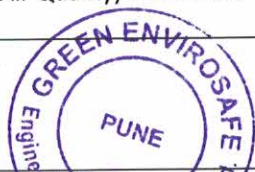



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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/11/856		Report Date	28/11/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/11/856			
Name & Address of the Customer	M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. I Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Near Main Gate		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
09:30 A.M	05:00 P.M		480 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	23.0	Wet Bulb Temperature °C	17.0	
Dry Bulb Temperature °C	23.0	Relative Humidity % RH	54.6	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
21/11/2022	22/11/2022	23/11/2022	28/11/2022	
Name Of Instrument	Fine Dust Sampler	Date Of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1524	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):2019	µg/m ³	100.00	63.36
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/m ³	60.00	23.05
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/m ³	80.00	17.91
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/m ³	80.00	21.84
Carbon Monoxide (CO)	MASA-822 3rd Edition	mg/m ³	4.00	0.20
Ozone(O ₃)	Method 411, Air Sampling and Analysis 3 rd Edition ,2013	µg/m ³	180.00	30.69
Ammonia(NH ₃)	Method 401, Air Sampling and Analysis 3 rd Edition ,2013	µg/m ³	400.00	8.25
Benzene(C ₆ H ₆)	IS 5182 (Part 11) :2006 (RA 2017)	µg/m ³	5.00	BDL
Benzo(a)Pyrene(BaP)	CPCB Manual Vol 1 2011	ng/m ³	1.00	BDL
Arsenic(As)	MASA-822 3rd Edition	ng/m ³	6.00	BDL
Nickel(Ni)	MASA-822 3rd Edition	ng/m ³	20.00	BDL
Lead (Pb)	MASA-822 3rd Edition	µg/m ³	1.00	BDL
Remark				
<ul style="list-style-type: none"> ➤ All above results are within NAAQ (National Ambient Air Quality) standards. ➤ BDL – Below Detectable Limit. 				
				 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By



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TEST REPORT



Test Report No: -	GESEC/PRO/AAQM/2022-23/11/857		Report Date	28/11/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/11/857			
Name & Address of the Customer	M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. I Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Near Sugar House and Liquor Gate		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
09:40 A.M	10:40 A.M		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	23.0	Wet Bulb Temperature °C	17.0	
Dry Bulb Temperature °C	23.0	Relative Humidity % RH	54.6	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
21/11/2022	22/11/2022	23/11/2022	28/11/2022	
Name of Instrument	High Volume Sampler	Date Of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1528	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):2019	µg/cum	100.00	66.13
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	26.10
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	18.25
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	25.62
Remark:-				
➤ All above results are within NAAQ (National Ambient Air Quality) standards.				
				
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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/11/858		Report Date	28/11/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/11/858			
Name & Address of the Customer	M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. I Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Near Cane Yard		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
09:55 A.M	10:55 A.M		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	24.0	Wet Bulb Temperature °C	17.0	
Dry Bulb Temperature °C	24.0	Relative Humidity % RH	49.2	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
21/11/2022	22/11/2022	23/11/2022	28/11/2022	
Name of Instrument	Respirable Dust Sampler	Date Of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1525	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):2019	µg/cum	100.00	63.36
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	16.24
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	18.05
Oxides of Nitrogen (NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	21.77
Remark:-				
➤ All above results are within NAAQ (National Ambient Air Quality) standards.				
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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/11/859		Report Date	28/11/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/11/859			
Name & Address of the Customer	M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. I Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Near Distillery & Country Liquor		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
10:10 A.M	11:10 A.M		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	24.0	Wet Bulb Temperature °C	17.0	
Dry Bulb Temperature °C	24.0	Relative Humidity % RH	49.2	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
21/11/2022	22/11/2022	23/11/2022	28/11/2022	
Name Of Instrument	High Volume Combined Sampler	Date Of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1526	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):2019	µg/cum	100.00	60.83
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2019	µg/cum	60.00	21.45
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/cum	80.00	14.91
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018	µg/cum	80.00	18.02
Remark:-				
➤ All above results are within NAAQ (National Ambient Air Quality) standards.				
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TEST REPORT

Test Report No	GESEC/PRO/ST/2022-23/11/860	Report Date	28/11/2022
Sample ID -	GESEC/PRO/ST/2022-23/11/860		

Name & Address of the Customer	M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. I Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.
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Sample Details

Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date
21/11/2022	22/11/2022	23/11/2022	28/11/2022

Instrument Details

Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	17/10/2022
Calibration Certificate No.	SEC/TH/57	Due Date of Calibration	16/10/2023

Stack Details

Stack No/ID	Stack Attached to		Sampling done by
01	Co-gen Boiler Stack		GESEC
Shape	Round	Fuel Used	Bagasse
Diameter/ Dimensions (m)	3.00	Pressure	3.00
Height (m)	65 M		
Temperature (°C)	120	Velocity (m/s)	7.53
Gas Volume (Nm³/Hr)	145431.14		

Parameters	Method	Unit	Limit	Result
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm ³	150	35.23
Sulphur Dioxide (SO ₂)	IS 11255 (Part 2) 2019	mg/Nm ³	-	29.65
		Kg/day	-	103.49

Remarks-

- Maharashtra Pollution Control Board (MPCB) Limits SPM: 150 mg/Nm³.
- Maharashtra Pollution Control Board (MPCB) Limits SO₂: As per consent.



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TEST REPORT

Test Report No	GESEC/PRO/ST/2022-23/11/861	Report Date	28/11/2022
Sample ID -	GESEC/PRO/ST/2022-23/11/861		

Name & Address of the Customer	M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. I Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.
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Sample Details

Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date
21/11/2022	22/11/2022	23/11/2022	28/11/2022

Instrument Details

Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	17/10/2022
Calibration Certificate No.	SEC/TH/57	Due Date of Calibration	16/10/2023

Stack Details

Stack No/ID	Stack Attached to		Sampling done by
02	D.G. Stack-1 (1010 KVA)		GESEC
Shape	Round	Fuel Used	Diesel
Diameter/ Dimensions (m)	0.30	Pressure	1.00
Height (m)	8.0 M		
Temperature (°C)	55	Velocity (m/s)	3.44
Gas Volume (Nm³/Hr)	795.95		

Parameters	Method	Unit	Limit	Result
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm ³	150	12.66
Sulphur Dioxide (SO ₂)	IS 11255 (Part 2) 2019	mg/Nm ³	-	6.94
		Kg/day	-	00.13

Remarks-

- Maharashtra Pollution Control Board (MPCB) Limits SPM: 150 mg/Nm³.
- Maharashtra Pollution Control Board (MPCB) Limits SO₂: As per consent.



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TEST REPORT

Test Report No: -	GESEC/PRO/ANLM/2022-23/11/862	Report Date	28/11/2022
Sample ID: -	GESEC/PRO/ANLM/2022-23/11/862		

Name & Address of the Customer
M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. I
Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.

Ambient Noise Sample Details

Type	Ambient Noise
Sampling done by	GESEC
Standard method	As Per IS: 9989:2020

Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date
21/11/2022	22/11/2022	23/11/2022	28/11/2022

Name Of Instrument	Digital Sound Level Meter	Date Of Calibration	17/10/2022
Calibration Certificate No.	SSEC/ME/266	Due Date of Calibration	16/10/2023

Test Location	Unit	Average Noise Level Readings		CPCB Standards dB(A)
		Day (12.40 P.M)	Night (10.30 P.M.)	
Near Main Gate	dB(A)	60.2	55.7	During Day time = 75 dB (A) During Night time= 70 dB(A)
Near Sugar House & Liquor Gate	dB(A)	63.8	57.2	
Near Cane Yard	dB(A)	72.5	66.3	
Near Distillery & Country Liquor	dB(A)	69.5	65.4	

Remark-
➤ Centre Pollution Control Board (CPCB) has prescribed 75 dB (A) as an upper limit of Noise Level during the Day Time & 70 dB (A) during the Night Time.



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TEST REPORT

Test Report No: -	GESEC/PRO/WNLM/2022-23/11/863	Report Date	28/11/2022
Sample ID: -	GESEC/PRO/WNLM/2022-23/11/863		

Name & Address of the Customer
M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. I
Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.

Work Zone Noise Sample Details

Type	Work Zone Noise
Sampling done by	GESEC
Standard method	As Per IS: 9989:2020

Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date
21/11/2022	22/11/2022	23/11/2022	28/11/2022

Name of Instrument	Sound Level Meter	Date of Calibration	07/10/2022
Calibration Certificate No.	SSEC/ME/259	Due Date of Calibration	06/10/2023

Test Location	Unit	Average Noise Level Readings		The Factories Act 1948, standards
		Day (01.20 P.M)	Night (11.15 P.M.)	
Sugar House	dB(A)	79.2	75.8	≤ 90
Boiling House	dB(A)	81.6	76.4	
Mill House (Fabrizer)	dB(A)	83.4	81.1	
Fermentation area	dB(A)	76.4	72.5	
Distillation Area	dB(A)	86.1	85.2	
Liquor Plant	dB(A)	72.3	72.0	

Remark-
 ➤ The Factories Act, 1948, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours exposure.
 ➤ All above results are within Factories Act 1948 Standards.



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TEST REPORT

Test Report No: GESEC/PRO/WW/2022-23/11/864		Report Date	28/11/2022
Sample ID : GESEC/PRO/WW/2022-23/11/864		Sample Details	CPU Inlet
M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. I Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.		Type of Sample	Sugar Effluent
		Volume Of Sample	1 Lit plastic bottle
		Sample Status	Sealed
		Sample Collected By	GESEC
		Date of Sample Collection	21/11/2022
		Sample Receipt Date	22/11/2022
		Analysis start Date	23/11/2022
		Analysis End Date	28/11/2022
Parameters	Results	Unit	Standard Method
pH	3.00	--	APHA 4500 H+,B 23rd Edition.2017
Temperature	30.5	°C	APHA 2550
Colour	8.52	Hazen	IS 3025 (Part 4) : 1983
Total Suspended Solid (TSS)	180.62	mg/lit	APHA 2540 D 23 rd ED:2017
Total Dissolved Solids (TDS)	2012.63	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	2956.84	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	1148.95	mg/lit	IS 3025 (Part 44), 2019
Oil & Grease	BDL	mg/lit	IS 3025 (Part 39), 2019
Chlorides as Cl ⁻	652.81	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO ₄ ⁻	572.90	mg/lit	APHA 3025 (Part 24) ;2019
Remark(s):			
➤ BDL: Below detectable Limit			
		 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By	

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TEST REPORT

Test Report No: GESEC/PRO/WW/2022-23/11/865	Report Date	28/11/2022
Sample ID : GESEC/PRO/WW/2022-23/11/865	Sample Details	CPU Outlet
M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. I Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.	Type of Sample	Waste Water
	Volume Of Sample	1 Lit plastic bottle
	Sample Status	Sealed
	Sample Collected By	GESEC
	Date of Sample Collection	21/11/2022
	Sample Receipt Date	22/11/2022
	Analysis start Date	23/11/2022
	Analysis End Date	28/11/2022

Parameters	Results	MPCB Limit	Unit	Standard Method
pH	7.25	5.5 -9.0	--	APHA 4500 H+,B 23rd Edition.2017
Temperature	26.0	--	°C	APHA 2550
Colour	BDL	150	Hazen	IS 3025 (Part 4) : 1983
Total Suspended Solid (TSS)	35.20	--	mg/lit	APHA 2540 D 23 rd ED:2017
Total Dissolved Solids (TDS)	369.41	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	45.71	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	18.95	100	mg/lit	IS 3025 (Part 44), 2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019
Chlorides as Cl ⁻	45.11	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO ₄ ⁻	36.02	1000	mg/lit	APHA 3025 (Part 24) ;2019

Remark(s):

- BDL – Below Detectable Limit.
- All parameters are within the MPCB limit.



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TEST REPORT			
Test Report No: GESEC/PRO/WW/2022-23/11/866	Report Date	28/11/2022	
Sample ID : GESEC/PRO/WW/2022-23/11/866	Sample Details	ETP Inlet	
M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. 1 Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.	Type of Sample	Sugar Effluent	
	Volume Of Sample	1 Lit plastic bottle	
	Sample Status	Sealed	
	Sample Collected By	GESEC	
	Date of Sample Collection	21/11/2022	
	Sample Receipt Date	22/11/2022	
	Analysis start Date	23/11/2022	
	Analysis End Date	28/11/2022	
Parameters	Results	Unit	Standard Method
pH	3.50	--	APHA 4500 H+,B 23rd Edition.2017
Temperature	26.4	°C	APHA 2550
Colour	13.00	Hazen	IS 3025 (Part 4) : 1983
Total Suspended Solid (TSS)	145.86	mg/lit	APHA 2540 D 23 rd ED:2017
Total Dissolved Solids (TDS)	2845.01	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	3014.77	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	1345.92	mg/lit	IS 3025 (Part 44), 2019
Oil & Grease	13.00	mg/lit	IS 3025 (Part 39), 2019
Chlorides as Cl ⁻	910.51	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO ₄ ⁻	824.03	mg/lit	APHA 3025 (Part 24) ;2019
Remark(s):			
➤ BDL: Below Detectable Limit			
			

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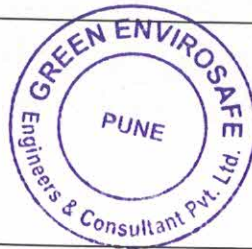
TEST REPORT

Test Report No: GESEC/PRO/WW/2022-23/11/867	Report Date	28/11/2022
Sample ID : GESEC/PRO/WW/2022-23/11/867	Sample Details	ETP Outlet
M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. I Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.	Type of Sample	Waste Water
	Volume Of Sample	1 Lit plastic bottle
	Sample Status	Sealed
	Sample Collected By	GESEC
	Date of Sample Collection	21/11/2022
	Sample Receipt Date	22/11/2022
	Analysis start Date	23/11/2022
	Analysis End Date	28/11/2022

Parameters	Results	MPCB Limit	Unit	Standard Method
pH	7.52	5.5 -9.0	--	APHA 4500 H+,B 23rd Edition.2017
Temperature	25.4	--	°C	APHA 2550
Colour	BDL	150	Hazen	IS 3025 (Part 4) : 1983
Total Suspended Solid (TSS)	38.41	--	mg/lit	APHA 2540 D 23 rd ED:2017
Total Dissolved Solids (TDS)	846.70	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	135.20	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	48.77	100	mg/lit	IS 3025 (Part 44), 2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019
Chlorides as Cl ⁻	165.24	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO ₄ ²⁻	127.89	1000	mg/lit	APHA 3025 (Part 24) ;2019

Remark(s):

- BDL – Below Detectable Limit.
- All parameters are within the MPCB limit.



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(Technical Manager)
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TEST REPORT

Test Report No - GESEC/PRO/SO/2022-23/11/868	Date of Reporting	28/11/2022
Sample ID - GESEC/PRO/SO/2022-23/11/868	Sample Details	Solid
M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. 1 Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.	Type of Sample	Compost Sample analysis
	Volume Of Sample	2 Lit
	Sample Status	Sealed
	Sample Collected By	GESEC
	Date of Sample Collection	21/11/2022
	Date of Sample received in lab	22/11/2022
	Analysis start Date	23/11/2022
	Analysis End Date	28/11/2022

Compost Sample Analysis

Parameter	Result	Unit(s)	MPCB Compost Standard	Standard Method
pH	7.55	---	--	IS 2720 (Part 26) Rev.2 :2016
Organic Carbon	23.75	%	20.0-25.0	IS 2720 (Part 22) : 2020
Organic Matter	40.85	%	--	IS 2720 (Part 22) : 2020
Total Volatile solids	31.20	%	--	Method 8265
Total Solids	81.97	%	--	Method 1684
Ash content	12.44	%	--	Methods Manual, Soil Testing In India (Department of Agriculture
Moisture content	32.18	%	< 35.0	IS 2720 (Part 11) : 2016
Nitrogen	1.80	%	1.5-2.0	Methods Manual, Soil Testing In India (Department of Agriculture
Potassium as K	2.53	%	2.0-3.5	Methods Manual, Soil Testing In India (Department of Agriculture
Phosphorus	1.74	%	1.5-2.0	Methods Manual, Soil Testing In India (Department of Agriculture
Copper	0.05	%	--	Methods Manual, Soil Testing In India (Department of Agriculture & Cooperations Ministry Of Agri. Government of India 17 B Page No. 107:2011
Iron	1.05	%	--	Methods Manual, Soil Testing In India (Department of Agriculture & Cooperations Ministry Of Agri. Government of India 17 B Page No. 107:2011
Manganese	0.16	%	--	Methods Manual, Soil Testing In India (Department of Agriculture & Cooperations Ministry Of Agri. Government of India 17 B Page No. 107:2011
Magnesium	0.18	%	--	Methods Manual, Soil Testing In India (Department of Agriculture & Cooperations Ministry Of Agri. Government of India 17 B Page No. 104:2011

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Molybdenum	0.07	%	--	Methods Manual, Soil Testing In India (Department of Agriculture & Cooperations Ministry Of Agri. Government of India 17 B Page No. 118:2011
Sodium	0.10	%	--	Methods Manual, Soil Testing In India (Department of Agriculture
Boron	0.06	%	--	Methods Manual, Soil Testing In India (Department of Agriculture
Chloride	3.81	%	--	Soil Chemical Analysis By M L Jackson
Sulphates as SO ₄ ²⁻	2.50	%	--	Methods Manual, Soil Testing In India (Department of Agriculture
Calcium as Ca	5.24	%	--	IS 2720 (Part 23) : 2020
C/N Ratio	12.47	---	< 17.0	Methods Manual, Soil Testing In India (Department of Agriculture

Remark (S) :

- All parameters are within the MPCB limit.



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Mr. Vinod Hande
(Technical Manager)
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TEST REPORT

Test Report No - GESEC/PRO/W/2022-23/11/869	Date of Reporting	28/11/2022
Sample ID - GESEC/PRO/W/2022-23/11/869	Sample Details	Bore Well Water (Factory)
M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. 1 Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.	Type of Sample	Ground Water
	Volume Of Sample	2 Lit
	Sample Status	Sealed
	Sample Collected By	GESEC
	Date of Sample Collection	21/11/2022
	Date of Sample received in lab	22/11/2022
	Analysis start Date	23/11/2022
	Analysis End Date	28/11/2022

Open Well Sample 1

Parameter	Result	Unit(s)	MPCB Irrigation Standards	Standard Method
pH	7.74	--	6.5 -9.0	APHA 4500, 23 rd Edition:2017
Total Ammonical Nitrogen	2.36	mg/lit	<50.0	APHA 4500 NH3-NO,23 rd Edition:2017
Chlorides (Cl)	49.20	mg/lit	<600.0	APHA 4500 Cl- B,23 rd Edition, 2017
Sulphates (SO ₄)	25.48	mg/lit	<1000.0	IS:3025 Part-24:2019
Zinc (Zn)	0.33	mg/lit	<5.0	IS: 3025 Part-02 (2004)
B.O.D. (5 days 20°C)	BDL	mg/lit	<30.0	IS 3025 (Part 44) , 2019
C.O.D.	7.11	mg/lit	<150.0	IS 3025 (Part 58) , 2019

Remark(s):

- BDL – Below Detectable Limit.
- MPCB Irrigation Standards: Maharashtra Pollution Control Board Water Quality Standards For Best Designated Usages (Fit for Agriculture, Industrial cooling & process water)
- The above Ground Water can be used for irrigation purpose.





Vinod Hande
Mr. Vinod Hande
(Technical Manager)
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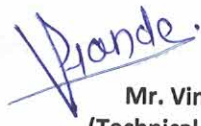
TEST REPORT				
Test Report No - GESEC/PRO/W/2022-23/11/870		Date of Reporting		28/11/2022
Sample ID - GESEC/PRO/W/2022-23/11/870		Sample Details		Bore Well Water (Mane)
M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. I Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.		Type of Sample		Ground Water
		Volume Of Sample		2 Lit
		Sample Status		Sealed
		Sample Collected By		GESEC
		Date of Sample Collection		21/11/2022
		Date of Sample received in lab		22/11/2022
		Analysis start Date		23/11/2022
		Analysis End Date		28/11/2022
Open Well Sample 2				
Parameter	Result	Unit(s)	MPCB Irrigation Standards	Standard Method
pH	7.52	--	6.5 -9.0	APHA 4500, 23 rd Edition:2017
Total Ammonical Nitrogen	2.30	mg/lit	<50.0	APHA 4500 NH3-NO,23 rd Edition:2017
Chlorides (Cl)	52.11	mg/lit	<600.0	APHA 4500 Cl- B,23 rd Edition, 2017
Sulphates (SO ₄)	28.85	mg/lit	<1000.0	IS:3025 Part-24:2019
Zinc (Zn)	0.03	mg/lit	<5.0	IS: 3025 Part-02 (2004)
B.O.D. (5 days 20°C)	BDL	mg/lit	<30.0	IS 3025 (Part 44) , 2019
C.O.D.	6.24	mg/lit	<150.0	IS 3025 (Part 58) , 2019
Remark(s):				
<ul style="list-style-type: none"> ➤ BDL – Below Detectable Limit. ➤ MPCB Irrigation Standards: Maharashtra Pollution Control Board Water Quality Standards For Best Designated Usages (Fit for Agriculture, Industrial cooling & process water) ➤ The above Ground Water can be used for irrigation purpose. 				
				
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TEST REPORT				
Test Report No - GESEC/PRO/W/2022-23/11/871		Date of Reporting		28/11/2022
Sample ID - GESEC/PRO/W/2022-23/11/871		Sample Details		Bore Well Water (Patil)
M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. I Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.		Type of Sample		Ground Water
		Volume Of Sample		2 Lit
		Sample Status		Sealed
		Sample Collected By		GESEC
		Date of Sample Collection		21/11/2022
		Date of Sample received in lab		22/11/2022
		Analysis start Date		23/11/2022
		Analysis End Date		28/11/2022
Open Well Sample 2				
Parameter	Result	Unit(s)	MPCB Irrigation Standards	Standard Method
pH	7.02	--	6.5 -9.0	APHA 4500, 23 rd Edition:2017
Total Ammonical Nitrogen	78.98	mg/lit	<50.0	APHA 4500 NH3-NO,23 rd Edition:2017
Chlorides (Cl)	41.01	mg/lit	<600.0	APHA 4500 Cl- B,23 rd Edition, 2017
Sulphates (SO ₄)	19.52	mg/lit	<1000.0	IS:3025 Part-24:2019
Zinc (Zn)	0.06	mg/lit	<5.0	IS: 3025 Part-02 (2004)
B.O.D. (5 days 20°C)	BDL	mg/lit	<30.0	IS 3025 (Part 44) , 2019
C.O.D.	8.21	mg/lit	<150.0	IS 3025 (Part 58) , 2019
Remark(s):				
<ul style="list-style-type: none"> ➤ BDL – Below Detectable Limit. ➤ MPCB Irrigation Standards: Maharashtra Pollution Control Board Water Quality Standards For Best Designated Usages (Fit for Agriculture, Industrial cooling & process water) ➤ The above Ground Water can be used for irrigation purpose. 				
				
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TEST REPORT				
Test Report No - GESEC/PRO/W/2022-23/11/872		Date of Reporting		28/11/2022
Sample ID - GESEC/PRO/W/2022-23/11/872		Sample Details		Bore Well Water (Wategaonkar)
M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. 1 Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.		Type of Sample		Ground Water
		Volume Of Sample		2 Lit
		Sample Status		Sealed
		Sample Collected By		GESEC
		Date of Sample Collection		21/11/2022
		Date of Sample received in lab		22/11/2022
		Analysis start Date		23/11/2022
		Analysis End Date		28/11/2022
Open Well Sample 2				
Parameter	Result	Unit(s)	MPCB Irrigation Standards	Standard Method
pH	7.38	--	6.5 -9.0	APHA 4500, 23 rd Edition:2017
Total Ammonical Nitrogen	1.55	mg/lit	<50.0	APHA 4500 NH3-NO,23 rd Edition:2017
Chlorides (Cl)	78.94	mg/lit	<600.0	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates (SO ₄)	36.01	mg/lit	<1000.0	IS:3025 Part-24:2019
Zinc (Zn)	0.08	mg/lit	<5.0	IS: 3025 Part-02 (2004)
B.O.D. (5 days 20°C)	BDL	mg/lit	<30.0	IS 3025 (Part 44) , 2019
C.O.D.	7.95	mg/lit	<150.0	IS 3025 (Part 58) , 2019
Remark(s):				
<ul style="list-style-type: none"> ➤ BDL – Below Detectable Limit. ➤ MPCB Irrigation Standards: Maharashtra Pollution Control Board Water Quality Standards For Best Designated Usages (Fit for Agriculture, Industrial cooling & process water) ➤ The above Ground Water can be used for irrigation purpose. 				
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TEST REPORT

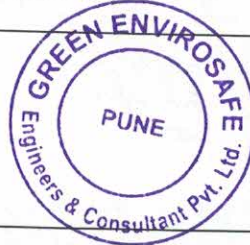
Test Report No - GESEC/PRO/W/2022-23/11/873	Date of Reporting	28/11/2022
Sample ID - GESEC/PRO/W/2022-23/11/873	Sample Details	Bore Well Water (More)
M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. I Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.	Type of Sample	Ground Water
	Volume Of Sample	2 Lit
	Sample Status	Sealed
	Sample Collected By	GESEC
	Date of Sample Collection	21/11/2022
	Date of Sample received in lab	22/11/2022
	Analysis start Date	23/11/2022
	Analysis End Date	28/11/2022

Open Well Sample 2

Parameter	Result	Unit(s)	MPCB Irrigation Standards	Standard Method
pH	7.14	--	6.5 -9.0	APHA 4500, 23 rd Edition:2017
Total Ammonical Nitrogen	0.56	mg/lit	<50.0	APHA 4500 NH3-NO,23 rd Edition:2017
Chlorides (Cl)	41.87	mg/lit	<600.0	APHA 4500 Cl- B,23 rd Edition, 2017
Sulphates (SO ₄)	15.94	mg/lit	<1000.0	IS:3025 Part-24:2019
Zinc (Zn)	0.02	mg/lit	<5.0	IS: 3025 Part-02 (2004)
B.O.D. (5 days 20°C)	BDL	mg/lit	<30.0	IS 3025 (Part 44) , 2019
C.O.D.	5.84	mg/lit	<150.0	IS 3025 (Part 58) , 2019

Remark(s):

- BDL – Below Detectable Limit.
- MPCB Irrigation Standards: Maharashtra Pollution Control Board Water Quality Standards For Best Designated Usages (Fit for Agriculture, Industrial cooling & process water)
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TEST REPORT

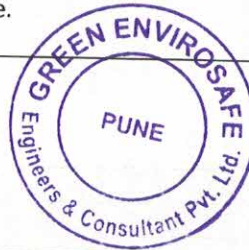
Test Report No - GESEC/PRO/W/2022-23/11/874	Date of Reporting	28/11/2022
Sample ID - GESEC/PRO/W/2022-23/11/874	Sample Details	Bore Well Water (Dange)
M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. 1 Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.	Type of Sample	Ground Water
	Volume Of Sample	2 Lit
	Sample Status	Sealed
	Sample Collected By	GESEC
	Date of Sample Collection	21/11/2022
	Date of Sample received in lab	22/11/2022
	Analysis start Date	23/11/2022
	Analysis End Date	28/11/2022

Open Well Sample 2

Parameter	Result	Unit(s)	MPCB Irrigation Standards	Standard Method
pH	7.11	--	6.5 -9.0	APHA 4500, 23 rd Edition:2017
Total Ammonical Nitrogen	1.63	mg/lit	<50.0	APHA 4500 NH3-NO,23 rd Edition:2017
Chlorides (Cl)	48.10	mg/lit	<600.0	APHA 4500 Cl- B,23 rd Edition, 2017
Sulphates (SO ₄)	19.52	mg/lit	<1000.0	IS:3025 Part-24:2019
Zinc (Zn)	0.06	mg/lit	<5.0	IS: 3025 Part-02 (2004)
B.O.D. (5 days 20°C)	BDL	mg/lit	<30.0	IS 3025 (Part 44) , 2019
C.O.D.	7.41	mg/lit	<150.0	IS 3025 (Part 58) , 2019

Remark(s):

- BDL – Below Detectable Limit.
- MPCB Irrigation Standards: Maharashtra Pollution Control Board Water Quality Standards For Best Designated Usages (Fit for Agriculture, Industrial cooling & process water)
- The above Ground Water can be used for irrigation purpose.





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

END OF REPORT

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3. 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.
4. 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.
5. 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.
6. MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024.

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)
ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT				
Test Report No – GESEC/PRO/DW/2022-23/11/875		Date of Reporting		28/11/2022
Sample ID - GESEC/PRO/DW/2022-23/11/875		Sample Details		Drinking Water
Name & Address of the Customer - M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. I Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.		Type of Sample		Water
		Volume Of Sample		2 Lit
		Sample Status		Sealed
		Sample Collected By		GESEC
		Date of Sample Collection		21/11/2022
		Date of Sample received in lab		22/11/2022
		Analysis start Date		23/11/2022
		Analysis End Date		28/11/2022
		WATER ANALYSIS REPORT		
Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter				
Turbidity	<0.1	Max 1	NTU	IS:3025(part10):2019
TDS	115.95	Max 500	mg/l	IS :3025(part 16):2017
Chemical Parameter				
pH	7.55	6.5 to 8.5	--	APHA 4500, 23 rd Edition:2017
Total Hardness	49.62	Max 200	mg/l	IS:3025 Part-21:2019
Total Alkalinity	15.30	Max 200	mg/l	IS:3025 Part-23:2019
Sulphate	8.45	Max 200	mg/l	IS:3025 Part-24:2019
Residual Chlorine	BDL	Min 0.2	mg/l	IS:3025(part 26):2019
Chloride	9.41	Max 250	mg/l	IS:3025 Part-32:2019
Calcium (as Ca)	14.90	Max 75	mg/l	IS:3025 Part-40:2019
Magnesium (as Mg)	3.02	Max 30	mg/l	APHA 3500- Mg, B, 23 rd Edition:2017
Elemental Analysis				
Iron as Fe	<0.1	Max 0.3	mg/l	IS:3025(part 2):2019
Microbiological Parameter				
Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
E. coli.	Absent	Absent	per/100ml	IS 1622:1981
Remark(s):				
<ul style="list-style-type: none"> ➤ BDL – Below Detectable Limit. ➤ All above results are well within MPCB Limit. ➤ For Total Coliform & E. coli. Absent can be consider as Zero [Refer IS: 1622 (R.A.1996), Table No.-4]. ➤ The above water sample is Comply with required limit as per 10500:2012. 				
			 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By	



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TEST REPORT

Test Report No: GESEC/PRO/WW/2022-23/11/876		Report Date	28/11/2022
Sample ID : GESEC/PRO/WW/2022-23/11/876		Sample Details	Raw Spent Wash
M/s. Rajarambapu Patil S.S.K. Ltd., Unit No. I Post – Sakharale, Tal: Walwa, Dist.: Sangli, State: Maharashtra.		Type of Sample	Sugar Effluent
		Volume Of Sample	1 Lit plastic bottle
		Sample Status	Sealed
		Sample Collected By	GESEC
		Date of Sample Collection	21/11/2022
		Sample Receipt Date	22/11/2022
		Analysis start Date	23/11/2022
		Analysis End Date	28/11/2022
Parameters	Results	Unit	Standard Method
pH	4.22	--	APHA 4500 H+,B 23rd Edition.2017
Temperature	30.5	°C	APHA 2550
Total Suspended Solid (TSS)	376.92	mg/lit	APHA 2540 D 23 rd ED:2017
Total Dissolved Solids (TDS)	65127.85	mg/lit	APHA 2540,C,23rd Edition, 2017
Total Solids (TS)	65504.77	mg/lit	IS: 3025 Part-17 (2006)
Total Volatile Solids (TS)	16025.78	mg/lit	APHA 2130
Chemical Oxygen Demand (COD)	215684.96	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	82417.30	mg/lit	IS 3025 (Part 44), 2019
Oil & Grease	310.47	mg/lit	IS 3025 (Part 39), 2019
Chlorides as Cl ⁻	15241.92	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO ₄ ²⁻	9053.87	mg/lit	APHA 3025 (Part 24) ;2019
Remark(s):			
➤ BDL: Below detectable Limit			
			
		 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By	

*** END OF REPORT ***

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