SECTO /DVA//2024 25 /07/2020

A-7/2/C-11, Capital City, Talwade - Chakan Road, Chakan MIDC, PH-IV, Village Nighoje, Tal. Khed, GREEN ENVIROSAFE Dist. Pune-410501. Mob+ 9545084620, 8421365421 CIN No.: U74900PN2013PTC149666

08.07.2024

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Test Report No -GESEC/DW/2024-25/07/3028	/3028 Report Date		08.07.2024		
Sample ID - GESEC/DW/2024-25/07/3028	Sample Details		MIDC Pipeline Water		
Name & Address of the Customer –	Type of Sampl	e	Water		
M/S Vedanta Metacast Pvt. Ltd,	Volume Of Sai		2 Lit Plastic Can		
Plot No. PAP -B-60, Chakan Industrial Area,	Sample Status		Sealed		
Phase-II, Bhamboli, Tal-Khed, Dist-Pune.			Green Envirosafe Engineers & Consultant Pvt		
Mharashtra-410501	Sample Collec	ted By	Ltd, Pune		
	Date of Sampl	e Collection	02.07.2024		
	Date of Sampl	e received in	03.07.2024		
	lab				
	Analysis start	Date	03.07.2024		
	Analysis End Date		08.07.2024		
	WATER ANALY	SIS REPORT			
Parameter	Result	Unit(s)	Standard Method		
	Physical Pa	rameter			
Turbidity	<1	NTU	APHA 2130 B 24 th Edition:2023		
Total Dissolved Solids	102	mg/l	APHA 2540 C 24 th Edition:2023		
Color	<5	Hazen	APHA 2120 B (BY VISUAL) 24 th Edition:2023		
	Chemical Pa	rameter			
pH at 25°C	8.41		APHA 4500 H+ B 24 th Edition:2023		
Total Hardness	30.0	mg/l	APHA 2340 C 24 th Edition:2023		
Total Alkalinity	36.0	mg/l	APHA 2320 B 24 th Edition:2023		
Sulphate	5.38	mg/l	APHA 4500-SO4 - E 24 th Edition:2023		
Residual Chlorine	<0.1	mg/l	EPA 334.0		
Chloride	9.49	mg/l	APHA 4500-CI-B 24 th Edition:2023		
Calcium	7.21	mg/l	APHA 3500-Ca B 24 th Edition:2023		
Magnesium	2.91	mg/l	IS 3025 (Part 46):2023		
	Elemental	Analysis			
Iron as Fe	<0.025	mg/l	IS 3025 ( Part 53 ): 2019		
	Microbiologica	l Parameter			
Total Coliform	Absent	/100 ml	GESEC/LAB/SOP/01		
E-Coli	Absent	/100 ml	GESEC/LAB/SOP/02		

**TEST REPORT** 

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Page 1 of 1

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	TEST REPOR	Г	
Test Report No - GESEC/DW/2024-25/07/3029	Report Date		08.07.2024
Sample ID - GESEC/DW/2024-25/07/3029	Sample Details		Borewell Water
Name & Address of the Customer –	Type of Sample		Water
M/S Vedanta Metacast Pvt. Ltd,	Volume Of Sample		2 Lit Plastic Can
Plot No. PAP -B-60, Chakan Industrial Area,	Sample Status		Sealed
Phase-II, Bhamboli, Tal-Khed, Dist-Pune.	•		Green Envirosafe Engineers & Consultant
	Sample Collected	ву	Pvt. Ltd, Pune
Mharashtra-410501	Date of Sample C	ollection	02.07.2024
	Date of Sample r	eceived in lab	03.07.2024
	Analysis start Da	:e	03.07.2024
	Analysis End Date	9	08.07.2024
	WATER ANALYSIS	REPORT	
Parameter	Result	Unit(s)	Standard Method
	Physical Param		
Turbidity	<0.1	NTU	APHA 2130 B 24 th Edition:2023
Total Dissolved Solids	278	mg/l	APHA 2540 C 24 th Edition:2023
Color	<5	Hazen	APHA 2120 B (BY VISUAL) 24 th Edition:2023
	<b>Chemical Param</b>	eter	
pH at 25°C	8.10		APHA 4500 H+ B 24 th Edition:2023
Total Hardness	74.0	mg/l	APHA 2340 C 24 th Edition:2023
Total Alkalinity	68.0	mg/l	APHA 2320 B 24 th Edition:2023
Sulphate	11.53	mg/l	APHA 4500-SO4 - E 24 th Edition:2023
Residual Chlorine	<0.1	mg/l	EPA 334.0
Chloride	15.49	mg/l	APHA 4500-Cl-B 24 th Edition:2023
Calcium	18.43	mg/l	APHA 3500-Ca B 24 th Edition:2023
Magnesium	6.31	mg/l	IS 3025 (Part 46):2023
	Elemental Ana	ysis	
Iron as Fe	<0.025	mg/l	IS 3025 ( Part 53 ): 2019
	Microbiological Pa	rameter	
Total Coliform	Absent	/100 ml	GESEC/LAB/SOP/01

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\*\*\*END OF REPORT\*\*\*

Absent

/100 ml

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GESEC/LAB/SOP/02

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## Terms and conditions

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> > mg/l

mg/l

mg/l

mg/l

mg/l

	TEST R	EPORT			
Test Report No: GESEC/WW/2024-25/07/3030	Report Date			08.07.2024	
Sample ID : GESEC/WW/2024-25/07/3030	Sample Deta	ails		ETP Outlet	
Name and Address of the Customer:	Type of Sam	ple		Waste Water	
M/S Vedanta Metacast Pvt. Ltd,	Volume Of S	Sample		2 Lit Plastic Can + 1 Lit Glass Bottle	
Plot No. PAP -B-60, Chakan Industrial Area,	Sample Stat	us		Sealed	
Phase-II, Bhamboli, Tal-Khed, Dist-Pune.				Green Envirosafe Engineers &	
Mharashtra-410501	Sample Collected By			Consultant Pvt. Ltd, Pune	
	Date of Sam	ple Collection		02.07.2024	
	Date of Sam	ple received i	n lab	03.07.2024	
	Analysis sta	rt Date		03.07.2024	
	Analysis End	Date		08.07.2024	
Parameters	Results	MPCB Limit	Unit	Standard Method	
pH at 25 °C	7.02	5.5-9.0		APHA 4500 H+ B 24 th Edition:2023	
Total Suspended Solids	16.0	<100	mg/l	APHA 2540 D 24 th Edition:2023	
Total Dissolved Solids	378	<2100	mg/l	APHA 2540 C 24 th Edition:2023	

80.0

21.81

<5

62.48

20.19

Sulphate Remark:

Chloride

Oil & Grease

> All parameters are within the MPCB limit.

Chemical Oxygen Demand at 150 °C

Biological Oxygen Demand at 27 °C for 3 days



<250

<30

<10

<600

<1000

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USEPA 410.1 and US-EPA 410.4

USEPA NERL 405.1

APHA 5520 D 24 th Edition:2023

APHA 4500-Cl-B 24 th Edition:2023

APHA 4500-SO4 E 24 th Edition:2023

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	TEST R	EPORT			
Test Report No: GESEC/WW/2024-25/07/3031	Report Date	!		08.07.2024	
Sample ID : GESEC/WW/2024-25/07/3031	Sample Deta	ails		STP Outlet	
Name and Address of the Customer:	Type of Sample			Waste Water	
M/S Vedanta Metacast Pvt. Ltd,	voiding of builties			2 Lit Plastic Can + 1 Lit Glass Bottle	
Plot No. PAP -B-60, Chakan Industrial Area,	Sample Stat	us		Sealed	
Phase-II, Bhamboli, Tal-Khed, Dist-Pune. Mharashtra-410501	Sample Coll	ected By		Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	
	Date of Sam	ple Collection		02.07.2024	
	Date of Sam	ple received i	n lab	03.07.2024	
	Analysis sta	rt Date		03.07.2024	
	Analysis End	d Date		08.07.2024	
Parameters	Results	MPCB Limit	Unit	Standard Method	
pH at 25 °C	6.13	5.5-9.0		APHA 4500 H+ B 24 th Edition:2023	
Total Suspended Solids	24.0	<100	mg/l	APHA 2540 D 24 th Edition:2023	
Total Dissolved Solids	520	<2100	mg/l	APHA 2540 C 24 th Edition:2023	
Chemical Oxygen Demand at 150 °C	120.0	<250	mg/l	USEPA 410.1 and US-EPA 410.4	
Biological Oxygen Demand at 27 °C for 3 days	27.27	<30	mg/l	USEPA NERL 405.1	
Oil & Grease	<5	<10	mg/l	APHA 5520 D 24 th Edition:2023	
Chloride	107.46	<600	mg/l	APHA 4500-Cl-B 24 th Edition:2023	
Sulphata	32.30	<1000	mg/l	APHA 4500-SO4 E 24 th Edition:2023	
Sulphate	32.30	12000			

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Remark:

All parameters are within the MPCB limit.

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		TE	ST REPORT			
Report No: GESEC/SO/2024-2	5/07/3032		Report Date	08.07.2024		
Sample Code: GESEC/SO/2024-25/07/3032			Date of Sampling	02.07.2024		
Name & Address of the Custon			Start Date of Analysis	03.07.2024		
M/S Vedanta Metacast Pvt. Ltd	d,		End Date of Analysis	08.07.2024		
Plot No. PAP -B-60, Chakan Ind	ustrial Area,		Sample Details	Near Garden Soil		
Phase-II, Bhamboli, Tal-Khed, [			Nature of sample	solid		
Sample Collected By	Green Envir	osafe Engineers	& Consultant Pvt. Ltd, Pune			
Parameter	Result	Unit	Standard Me			
	7.00		Manual Soil Testing in India (Dept of A	agriculture and cooperation,		
рН	7.96		Ministry of Agri Gov. of India, page No	0.77 : 2011		
			ICARDA-Methods of soil, Plant and wa	iter analysis, Page No. 67-		
Electrical Conductivity	289.9	Mmhos/cm	68:2013			
			ICARDA-Methods of soil, Plant and wa	iter analysis, Page No.		
Water Contents/Moisture	21.23	%	26:2013	, , , , , ,		
	600	ML/L	ICARDA Method of Soil, Plant, and water analysis: Page No. 28			
Water Holding Capacity	000	Kg/ha	ICARDA-Methods of soil, Plant and water analysis, Page No. 87			
Available Nitrogen	8.96	Ng/11a	89:2013			
Available Phosphorus	10.05	Kg/ha	ISRIC, Page No.14-1:2002			
Available Potassium	240	Kg/ha	Food and agriculture organization Sec III,8-1,Page no115			
Organic Matter	1.94	%	ICARDA-Methods of soil, Plant and water analysis, Page No. 74:2013			
Exchangeable Calcium	14.8	Mg/kg	ICARDA-Methods of soil, Plant and wa 116:2013	ter analysis, Page No. 113-		
Exchangeable Magnesium	10.0	Mg/kg	ICARDA-Methods of soil, Plant and wa 116:2013	ter analysis, Page No. 113-		
	2.2	Mg/kg	Soil Analysis a laboratory manual PK B	ehera Page no 54 & 55		
Chloride	2.2	IAIR\ KR	ICARDA-Methods of soil, Plant and wa			
Boron	12.78	Mg/kg	114:2013			
Organic Carbon (TOC)	1.12	%	ICARDA-Methods of soil, Plant and wa :2013	ter analysis, Page No. 74		
	Clay	98	Internal Confession of the Con	lant and water analysis: A		
	Sand	3	ICARDA -3rd Edition methods of soil, r manual for the west Asia and North A			
Particle Size Distribution %	Slit	5	manual for the west Asia and North A	irica region page no.50.2013		
				, do .		



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	TEST	REPORT					
Test Report No: -	GESEC/AAQM/2024-25/07/3047			Report Date		08.07.2024	
Sample ID: -	GESEC/AAQM/2024-25/07/3047			Date	00.0	7.2024	
	BA/CM-device Backgood Dub 1	A-d					
Name & Address of the	M/S Vedanta Metacast Pvt. L Plot No. PAP -B-60, Chakan Ir						
Customer	Bhamboli, Tal-Khed, Dist-Pun						
		Sample Details					
		ng Location		Sa	mpling dor	ne hy	
Туре	Sampiir	ig Location			nvirosafe E		
Ambient Air	Near N	Main Gate			iltant Pvt. L		
	Samp	ling Time					
Start Time		p Time			Total Hrs		
10.40 am	05.	40 pm			08 Hrs.		
	Meteorological Data/	<b>Environmental Conditions</b>					
Ambient Temperature °C	31				C 28		
Dry Bulb Temperature °C	31	Relative Humidity %	RH	82			
Date of Sampling	Sample Receipt Date	Analysis Start Date		Ar	alysis End	Date	
02.07.2024	03.07.2024 03.07.2024			08.07.2024			
Name of Instrument	Fine Dust Sampler	Date Of Calibration		26/04/2024			
Calibration Certificate No.	FDS 24/GESEC/Lab/Inst/70	Due Date of Calibration	1		25/04/202	25	
Parameters	Meth	nod	Unit		NAAQ andards	Result	
Sulphur Dioxide (SO <sub>2</sub> )	CPCB Guidelines, Volume I	,36/2012-13, Page no. 01	μg/m	3	≤ 80	21.29	
Nitrogen Dioxide (NO <sub>2</sub> )	CPCB Guidelines, Volume I	,36/2012-13, Page no. 07	μg/m	3	≤ 80	28.02	
Particulate Matter PM <sub>10</sub>	CPCB Guidelines, Volume I	,36/2012-13, Page no. 11	μg/m	3	≤ 100	52.89	
Particulate Matter PM <sub>2.5</sub>	CPCB Guidelines, Volume I		μg/m	3	≤ 60	22.50	
Ozone(O₃) For 1 Hrs.	CPCB Guidelines, Volume I		μg/m	3	≤ 180	11.38	
Ammonia (NH₃) For 24 Hrs.	CPCB Guidelines, Volume 1		μg/m	3	≤400	9.61	
Carbon Monoxide (CO)	CPCB Guidelines, Volume II,		mg/M	13	≤ 04	0.52	
Benzene ( $C_6H_6$ )	Method	TO-17	μg/M	3	≤ 05	<0.5	
Benzo(a)Pyrene (BaP)	CPCB Guidelines, Volume I,	36/2012-13, Page no. 40	ng/M	3	≤ 01	<0.02	
Arsenic (As)	MASA-822 3		ng/M	3	≤ 06	0.46	
Nickel (Ni)	MASA-822 3	rd Edition	ng/M	3	≤ 20	2.01	
_ead (Pb)	MASA-822 3	rd Edition	μg/M	3	≤1.0	0.010	

All above results are within National Ambient Air Quality standards.



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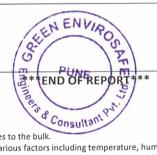
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	TEST RE	PORT				
Test Report No: -	GESEC/AAQM/2024-25/07/3	048	- I Data		00.07.2024	
Sample ID: -	GESEC/AAQM/2024-25/07/3	048	ort Date		08.07.2024	
Name & Address of the Customer	M/S Vedanta Metacast Pvt. Ltd Plot No. PAP -B-60, Chakan Indu Bhamboli, Tal-Khed, Dist-Pune.	ustrial Area, Phase-II, Mharashtra-410501				
	Ambient Air Sa			1		
Туре	Sampling	Location			Sampling don	
Ambient Air	Near	ETP			n Envirosafe Er nsultant Pvt. Li	
	Samplin	g Time		,		
Start Time	Stop	Time			Total Hrs.	
10.30 am	05.30	0 pm			08 Hrs.	
	Meteorological Data/En					
Ambient Temperature °C	31	Wet Bulb Tempe		28		
Dry Bulb Temperature °C	31	Relative Humic	dity % RH		82	*
Date of Sampling	Sample Receipt Date	Analysis Start	Date		Analysis End	Date
02.07.2024	03.07.2024	03.07.2024	1	08.07.2024		4
Name of Instrument	Fine Particulate Sampler	Date Of Calibra	ation		26/04/202	4
Calibration Certificate No.	107L2/GESEC/Lab/Inst/73	Due Date of Calil	oration	25/04/2025		5
Parameters	Method	d	U	nit	NAAQ Standards	Result
Sulphur Dioxide (SO <sub>2</sub> )	CPCB Guidelines, Volume I ,36	6/2012-13, Page no. 0	1 μg,	/m³	≤ 80	24.34
Nitrogen Dioxide (NO <sub>2</sub> )	CPCB Guidelines, Volume 1,36	6/2012-13, Page no. 0	7 μg,	/m³	≤ 80	29.34
Particulate Matter PM <sub>10</sub>	CPCB Guidelines, Volume I ,36	6/2012-13, Page no. 1	1 μg,	/m³	≤ 100	50.72
Particulate Matter PM <sub>2.5</sub>	CPCB Guidelines, Volume I ,36	6/2012-13, Page no. 1	5 μg,	/m³	≤ 60	23.75
Ozone(O <sub>3</sub> ) For 1 Hrs.	CPCB Guidelines, Volume 1,36	6/2012-13, Page no. 3	1 μg,	/m³	≤ 180	11.12
Ammonia (NH₃) For 24 Hrs.	CPCB Guidelines, Volume 1,3			/m³	≤400	9.50
Carbon Monoxide (CO)	CPCB Guidelines, Volume II, 3	7/2012-13, Page no. 1		/M³	≤ 04	0.50
Benzene (C <sub>6</sub> H <sub>6</sub> )	Method TO	0-17	μg,	/M <sup>3</sup>	≤ 05	<0.5
Benzo(a)Pyrene (BaP)	CPCB Guidelines, Volume I, 3	6/2012-13, Page no. 4	0 ng/	/M <sup>3</sup>	≤ 01	<0.02
Arsenic (As)	MASA-822 3rd	Edition	ng,	/M³	≤ 06	1.66
Nickel (Ni)	MASA-822 3rd	Edition	ng,	/M <sup>3</sup>	≤ 20	1.96
Lead (Pb)	MASA-822 3rd	Edition	μg,	/M³	1.00	0.008

## Remark-

All above results are within National Ambient Air Quality standards.



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	TEST RE	PORT						
Test Report No: -	GESEC/ANLM/2024-25/07/3049-3050 Report I			08.07.2024				
Sample ID: -	GESEC/ANLM/2024-25/07,	/3049-3050	Date	00.07.2024				
2 2 1 1	M/S Vedanta Metacast Pvt. Ltd,							
Name & Address of the Customer	Plot No. PAP -B-60, Chakan I	ndustrial Area, Phase-II,						
Customer	Bhamboli, Tal-Khed, Dist-Pur	ne. Mharashtra-410501						
	Ambient Noise	e Sample Details						
Туре	Ambient Noise							
Sampling done by	Green Envirosafe Engineers &	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune						
Standard method	As Per IS: 9989:2020							
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis End Date				
02.07.2024		^						
Name of Instrument	Sound Level Meter	Date of Calibration		16/02/2024				
Calibration Certificate No.	GESEC/LAB/INST/29	Due Date of Calibration		15/02/2025				
				CPCB Standards				
Test Location	Unit	Average Noise Level Readings	5	dB(A)				
lear Main Gate	dB(A)	67.5	_	; Day time = 75 dB (A) ; Night time = 75 dB (A				
Vear ETP	dB(A)	66.5	During	Night time - 75 db (A				

- All above Noise level results are within Central Pollution Control Board Standards limit. THENVIROS PR
- Day/Night -75/70 dB.

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	TEST R	EPORT			
Test Report No: -	GESEC/WZM/2024-25/07/30	51	Report D	08 (	07.2024
Sample ID: -	GESEC/WZM/2024-25/07/30	51	Keport	vate 00.0	
	M/S Vedanta Metacast Pvt. Ltd				
Name & Address of the	Plot No. PAP -B-60, Chakan Industrial Area, Phase-II,				
Customer	Bhamboli, Tal-Khed, Dist-Pune. Mharashtra-410501				
	Bhamboll, Tal-Kned, Dist-Pune.	WillaraSiiti	a-410301		
	WORK ZONE AIR	Sample De	tails		
Туре	Sampling Lo	ocation		Sampling	g done by
	VMC 2	)_2		Green Enviros	_
Work zone Air	300000000000000000000000000000000000000			Consultant F	vt. Ltd, Pune
	Sampling	g Time			
Start Time	Stop Time			Total Hrs.	
11.30 am	11.45a	am		15 Min	
	Meteorological Data/Env				
Ambient Temperature °C	29		Temperature °C	25	
Dry Bulb Temperature °C	29	Relative	Humidity % RH	8	0
Date of Sampling	Sample Receipt Date	Analysis	Start Date	Analysis End Date	
02.07.2024	03.07.2024	03.0	7.2024	08.07	.2024
Name of Instrument	Handy sampler	Date Of Calibration			/2024
Calibration Certificate No.	220412/GESEC/LAB/INST/100	Due Date	e of Calibration	25/04	/2025
Parameters	Method		Unit	As per Factory Act	Result
ulphur Dioxide (SO <sub>2</sub> )	GESEC/LAB/SOP/WZM/28	3	mg/m³	≤ 5000	9.44
oxides of Nitrogen (NO <sub>2</sub> )	GESEC/LAB/SOP/WZM/29	9	mg/m³	≤ 6000	14.49
uspended particular Matter	GESEC/LAB/SOP/WZM/30	)	mg/m³	N.S.	12.33

- All above results are well within The Factories Act, 1948 Standards.
- N.S .Not Specified

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	TEST RE	PORT	-		
Test Report No: -	GESEC/WZM/2024-25/07/305	Report Date		08.07.20	24
Sample ID: -	GESEC/WZM/2024-25/07/305	2	Report Date	00.07.20	
Name & Address of the	M/S Vedanta Metacast Pvt. Ltd, Plot No. PAP -B-60, Chakan Indu				
	Bhamboli, Tal-Khed, Dist-Pune. I	Mharashtr	a-410501		
	WORK ZONE AIR S	Sample De	tails		
Туре	Sampling	Location		Samplin	g done by
Work zone Air	Centre of Fu	rnace 1,2,3	}		safe Engineers Pvt. Ltd, Pune
	Sampling	Time			
Start Time	Stop T	ime		Total Hrs.	
11.50 pm	12.05	pm		15 Min	
	Meteorological Data/Envi				
Ambient Temperature °C	29	51 07 100 000 000	ulb Temperature °C	25	
Dry Bulb Temperature °C	29	Relat	tive Humidity % RH	80	
Date of Sampling	Sample Receipt Date	Ana	lysis Start Date	Analysis End Date	
02.07.2024	03.07.2024		03.07.2024	08.07	7.2024
Name of Instrument	Handy sampler	100000000000000000000000000000000000000	Of Calibration	26/04/2024	
Calibration Certificate No.	220413/GESEC/LAB/INST/101	Due Da	ate of Calibration	25/04	4/2025
Parameters	Method		Unit	As per Factory Act	Result
Sulphur Dioxide (SO <sub>2</sub> )	GESEC/LAB/SOP/WZM/28	8	mg/m³	≤ 5000	7.08
Oxides of Nitrogen (NO <sub>2</sub> )	GESEC/LAB/SOP/WZM/29	9	mg/m³	≤ 6000	9.86
Suspended particular Matter	GESEC/LAB/SOP/WZM/30			N.S.	13.00

- All above results are well within The Factories Act, 19
- N.S. Not Specified

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	TEST R	EPORT			
Test Report No: -	GESEC/WZM/2024-25/07/305	53	Report Date	08.07.202	4
Sample ID: -	GESEC/WZM/2024-25/07/305	53	Report Date	00.07.202	T.
0.011	M/S Vedanta Metacast Pvt. Ltd,				
Name & Address of the Customer		Plot No. PAP -B-60, Chakan Industrial Area, Phase-II,			
Customer	Bhamboli, Tal-Khed, Dist-Pune. Mharashtra-410501				
	WORK ZONE AIR	Sample D	otails		
			etalis	Sampling	done by
Туре	Sampling	Location		Green Envirosa	
Work zone Air	Coating B	ooth 1,2			vt. Ltd, Pune
	Samplin	g Time			,
Start Time	Stop .			Total Hrs.	
12.10 am	12.25			15 Min	
12.10 0111	Meteorological Data/En	vironment	al Conditions		
Ambient Temperature °C	29		Bulb Temperature °C	26	
Dry Bulb Temperature °C	29	Rela	tive Humidity % RH	80	
Date of Sampling	Sample Receipt Date		lysis Start Date	Analysis End Date	
02.07.2024	03.07.2024		03.07.2024	08.07	.2024
Name of Instrument	Handy sampler	Date	e Of Calibration	26/04	/2024
Calibration Certificate No.	220412/GESEC/LAB/INST/100	Due D	ate of Calibration	25/04	/2025
Parameters	Method		Unit	As per Factory Act	Result
Sulphur Dioxide (SO <sub>2</sub> )	GESEC/LAB/SOP/WZM/	′28	mg/m³	≤ 5000	11.81
Oxides of Nitrogen (NO <sub>2</sub> )	GESEC/LAB/SOP/WZM/			≤ 6000	9.86
Suspended particular Matter	GESEC/LAB/SOP/WZM/	<b>′</b> 30	mg/m³	N.S.	12.67
Remark	well within The Factories Act, 1948	Standards			

N.S. Not Specified

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	TEST	REPORT		
Test Report No: -	GESEC/WNLM/2024-25/	Report Date	08.07.2024	
Sample ID: -	GESEC/WNLM/2024-25/	07/3054-3067	Report Date	00.07.2021
Name & Address of the Customer	M/S Vedanta Metacast Pvi Plot No. PAP -B-60, Chakar Bhamboli, Tal-Khed, Dist-P	Industrial Area, Phase-II,		
		oise Sample Details		
Туре	Work Zone Noise	0.0 1	9	
Sampling done by	Green Envirosafe Engineers	& Consultant Pvt. Ltd, Pune		
Date of Sampling	Sample Receipt Date	Analysis Start Date	Ai	nalysis End Date
02.07.2024				
Name of Instrument	Sound Level Meter	Date of Calibration		16/02/2024
Calibration Certificate No.	GESEC/LAB/INST/29	Due Date of Calibration		15/02/2025
Test Location	Unit	Average Noise Level Readi	ngs The	Factories Act 1948, standards
Inspection Table	dB (A)	80.1		
Center Of VMC Machine	dB (A)	80.5		
VMC Machine Inspection Table	dB (A)	87.1		
PT Line Area	dB (A)	82.1	1	
Powder Coating Area	dB (A)	76.9		
Shop Floor Canteen Area	dB (A)	76.1		
Prechihole BTA 03	dB (A)	74.7		
Melting Furnace Area	dB (A)	82.7		
GDC Inspection Table	dB (A)	80.2		
Stores	dB (A)	81.8		
Maintenance Area	dB (A)	75.1		≤90
Standard Room	dB (A)	79.9		
First Floor office	dB (A)	79.8		
Ground Floor office Area	dB (A)	69.8		

## Remark-

The Factories Act, 1948, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours exposure.



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	TEST REPO	RT		_				
Test Report No: -	GESEC/ISR/2024-25/07/3068	oort Date	08.07.2024					
Sample ID: -	GESEC/ISR/2024-25/07/3068	-3081	Jort Date	08.07.2024				
Name & Address of the Customer	M/S Vedanta Metacast Pvt. Ltd, Plot No. PAP -B-60, Chakan Industrial Area, Phase-II, Bhamboli, Tal-Khed, Dist-Pune. Mharashtra-410501							
		GOTTER DE COURT SERVICE DESTRUCTU.						
	Illumination Sam	ple Details						
Sampling done by	Green Envirosafe Engineers & Co	onsultant Pvt. Ltd, Pune						
		A		Aughoria Ford Date				
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis End Date				
02.07.2024								
Name of Instrument	Digital Lux Meter	Date of Calibration		06/05/2024				
Calibration Certificate No.	S1069789/GESEC/Lab/Inst/91	Due Date of Calibration		05/05/2025				
	Illumination Sur	vey Report						
Test Location	Result	Limit		Unit				
Inspection Table	448	500						
Center Of VMC Machine	1320	500						
VMC Machine Inspection Table	1545	500						
PT Line Area	440	100						
Powder Coating Area	1830	100						
Shop Floor Canteen Area	246	100						
Prechihole BTA 03	890	300		Lux				
Melting furnace Area	400	100		Lun				
GDC Inspection Table	1040	500						
Stores	1430	100						
Maintenance Area	640	100						
Standard Room	355	100						
First Floor office	410	100						
Ground Floor office Area	590	100						
Remark-								

Illumination Level in the factory is found satisfactory, as per The Factories Act, 1948



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	TEST REP	ORT						
Test Report No	GESEC/ST/2024-25/07/308	Report Dat	е	08.07.2024				
Sample ID: -	GESEC/ST/2024-25/07/3082							
	20/6 V. J. J. 20/6 V. J. 30/6 V. 3							
Name & Address of the	M/S Vedanta Metacast Pvt. Ltd,							
Customer	Plot No. PAP -B-60, Chakan Industrial Area, Phase-II, Bhamboli, Tal-Khed, Dist-Pune. Mharashtra-410501							
	Sample De		301					
Sample collection Date	Sample receipt Date	Analysis start Date Analysis complete						
02.07.2024	03.07.2024	03.07.202	24	30	3.07.2024			
	Instrument	Details						
Name Of Instrument	Stack Sampler	ration	16/02/2024					
Calibration Certificate No.	58L14/GESEC/LAB/INST/60	ibration	15/02/2025					
	Stack De	tails						
Stack No/ID	Stack Attached to Sampling done by							
	DG Set - 320 KVA  Green Envirosafe Eng Consultant Pvt. Ltd							
Shape	Round	Fuel Use						
Diameter/ Dimensions ( m)	0.150	Pressure 5.6						
Height ( m)	Above Roof							
Temperature ( k )	403	Velocity ( m	n/s) 9	9.29				
Gas Volume (Nm³)	436.899							
					_			
Parameters	Method	Unit	Lim	it	Result			
articulate Matter	EPA METHOD 17: 2017	mg/NM³	<15	50	30.60			
ulphur Dioxide (SO <sub>2</sub> )	EPA METHOD 06: 2017	mg/NM³			20.11			
ılphur Dioxide (SO₂)	EPA METHOD 06: 2017	Kg/day	5	0.21				

All above results are well within MPCB Limit.



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	TEST REP	ORT							
Test Report No	GESEC/ST/2024-25/07/308	Report Date	2	08.07.2024					
Sample ID: -	GESEC/ST/2024-25/07/3083								
Name & Address of the	M/S Vedanta Metacast Pvt. Ltd,								
Customer	Plot No. PAP -B-60, Chakan Industrial Area, Phase-II,								
	Bhamboli, Tal-Khed, Dist-Pun		01						
	Sample D								
Sample collection Date	Sample receipt Date	Analysis start 03.07.2024		-	complete Date				
02.07.2024	03.07.2024	4	8	.07.2024					
	Instrument	Details							
Name Of Instrument	Stack Sampler	ation	13/10/2023						
Calibration Certificate No.	5919/GESEC/LAB/INST/33	bration	12/10/2024						
	Stack De	tails							
Stack No/ID	Stack Attached to Sampling done by								
,	Molting Furnace Green Envirosafe								
	Weiting	Melting Furnace Consultant Pvt. Ltd, Pu							
Shape	Round	Fuel Used							
Diameter/ Dimensions ( m)	0.400	Pressure	5.4						
Height ( m)	10.0								
Temperature ( k )	433	Velocity ( m/s)			9.45				
Gas Volume (Nm³)	2943.270								
Parameters	Method	Unit	Lim	it	Result				
Particulate Matter	EPA METHOD 17: 2017	mg/NM³	<15	0	29.53				
Sulphur Dioxide (SO <sub>2</sub> )	EPA METHOD 06: 2017	mg/NM³							
Sulphur Dioxide (SO₂)	EPA METHOD 06: 2017	017 Kg/day <0.5			1.60				

All above results are well within MPCB Limit. SEN ENVIRON

BDL - Below Detection Limit.

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		TES	ST REPORT						
Test Report No: -	GESEC/DIL/2024-25/07/3084				eport Date	08.07.2024			
Sample ID: -	GESEC/DIL/2024-25/07/3084				eport Date	00.07.2024			
	M/S Vedanta	a Metacast Pv	rt. Ltd,						
Name & Address of the Customer	Plot No. PAP	-B-60, Chaka	n Industrial Ar	rea, Phase-II,					
Customer	Bhamboli, Tal-Khed, Dist-Pune. Mharashtra-410501								
		DG Noise	Monitoring R	Report					
Туре	DG Noise								
Sampling done by	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune								
Date of Sampling	Sample	Receipt Date	A	nalysis Start [	Date	Analysis End Date			
02.07.2024									
Name of Instrument	Sound Level Meter Date of Ca				tion	16/02/2024			
Calibration Certificate No.	GESEC/	GESEC/LAB/INST/29 Due Date of				15/02/2025			
Test Location	Reading in dB(A)				Avg.	Difference -ID/A			
			vay from DG	NAV+ Cida		Difference dB(A)			
	North Side	East Side	South Side DG. SET - 320	West Side		7			
	1000	1.	99.8		99.9				
Without Enclosure	100.2	101.4		98.5	99.9	25.4			
With Enclosure	75.4	73.7	76.3	72.9	74.5				

## Remark-

Maharashtra Pollution Control Board has prescribed minimum 25 dB (A) Noise as DG Insertion loss difference during With and Without enclosure of DG

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			TES	ST REPOR	Т						
Test Report No: -GESEC/VSR/2024-25/07/3085-3090					Dono	rt Date	08	07.2024			
Sample ID: -GESEC/VSR/2024-25/07/3085-3090				керо	rt Date	00.	08.07.2024				
				M/S Vedanta Metacast Pvt. Ltd,							
Name & Address of the Customer					Plot No. PAP -B-60, Chakan Industrial Area, Phase-II,						
					Bhamboli, Tal-Khed, Dist-Pune. Mharashtra-410501						
		Ver	tilation Su	rvey Sam	ple Details						
	Type				Samplin	g Location		ing done by			
Ventil	ation Su	rvev					The state of the s	Green Envirosafe Engineers &			
				ě.			Consultan	t Pvt. Ltd, Pune			
Date of Sampling		Sample Receipt Date			Δnalysis	Start Date	Analys	Analysis End Date			
02.07.2024					Anarysis						
02.07.2021											
Name of Instrument		Anemometer			Date of	Calibration	06/05/2024				
Calibration Certificate No.	2016	165005526/GESEC/LAB/INST/95			Due Date o	of Calibratio	05/05/2025				
					Ţ						
Location Name		Incoming Velocity n					Observation	Remark			
Eocation Name		1	2	3	4	m/s					
VMC Machine Area		0.9	0.7	0.5	0.9	0.75	Adequate Air Movement	Comfortable			
PT Line Area		0.8	0.9	0.6	1.1	0.85	Adequate Air Movement	Comfortable			
Precihole Area		0.6	0.9	1.2	0.5	0.8	Adequate Air Movement	Comfortable			
Melting furnace Area		0.9	0.6	0.8	1.0	0.82	Adequate Air Movement	Comfortable			
Store Area		0.6	0.8	0.6	0.5	0.62	Adequate Air Movement	Comfortable			
Buffing Area		0.8	1.0	0.9	0.7	0.85	Adequate Air Movement	Comfortable			

## Remark-

- Air Velocity should be at least 0.5m/s to produce cooling effect.
- While determining ventilation status Adequate Air Movement is considered as primary factor.
- Comfortable indicates Air Movement  $\geq$  0.5m/s and uncomfortable indicates  $\leq$ 0.5m/s.
- Observation: Adequate Air Movement.
- As per Rule 22-A of Maharashtra factories Rule 1963 air velocity at all above location is more than 0.5m/s which shows adequate air movement and comfortable work environment.

PUNE Gireers & Consultant

\*\*\*END OF REPORT\*\*\*

Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By

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- The report is refer only to the sample tested and not applies to the bulk.
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- If on site their is no proper sampling location, Source or port available the results of testing are not challenge.
- MoEF approved Lab by Govt. of India. till 28/02/2026 and NABL approved by Quality Council of India. till 28/02/2026.