <sup>3</sup>	55.3	IS:11255 – P-7	-

  
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**Ref Code** : SVELC/HLL9/22-09/06 **Date** : 08-10-2022  
**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** : 2020 KVA DG SET  
**Sample Code** : SVELC/22/SE/1187  
**Date and Time of Start** : 29-09-2022 13:30 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	202
5	Nozzle Diameter	mm	10
6	Exit Velocity	m/sec	16.1
7	Duration of Sampling	minutes	30
8	Fuel Used	-	HSD

**MISSION DATA**

S.No	Parameter	Unit	Result	Method	Standard
1	Particulate Matter – PM	mg/nm <sup>3</sup>	68.4	IS:11255 – P-1	115
2	Sulphur Dioxide – SO <sub>2</sub>	mg/nm <sup>3</sup>	43.2	IS:11255 – P-2	-
3	Oxides of Nitrogen – NO <sub>x</sub>	mg/nm <sup>3</sup>	59.7	IS:11255 – P-7	-

*[Signature]*  
ANALYZED BY



*[Signature]*  
SV ENVIRO LABS & CONSULTANTS