

TEST REPORT				
Test Report No: -	GESEC/AAQM/2022-23/05/	Report Date	26.05.2022	
Sample ID: -	GESEC/AAQM/2022-23/05/			
Name & Address of the Customer	M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.			
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.		
09.45 am	09.45 am	24 Hrs.		
Metrological Data/Environmental Conditions				
Ambient Temperature °C	34	Wet Bulb Temperature °C	30	
Dry Bulb Temperature °C	34	Relative Humidity % RH	54	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
19.05.2022 To 20.05.2022	21.05.2022	21.05.2022	26.05.2022	
Name of Instrument	Fine Dust Sampler	Date of Calibration	06/09/2021	
Calibration Certificate No.	235	Due Date of Calibration	05/09/2022	
Parameters	Method	Unit	NAAQ Standards	Result
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/m <sup>3</sup>	≤ 80	22.6
Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182 (PART 6):2018	µg/m <sup>3</sup>	≤ 80	25.9
Particulate Matter PM <sub>10</sub>	IS:5182 (PART 4):2019	µg/m <sup>3</sup>	≤ 100	56.1
Particulate Matter PM <sub>2.5</sub>	IS:5182 (PART 24):2019	µg/m <sup>3</sup>	≤ 60	35.4
Ozone(O <sub>3</sub> ) For 1 Hrs.	Method 411, Air Sampling and Analysis 3 <sup>rd</sup> Edition ,2013	µg/m <sup>3</sup>	≤ 180	10.7
Ammonia (NH <sub>3</sub> ) For 24 Hrs.	Method 401, Air Sampling and Analysis 3 <sup>rd</sup> Edition ,2013	µg/m <sup>3</sup>	≤400	3.3
<b>Remark-</b>				
<ul style="list-style-type: none"> <li>➤ All above results are within National Ambient Air Quality standards.</li> <li>➤ BDL-Below Detectable Limit.</li> </ul>				
<b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>				

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Name & Address of the Customer	M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.			
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.		
09.45 am	09.45 am	24 Hrs.		
Metrological Data/Environmental Conditions				
Ambient Temperature °C	34	Wet Bulb Temperature °C	30	
Dry Bulb Temperature °C	34	Relative Humidity % RH	54	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
19.05.2022 To 20.05.2022	21.05.2022	21.05.2022	26.05.2022	
Name of Instrument	Fine Dust Sampler	Date of Calibration	06/09/2021	
Calibration Certificate No.	235	Due Date of Calibration	05/09/2022	
Parameters	Method	Unit	NAAQ Standards	Result
Carbon Monoxide (CO)	MASA-822 3rd Edition	µg/M <sup>3</sup>	≤ 04	BDL
Benzene (C <sub>6</sub> H <sub>6</sub> )	IS 5182 (Part 11) :2006 (RA 2017)	µg/M <sup>3</sup>	≤ 05	BDL
Benzo(a)Pyrene (BaP)	CPCB Manual Vol 1 2011	ng/M <sup>3</sup>	≤ 01	BDL
Arsenic (As)	MASA-822 3rd Edition	ng/M <sup>3</sup>	≤ 06	BDL
Nickel (Ni)	MASA-822 3rd Edition	ng/M <sup>3</sup>	≤ 20	BDL
Lead (Pb)	MASA-822 3rd Edition	µg/M <sup>3</sup>	1.00	BDL
<b>Remark-</b>				
<ul style="list-style-type: none"> <li>➤ All above results are within National Ambient Air Quality standards.</li> <li>➤ BDL-Below Detectable Limit.</li> </ul>				
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Sample ID: -	GESEC/AAQM/2022-23/05/			
Name & Address of the Customer	M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Near ETP Area		Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
09.55 am	09.55 am		24 Hrs.	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	34	Wet Bulb Temperature °C	30	
Dry Bulb Temperature °C	34	Relative Humidity % RH	54	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
19.05.2022 To 20.05.2022	21.05.2022	21.05.2022	26.05.2022	
Name of Instrument	Combined Sampler	Date of Calibration	25/10/2021	
Calibration Certificate No.	CC202221000006078F	Due Date of Calibration	24/10/2022	
Parameters	Method	Unit	NAAQ Standards	Result
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/m <sup>3</sup>	≤ 80	21.5
Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182 (PART 6):2018	µg/m <sup>3</sup>	≤ 80	26.8
Particulate Matter PM <sub>10</sub>	IS:5182 (PART 4):2019	µg/m <sup>3</sup>	≤ 100	53.1
Particulate Matter PM <sub>2.5</sub>	IS:5182 (PART 24):2019	µg/m <sup>3</sup>	≤ 60	27.2
Ozone(O <sub>3</sub> ) For 1 Hrs.	Method 411, Air Sampling and Analysis 3 <sup>rd</sup> Edition ,2013	µg/m <sup>3</sup>	≤ 180	11.2
Ammonia (NH <sub>3</sub> ) For 24 Hrs.	Method 401, Air Sampling and Analysis 3 <sup>rd</sup> Edition ,2013	µg/m <sup>3</sup>	≤400	3.0
<b>Remark-</b>				
<ul style="list-style-type: none"> <li>➤ All above results are within National Ambient Air Quality standards.</li> <li>➤ BDL-Below Detectable Limit.</li> </ul>				
<b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>				

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Sample ID: -	GESEC/AAQM/2022-23/05/			
Name & Address of the Customer	M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Near ETP Area		Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
09.55 am	09.55 am		24 Hrs.	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	34	Wet Bulb Temperature °C	30	
Dry Bulb Temperature °C	34	Relative Humidity % RH	54	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
19.05.2022 To 20.05.2022	21.05.2022	21.05.2022	26.05.2022	
Name of Instrument	Combined Sampler	Date of Calibration	25/10/2021	
Calibration Certificate No.	CC202221000006078F	Due Date of Calibration	24/10/2022	
Parameters	Method	Unit	NAAQ Standards	Result
Carbon Monoxide (CO)	MASA-822 3rd Edition	µg/M <sup>3</sup>	≤ 04	BDL
Benzene (C <sub>6</sub> H <sub>6</sub> )	IS 5182 (Part 11) :2006 (RA 2017)	µg/M <sup>3</sup>	≤ 05	BDL
Benzo(a)Pyrene (BaP)	CPCB Manual Vol 1 2011	ng/M <sup>3</sup>	≤ 01	BDL
Arsenic (As)	MASA-822 3rd Edition	ng/M <sup>3</sup>	≤ 06	BDL
Nickel (Ni)	MASA-822 3rd Edition	ng/M <sup>3</sup>	≤ 20	BDL
Lead (Pb)	MASA-822 3rd Edition	µg/M <sup>3</sup>	1.00	BDL
<b>Remark-</b>				
<ul style="list-style-type: none"> <li>➤ All above results are within National Ambient Air Quality standards.</li> <li>➤ BDL-Below Detectable Limit.</li> </ul>				
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**TEST REPORT**

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<b>Sample ID: -</b>	GESEC/ANLM/2022-23/05/			
<b>Name &amp; Address of the Customer</b>	M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.			
<b>Ambient Noise Sample Details</b>				
<b>Type</b>	Ambient Noise			
<b>Sampling done by</b>	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune			
<b>Standard method</b>	As Per IS: 9989:2020			
<b>Date of Sampling</b>	<b>Sample Receipt Date</b>	<b>Analysis Start Date</b>	<b>Analysis End Date</b>	
20.05.2022	21.05.2022	21.05.2022	26.05.2022	
<b>Name of Instrument</b>	Digital Sound Level Meter	<b>Date Of Calibration</b>	10/10/2021	
<b>Calibration Certificate No.</b>	ME.2021/10/21/002	<b>Due Date of Calibration</b>	09/10/2022	
<b>Test Location</b>	<b>Unit</b>	<b>Average Noise Level Readings</b>		<b>CPCB Standards dB(A)</b>
		<b>Day</b>	<b>Night</b>	
Near main Gate	<b>dB (A)</b>	57.4	50.3	<b>During Day time = 75 dB (A) During Night time= 70dB(A)</b>
Near East Side	<b>dB (A)</b>	60.1	54.7	
Near West Side	<b>dB (A)</b>	58.6	50.7	
Near North Side	<b>dB (A)</b>	54.2	48.2	
Near South Side	<b>dB (A)</b>	59.5	51.1	
<b>Remark-</b> <ul style="list-style-type: none"><li>➤ All above Noise level results are within Central Pollution Control Board Standards limit.</li><li>➤ Day/Night -75/70 dB.</li></ul>				
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Test Report No: -	GESEC/WZM/2022-23/05/	Report Date	26.05.2022	
Sample ID: -	GESEC/WZM/2022-23/05/			
Name & Address of the Customer	M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.			
WORK ZONE AIR Sample Details				
Type	Sampling Location	Sampling done by		
Work zone Air	Forging Section (HN-14)	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune		
Sampling Time				
Start Time	Stop Time	Total Hrs.		
10.30 am	10.45 am	15.Min		
Metrological Data/Environmental Conditions				
Ambient Temperature °C	30	Wet Bulb Temperature °C	26	
Dry Bulb Temperature °C	30	Relative Humidity % RH	49	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
20.05.2022	21.05.2022	21.05.2022	26.05.2022	
Name of Instrument	Personal Sampler	Date of Calibration	25/10/2021	
Calibration Certificate No.	CC202221000006075F	Due Date of Calibration	24/10/2022	
Parameters	Method	Unit	As per Factory Act	Result
Sulphur Dioxide(SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/M <sup>3</sup>	≤ 5000	10.7
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/M <sup>3</sup>	≤ 6000	15.3
Suspended Particulate Matter	NIOSH 0500:2012	µg/M <sup>3</sup>	N.S	18.9
<b>Remark</b>				
<ul style="list-style-type: none"> <li>➤ All above result are well within the Factory act,1948 standards &amp; OSHA Standard.</li> <li>➤ N.S .Not Specified</li> </ul>				
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<b>Name &amp; Address of the Customer</b>	M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.			
WORK ZONE AIR Sample Details				
<b>Type</b>	<b>Sampling Location</b>		<b>Sampling done by</b>	
Work zone Air	H.T.Plant		Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	
Sampling Time				
<b>Start Time</b>	<b>Stop Time</b>		<b>Total Hrs.</b>	
11.00 am	11.15 Am		15.Min	
Metrological Data/Environmental Conditions				
<b>Ambient Temperature °C</b>	30	<b>Wet Bulb Temperature °C</b>	26	
<b>Dry Bulb Temperature °C</b>	30	<b>Relative Humidity % RH</b>	49	
<b>Date of Sampling</b>	<b>Sample Receipt Date</b>	<b>Analysis Start Date</b>	<b>Analysis End Date</b>	
20.05.2022	21.05.2022	21.05.2022	26.05.2022	
<b>Name of Instrument</b>	Personal Sampler	<b>Date of Calibration</b>	25/10/2021	
<b>Calibration Certificate No.</b>	CC202221000006075F	<b>Due Date of Calibration</b>	24/10/2022	
<b>Parameters</b>	<b>Method</b>	<b>Unit</b>	<b>As per Factory Act</b>	<b>Result</b>
Sulphur Dioxide(SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/M <sup>3</sup>	≤ 5000	13.8
Oxides of Nitrogen(NOx)	IS:5182 (PART 6):2018	µg/M <sup>3</sup>	≤ 6000	16.3
Suspended Particulate Matter	NIOSH 0500:2012	µg/M <sup>3</sup>	N.S	17.1
<b>Remark</b>				
<ul style="list-style-type: none"> <li>➤ All above result are well within the Factory act,1948 standards &amp; OSHA Standard.</li> <li>➤ N.S .Not Specified</li> </ul>				
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Sample ID: -	GESEC/WZM/2022-23/05/			
Name & Address of the Customer	M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.			
WORK ZONE AIR Sample Details				
Type	Sampling Location		Sampling done by	
Work zone Air	Plating Plant		Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
11.30 am	11.45 Am		15.Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	30	Wet Bulb Temperature °C	26	
Dry Bulb Temperature °C	30	Relative Humidity % RH	49	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
20.05.2022	21.05.2022	21.05.2022	26.05.2022	
Name of Instrument	Personal Sampler	Date of Calibration	25/10/2021	
Calibration Certificate No.	CC202221000006075F	Due Date of Calibration	24/10/2022	
Parameters	Method	Unit	As per Factory Act	Result
Sulphur Dioxide(SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/M <sup>3</sup>	≤ 5000	14.3
Oxides of Nitrogen(NOx)	IS:5182 (PART 6):2018	µg/M <sup>3</sup>	≤ 6000	19.6
Suspended Particulate Matter	NIOSH 0500:2012	µg/M <sup>3</sup>	N.S	20.1
<b>Remark</b>				
<ul style="list-style-type: none"> <li>➤ All above result are well within the Factory act,1948 standards &amp; OSHA Standard.</li> <li>➤ N.S .Not Specified</li> </ul>				
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Sample ID: -	GESEC/WZM/2022-23/05/			
Name & Address of the Customer	M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.			
WORK ZONE AIR Sample Details				
Type	Sampling Location		Sampling done by	
Work zone Air	Threading & Secondary Area		Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
12.10 pm	12.25 pm		15.min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	30	Wet Bulb Temperature °C	26	
Dry Bulb Temperature °C	30	Relative Humidity % RH	49	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
20.05.2022	21.05.2022	21.05.2022	26.05.2022	
Name of Instrument	Personal Sampler	Date of Calibration	25/10/2021	
Calibration Certificate No.	CC202221000006075F	Due Date of Calibration	24/10/2022	
Parameters	Method	Unit	As per Factory Act	Result
Sulphur Dioxide(SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/M <sup>3</sup>	≤ 5000	10.7
Oxides of Nitrogen(NOx)	IS:5182 (PART 6):2018	µg/M <sup>3</sup>	≤ 6000	14.2
Suspended Particulate Matter	NIOSH 0500:2012	µg/M <sup>3</sup>	N.S	17.4
<b>Remark</b>				
<ul style="list-style-type: none"> <li>➤ All above result are well within the Factory act,1948 standards &amp; OSHA Standard.</li> <li>➤ N.S .Not Specified</li> </ul>				
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<b>Name &amp; Address of the Customer</b>	M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.			
<b>Work Zone Noise Sample Details</b>				
<b>Type</b>	Work Zone Noise			
<b>Sampling done by</b>	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune			
<b>Standard method</b>	As Per IS: 9989:2020			
<b>Date of Sampling</b>	<b>Sample Receipt Date</b>	<b>Analysis Start Date</b>	<b>Analysis End Date</b>	
20.05.2022	21.05.2022	21.05.2022	26.05.2022	
<b>Name of Instrument</b>	Digital Sound Level Meter	<b>Date Of Calibration</b>	10/10/2021	
<b>Calibration Certificate No.</b>	ME.2021/10/21/002	<b>Due Date of Calibration</b>	09/10/2022	
<b>Test Location</b>	<b>Unit</b>	<b>Average Noise Level Readings</b>		<b>The Factories Act 1948, standards</b>  <90
		<b>Day</b>	<b>Night</b>	
Forging Section	dB(A)	80.5	68.9	
Packing Area	dB(A)	79.7	67.5	
Threading Section	dB(A)	80.1	67.1	
Export Area	dB(A)	74.1	64.3	
Maintenance& Tool Room	dB(A)	83.2	70.2	
LAB Plating	dB(A)	66.7	61.7	
Plating Section	dB(A)	73.1	64.5	
Tolling Area	dB(A)	81.1	68.4	
Quality Area	dB(A)	75.9	61.2	
CNC Section	dB(A)	77.9	69.8	
<b>Remark-</b>				
➤ The Factories Act, 1948, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours exposure.				
<b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>				

\*\*\*End Of Report\*\*\*

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TEST REPORT				
Test Report No	GESEC/ST/2022-23/05/	Report Date	26.05.2022	
Sample ID: -	GESEC/ST/2022-23/05/			
Name & Address of the Customer	M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
20.05.2022	21.05.2022	21.05.2022	26.05.2022	
Instrument Details				
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	01/10/2021	
Calibration Certificate No.	PICL/1021/F/179	Due Date of Calibration	30/09/2022	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
--	Annealing Furnace -2		Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune	
Shape	Round	Fuel Used	--	
Diameter/ Dimensions ( m)	0.038	Pressure	3.1	
Height ( m)	18			
Temperature ( k )	363	Velocity ( m/s)	6.37	
Gas Volume (Nm <sup>3</sup> )	21.34			
Parameters	Method	Unit	Limit	Result
Particulate Matter	IS 11255 (Part 1) 2019	mg/NM <sup>3</sup>	≤ 150	39.2
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	mg/NM <sup>3</sup>	--	22.7
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	Kg/day	≤188.64	0.011
Nitrogen Dioxide (NO <sub>x</sub> )	IS 11255 (Part 7) 2017	mg/NM <sup>3</sup>	N.S.	19.9
<b>Remarks-</b>				
➤ All above results are well within MPCB Limit.				
<b>Mr. Vinod Hande (Technical Manager) Reviewed &amp; Authorized By</b>				

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TEST REPORT				
Test Report No	GESEC/ST/2022-23/05/	Report Date	26.05.2022	
Sample ID: -	GESEC/ST/2022-23/05/			
Name & Address of the Customer	M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
20.05.2022	21.05.2022	21.05.2022	26.05.2022	
Instrument Details				
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	01/10/2021	
Calibration Certificate No.	PICL/1021/F/179	Due Date of Calibration	30/09/2022	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
--	Heat Treatment		Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune	
Shape	Round	Fuel Used	--	
Diameter/ Dimensions ( m)	0.2032	Pressure	3.0	
Height ( m)	14.5			
Temperature ( k )	368	Velocity ( m/s)	6.30	
Gas Volume (Nm <sup>3</sup> )	596.20			
Parameters	Method	Unit	Limit	Result
Particulate Matter	IS 11255 (Part 1) 2019	mg/NM <sup>3</sup>	≤ 150	43.9
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	mg/NM <sup>3</sup>	--	32.3
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	Kg/day	≤188.64	0.46
Nitrogen Dioxide (NO <sub>x</sub> )	IS 11255 (Part 7) 2017	mg/NM <sup>3</sup>	N.S.	21.5
<b>Remarks-</b>				
➤ All above results are well within MPCB Limit.				
<b>Mr. Vinod Hande (Technical Manager) Reviewed &amp; Authorized By</b>				

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TEST REPORT				
Test Report No	GESEC/ST/2022-23/05/	Report Date	26.05.2022	
Sample ID: -	GESEC/ST/2022-23/05/			
Name & Address of the Customer	M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
20.05.2022	21.05.2022	21.05.2022	26.05.2022	
Instrument Details				
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	01/10/2021	
Calibration Certificate No.	PICL/1021/F/179	Due Date of Calibration	30/09/2022	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
--	Plating Scrubber		Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune	
Shape	Round	Fuel Used	--	
Diameter/ Dimensions ( m )	0.6096	Pressure	3.1	
Height ( m )	12			
Temperature ( k )	332	Velocity ( m/s )	6.09	
Gas Volume (Nm <sup>3</sup> )	5742.68			
Parameters	Method	Unit	Limit	Result
Particulate Matter	IS 11255 (Part 1) 2019	mg/NM <sup>3</sup>	≤ 150	43.2
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	mg/NM <sup>3</sup>	--	24.7
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	Kg/day	≤188.64	3.40
Nitrogen Dioxide (NO <sub>x</sub> )	IS 11255 (Part 7) 2017	mg/NM <sup>3</sup>	N.S.	22.4
<b>Remarks-</b>				
➤ All above results are well within MPCB Limit.				
<b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>				

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TEST REPORT				
Test Report No	GESEC/ST/2022-23/05/	Report Date	26.05.2022	
Sample ID: -	GESEC/ST/2022-23/05/			
Name & Address of the Customer	M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
20.05.2022	21.05.2022	21.05.2022	26.05.2022	
Instrument Details				
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	01/10/2021	
Calibration Certificate No.	PICL/1021/F/179	Due Date of Calibration	30/09/2022	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
1.	DG Set I - 45 KVA		Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune	
Shape	Round	Fuel Used	Diesel	
Diameter/ Dimensions ( m )	0.03	Pressure	3.0	
Height ( m )	6.75			
Temperature ( k )	343	Velocity ( m/s )	6.09	
Gas Volume (Nm <sup>3</sup> )	13.46			
Parameters	Method	Unit	Limit	Result
Particulate Matter	IS 11255 (Part 1) 2019	mg/NM <sup>3</sup>	≤ 150	33.7
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	mg/NM <sup>3</sup>	--	21.9
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	Kg/day	≤188.64	0.007
Nitrogen Dioxide (NO <sub>x</sub> )	IS 11255 (Part 7) 2017	mg/NM <sup>3</sup>	N.S.	15.4
<b>Remarks-</b>				
➤ All above results are well within MPCB Limit.				
<b>Mr. Vinod Hande (Technical Manager) Reviewed &amp; Authorized By</b>				

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TEST REPORT				
Test Report No	GESEC/ST/2022-23/05/	Report Date	26.05.2022	
Sample ID: -	GESEC/ST/2022-23/05/			
Name & Address of the Customer	M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
20.05.2022	21.05.2022	21.05.2022	26.05.2022	
Instrument Details				
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	01/10/2021	
Calibration Certificate No.	PICL/1021/F/179	Due Date of Calibration	30/09/2022	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
2.	DG Set II - 45 KVA		Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	
Shape	Round	Fuel Used	Diesel	
Diameter/ Dimensions ( m)	0.03	Pressure	3.0	
Height ( m)	4.57			
Temperature ( k )	340	Velocity ( m/s)	6.06	
Gas Volume (Nm <sup>3</sup> )	13.52			
Parameters	Method	Unit	Limit	Result
Particulate Matter	IS 11255 (Part 1) 2019	mg/NM <sup>3</sup>	≤ 150	46.7
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	mg/NM <sup>3</sup>	--	32.6
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	Kg/day	≤188.64	0.010
Nitrogen Dioxide (NO <sub>x</sub> )	IS 11255 (Part 7) 2017	mg/NM <sup>3</sup>	N.S.	23.1
<b>Remarks-</b>				
➤ All above results are well within MPCB Limit.				
<b>Mr. Vinod Hande (Technical Manager) Reviewed &amp; Authorized By</b>				

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**TEST REPORT**

<b>Test Report No: -</b>	GESEC/DIL/2022-23/05/			<b>Report Date</b>	26.05.2022	
<b>Sample ID: -</b>	GESEC/DIL/2022-23/05/					
<b>Name &amp; Address of the Customer</b>		M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.				
<b>DG Noise Monitoring Report</b>						
<b>Type</b>	<b>DG Noise</b>					
<b>Sampling done by</b>	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune					
<b>Standard method</b>	As Per IS: 9989:2020					
<b>Date of Sampling</b>	<b>Sample Receipt Date</b>	<b>Analysis Start Date</b>		<b>Analysis End Date</b>		
20.05.2022	21.05.2022	21.05.2022		26.05.2022		
<b>Name of Instrument</b>	Digital Sound Level Meter	<b>Date Of Calibration</b>		10/10/2021		
<b>Calibration Certificate No.</b>	ME.2021/10/21/002	<b>Due Date of Calibration</b>		09/10/2022		
<b>Test Location</b>	<b>Reading in dB(A)</b> <b>0.5 mtr. Away from DG</b>				<b>Avg.</b>	<b>Difference dB(A)</b>
	North Side	East Side	South Side	West Side		
<b>1. DG. SET - 60 KVA</b>						
Without Enclosure	80.1	85.4	81.1	87.2	83.4	13.4
With Enclosure	69.4	70.2	69.3	71.3	70.0	
<b>2. DG. SET - 45 KVA</b>						
Without Enclosure	81.2	86.2	83.1	86.7	84.3	16.2
With Enclosure	65.1	69.2	68.3	70.1	68.1	
<b>Remark-</b>						
➤ Maharashtra Pollution Control Board has prescribed minimum 25 dB (A) Noise as DG Insertion loss difference during With and Without enclosure of DG						
						<b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>

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TEST REPORT				
Test Report No: -	GESEC/ISR/2022-23/05/	Report Date	26.05.2022	
Sample ID: -	GESEC/IDR/2022-23/05/			
Name & Address of the Customer	M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.			
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	
20.05.2022	21.05.2022	21.05.2022	26.05.2022	
Name of Instrument	Lux Meter	Date of Calibration	10/10/2021	
Calibration Certificate No.	2021/10/21/001	Due Date of Calibration	09/10/2022	
Illumination Survey Report				
Test Location	Result		Limit	Unit
	Day	Night		
Forging Section	1200	345	300	Lux
Packing Area	1410	1052	300	
Threading section	360	551	300	
Export Area	692	510	300	
Maintenance & Tool Room	1800	422	200	
LAB Plating	882	400	300	
Plating section	489	382	300	
Tolling Area	1420	431	300	
Quality Area	1900	407	300	
CNC Section	430	673	300	
<b>Remark-</b>				
➤ Illumination Level in the factory is found satisfactory, as per The Factories Act, 1948.				
<b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>				

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TEST REPORT				
Test Report No: GESEC/WW/2022-23/05/	Report Date	26.05.2022		
Sample ID : GESEC/WW/2022-23/05/	Sample Details	STP Outlet		
Name & Address of the Customer – M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.	Type of Sample	Waste Water		
	Volume Of Sample	1 Lit plastic bottle		
	Sample Status	Sealed		
	Sample Collected By	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune		
	Date of Sample Collection	20.05.2022		
	Sample Receipt Date	21.05.2022		
	Analysis start Date	21.05.2022		
	Analysis End Date	26.05.2022		
Parameters	Results	MPCB Limit	Unit	Standard Method
PH	7.4	5.5-9.0	--	APHA 4500 H+B 23 <sup>RD</sup> ED :2017
Total Suspended Solid	81	<100	mg/l	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solid	1381	<2100	mg/l	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Dissolved (COD)	42.5	<250	mg/l	IS 3025 (Part 58) , 2019
Biological Oxygen Dissolved (BOD) at 27°C for 3 days	10.6	<30	mg/l	IS 3025 (Part 44), 2019
Oil & Grease	<5	<10	mg/l	IS 3025 (Part 39), 2019
Chloride as Cl <sup>-</sup>	93.8	<600	mg/l	APHA 4500 Cl- B,23rd Edition, 2017
Sulphate as SO <sub>4</sub> <sup>2-</sup>	24.3	<1000	mg/l	APHA 3025 (Part 24) ;2019
<b>Remark:</b>				
➤ All parameters are within the MPCB limit.				
<b>Mr. Vinod Hande (Technical Manager) Reviewed &amp; Authorized By</b>				

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TEST REPORT				
Test Report No: GESEC/WW/2022-23/05/	Report Date	26.05.2022		
Sample ID : GESEC/WW/2022-23/05/	Sample Details	ETP Outlet		
Name & Address of the Customer – M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.	Type of Sample	Waste Water		
	Volume Of Sample	1 Lit plastic bottle		
	Sample Status	Sealed		
	Sample Collected By	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune		
	Date of Sample Collection	20.05.2022		
	Sample Receipt Date	21.05.2022		
	Analysis start Date	21.05.2022		
	Analysis End Date	26.05.2022		
Parameters	Results	MPCB Limit	Unit	Standard Method
PH	7.5	5.5-9.0	--	APHA 4500 H+B 23 <sup>RD</sup> ED :2017
Total Suspended Solid	44.6	<100	mg/l	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solid	1785	<2100	mg/l	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Dissolved (COD)	59.1	<250	mg/l	IS 3025 (Part 58) , 2019
Biological Oxygen Dissolved (BOD) at 27°C for 3 days	14.7	<30	mg/l	IS 3025 (Part 44), 2019
Oil & Grease	<5	<10	mg/l	IS 3025 (Part 39), 2019
Chloride as Cl <sup>-</sup>	97.2	<600	mg/l	APHA 4500 Cl- B,23rd Edition, 2017
Sulphate as SO <sub>4</sub> <sup>2-</sup>	277.4	<1000	mg/l	APHA 3025 (Part 24) ;2019
<b>Remark:</b>				
➤ All parameters are within the MPCB limit.				
<b>Mr. Vinod Hande (Technical Manager) Reviewed &amp; Authorized By</b>				

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TEST REPORT				
Test Report No: GESEC/WW/2022-23/05/	Report Date	26.05.2022		
Sample ID : GESEC/WW/2022-23/05/	Sample Details	ETP Outlet		
Name & Address of the Customer – M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.	Type of Sample	Waste Water		
	Volume Of Sample	1 Lit plastic bottle		
	Sample Status	Sealed		
	Sample Collected By	Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune		
	Date of Sample Collection	20.05.2022		
	Sample Receipt Date	21.05.2022		
	Analysis start Date	21.05.2022		
	Analysis End Date	26.05.2022		
Parameters	Results	MPCB Limit	Unit	Standard Method
Detergent	0.82	<10	mg/lit	APHA 5540
<b>Remark:</b>				
➤ All parameters are within the MPCB limit.				
<b>Mr. Vinod Hande (Technical Manager) Reviewed &amp; Authorized By</b>				

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TEST REPORT			
Report No: GESEC/W/2022-23/05/	Date of Reporting	26.05.2022	
Sample Code: GESEC/W/2022-23/05/	Sample Details	Cooling Tower	
Name & Address of the Customer – M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.	Type of Sample	Water	
	Volume Of Sample	1 Lit Plastic Bottle	
	Sample Status	Sealed	
	Sample Collected By	Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune	
	Date of Sample Collection	20.05.2022	
	Date of Sample received in lab	21.05.2022	
	Analysis start Date	21.05.2022	
	Analysis End Date	26.05.2022	
Parameters	Results	Unit	Standard Method
Physical Parameter			
Turbidity	<0.1	NTU	IS:3025(part 10):2019
TDS	420.3	mg/lit	IS : 3025 (Part 16):2017
Chemical Parameter			
pH	7.2	--	APHA 4500 ,23rd Ed.2017
Total Hardness	96.07	mg/lit	IS : 3025 (Part 21):2019
Total Alkalinity	1633	mg/lit	IS : 3025 (Part 23):2019
Sulphate	135.2	mg/lit	APHA 3025 (Part 24):2019
Residual Chlorine	<0.1	mg/lit	IS 3025 (Part 26):2019
Chloride	185.4	mg/lit	APHA 4500 Cl-B,23rd Ed.2017
Calcium (as Ca)	22.44	mg/lit	IS 3025 (Part 40):2019
Magnesium (as Mg)	9.22	mg/lit	APHA 3500-Mg,B, 23rd Ed.2017
<b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>			

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TEST REPORT			
Report No: GESEC/W/2022-23/05/	Date of Reporting	26.05.2022	
Sample Code: GESEC/W/2022-23/05/	Sample Details	Cooling Tower	
Name & Address of the Customer – M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.	Type of Sample	Water	
	Volume Of Sample	1 Lit Plastic Bottle & 1 Lit. Glass Bottle	
	Sample Status	Sealed	
	Sample Collected By	Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune	
	Date of Sample Collection	20.05.2022	
	Date of Sample received in lab	21.05.2022	
	Analysis start Date	21.05.2022	
	Analysis End Date	26.05.2022	
Parameters	Results	Unit	Standard Method
Physical Parameter			
Color	Clear	<5	Hazen
Elemental Analysis			
Iron as Fe	<0.1	mg/lit	IS:3025 (Part 2):2019
Microbiological Parameter			
Total Coliform	Absent	MPN/100ml	IS 1622:1981
E.coli.	Absent	per/100ml	IS 1622:1981
			<b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>

\*\*\*End Of Report\*\*\*

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TEST REPORT				
Report No: GESEC/W/2022-23/05/	Date of Reporting		26.05.2022	
Sample Code: GESEC/W/2022-23/05/	Sample Details		Forging Shop Cooler	
Name & Address of the Customer – M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.	Type of Sample		Drinking Water	
	Volume Of Sample		1 Lit Plastic Bottle	
	Sample Status		Sealed	
	Sample Collected By		Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	
	Date of Sample Collection		20.05.2022	
	Date of Sample received in lab		21.05.2022	
	Analysis start Date		21.05.2022	
	Analysis End Date		26.05.2022	
Parameters	Results	Limits as per IS 10500:2012	Unit	Standard Method
<b>Physical Parameter</b>				
Turbidity	<0.1	<1	NTU	IS:3025(part 10):2019
TDS	64	<500	mg/lit	IS : 3025 (Part 16):2017
<b>Chemical Parameter</b>				
pH	7.1	6.5 to 8.5	--	APHA 4500 ,23rd Ed.2017
Total Hardness	54.1	<200	mg/lit	IS : 3025 (Part 21):2019
Total Alkalinity	9.1	<200	mg/lit	IS : 3025 (Part 23):2019
Sulphate	6.7	<200	mg/lit	APHA 3025 (Part 24):2019
Residual Chlorine	<0.1	<0.2	mg/lit	IS 3025 (Part 26):2019
Chloride	19.3	<250	mg/lit	APHA 4500 Cl-B,23rd Ed.2017
Calcium (as Ca)	0.97	<75	mg/lit	IS 3025 (Part 40):2019
Magnesium (as Mg)	0.80	<30	mg/lit	APHA 3500-Mg,B, 23rd Ed.2017
<b>Remark(s):</b>				
➤ The above water sample is Comply with required limit as per 10500:2012.				
<b>Mr. Vinod Hande (Technical Manager) Reviewed &amp; Authorized By</b>				

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TEST REPORT				
Report No: GESEC/W/2022-23/05/	Date of Reporting		26.05.2022	
Sample Code: GESEC/W/2022-23/05/	Sample Details		Forging Shop Cooler	
Name & Address of the Customer – M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.	Type of Sample		Drinking Water	
	Volume Of Sample		1 Lit Plastic Bottle	
	Sample Status		Sealed	
	Sample Collected By		Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	
	Date of Sample Collection		20.05.2022	
	Date of Sample received in lab		21.05.2022	
	Analysis start Date		21.05.2022	
Analysis End Date		26.05.2022		
Parameters	Results	Limits as per IS 10500:2012	Unit	Standard Method
<b>Physical Parameter</b>				
Color	Clear	<5	Hazen	IS : 3025 (Part 4):1983
<b>Elemental Analysis</b>				
Iron as Fe	<0.1	<0.3	mg/lit	IS:3025 (Part 2):2019
<b>Microbiological Parameter</b>				
Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
E.coli.	Absent	Absent	per/100ml	IS 1622:1981
<b>Remark(s):</b>				
<ul style="list-style-type: none"> <li>➤ The above water sample is Comply with required limit as per 10500:2012.</li> <li>➤ For Total Coliform &amp; <i>E.coli</i>. Absent can be consider as Zero [ Refer IS:1622 (R.A.1996), Table No.-4].</li> </ul>				
<b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>				

\*\*\*End Of Report\*\*\*

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TEST REPORT				
Report No: GESEC/W/2022-23/05/	Date of Reporting		26.05.2022	
Sample Code: GESEC/W/2022-23/05/	Sample Details		canteen Cooler	
Name & Address of the Customer – M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.	Type of Sample		Drinking Water	
	Volume Of Sample		1 Lit Plastic Bottle	
	Sample Status		Sealed	
	Sample Collected By		Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	
	Date of Sample Collection		20.05.2022	
	Date of Sample received in lab		21.05.2022	
	Analysis start Date		21.05.2022	
	Analysis End Date		26.05.2022	
Parameters	Results	Limits as per IS 10500:2012	Unit	Standard Method
Physical Parameter				
Turbidity	<0.1	<1	NTU	IS:3025(part 10):2019
TDS	92.4	<500	mg/lit	IS : 3025 (Part 16):2017
Chemical Parameter				
pH	7.2	6.5 to 8.5	--	APHA 4500 ,23rd Ed.2017
Total Hardness	46.1	<200	mg/lit	IS : 3025 (Part 21):2019
Total Alkalinity	42.7	<200	mg/lit	IS : 3025 (Part 23):2019
Sulphate	8.4	<200	mg/lit	APHA 3025 (Part 24):2019
Residual Chlorine	<0.1	<0.2	mg/lit	IS 3025 (Part 26):2019
Chloride	16.5	<250	mg/lit	APHA 4500 Cl-B,23rd Ed.2017
Calcium (as Ca)	44.9	<75	mg/lit	IS 3025 (Part 40):2019
Magnesium (as Mg)	11.6	<30	mg/lit	APHA 3500-Mg,B, 23rd Ed.2017
<b>Remark(s):</b>				
➤ The above water sample is Comply with required limit as per 10500:2012.				
<b>Mr. Vinod Hande (Technical Manager) Reviewed &amp; Authorized By</b>				

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Report No: GESEC/W/2022-23/05/	Date of Reporting		26.05.2022	
Sample Code: GESEC/W/2022-23/05/	Sample Details		canteen Cooler	
Name & Address of the Customer – M/s. Metaforge Engineering I Pvt Ltd. Dindori Road, Mhasrul,Nashik-422004.	Type of Sample		Drinking Water	
	Volume Of Sample		1 Lit Plastic Bottle	
	Sample Status		Sealed	
	Sample Collected By		Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune	
	Date of Sample Collection		20.05.2022	
	Date of Sample received in lab		21.05.2022	
	Analysis start Date		21.05.2022	
Analysis End Date		26.05.2022		
Parameters	Results	Limits as per IS 10500:2012	Unit	Standard Method
<b>Physical Parameter</b>				
Color	Clear	<5	Hazen	IS : 3025 (Part 4):1983
<b>Elemental Analysis</b>				
Iron as Fe	<0.1	<0.3	mg/lit	IS:3025 (Part 2):2019
<b>Microbiological Parameter</b>				
Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
E.coli.	Absent	Absent	per/100ml	IS 1622:1981
<b>Remark(s):</b>				
<ul style="list-style-type: none"> <li>➤ The above water sample is Comply with required limit as per 10500:2012.</li> <li>➤ For Total Coliform &amp; <i>E.coli</i>. Absent can be consider as Zero [ Refer IS:1622 (R.A.1996), Table No.-4].</li> </ul>				
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