


Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)
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TEST REPORT		
Test Report No -GESEC/DW/2024-25/07/3028	Report Date	08.07.2024
Sample ID - GESEC/DW/2024-25/07/3028	Sample Details	MIDC Pipeline Water
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	Type of Sample	Water
	Volume Of Sample	2 Lit Plastic Can
	Sample Status	Sealed
	Sample Collected By	Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune
	Date of Sample Collection	02.07.2024
	Date of Sample received in lab	03.07.2024
	Analysis start Date	03.07.2024
	Analysis End Date	08.07.2024

WATER ANALYSIS REPORT			
Parameter	Result	Unit(s)	Standard Method
Physical Parameter			
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 Parameter			
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-Cl-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
Microbiological Parameter			
Total Coliform	Absent	/100 ml	GESEC/LAB/SOP/01
E-Coli	Absent	/100 ml	GESEC/LAB/SOP/02




Mr. Vinod Hande
 (Technical Manager)
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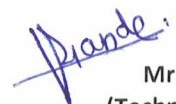
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TEST REPORT		
Test Report No - GESEC/DW/2024-25/07/3029	Report Date	08.07.2024
Sample ID - GESEC/DW/2024-25/07/3029	Sample Details	Borewell Water
Name & Address of the Customer – M/S Vedanta Metacast Pvt. Ltd, Plot No. PAP -B-60, Chakan Industrial Area, Phase-II, Bhamboli, Tal-Khed, Dist-Pune. Mharashtra-410501	Type of Sample	Water
	Volume Of Sample	2 Lit Plastic Can
	Sample Status	Sealed
	Sample Collected By	Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune
	Date of Sample Collection	02.07.2024
	Date of Sample received in lab	03.07.2024
	Analysis start Date	03.07.2024
	Analysis End Date	08.07.2024

WATER ANALYSIS REPORT			
Parameter	Result	Unit(s)	Standard Method
Physical Parameter			
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
Chemical Parameter			
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 Analysis			
Iron as Fe	<0.025	mg/l	IS 3025 (Part 53): 2019
Microbiological Parameter			
Total Coliform	Absent	/100 ml	GESEC/LAB/SOP/01
E-Coli	Absent	/100 ml	GESEC/LAB/SOP/02


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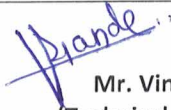
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TEST REPORT				
Test Report No: GESEC/WW/2024-25/07/3030	Report Date	08.07.2024		
Sample ID : GESEC/WW/2024-25/07/3030	Sample Details	ETP Outlet		
Name and Address of the Customer: M/S Vedanta Metacast Pvt. Ltd, Plot No. PAP -B-60, Chakan Industrial Area, Phase-II, Bhamboli, Tal-Khed, Dist-Pune. Mharashtra-410501	Type of Sample	Waste Water		
	Volume Of Sample	2 Lit Plastic Can + 1 Lit Glass Bottle		
	Sample Status	Sealed		
	Sample Collected By	Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune		
	Date of Sample Collection	02.07.2024		
	Date of Sample received in lab	03.07.2024		
	Analysis start 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
Chemical Oxygen Demand at 150 °C	80.0	<250	mg/l	USEPA 410.1 and US-EPA 410.4
Biological Oxygen Demand at 27 °C for 3 days	21.81	<30	mg/l	USEPA NERL 405.1
Oil & Grease	<5	<10	mg/l	APHA 5520 D 24 th Edition:2023
Chloride	62.48	<600	mg/l	APHA 4500-CI-B 24 th Edition:2023
Sulphate	20.19	<1000	mg/l	APHA 4500-SO4 E 24 th Edition:2023
Remark:				
➤ All parameters are within the MPCB limit.				
		 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By		

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TEST REPORT				
Test Report No: GESEC/WW/2024-25/07/3031	Report Date	08.07.2024		
Sample ID : GESEC/WW/2024-25/07/3031	Sample Details	STP Outlet		
Name and 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	Type of Sample	Waste Water		
	Volume Of Sample	2 Lit Plastic Can + 1 Lit Glass Bottle		
	Sample Status	Sealed		
	Sample Collected By	Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune		
	Date of Sample Collection	02.07.2024		
	Date of Sample received in lab	03.07.2024		
	Analysis start Date	03.07.2024		
	Analysis End 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
Sulphate	32.30	<1000	mg/l	APHA 4500-SO4 E 24 th Edition:2023
Remark:				
➤ All parameters are within the MPCB limit.				
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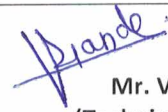
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TEST REPORT

Report No: GESEC/SO/2024-25/07/3032		Report Date		08.07.2024
Sample Code: GESEC/SO/2024-25/07/3032		Date of Sampling		02.07.2024
Name & Address of the Customer – M/S Vedanta Metacast Pvt. Ltd, Plot No. PAP -B-60, Chakan Industrial Area, Phase-II, Bhamboli, Tal-Khed, Dist-Pune. Maharashtra-410501		Start Date of Analysis		03.07.2024
		End Date of Analysis		08.07.2024
		Sample Details		Near Garden Soil
		Nature of sample		solid
Sample Collected By		Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune		
Parameter	Result	Unit	Standard Method	
pH	7.96	---	Manual Soil Testing in India (Dept of Agriculture and cooperation, Ministry of Agri Gov. of India, page No.77 : 2011	
Electrical Conductivity	289.9	Mmhos/cm	ICARDA-Methods of soil, Plant and water analysis, Page No. 67-68:2013	
Water Contents/Moisture	21.23	%	ICARDA-Methods of soil, Plant and water analysis, Page No. 26:2013	
Water Holding Capacity	600	ML/L	ICARDA Method of Soil, Plant, and water analysis: Page No. 28-29	
Available Nitrogen	8.96	Kg/ha	ICARDA-Methods of soil, Plant and water analysis, Page No. 87-89:2013	
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 water analysis, Page No. 113-116:2013	
Exchangeable Magnesium	10.0	Mg/kg	ICARDA-Methods of soil, Plant and water analysis, Page No. 113-116:2013	
Chloride	2.2	Mg/kg	Soil Analysis a laboratory manual PK Behera Page no.54 & 55	
Boron	12.78	Mg/kg	ICARDA-Methods of soil, Plant and water analysis, Page No. 114:2013	
Organic Carbon (TOC)	1.12	%	ICARDA-Methods of soil, Plant and water analysis, Page No. 74 :2013	
Particle Size Distribution %	Clay	98	ICARDA -3rd Edition methods of soil, plant,and water analysis: A manual for the west Asia and North Africa region page no.30:2013	
	Sand	3		
	Slit	5		


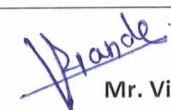
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TEST REPORT				
Test Report No: -	GESEC/AAQM/2024-25/07/3047		Report Date	08.07.2024
Sample ID: -	GESEC/AAQM/2024-25/07/3047			
Name & Address of the Customer	M/S Vedanta Metacast Pvt. Ltd, Plot No. PAP -B-60, Chakan Industrial Area, Phase-II, Bhamboli, Tal-Khed, Dist-Pune. Mharashtra-410501			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Near Main Gate		Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
10.40 am	05.40 pm		08 Hrs.	
Meteorological Data/Environmental Conditions				
Ambient Temperature °C	31	Wet Bulb Temperature °C	28	
Dry Bulb Temperature °C	31	Relative Humidity % RH	82	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis 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	25/04/2025	
Parameters	Method	Unit	NAAQ Standards	Result
Sulphur Dioxide (SO ₂)	CPCB Guidelines, Volume I ,36/2012-13, Page no. 01	µg/m ³	≤ 80	21.29
Nitrogen Dioxide (NO ₂)	CPCB Guidelines, Volume I ,36/2012-13, Page no. 07	µg/m ³	≤ 80	28.02
Particulate Matter PM ₁₀	CPCB Guidelines, Volume I ,36/2012-13, Page no. 11	µg/m ³	≤ 100	52.89
Particulate Matter PM _{2.5}	CPCB Guidelines, Volume I ,36/2012-13, Page no. 15	µg/m ³	≤ 60	22.50
Ozone(O ₃) For 1 Hrs.	CPCB Guidelines, Volume I ,36/2012-13, Page no. 31	µg/m ³	≤ 180	11.38
Ammonia (NH ₃) For 24 Hrs.	CPCB Guidelines, Volume I ,36/2012-13, Page no. 35	µg/m ³	≤400	9.61
Carbon Monoxide (CO)	CPCB Guidelines, Volume II, 37/2012-13, Page no. 16	mg/M ³	≤ 04	0.52
Benzene (C ₆ H 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 3rd Edition	ng/M ³	≤ 06	0.46
Nickel (Ni)	MASA-822 3rd Edition	ng/M ³	≤ 20	2.01
Lead (Pb)	MASA-822 3rd Edition	µg/M ³	≤1.0	0.010
Remark-	➤ All above results are within National Ambient Air Quality standards.			
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		END OF REPORT Page 1 of 1		

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TEST REPORT				
Test Report No: -	GESEC/AAQM/2024-25/07/3048	Report Date	08.07.2024	
Sample ID: -	GESEC/AAQM/2024-25/07/3048			
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			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Near ETP		Green EnviroSafe Engineers & Consultant Pvt. Ltd, Pune	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
10.30 am	05.30 pm		08 Hrs.	
Meteorological Data/Environmental Conditions				
Ambient Temperature °C	31	Wet Bulb Temperature °C	28	
Dry Bulb Temperature °C	31	Relative Humidity % RH	82	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
02.07.2024	03.07.2024	03.07.2024	08.07.2024	
Name of Instrument	Fine Particulate Sampler	Date Of Calibration	26/04/2024	
Calibration Certificate No.	107L2/GESEC/Lab/Inst/73	Due Date of Calibration	25/04/2025	
Parameters	Method	Unit	NAAQ Standards	Result
Sulphur Dioxide (SO ₂)	CPCB Guidelines, Volume I ,36/2012-13, Page no. 01	µg/m ³	≤ 80	24.34
Nitrogen Dioxide (NO ₂)	CPCB Guidelines, Volume I ,36/2012-13, Page no. 07	µg/m ³	≤ 80	29.34
Particulate Matter PM ₁₀	CPCB Guidelines, Volume I ,36/2012-13, Page no. 11	µg/m ³	≤ 100	50.72
Particulate Matter PM _{2.5}	CPCB Guidelines, Volume I ,36/2012-13, Page no. 15	µg/m ³	≤ 60	23.75
Ozone(O ₃) For 1 Hrs.	CPCB Guidelines, Volume I ,36/2012-13, Page no. 31	µg/m ³	≤ 180	11.12
Ammonia (NH ₃) For 24 Hrs.	CPCB Guidelines, Volume I ,36/2012-13, Page no. 35	µg/m ³	≤400	9.50
Carbon Monoxide (CO)	CPCB Guidelines, Volume II, 37/2012-13, Page no. 16	mg/M ³	≤ 04	0.50
Benzene (C ₆ H 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 3rd Edition	ng/M ³	≤ 06	1.66
Nickel (Ni)	MASA-822 3rd Edition	ng/M ³	≤ 20	1.96
Lead (Pb)	MASA-822 3rd Edition	µg/M ³	1.00	0.008
Remark-				
➤ All above results are within National Ambient Air Quality standards.				
			 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By	

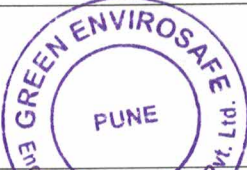

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TEST REPORT

Test Report No: -	GESEC/ANLM/2024-25/07/3049-3050	Report Date	08.07.2024
Sample ID: -	GESEC/ANLM/2024-25/07/3049-3050		
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		
Ambient Noise Sample Details			
Type	Ambient Noise		
Sampling done by	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
Test Location	Unit	Average Noise Level Readings	CPCB Standards dB(A)
Near Main Gate	dB(A)	67.5	During Day time = 75 dB (A) During Night time = 75 dB (A)
Near ETP	dB(A)	66.5	
Remark-			
<ul style="list-style-type: none"> ➤ All above Noise level results are within Central Pollution Control Board Standards limit. ➤ Day/Night -75/70 dB. 			
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TEST REPORT				
Test Report No: -	GESEC/WZM/2024-25/07/3051		Report Date	08.07.2024
Sample ID: -	GESEC/WZM/2024-25/07/3051			
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			
WORK ZONE AIR Sample Details				
Type	Sampling Location		Sampling done by	
Work zone Air	VMC 2-3		Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
11.30 am	11.45am		15 Min	
Meteorological Data/Environmental Conditions				
Ambient Temperature °C	29	Wet Bulb Temperature °C	25	
Dry Bulb Temperature °C	29	Relative Humidity % RH	80	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
02.07.2024	03.07.2024	03.07.2024	08.07.2024	
Name of Instrument	Handy sampler	Date Of Calibration	26/04/2024	
Calibration Certificate No.	220412/GESEC/LAB/INST/100	Due Date of Calibration	25/04/2025	
Parameters	Method	Unit	As per Factory Act	Result
Sulphur Dioxide (SO ₂)	GESEC/LAB/SOP/WZM/28	mg/m ³	≤ 5000	9.44
Oxides of Nitrogen (NO ₂)	GESEC/LAB/SOP/WZM/29	mg/m ³	≤ 6000	14.49
Suspended particular Matter	GESEC/LAB/SOP/WZM/30	mg/m ³	N.S.	12.33
Remark				
<ul style="list-style-type: none"> ➤ All above results are well within The Factories Act, 1948 Standards. ➤ N.S .Not Specified 				
			 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By	

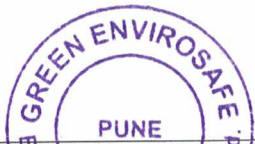
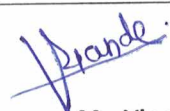
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TEST REPORT				
Test Report No: -	GESEC/WZM/2024-25/07/3052		Report Date	08.07.2024
Sample ID: -	GESEC/WZM/2024-25/07/3052			
Name & Address of the Customer	M/S Vedanta Metacast Pvt. Ltd, Plot No. PAP -B-60, Chakan Industrial Area, Phase-II, Bhamboli, Tal-Khed, Dist-Pune. Mharashtra-410501			
WORK ZONE AIR Sample Details				
Type	Sampling Location		Sampling done by	
Work zone Air	Centre of Furnace 1,2,3		Green EnviroSafe Engineers & Consultant Pvt. Ltd, Pune	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
11.50 pm	12.05 pm		15 Min	
Meteorological Data/Environmental Conditions				
Ambient Temperature °C	29	Wet Bulb Temperature °C	25	
Dry Bulb Temperature °C	29	Relative Humidity % RH	80	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
02.07.2024	03.07.2024	03.07.2024	08.07.2024	
Name of Instrument	Handy sampler	Date Of Calibration	26/04/2024	
Calibration Certificate No.	220413/GESEC/LAB/INST/101	Due Date of Calibration	25/04/2025	
Parameters	Method	Unit	As per Factory Act	Result
Sulphur Dioxide (SO ₂)	GESEC/LAB/SOP/WZM/28	mg/m ³	≤ 5000	7.08
Oxides of Nitrogen (NO ₂)	GESEC/LAB/SOP/WZM/29	mg/m ³	≤ 6000	9.86
Suspended particular Matter	GESEC/LAB/SOP/WZM/30	mg/m ³	N.S.	13.00
Remark				
<ul style="list-style-type: none"> ➤ All above results are well within The Factories Act, 1948 Standards. ➤ N.S .Not Specified 				
			 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By	

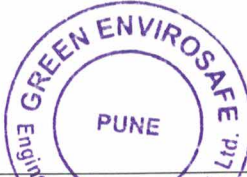

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TEST REPORT				
Test Report No: -	GESEC/WZM/2024-25/07/3053	Report Date	08.07.2024	
Sample ID: -	GESEC/WZM/2024-25/07/3053			
Name & Address of the Customer	M/S Vedanta Metacast Pvt. Ltd, Plot No. PAP -B-60, Chakan Industrial Area, Phase-II, Bhamboli, Tal-Khed, Dist-Pune. Mharashtra-410501			
WORK ZONE AIR Sample Details				
Type	Sampling Location	Sampling done by		
Work zone Air	Coating Booth 1,2	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune		
Sampling Time				
Start Time	Stop Time	Total Hrs.		
12.10 am	12.25 am	15 Min		
Meteorological Data/Environmental Conditions				
Ambient Temperature °C	29	Wet Bulb Temperature °C	26	
Dry Bulb Temperature °C	29	Relative Humidity % RH	80	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
02.07.2024	03.07.2024	03.07.2024	08.07.2024	
Name of Instrument	Handy sampler	Date Of Calibration	26/04/2024	
Calibration Certificate No.	220412/GESEC/LAB/INST/100	Due Date of Calibration	25/04/2025	
Parameters	Method	Unit	As per Factory Act	Result
Sulphur Dioxide (SO ₂)	GESEC/LAB/SOP/WZM/28	mg/m ³	≤ 5000	11.81
Oxides of Nitrogen (NO ₂)	GESEC/LAB/SOP/WZM/29	mg/m ³	≤ 6000	9.86
Suspended particular Matter	GESEC/LAB/SOP/WZM/30	mg/m ³	N.S.	12.67
Remark				
<ul style="list-style-type: none"> ➤ All above results are well within The Factories Act, 1948 Standards. ➤ N.S .Not Specified 				
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TEST REPORT			
Test Report No: -	GESEC/WNLM/2024-25/07/3054-3067	Report Date	08.07.2024
Sample ID: -	GESEC/WNLM/2024-25/07/3054-3067		
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. Maharashtra-410501		
Work Zone Noise Sample Details			
Type	Work Zone Noise		
Sampling done by	Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune		
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
Test Location	Unit	Average Noise Level Readings	The Factories Act 1948, standards
Inspection Table	dB (A)	80.1	≤90
Center Of VMC Machine	dB (A)	80.5	
VMC Machine Inspection Table	dB (A)	87.1	
PT Line Area	dB (A)	82.1	
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	
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.			
		 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By	



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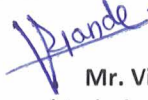
TEST REPORT			
Test Report No: -	GESEC/ISR/2024-25/07/3068-3081	Report Date	08.07.2024
Sample ID: -	GESEC/ISR/2024-25/07/3068-3081		
Name & Address of the Customer	M/S Vedanta Metacast Pvt. Ltd, Plot No. PAP -B-60, Chakan Industrial Area, Phase-II, Bhamboli, Tal-Khed, Dist-Pune. Mharashtra-410501		
Illumination Sample Details			
Sampling done by	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune		
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 Survey Report			
Test Location	Result	Limit	Unit
Inspection Table	448	500	Lux
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	
Melting furnace Area	400	100	
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			
		 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By	

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TEST REPORT				
Test Report No	GESEC/ST/2024-25/07/3082	Report Date	08.07.2024	
Sample ID: -	GESEC/ST/2024-25/07/3082			
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			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
02.07.2024	03.07.2024	03.07.2024	08.07.2024	
Instrument Details				
Name Of Instrument	Stack Sampler	Date Of Calibration	16/02/2024	
Calibration Certificate No.	58L14/GESEC/LAB/INST/60	Due Date of Calibration	15/02/2025	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
--	DG Set - 320 KVA		Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	
Shape	Round	Fuel Used	Diesel	
Diameter/ Dimensions (m)	0.150	Pressure	5.6	
Height (m)	Above Roof			
Temperature (k)	403	Velocity (m/s)	9.29	
Gas Volume (Nm ³)	436.899			
Parameters	Method	Unit	Limit	Result
Particulate Matter	EPA METHOD 17: 2017	mg/NM ³	<150	30.60
Sulphur Dioxide (SO ₂)	EPA METHOD 06: 2017	mg/NM ³	--	20.11
Sulphur Dioxide (SO ₂)	EPA METHOD 06: 2017	Kg/day	<0.5	0.21
Remarks-				
➤ All above results are well within MPCB Limit.				
			 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By	

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TEST REPORT				
Test Report No	GESEC/ST/2024-25/07/3083	Report Date	08.07.2024	
Sample ID: -	GESEC/ST/2024-25/07/3083			
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			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
02.07.2024	03.07.2024	03.07.2024	08.07.2024	
Instrument Details				
Name Of Instrument	Stack Sampler	Date Of Calibration	13/10/2023	
Calibration Certificate No.	5919/GESEC/LAB/INST/33	Due Date of Calibration	12/10/2024	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
--	Melting Furnace		Green EnviroSafe Engineers & Consultant Pvt. Ltd, Pune	
Shape	Round	Fuel Used	Diesel	
Diameter/ Dimensions (m)	0.400	Pressure	5.4	
Height (m)	10.0			
Temperature (k)	433	Velocity (m/s)	9.45	
Gas Volume (Nm ³)	2943.270			
Parameters	Method	Unit	Limit	Result
Particulate Matter	EPA METHOD 17: 2017	mg/NM ³	<150	29.53
Sulphur Dioxide (SO ₂)	EPA METHOD 06: 2017	mg/NM ³	--	22.66
Sulphur Dioxide (SO ₂)	EPA METHOD 06: 2017	Kg/day	<0.5	1.60
Remarks-				
<ul style="list-style-type: none"> ➤ All above results are well within MPCB Limit. ➤ BDL - Below Detection Limit. 				
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TEST REPORT						
Test Report No: -	GESEC/DIL/2024-25/07/3084				Report Date	08.07.2024
Sample ID: -	GESEC/DIL/2024-25/07/3084					
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					
DG Noise Monitoring Report						
Type	DG Noise					
Sampling done by	Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune					
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		
Test Location	Reading in dB(A) 0.5 mtr. Away from DG				Avg.	Difference dB(A)
	North Side	East Side	South Side	West Side		
1. DG. SET - 320 KVA						
Without Enclosure	100.2	101.4	99.8	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						
				 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By		

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TEST REPORT

Test Report No: -GESEC/VSR/2024-25/07/3085-3090	Report Date	08.07.2024
Sample ID: -GESEC/VSR/2024-25/07/3085-3090		
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	

Ventilation Survey Sample Details

Type	Sampling Location	Sampling done by
Ventilation Survey	--	Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune

Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date
02.07.2024	--	--	--

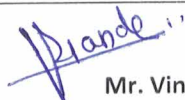
Name of Instrument	Anemometer	Date of Calibration	06/05/2024
Calibration Certificate No.	20165005526/GESEC/LAB/INST/95	Due Date of Calibration	05/05/2025

Location Name	Incoming Velocity m/s				Mean m/s	Observation	Remark
	1	2	3	4			
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 $\geq 0.5\text{m/s}$ and uncomfortable indicates $\leq 0.5\text{m/s}$.
- 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.




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

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- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
- Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
- We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.
- 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.