HETERO LABS LIMITED (UNIT-IX)
Plot No.2, Hetero Infrastructure Ltd. SEZ
N.Narasapuram (Village),
Nakkapalli (Mandal),
Anakapalli (Dist) - 531 081., A.P., INDIA.
Tel : +91 891 2877999, Fax: +91 891 2877933
CIN: U24110AP1989PLC009723

Letter No: HLL-IX/EHS/APPCB/2023-24/10 30th September2023

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 Labs Ltd, Unit-IX for the Financial Year 2022-2023 - Regarding

Ref : APPCB/VSP/VSP/221/CTO/HO/2022 Dated 15/02/2023

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 Labs Limited, Unit-IX

S. Kullayi Reddy
Associate Vice President - EHS

Enclosures: As above

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

3-10-23

Corporate
7-2-A2, Industrial Estates, Sanath Nagar, Hyderabad-500 018. Telangana, India
T: +91 40 23704923 / 24 / 25, Fax : +91 40 23813359

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 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 22nd April 1993

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

"FORM - V"

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31ST MAR 2023.

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 N.Narsapuram (V),	:	**M/s. Hetero Labs Ltd, Unit-IX,** Plot No.2 & 3 Hetero Infrastrucure SEZ Ltd., 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-2022

PART – B
Water and Raw Material Consumption

S.No	Purpose	As per CFO Quantity (KLD)	Actual Consumption KL / Day
1.	Process & Washing	101.13	101.73
2.	Boiler feed	50.00	40
3.	Cooling Towers	70.00	60
4.	Domestic	25.00	19.20
	Total	**246.13**	**218.26**

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 **(2021 - 2022)**	During the current financial Year **(2022- 2023)**
Organic Residue	348.54T	292.23T
Spent Carbon	381.77T	469.74T
Process Inorganic waste	56.71T	68.59T
Used carboys - HDPE Drums	222.46T	24.759T
Used carboys - MS Drums	180.76T	4.615T
Detoxification Liners (LDPE bags)	0	59.82T
Waste Oils	0	3.11T

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(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
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 2022-2023 HLL-IX

S.No	Name Of Products	Water Consumption Per Ton In Kl (During The Financial Year (2021 - 2022)	Water Consumption Per Ton In KL (During The Financial Year (2022 - 2023)
1.	ABACAVIR SULFATE	3	3
2.	ATAZANAVIR SULFATE	28	28
3.	ATORVASTATIN CALCIUM USP	23	23
4.	Darunavir amorphous	9.6	9.6
5.	Darunavir Ethanolate	17	17
6.	DOLUTEGRAVIR		
7.	Dolutegravir sodium	21	21
8.	Doravirine		52.7
9.	Efavirenz	22	22
10.	Emtricitabine	12	12
11.	Etravirine	16	16
12.	Gabapentin	0.83	0.83
13.	Lamivudine	3.29	3.29
14.	Levetiracetam	4	4
15.	Lopinavir	NIL	NIL
16.	Naproxen sodium	10.08	10.08
17.	Nevirapine	21	21
18.	Quetiapine fumarate	10	10
19.	Ritonavir	5.79	5.79
20.	Sofosbuvir	119.64	119.64
21.	Tenofovir disoproxil fumarate	7.55	7.55
22.	Zidovudine	6.94	6.94

ANNEXURE - II

RAW MATERIAL CONSUMPTION REPORT FROM 01.04.2022 TO 31.03.2023

RAW MATERIAL CONSUMPTION				
S.No.	NAME OF THE PRODUCT	RAW MATERIAL DESCRIPTION	UOM	QTY
1	ABACAVIR SULPHATE	N-(2-AMINO-4,6-DICHLORO-PYRIMIDIN-5YL)FORMAMIDE	KG	47961.15
		(1S,4R)-4-AMINO-2-CYCLOPENTENE-1-METHANOL HYDROCHLORIDE	KG	32844.85
2	ATAZANAVIR SULFATE	L-TERT LEUCINE	KG	1950.26
		1-[4-(PYRIDINE-2-YL) PHENYL]-5(S) -2, 5-BIS [(TERT-BUTYLOXY-CARBONYL)-AMINO]-4(S)-HYDROXY-6-PHENYL-2-AZAHEXANE.	KG	1854.19
3	ATORVASTATIN CALCIUM	4-(4-FLUORO PHENYL)-2-ISOBUTYL-3-PHENYL -4-OXO-PHENYL BUTYRAMIDE	KG	7040.6
		(4R-CIS)-1,1-DIMETHYL ETHYL -6-CYANO-METHYL-2,2- DIMETHYL-1,3-DIOXANE-4-ACETATE	KG	4801
4	BDH PURE	L-PHENYL-L- ALANINE	KG	43207
5	DARUNAVIR AMORPHOUS	1-({[(3R,3AS,6AR)-HEXAHYDROFURO[2,3-B]FURAN-3-YLOXY]CARBONYL}OXY)PYRROLIDIN E-2,5-DIONE	KG	1260.77
		4-AMINO-N-(2R,3S)(3-AMINO-2-HYDROXY-4-PHENYL-BUTYL)-N-ISOBUTYL-BENZENE SULFONAMIDE	KG	3572.49
6	DOLUTEGRAVIR SODIUM	2,4-DIFLUOROBENZYLAMINE (72235-52-0)	KG	9450
		(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- CARBOXILICACID	KG	18900
7	DORAVIRINE PREMIX	3-CHLORO-5-((2-OXO-4-(TRIFLUOROMETHYL)-1,2-DIHYDROPYRIDIN-3-YL)OXY)BENZONITRILE CAS NO 1155846-86-8	KG	1.85
		3-(CHLOROMETHYL)-1,2,4-TRIAZOLIN-5-ONE CAS NO 252742-	KG	0.3

		72-6		
8	EFAVIRENZ	CYCLO PROPYL ACETAYLENE	KG	34512
		4-CHLORO-2-TRIFLUOROACETYLANILINE HYDROCHLORIDE HYDRATE	KG	158003.4
9	EMTRICITABINE	(2R,5S)-5-(4-AMINO-5-FLUORO-2-OXO-2H-PYRIMIDIN-1-YL)-(1,3)OXATHIOLAME-2-CABOXYLIC ACID(1R,5R)METHYL ESTER	KG	113500
10	EPA	N-(2-HYDROXYETHYL)PHTHALIMIDE	KG	1500.3
11	ETRAVIRINE (PREMIX)	4-[(4,6-DICHLORO-2-PYRIMIDINYL) AMINO] BENZONITRILE	KG	0.015
		4-HYDROXY-3,5-DIMETHYL BENZONITRILE	KG	0.01
12	GABAPENTIN	1,1-CYCLOHEXANE DIACETIC ACID	KG	50000.6
		1,1- CYCLOHEXANE DIACETIC ACID MONOAMIDE	KG	16150.51
13	LOPINAVIR	2,6-DIMETHYLPHENOXY ACETYL CHLORIDE CAS NO.20143-48-0	KG	0
		2S-(1-TETRAHYDRO-PYRIMID-2-ONLY)-3-METHYL BUTANOIC ACID(CINTRA)	KG	2703.17
		(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	2396
14	LAMIVUDINE	(2R-CIS)-5-(4-AMINO-1,2-DIHYDRO-2-OXO-1-PYRIMIDINYL)-1,3-OXATHIOLANE-2-CARBOXYLIC ACID (2S,5R)-METHYL ESTER	KG	320505.8
		(1R,2S,5R)-2-ISOPROPYL-5-METHYLCYCLOHEXYL(2R,5S)-5-(4-AMINO-2-OXOPYRIMIDIN-1(2H)-YL)-1,3-OXATHIOLANE-2-CARBOXYLATE	KG	736249.4
15	LEVETIRACETAM	4-CHLORO BUTYROYL CHLORIDE	KG	446675
		(S)-2-AMINO BUTYRAMIDE HCL	KG	441300
16	NAPROXEN SODIUM	2-ACETYL-6-METHOXY NAPHTHALENE	KG	12000
17	ABACAVIR SULPHATE	CYCLO PROPYL AMINE	KG	11026.1

18	NEVIRAPINE ANHYDROUS	2-CHLORO-N-(2CHLORO-4-METHYL-3 PYRIDYL) 3-PYRIDINE CARBOXAMIDE	KG	0.1
19	PRAGABALINE	CBMA	KG	2500.4
		DI METHYL 3-ISOBUTYL PENTAEDIOATE (DPD)	KG	650
20	QUETIAPINE FUMARATE	DIBENZO-(1,4)-THAZEPINE-11(10H)-ONE	KG	61849.9
		1-[2-(HYDROXY ETHOXY) ETHYL]-1-PIPERAZINE	KG	53480.3
21	RITONAVIR	CARBONIC ACID 4-NITROPHENYL-5-THIAZOLYLMETHYL ESTER.	KG	4040.7
		(2S,3S,5S)-2-AMINO-3-HYDROXY-5-TERT BUTYLCARBONYL AMINO-1,6-DIPHENYL-HEXANE.	KG	300
		N-[N-METHYL-N-((2-ISOPROPYL-4-THIAZOLYL) METHYL) AMINO) CARBONYL]-L-VALINE	KG	2570
22	SOFOSBUVIR	1-((2R,3R,4R,5R)-3-FLUORO-4-HYDROXY5-(HYDROXY METHYL)-3-METHYL TERA HYDROFURAN-2-Y1-PYRIMIDINE-2,4(1H,3H)-DIONE	KG	250.07
		ISOPROPYL-((S)-(PERFLUOROPHENOXY)(PHENOXY) PHOSPHOPRL)-L-ALANINATE	KG	525
23	TENOFOVIR DISOPROXIL FUMARATE	ADENINE	KG	390107.9
		DI ETHYL P-TOLUENE SULPHONYL OXY METHYL PHOSPHONATE	KG	1095050
		(R) PROPYLENE CARBONATE PURE	KG	322106.2
		CHLOROMETHYL ISO PROPYL CARBONATE	KG	508396.9
		(R)-9-[(2-PHOSPHONOMETHOXY) PROPYL] ADENINE	KG	16672.74
24	ZIDOVUDINE	5'-0- TRITYL ANHYDRO THYMIDINE (C.S.LYE)	KG	69600
25	TOLVAPTAN IH	POVIDONE	KG	10
		TOLVAPTAN	KG	30.1

SV ENVIRO LABS & CONSULTANTS

Environmental Engineers & Consultants in Pollution Control Enviro
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Phone: 9440338628
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(Recognized by GOI, Ministry of Environment & Forests)
(An ISO 9001 Certified and NABET Accredited for EIA)

Ref Code	: SVELC/HLL9/23-03/01	**Date : 21-03-2023**
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/23/AAQ/0310	
Date and Time of Start	: 11-03-2023 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}	$\mu g/m^3$	66.5	IS : 5182 – P-23	100
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	26.1	IS : 5182 – P-24	60
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	14.3	IS : 5182 – P-2	80
4	Oxides of Nitrogen – NO_x	$\mu g/m^3$	13.2	IS : 5182 – P-6	80

ANALYZED BY

SV ENVIRO LABS & CONSULTANTS VISAKHAPATNAM

SV ENVIRO LABS & CONSULTANTS

SV ENVIRO LABS & CONSULTANTS

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Ref Code	: SVELC/HLL9/23-03/02	**Date : 21-03-2023**
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/23/AAQ/0311	
Date and Time of Start	: 11-03-2023 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_{10}	$\mu g/m^3$	64.3	IS : 5182 – P-23	100
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	24.1	IS : 5182 – P-24	60
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	14.0	IS : 5182 – P-2	80
4	Oxides of Nitrogen – NO_X	$\mu g/m^3$	11.9	IS : 5182 – P-6	80

ANALYZED BY

SV ENVIRO LABS & CONSULTANTS VISAKHAPATNAM

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Ref Code	: SVELC/HLL9/23-03/03	**Date : 21-03-2023**
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/23/AAQ/0312	
Date and Time of Start	: 11-03-2023 12:30 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}	$\mu g/m^3$	63.4	IS : 5182 – P-23	100
2	Particulate Matter –$PM_{2.5}$	$\mu g/m^3$	23.5	IS : 5182 – P-24	60
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	14.8	IS : 5182 – P-2	80
4	Oxides of Nitrogen – NO_x	$\mu g/m^3$	13.4	IS : 5182 – P-6	80

ANALYZED BY

SV ENVIRO LABS & CONSULTANTS

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(An ISO 9001 Certified and NABET Accredited for EIA)

Ref Code	: SVELC/HLL9/23-03/04	**Date : 21-03-2023**
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/23/EFF/0315	
Date of Collection	: 11-03-2023	
Date of Receipt	: 11-03-2023	

TEST REPORT

S No	Parameter	Unit	Result	Method
1	pH	-	7.18	APHA 4500-H+B, 23rd Ed,2017
2	Suspended Solids, SS	mg/l	186	APHA 2540-D, 23rd Ed,2017
3	Total Dissolved Solids, TDS	mg/l	13468	APHA,2540-C,23rd Ed, 2017
4	Chemical Oxygen Demand(COD)	mg/l	11589	APHA 5220-B, 23rd Ed,2017
5	BOD 3d 27^{0}C	mg/l	4465	IS 3025 Part 44
6	Chlorides as Cl^-	mg/l	3021	APHA,4500-Cl B,23rd Ed, 2017
7	Oil & Grease	mg/l	6.5	APHA,5520-D,5-38,23rd Ed, 2017
8	Sulphide as S	mg/l	8.22	APHA,4500S^2 D, 23rd Ed,2017
9	Phenolic compounds (C_6H_5OH)	mg/l	0.31	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

SV ENVIRO LABS & CONSULTANTS VISAKHAPATNAM

ANALYZED BY

SV ENVIRO LABS & CONSULTANTS

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Ref Code	: SVELC/HLL9/23-03/05	**Date : 21-03-2023**
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/23/SE/0313	
Date and Time of Start	: 11-03-2023 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
3	Temperature @ DGM	°C	32
4	Stack Temperature	°C	170
5	Nozzle Diameter	mm	10
6	Exit Velocity	m/sec	14.5
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	66.8	IS:11255 – P-1	115
2	Sulphur Dioxide – SO_2	mg/nm^3	38.9	IS:11255 – P-2	-
3	Oxides of Nitrogen – NO_X	mg/nm^3	52.5	IS:11255 – P-7	-

ANALYZED BY

SV ENVIRO LABS & CONSULTANTS VISAKHAPATNAM

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/HLL9/23-03/06	**Date : 21-03-2023**
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/23/SE/0314	
Date and Time of Start	: 11-03-2023 14:00 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	32
4	Stack Temperature	°C	201
5	Nozzle Diameter	mm	10
6	Exit Velocity	m/sec	16.4
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	67.9	IS:11255 – P-1	115
2	Sulphur Dioxide – SO_2	mg/nm^3	41.5	IS:11255 – P-2	-
3	Oxides of Nitrogen – NO_x	mg/nm^3	62.8	IS:11255 – P-7	-

ANALYZED BY

SV ENVIRO LABS & CONSULTANTS VISAKHAPATNAM

SV ENVIRO LABS & CONSULTANTS