HETERO LABS LIMITED (UNIT-III)
S.No. 120 & 128, 150 (PART), 150/1, 151/2, 158/1,
N.Narasapuram (Village),
Nallamattipalem (V), Nakkapalli (Mandal),
Anakapalli (Dist) - 531 081., A.P., INDIA.
Tel : +91 891 2877900, Fax: +91 891 2877933
CIN: U24110AP1989PLC009723

30th September 2023

Letter No: HLL-III/EHS/APPCB/2023-24/10

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-III for the Financial Year 2022-2023 - Regarding

Ref : APPCB/VSP/ CFO/HO/137/2017 Dated 10/02/2023.,

With reference to above, here with submitting the Environmental Statement in Form-V of M/s Hetero Labs Ltd, Unit-III 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-III

S. Kullayi Reddy
Associate Vice President – EHS

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

3-10-23

Enclosures: As above

PROFILE

M/s. Hetero Labs Ltd, Unit III obtained consent for operation from AP Pollution Control Board vide order No: APPCB/VSP/ CFO/HO/137/2017- dated 10/02/2023 valid upto 31st December 2027 and got CFO amendment order dated 28/04/2023 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 LABS LIMITED, UNIT-III

Total Site Area	:	130 Acres
Built up Area	:	75 Acres
Area of green belt developed	:	45 Acres
Area available for green belt development	:	10 Acres
Year of establishment	:	2008
Year of commissioning	:	2008
Capital cost	:	428.26crores
Type of plant	:	Bulk drug manufacturing
Water consumption	:	492KLD
Effluent generation	:	353KLD
Investment on pollution control		
• Capital investment	:	1000 LAKHS
• Recurring O & M	:	200 LAKHS/ANNUM
Employment	:	2000

Other details:

1. The total water requirement of the unit is being met from the Sea water Desalination plants of M/s Hetero Infrastructure SEZ Ltd
2. The required steam for the unit is being supplied from boilers installed in the premises of M/s Hetero Infrastructure SEZ Ltd.
3. The effluent generated from the unit is being treated in the Common ETP installed in the premises of M/s Hetero Infrastructure SEZ Ltd.
4. Sewage Treatment Plant, Hazardous waste storage yard and scrap yard are installed in the premises of M/s Hetero Infrastructure SEZ Ltd

MINISTRY OF ENVIRONMENT AND FORESTS NOTIFICATION

New Delhi, the 22nd April 1993

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

"FORM - V"

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31st MARCH 2023

PART - A

Name and address of the owner/ Occupier of the industry operation Or process	:	**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-III,** Sy. No.126, 150,151/1 & 151/2 N.Narsapuram (V), Nakkapally (M), Visakhapatnam Dist.
Industry category	:	Red
Production capacity	:	390 TPM (As per CFO)
Month and Year of Establishment	:	2008
Date of last environmental statement Submitted	:	September 2022

PART - B

WATER CONSUMPTION DETAILS

S.No	Water Consumption	Quantity (KL/day) (as per CFO)	Quantity (KL/day) (Actual)
1	Process & Washing	261.0	250.9
2	Cooling tower Make up & Boiler Feed	161.0	92.54
3	Domestic	70.0	58.3
	Total	**492.0**	**401.74**

**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 (PARAMETER AS SPECIFIED IN THE CONSENT ISSUED)

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

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

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial Year (2021-2022)	During the current financial Year (2022-2023)
Organic Residue	596.45 T	618.17 T
Spent Carbon	633.77 T	418.79T
Process Inorganic waste	56.15 T	72.38 T
Used Carboys- HDPE Drums	239.08T	90.459T
Used Carboys- MS Drums	374.77T	35.235T
Spent solvents	5252.062T	642.72T
Detoxification Liners (LDPE bags)	57.950T	164.14T
Waste oil	8.389T	8.389T

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 HAZARADOUS 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 CONTROL MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON 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.
- Rainwater harvesting by way of collecting the storm water in a pond within 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 CEQMS, 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 10 crore towards installation of Multistage scrubbers and Effluent tanks etc 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 - III** 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 wastewater 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 by collecting rainwater 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

S.No	Name of the product	Process water consumption per unit of product output in KL	
		During the previous financial year (2021-22)	During the current financial year (2022-23)
1.	AMLODIPINE BESYLATE	.....	12.0
2.	ARIPIPRAZOLE	53.14	53.14
3.	ATAZANAVIR SULPHATE	42.35	42.35
4.	ATOMOXETINE HCL	38.63	38.63
5.	ATORVASTATIN CALCIUM	....	50.3
6.	AZACITIDINE	....	....
7.	BICALUTAMIDE	66.66	66.66
8.	BORTEZOMIB	...	
9.	CAPECITABINE	19.18	19.18
10.	CILOSTAZOL	....	42.0
11.	CITICOLINE SODIUM	....	38.1
12.	DACLATASVIR DIHYDROCHLORIDE IH	....	67.56
13.	DARUNAVIR	24.0	24
14.	DOCETXEL	...	
15.	DOLUTEGRAVIR SODIUM IHS	57.53	57.53
16.	DOMPERIDONE IP	...	33.1
17.	EFAVIRENZ IP	...	....
18.	EPLERENONE	...	20.0
19.	ESCITALOPRAM OXALATE	8.72	8.72
20.	ETORICOXIB	25.5	25.5
21.	EZETIMIBE	43.1	43.1
22.	FLUCONAZOLE IP	....	21.82
23.	IMATINIB MESYLATE	....	.....
24.	IRBISATRAN	10.03	10.03
25.	LACOSAMIDE	29.58	29.58
26.	LAMIVUDINE	3.29	3.29
27.	LETROZOLE	59.8	59.8
28.	LEVETIRACETAM	1.1	1.1
29.	LEVOMILNACIPRAN HCL IH	...	..
30.	LOPINAVIR	102.92	102.92
31.	LORATADINE USP	....	3.5
32.	LOSARTAN POTASSIUM		16.71
33.	MILACIPRAN		...
34.	OSELTAMAVIR PHOSPHATE		

35.	PANTOPRAZOLE SODIUM IP	...	29.5
36.	PAZOPANIB		...
37.	PIOGLITAZONE HCL	36.25	36.25
38.	QUTIAFINE HEMIFUMARATE	6	6
39.	RAMIPRIL IP	...	30.0
40.	RITONAVIR	18.0	18
41.	RIZATRIPTAN	...	48.51
42.	ROSUVASTATIN CALCIUM	...	16.0
43.	RUPATADINE FUMARATE	...	
44.	SIMVASTATIN USP		
45.	SOFOSBUVIR S		60.49
46.	STAVUDINE IP		
47.	TELMISARTAN	48.1	48.1
48.	TEMOZOLOMIDE	29.41	
49.	TENOFOVIR		
50.	TERBINAFINE HYDROCHLORIDE	...	7.5
51.	TIOCONAZOLE BP	...	0.56
52.	VALSARTAN	...	30.95
53.	VELPATASVIR PREMIX IH	...	35.75
54.	VOGLIBOSE IP	...	112.6
55.	ZIDOVUDINE IP	...	22.6

ANNEXURE - II

RAW MATERIAL CONSUMPTION				
S.NO	NAME OF THE PRODUCT	RAW MATERIAL DESCRIPTION	UOM	TOTAL QTY
1	ABACAVIR SULPHATE	2,5-DI AMINO-4, 6-DI HYDROXY PYRIMIDINE	KG	27901
2	AMLODPINE	PHTHALIC ANHYDRIDE	KG	54639.5
		ETHYL-4-(2-PHTHALIMIDO) ETHOXY ACETOACET	KG	35727
3	ARA	DIETHYL (3-PYRIDINYL)BORANE	KG	172.8
		(4S,5R)-3-BENZOYL-2(4-METHOXYPHENYL-4-PH	KG	80
4	ARIPIPRAZOLE	3-CHLORO PROPIONYL CHLORIDE	KG	7927
		META AMINOPHENOL	KG	6004
5	ATAZANAVIR SULPHATE	2-BROMOPYRIDINE	KG	560
		4-FORMYL BENZENE BORONIC ACID	KG	465
		TERT BUTYL CARBAZATE	KG	318.5
		[1(S)-(OXIRAN-2(R)-YL)-2-PHENYLETHYL]CAR	KG	153.3
		(TERT-BUTYL 2-(4-(PYRIDIN -2-YL)BENZYL)H	KG	0.2
6	ATOMOXETINE HCL	O-CRESOL	KG	75041.5
7	BICALUTAMIDE	4-AMINO-2-TRIFLUOROMETHYL BENZONITRILE	KG	2880.01
		METHACRYLIC ACID	KG	2281.01
8	BRIVERACETUM	(S)-4-BENZYL-2-OXAZOLIDINONE	KG	1148
9	CAPECITABINE	5-FLUORO CYTOSINE	KG	20524.1
		D-RIBOSE	KG	50807.5
		N-PENTYL CHLOROFORMATE	KG	187.5
10	CARBOPLATIN	1,1-CYCLOBUTANE DICARBOXYLIC ACID	KG	3.5
11	CDA	CYCLO HEXANONE	KG	18200
12	CPMP	ALPHA PICOLINIC ACID / 2-PYRIDINE CARBOXYLIC	KG	1175
13	DARUNAVIR	L-PHENYL ALANINE	KG	2004.5
		P-NITRO BENZENE SULFONYL CHLORIDE	KG	19050.7
		TERT-BUTYL((S)-1-((S)-OXIRAN-2-YL)	KG	18203.65
		(3AS,4S,6AR)-4-METHOXY-TETRAHYDROFURO-[3	KG	9752.4
		ISO BUTYLAMINE	KG	26006.525
		N-ACETYL SULPHANILYL CHLORIDE	KG	6100
		BIS (4-NITROPHENYL)CARBONATE	KG	3208
14	DHS	(3S,8R,9S,10R,13S,14S)-3-HYDROXY-10,13-D	KG	600
15	DOCETXEL	10-DEACETYL BACCATIN-III / 4a-ACETOXY	KG	36
16	DOLUTEGRAVIR SODIUM IHS	(3R)-3-AMINOBUTANOL	KG	34740
		1-(2,2-DIMETHOXYETHYL)-5-METHOXY-6-METHO	KG	96900
17	DORLATAMIDE	1-(TETRAHYDRO-2H-PYRAN-2-YL)-5-(4,4,5,5-	KG	532.5
		TERT-BUTYL(S)-(1-HYDROXYPROPAN-2-YL)CARB	KG	463.9
		4-BROMO-2-CHLORO BENZONITRILE	KG	347.5

18	ELECTRON	D-PROLINE	KG	264
19	ELIGLUSTATAR	1,2-ETHYLENEDIOXY BENZENE / 2,3-DIHYD	KG	200
20	ENTACAPONE	VANILLIN	KG	780
21	ENZALATAMIDE	2-FLUORO-4-NITRO BENZOIC ACID	KG	180
22	ETORICOXIB	CHLORO ACETYL CHLORIDE	KG	28183.8
		2-(4-METHYL)THIO)PHENYL)ACETINITRILE	KG	22975
		METHYL 6-METHYL NICOTINATE	KG	22893
23	EZETIMIBE	PARA HYDROXY BENZALDEHYDE	KG	10585
		PARA FLUORO ANILINE	KG	13786.2
24	FDI	5-FLUOROISATIN/ 5-FLUOROINDOLINE-2,3-DIO	KG	180
25	GEFITINIB	3-CHLORO-4-FLUORO ANILINE	KG	290
		7-METHOXY-6-(3-MORPHOLINOPROPOXY)-3,4-DI	KG	600
26	IMATINIB MESYLATE	3- ACETYL PYRIDINE	KG	9183.5
		4-BROMO METHYL BENZONITRILE	KG	6565.5
27	LACOSAMIDE	D-SERINE	KG	6553.4
28	LAMIVUDINE	CYTOSINE	KG	121365.5
		2,5, DI HYDROXY 1,4, DITHIANE	KG	537506
		MENTHOL	KG	704717
29	LAPATINIB	3-CHLORO-4-(3-FLUORO BENZYLOXY) ANILINE	KG	486.8
		2-AMINOBENZONITRILE	KG	325
30	LETROZOLE	1, 2, 4-TRIAZOLE	KG	0.15
		N-METHYL PIPERAZINE	KG	4215
31	LEVETIRACETAM	GAMMA BUTYROLACTONE	KG	809727
32	LEVOMILNACIPRAN HCL IH	2-PHENYL ACETONITRILE	KG	1500
33	LOSARTAN POTASSIUM	[(PENTANIMIDOYL) AMINO] ACETIC ACID	KG	21050
34	MARAVIROC	NORTROPINONE HCL	KG	3002
		(S)-METHYL-3-(TERT-BUTOXYCARBONYLAMINO)-	KG	1050
		8-BENZYL-3-(3-ISOPROPYL-5-METHYL-4H-1,2,	KG	335
35	MELAPHALAN	4-NITRO-3-PHENYL-L-ALANINE	KG	45
36	MILACIPRAN	2-PHENYL ACETONITRILE	KG	520
37	MOC	METHYL-2-OXOINDOLINE-6-CARBOXYLATE	KG	75
		(TRIMETHOXYMETHYL) BENZENE	KG	418
38	NEVROPINE	2-CHLORO NICOTINIC ACID	KG	1995
39	New Prod.	2,2-(5-METHYL-1,3-PHENYLENE) - DIACETONI	KG	1.5
40	New Prod.	POTASSIUM TETRACHLORO PLATINATE	KG	27
41	NILOTINIB	METHYL-3-GUANIDINO-4-METHYL BENZOATE NIT	KG	380
42	OSELTAMAVIR PHOSPHATE	SHIKIMIC ACID	KG	2000
43	PACLITAXEL	BACCATIN-III	KG	301.835
44	PAZOPANIB	3-METHYL-6-NITRO-1H-INDAZOLE	KG	501
		2,4-DICHLORO PYRIMIDINE	KG	1100.4
45	PIOGLITAZONE HCL	2-(5-ETHYL-2'-PYRIDYL) ETHANOL	KG	1350
		2,4 THIOZOLIDINEDIONE	KG	550
46	PRAGABLINE	2-CYANOACETAMIDE	KG	7201

47	QUTIAFINE HEMIFUMARATE	O-CHLORO NITRO BENZENE	KG	63201.2
		THIOPHENOL	KG	41061
48	RITONAVIR	4-NITRO PHENYL CHLOROFORMATE	KG	29132.1
		5-HYDROXY METHYL THIAZOLE	KG	13655.25
		ISOBUTARAMIDE	KG	78982.6
		(2S,3S,5S)-2-AMINO-3-HYDROXY-5-(T-BUTYLO	KG	55.36
		(S,E)-5 AMINO-2-(DIBENZYLAMINO)-1,6-DIPH	KG	85128.6
49	RIZATRIPTAN	1-(BROMO METHYL)-4-NITRO BENZENE	KG	252
50	TELMISARTAN	3-METHYL-4-NITRO BENZOIC ACID	KG	13200.5
		N-METHYL-1,2-BENZENEDIAMINE DIHYDROCHLOR	KG	11641
		2-PROPYL-1-H-IMIDAZOLE-4,5-DI-CARBOXYLIC ACID	KG	2602
51	TEMOZOLOMIDE	5-AMINO – 1H-IMIDAZOLE-4-CARBOXAMIDE HC	KG	216.9
52	TENOFOVIR FUMIRATE	DIETHYL PARA TOLUENE SULFONYL OXY METHYL	KG	6261
		(R) PROPYLENE CARBONATE	KG	23738
		ADENINE	KG	26000
53	TORSEMIDE	4-HYDROXY PYRIDINE-3-SULFONIC ACID	KG	0.04
54	VORICANAZOLE	2,4-DIFLUORO-2-(1H-1,2,4-TRIAZOLE-1-YL)	KG	3306.5
55	ZONISAMIDE	4-HYDROXY COUMARIN	KG	16200.9

SV ENVIRO LABS & CONSULTANTS

Environmental Engineers & Consultants in Pollution Control

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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/HLL3/23-03/001	**Date : 21-03-2023**
Name and Address	:	**M/s. HETERO LABS LIMITED (UNIT-III)** Nallamatipalem Village, Nakkapally Mandal, Visakhapatnam (Dt).	
Sample Particulars	:	Ambient Air Quality	
Source of Collection	:	Near Canteen Area	
Sample Code	:	SVELC/23/AAQ/0301	
Date and Time of Start	:	11-03-2023 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}	$\mu g/m^3$	64.1	IS : 5182 – P-23	100
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	25.6	IS : 5182 – P-24	60
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	14.7	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 VISAKHAPATNAM

SV ENVIRO LABS & CONSULTANTS

SV ENVIRO LABS & CONSULTANTS

Environmental Engineers & Consultants in Pollution Control
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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/HLL3/23-03/002	**Date : 21-03-2023**
Name and Address	: **M/s. HETERO LABS LIMITED (UNIT-III)** Nallamatipalem Village, Nakkapally Mandal, Visakhapatnam (Dt).	
Sample Particulars	: Ambient Air Quality	
Source of Collection	: Near Production Area (Block-A)	
Sample Code	: SVELC/23/AAQ/0302	
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}	$\mu g/m^3$	67.4	IS : 5182 – P-23	100
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	26.8	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	$\mu g/m^3$	12.5	IS : 5182 – P-6	80

ANALYZED BY

SV ENVIRO LABS & CONSULTANTS VISAKHAPATNAM

SV ENVIRO LABS & CONSULTANTS

SV ENVIRO LABS & CONSULTANTS

Environmental Engineers & Consultants in Pollution Control

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Ref Code	:	SVELC/HLL3/23-03/003	**Date : 21-03-2023**
Name and Address	:	**M/s. HETERO LABS LIMITED (UNIT-III)** Nallamatipalem Village, Nakkapally Mandal, Visakhapatnam (Dt).	
Sample Particulars	:	Ambient Air Quality	
Source of Collection	:	Near Production Block	
Sample Code	:	SVELC/23/AAQ/0303	
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}	$\mu g/m^3$	68.5	IS : 5182 – P-23	100
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	27.1	IS : 5182 – P-24	60
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	16.4	IS : 5182 – P-2	80
4	Oxides of Nitrogen – NO_X	$\mu g/m^3$	14.9	IS : 5182 – P-6	80

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Ref Code	: SVELC/HLL3/23-03/004	**Date : 21-03-2023**
Name and Address	: **M/s. HETERO LABS LIMITED (UNIT-III)** Nallamatipalem Village, Nakkapally Mandal, Visakhapatnam (Dt).	
Sample Particulars	: Effluent Analysis	
Source of Collection	: ETP INLET	
Sample Code	: SVELC/23/EFF/0304	
Date of Collection	: 11-03-2023	
Date of Receipt	: 11-03-2023	

TEST REPORT

S No	Parameter	Unit	Result	Method
1	pH	-	7.51	APHA 4500-H+B, 23rd
2	Suspended Solids – SS	mg/l	178	APHA 2540-D, 23rd Ed,2017
3	Total Dissolved Solids – TDS	mg/l	13348	APHA,2540-C,23rd Ed, 2017
4	Chemical Oxygen Demand – COD	mg/l	11496	APHA 5220-B, 23rd Ed,2017
5	BOD 3d 27^{0}C	mg/l	4434	IS 3025 Part 44
6	Chlorides as Cl^-	mg/l	2986	APHA,4500-Cl B,23rd Ed, 2017
7	Oil & Grease	mg/l	6.4	APHA,5520-D,5-38,23rd Ed, 2017
8	Sulphide as S	mg/l	8.02	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

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Ref Code	: SVELC/HLL3/23-03/005	**Date : 21-03-2023**
Name and Address	: **M/s. HETERO LABS LIMITED (UNIT-III)** Nallamatipalem Village, Nakkapally Mandal, Visakhapatnam (Dt).	
Sample Particulars	: Stack Monitoring	
Source of Collection	: 725 KVA Generator	
Sample Code	: SVELC/23/SE/0305	
Date and Time of Start	: 11-03-2023 13:00 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	34
4	Stack Temperature	°C	152
5	Nozzle diameter	mm	10
6	Exit Velocity	m/sec	13.4
7	Fuel Used	-	HSD

EMISSION DATA

S.No	Parameter	Unit	Result	Method	Standard
1	Particulate Matter – PM	mg/nm^3	63.4	IS:11255 – P-1	115
2	Sulphur Dioxide – SO_2	mg/nm^3	28.9	IS:11255 – P-2	-
3	Oxides of Nitrogen – NO_x	mg/nm^3	46.7	IS:11255 – P-7	-

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Ref Code	: SVELC/HLL3/23-03/006	**Date : 21-03-2023**
Name and Address	: **M/s. HETERO LABS LIMITED (UNIT-III)** Nallamatipalem Village, Nakkapally Mandal, Visakhapatnam (Dt).	
Sample Particulars	: Stack Monitoring	
Source of Collection	: 1165 KVA DG SET - I	
Sample Code	: SVELC/23/SE/0306	
Date and Time of Start	: 11-03-2023 13:45 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	184
5	Nozzle Diameter	mm	10
6	Exit Velocity	m/sec	15.6
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	70.1	IS:11255 – P-1	115
2	Sulphur Dioxide – SO_2	mg/nm^3	45.4	IS:11255 – P-2	-
3	Oxides of Nitrogen – NO_x	mg/nm^3	61.8	IS:11255 – P-7	-

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Ref Code	: SVELC/HLL3/23-03/007	**Date : 21-03-2023**
Name and Address	: **M/s. HETERO LABS LIMITED (UNIT-III)** Nallamatipalem Village, Nakkapally Mandal, Visakhapatnam (Dt).	
Sample Particulars	: Stack Monitoring	
Source of Collection	: 1165 KVA DG SET - II	
Sample Code	: SVELC/23/SE/0307	
Date and Time of Start	: 11-03-2023 14:30 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	212
5	Nozzle Diameter	mm	10
6	Exit Velocity	m/sec	16.1
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	70.5	IS:11255 – P-1	115
2	Sulphur Dioxide – SO_2	mg/nm^3	38.4	IS:11255 – P-2	-
3	Oxides of Nitrogen – NO_x	mg/nm^3	59.2	IS:11255 – P-7	-

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Ref Code	: SVELC/HLL3/23-03/008	**Date : 21-03-2023**
Name and Address	: **M/s. HETERO LABS LIMITED (UNIT-III)** Nallamatipalem Village, Nakkapally Mandal, Visakhapatnam (Dt).	
Sample Particulars	: Stack Monitoring	
Source of Collection	: 2030 KVA Generator - I	
Sample Code	: SVELC/23/SE/0308	
Date and Time of Start	: 11-03-2023 15:00 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
4	Temperature @ DGM	°C	32
5	Stack Temperature	°C	228
6	Nozzle Diameter	mm	10
7	Exit Velocity	m/sec	17.9
8	Fuel Used	-	HSD

EMISSION DATA

S.No	Parameter	Unit	Result	Method	Standard
1	Particulate matter – PM	mg/nm^3	74.6	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	64.8	IS:11255 – P-7	-

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Ref Code	: SVELC/HLL3/23-03/09	**Date : 21-03-2023**
Name and Address	: **M/s. HETERO LABS LIMITED (UNIT-III)** Nallamatipalem Village, Nakkapally Mandal, Visakhapatnam (Dt).	
Sample Particulars	: Stack Monitoring	
Source of Collection	: 2030 KVA Generator - II	
Sample Code	: SVELC/23/SE/0309	
Date and Time of Start	: 11-03-2023 15:45 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
4	Temperature @ DGM	°C	32
5	Stack Temperature	°C	224
6	Nozzle Diameter	mm	10
7	Exit Velocity	m/sec	17.4
8	Fuel Used	-	HSD

EMISSION DATA

S.No	Parameter	Unit	Result	Method	Standard
1	Particulate Matter – PM	mg/nm^3	80.1	IS:11255 – P-1	115
2	Sulphur Dioxide – SO_2	mg/nm^3	40.3	IS:11255 – P-2	-
3	Oxides of Nitrogen – NO_x	mg/nm^3	61.7	IS:11255 – P-7	-

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