	TEST	REPORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23/02/	GESEC/PRO/AAQM/2022-23/02/180			
Sample ID: -	GESEC/PRO/AAQM/2022-23/02/	GESEC/PRO/AAQM/2022-23/02/180			023
Name & Address of the Customer	M/s.Pad.Dr.D.Y.Patil Sahakari Sa Dnyanshanti Nagar, Vesaraf Pals Dist-Kolhapur, Maharashtra		а,		
	Ambient Air S	Sample Details			
Type	Sampling Location	n	Sar	npling done by	,
Ambient Air	Palsambe Village			GESEC	
	Sampli	ng Time			
Start Time	Stop	Time		Total Hrs.	
10.00 am	10.0	10.00 am			Hrs.
	Meteorological Data/Er	vironmental Conditions			
Ambient Temperature °C	29	Wet Bulb Tempera	19		
Dry Bulb Temperature °C	29	Relative Humidity % RH		48.4	
Date of Sampling	Sample Receipt Date	Analysis Start D	ate	Analysis	End Date
08.02.2023 to 09.02.2023	10.02.2023	10.02.2023		18.02.2023	
Name of Instrument	Ambient Fine Dust Sampler	Date of Calibrat	ion	15/03/2022	
Calibration Certificate No.	TECH/CAL/2022/03.B/33	Due Date of Calibr	ation	14/03	3/2023
Parameters	Method	Method		NAAQ Standards	Result
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2)	:2017	μg/m³	≤ 80	18.65
Nitrogen Dioxide (NO ₂)	IS:5182 (PART 6)	:2018	μg/m³	≤ 80	21.47
Particulate Matter PM ₁₀	IS:5182 (PART 4):2019		μg/m³	≤ 100	45.02
Particulate Matter PM _{2.5}	IS:5182 (PART 24	μg/m³	≤ 60	17.36	
Ozone(O ₃) For 1 Hrs.	Method 411, Air Sampling and Ar	2013, nalysis 3 rd Edition	μg/m³	≤ 180	9.65
Ammonia (NH ₃) For 24 Hrs.	Method 401, Air Sampling and Ar	2013, nalysis 3 rd Edition	μg/m³	≤400	3.47
- 1 11					

Lead (Pb) Remark-

Carbon Monoxide (CO)

Benzo(a)Pyrene (BaP)

Benzene (C₆H₆)

Arsenic (As)

Nickel (Ni)

All above results are within National Ambient Air Quality standards.

BDL-Below Detectable Limit.

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

BDL

BDL

BDL

BDL

BDL

BDL

mg/m³

 $\mu g/m^3$

ng/m3

ng/m³

ng/m3

 $\mu g/m^3$

≤ 04

≤ 05

≤ 01

≤ 06

≤ 20

≤1.0

END OF REPORT

MASA-822 3rd Edition

IS 5182 (Part 11):2006 (RA 2017)

CPCB Manual Vol 1 2011

MASA-822 3rd Edition

MASA-822 3rd Edition

MASA-822 3rd Edition

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	TEST R	EPORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23/02/1	81	Report	19.02.20	22
Sample ID: -	GESEC/PRO/AAQM/2022-23/02/1	81	Date	19.02.20	25
Name & Address of the Customer	M/s.Pad.Dr.D.Y.Patil Sahakari Sak Dnyanshanti Nagar, Vesaraf Palsa Dist-Kolhapur, Maharashtra	하면 하는 '이 사이를 하면 하면 하면 하면 하면 하다면 하다.	,		
	Ambient Air Sar	mple Details			
Туре	Sampling Location		Samp	oling done by	
Ambient Air	Asalaj Village			GESEC	
	Sampling	Time			
Start Time	Stop	Time		Total	Hrs.
10.30 am	10.3	0 am		24 Hi	·S.
	Meteorological Data/Envi	ironmental Conditions			
Ambient Temperature °C	29	Wet Bulb Temperat	ture °C	C 19	
Dry Bulb Temperature °C	29	Relative Humidity % RH			4
Date of Sampling	Sample Receipt Date	ate	Analysis E	nd Date	
08.02.2023 to 09.02.2023	10.02.2023	10.02.2023		18.02.2023	
Name of Instrument	Ambient Fine Dust Sampler	Date of Calibrat	ion	15/03/2022	
Calibration Certificate No.	TECH/CAL/2022/03.B/37	Due Date of Calibr	ation	14/03/	2023
Parameters	Method		Unit	NAAQ Standards	Resul
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2)	:2017	μg/m³	≤ 80	19.02
Nitrogen Dioxide (NO ₂)	IS:5182 (PART 6)	:2018	μg/m³	≤ 80	22.77
Particulate Matter PM ₁₀	IS:5182 (PART 4)	μg/m³	≤ 100	48.01	
Particulate Matter PM _{2.5}	IS:5182 (PART 24	μg/m³	≤ 60	18.32	
Ozone(O ₃) For 1 Hrs.	Method 411, Air Sampling and Ar	Method 411, Air Sampling and Analysis 3 rd Edition ,2013			10.89
Ammonia (NH ₃) For 24 Hrs.	Method 401, Air Sampling and Ar	nalysis 3 rd Edition ,2013	μg/m³	≤400	3.74
Carbon Monoxide (CO)	MASA-822 3rd Edition			≤ 04	BDL
Benzene (C ₆ H ₆)	IS 5182 (Part 11) :200	6 (RA 2017)	μg/m³	≤ 05	BDL
Benzo(a)Pyrene (BaP)	CPCB Manual Vol	1 2011	ng/m³	≤ 01	BDL
				and the same of th	

Lead (Pb) Remark-

Arsenic (As)

Nickel (Ni)

All above results are within National Ambient Air Quality standards.

BDL-Below Detectable Limit.

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≤ 06

≤ 20

≤1.0

ng/m³

ng/m³

 $\mu g/m^3$

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BDL

BDL

BDL

Terms and conditions

The report is refer only to the sample tested and not applies to the bulk. 1. 2.

	TEST R	EPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/02/1	.82	Report			
Sample ID: -	GESEC/PRO/AAQM/2022-23/02/182 Da			19.02.2	023	
Name & Address of the Customer	M/s.Pad.Dr.D.Y.Patil Sahakari Sal Dnyanshanti Nagar, Vesaraf Palsa Dist-Kolhapur, Maharashtra					
	Ambient Air Sa	mple Details				
Туре	Sampling Location	1	Samı	npling done by		
Ambient Air	Saitawade Village			GESEC		
	Sampling	Time				
Start Time	Stop	Time	Total Hrs.			
11.00 am	11.0	00 am		24 Hrs.		
	Meteorological Data/Env	ironmental Condi	tions			
Ambient Temperature °C	29	Wet Bulb Ter	mperature °C	19		
Dry Bulb Temperature °C	29	Relative Hur	midity % RH	48.4		
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis End Dat		
08.02.2023 to 09.02.2023	10.02.2023	10.02	.2023	18.02.2023		
Name of Instrument	Ambient Fine Dust Sampler	Date of Ca	alibration	15/03/2022		
Calibration Certificate No.	TECH/CAL/2022/03.B/19	.B/19 Due Date of Calibration			/2023	
Parameters	Method		Unit	NAAQ Standards	Result	

Parameters	Unit	NAAQ Standards	Result	
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	μg/m³	≤ 80	18.06
Nitrogen Dioxide (NO ₂)	IS:5182 (PART 6):2018	μg/m³	≤ 80	20.31
Particulate Matter PM ₁₀	IS:5182 (PART 4):2019	μg/m³	≤ 100	47.98
Particulate Matter PM _{2.5}	IS:5182 (PART 24):2019	μg/m³	≤ 60	17.16
Ozone(O₃) For 1 Hrs.	Method 411, Air Sampling and Analysis 3 rd Edition ,2013	μg/m³	≤ 180	9.07
Ammonia (NH ₃) For 24 Hrs.	Method 401, Air Sampling and Analysis 3 rd Edition ,2013	μg/m³	≤400	3.61
Carbon Monoxide (CO)	MASA-822 3rd Edition	mg/m³	≤ 04	BDL
Benzene (C ₆ H ₆)	IS 5182 (Part 11) :2006 (RA 2017)	μg/m³	≤ 05	BDL
Benzo(a)Pyrene (BaP)	CPCB Manual Vol 1 2011	ng/m³	≤ 01	BDL
Arsenic (As)	MASA-822 3rd Edition	ng/m³	≤ 06	BDL
Nickel (Ni)	MASA-822 3rd Edition	ng/m³	≤ 20	BDL
Lead (Pb)	MASA-822 3rd Edition	μg/m³	≤1.0	BDL

Remark-

- All above results are within National Ambient Air Quality standards.
- BDL-Below Detectable Limit.

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- The report is refer only to the sample tested and not applies to the bulk. 2.
 - The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

Date of Calibration

Due Date of Calibration

	IESI	KEPOKI			
Test Report No: -	GESEC/PRO/AAQM/2022-23/02,	/183	Report	10.00.000	
Sample ID: -	GESEC/PRO/AAQM/2022-23/02	ESEC/PRO/AAQM/2022-23/02/183		19.02.2023	
Name & Address of the Customer	M/s.Pad.Dr.D.Y.Patil Sahakari S Dnyanshanti Nagar, Vesaraf Pal Dist-Kolhapur, Maharashtra				
	Ambient Air S	ample Details			
Type	Sampling Location	on	Sampling done by		
Ambient Air	Upale Village		GESEC		
	Sampli	ng Time			
Start Time	Sto	p Time		Total Hrs.	
12.30 pm	12	.30 pm		24 Hrs.	
	Meteorological Data/En	vironmental Condit	ions		
Ambient Temperature °C	29	Wet Bulb Tem	Bulb Temperature °C		
Dry Bulb Temperature °C	29 Relative I		nidity % RH	48.4	
Date of Sampling	Sample Receipt Date	Analysis St	art Date	Analysis End Date	
08.02.2023 to 09.02.2023	10.02.2023	10.02.2	2023	18.02.2023	

TEST REPORT

Parameters Method		Unit	NAAQ Standards	Result
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	$\mu g/m^3$	≤ 80	18.64
Nitrogen Dioxide (NO ₂)	IS:5182 (PART 6):2018	μg/m³	≤ 80	21.04
Particulate Matter PM ₁₀	IS:5182 (PART 4):2019	μg/m³	≤ 100	50.79
Particulate Matter PM _{2.5}	IS:5182 (PART 24):2019	μg/m³	≤ 60	20.31
Ozone(O₃) For 1 Hrs.	Method 411, Air Sampling and Analysis 3 rd Edition ,2013	$\mu g/m^3$	≤ 180	9.56
Ammonia (NH ₃) For 24 Hrs.	Method 401, Air Sampling and Analysis 3 rd Edition ,2013	$\mu g/m^3$	≤400	3.89
Carbon Monoxide (CO)	MASA-822 3rd Edition	mg/m³	≤ 04	BDL
Benzene (C ₆ H ₆)	IS 5182 (Part 11) :2006 (RA 2017)	μg/m³	≤ 05	BDL
Benzo(a)Pyrene (BaP)	CPCB Manual Vol 1 2011	ng/m³	≤ 01	BDL
Arsenic (As)	MASA-822 3rd Edition	ng/m³	≤ 06	BDL
Nickel (Ni)	MASA-822 3rd Edition	ng/m³	≤ 20	BDL
Lead (Pb)	MASA-822 3rd Edition	μg/m³	≤1.0	BDL

Remark-

A All above results are within National Ambient Air Quality standards.

Ambient Fine Dust Sampler

TECH/CAL/2022/03.B/19

BDL-Below Detectable Limit.

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15/03/2022

14/03/2023

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Name of Instrument

Calibration Certificate No.

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	TEST REPORT				
Test Report No: -	GESEC/PRO/ANLM/2022-23/	02/184	D	40.00.0000	
Sample ID: -	GESEC/PRO/ANLM/2022-23/	02/184	Report Date	19.02.2023	
Name & Address of the Customer	M/s.Pad.Dr.D.Y.Patil Sahaka Dnyanshanti Nagar, Vesaraf Dist-Kolhapur, Maharashtra	Palsambe, Ta			
	Ambient Noise Samp	le Details			
Type	Ambient Noise				
Sampling done by	GESEC				
Standard method	As Per IS: 9989:2020				
Date of Sampling	Sample Receipt Date	Analysi	s Start Date	Analysis End Date	
08.02.2023	-			-	
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	
	No.		vel Readings	CPCB Standards	
Test Location	Unit		Day	dB(A)	
Palsambe Village	dB (A)		54.1		
Asalaj Village	dB (A)		53.6		
Saitawade Village	dB (A)		53.9	During Day time =	
Jpale Village	dB (A)		54.1	EE AR (A)	
sangshi Village	dB (A)		52.9	55 dB (A)	

Remark-

- All above Noise level results are within Central Pollution Control Board Standards limit.
- Day/ -55 dB.(A)

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 - The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

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	TEST REPORT				
Test Report No: -	GESEC/PRO/ANLM/2022-23/	02/185	Donnel Date	10.02.2022	
Sample ID: -	GESEC/PRO/ANLM/2022-23/	02/185	Report Date	19.02.2023	
Name & Address of the Customer	M/s.Pad.Dr.D.Y.Patil Sahaka Dnyanshanti Nagar, Vesaraf Dist-Kolhapur, Maharashtra	Palsambe, Ta	The state of the s		
	Ambient Noise Samp	le Details			
Туре	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		
08.02.2023	-		-	-	
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	
Took Location	Umia	Noise Level F		CPCB Standards	
Test Location	Unit		Night	dB(A)	
Palsambe Village	dB (A)		42.1		
Asalaj Village	dB (A) 43.6		43.6		
Saitawade Village	dB (A)		40.8	During Night time =	
Jpale Village	dB (A)		42.9	45 dB (A)	
sangshi Village	dB (A)		43.6	45 db (A)	

Remark-

All above Noise level results are within Central Pollution Control Board Standards limit.

Night -45 dB. (A)

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		TEST REPORT		
Test Report No - GESEC/PRO/W	/2022-23/02/186	Report Date		19.02.2023
Sample ID - GESEC/PRO/W/202		Sample Details		Vesaraf Village
Name & Address of the Custom		Type of Sample		Water
M/s.Pad.Dr.D.Y.Patil Sahakari S	Sakhar Karkhana Ltd,	Volume Of Sam		2 Lit plastics Can
Dnyanshanti Nagar, Vesaraf Pa	Sample Status	•	Sealed	
Gaganbawada,	Sample Collecte	ed By	GESEC	
Dist-Kolhapur, Maharashtra	Date of Sample	Collection	08.02.2023	
		Date of Sample	received in la	ab 10.02.2023
		Analysis start D	ate	10.02.2023
		Analysis End Da	ate	18.02.2023
	WAT	ER ANALYSIS REP	ORT	
Parameter	Result	Limits as per IS 10500:2012	Unit(s)	Standard Method
	P	hysical Paramete	r	
Turbidity	<0.1	Max 1	NTU	IS:3025 part-10:2019
TDS	278.01	Max 500	mg/l	IS :3025 part-16 :2017
Color	<5	Max 5	Hazen	IS:3025 part-4 :2021
	С	hemical Paramete	er	
рН	7.17	6.5 to 8.5		APHA 4500, 23 rd Edition:2017
Total Hardness	74.25	Max 200	mg/l	IS:3025 Part-21:2019
Total Alkalinity	68	Max 200	mg/l	IS:3025 Part-23:2019
Sulphate	10.77	Max 200	mg/l	IS:3025 Part-24:2019
Residual Chlorine	0.26	Min 0.2	mg/l	IS:3025 Part 26:2019
Chloride	20.74	Max 250	mg/l	IS:3025 Part-32:2019
Calcium (as Ca)	24.04	Max 75	mg/l	IS:3025 Part-40:2019
Magnesium (as Mg)	13.43	Max 30	mg/l	APHA 3500- Mg, B, 23 rd Edition:201

Remark(s):

E.coli.

Total Coliform

Iron as Fe

The above water sample is Comply with required limit as per IS 10500:2012.

0.018

Absent

Absent

For Total Coliform & E.coli. Absent can be consider as Zero [Refer IS:1622 (R.A.1996), Table No.-4]

Elemental Analysis

Max 0.3

Microbiological Parameter

Absent

Absent

mg/l

MPN/100ml

per/100ml

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IS:3025 Part-2:2019

IS 1622:1981

IS 1622:1981

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	TEST REPORT	
Test Report No - GESEC/PRO/W/2022-23/02/187	Report Date	19.02.2023
Sample ID - GESEC/PRO/W/2022-23/02/187	Sample Details	Ainari Village
Name & Address of the Customer -	Type of Sample	Water
M/s.Pad.Dr.D.Y.Patil Sahakari Sakhar Karkhana Ltd,	Volume Of Sample	2 Lit plastics Can
Dnyanshanti Nagar, Vesaraf Palsambe, Tal-	Sample Status	Sealed
Gaganbawada,	Sample Collected By	GESEC
Dist-Kolhapur, Maharashtra	Date of Sample Collection	08.02.2023
	Date of Sample received in lab	10.02.2023
	Analysis start Date	10.02.2023
	Analysis End Date	18.02.2023

	WA	ATER ANALYSIS RE	PORT	
Parameter	Result	Limits as per IS 10500:2012	Unit(s)	Standard Method
		Physical Paramet	er	
Turbidity	<0.1	Max 1	NTU	IS:3025 part-10:2019
TDS	267.12	Max 500	mg/l	IS :3025 part-16 :2017
Color	<5	Max 5	Hazen	IS:3025 part-4 :2021
		Chemical Parame	ter	A.F. I.I.
pH	7.11	6.5 to 8.5		APHA 4500, 23 rd Edition:2017
Total Hardness	69.87	Max 200	mg/l	IS:3025 Part-21:2019
Total Alkalinity	61.0	Max 200	mg/l	IS:3025 Part-23:2019
Sulphate	11.32	Max 200	mg/l	IS:3025 Part-24:2019
Residual Chlorine	0.26	Min 0.2	mg/l	IS:3025 Part 26:2019
Chloride	19.78	Max 250	mg/l	IS:3025 Part-32:2019
Calcium (as Ca)	22.66	Max 75	mg/l	IS:3025 Part-40:2019
Magnesium (as Mg)	10.14	Max 30	mg/l	APHA 3500- Mg, B, 23 rd Edition:2017
	-	Elemental Analys	sis	
Iron as Fe	0.020	Max 0.3	mg/l	IS:3025 Part-2:2019
	Mi	crobiological Para	meter	
Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
E.coli.	Absent	Absent	per/100ml	IS 1622:1981

Remark(s):

- The above water sample is Comply with required limit as per IS 10500:2012.
- For Total Coliform & E.coli. Absent can be consider as Zero [Refer IS:1622 (R.A.1996), Table No.-4].

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*** END OF REPORT*** & Consult

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		TEST REPORT		
Test Report No - GESEC/PRO/W	/2022-23/02/188	Report Date	N. Company	19.02.2023
Sample ID - GESEC/PRO/W/2022	2-23/02/188	Sample Details		Saitawade Village
Name & Address of the Custom	er -	Type of Sample		Water
M/s.Pad.Dr.D.Y.Patil Sahakari S	Sakhar Karkhana Ltd,	Volume Of Sar	nple	2 Lit plastics Can
Dnyanshanti Nagar, Vesaraf Pal	Sample Status		Sealed	
Gaganbawada,	Sample Collect	ted By	GESEC	
Dist-Kolhapur, Maharashtra		Date of Sampl	e Collection	08.02.2023
		Date of Sampl	e received in lab	10.02.2023
K.		Analysis start	Date	10.02.2023
		Analysis End D	ate	18.02.2023
	WAT	ER ANALYSIS RE	PORT	
Parameter	Result	Limits as per IS 10500:2012	Unit(s)	Standard Method
	P	hysical Paramet	er	
Turbidity	<0.1	Max 1	NTU	IS:3025 part-10:2019
TDS	245.56	Max 500	mg/l	IS :3025 part-16 :2017
Color	<5	Max 5	Hazen	IS:3025 part-4 :2021
	CI	nemical Parame	ter	
рН	7.63	6.5 to 8.5		APHA 4500, 23 rd Edition:2017
Total Hardness	72.98	Max 200	mg/l	IS:3025 Part-21:2019
Total Alkalinity	65	Max 200	mg/l	IS:3025 Part-23:2019
Sulphate	10.02	Max 200	mg/l	IS:3025 Part-24:2019
Residual Chlorine	0.26	Min 0.2	mg/l	IS:3025 Part 26:2019
Chloride	19.31	Max 250	mg/l	IS:3025 Part-32:2019
Calcium (as Ca)	21.49	Max 75	mg/l	IS:3025 Part-40:2019
Magnesium (as Mg)	8.02	Max 30	mg/l	APHA 3500- Mg, B, 23 rd Edition:2017
	E	lemental Analys	sis	
Iron as Fe	0.020	Max 0.3	mg/l	IS:3025 Part-2:2019
	Micr	obiological Para	meter	
Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
E.coli.	Absent	Absent	per/100ml	IS 1622:1981

Remark(s):

2.

- The above water sample is Comply with required limit as per IS 10500:2012.
- For Total Coliform & E.coli. Absent can be consider as Zero [Refer IS:1622 (R.A.1996), Table No.-4]

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		TEST REPORT		
Test Report No - GESEC/PRO/W	Report Date		19.02.2023	
Sample ID - GESEC/PRO/W/2022	Sample Details		Upale Village	
Name & Address of the Custom	Type of Sample		Water	
M/s.Pad.Dr.D.Y.Patil Sahakari S	Volume Of Sam	ple	2 Lit plastics Can	
Dnyanshanti Nagar, Vesaraf Pal	Sample Status		Sealed	
Gaganbawada,	Sample Collecte	ed By	GESEC	
Dist-Kolhapur, Maharashtra	Date of Sample	Collection	08.02.2023	
	Date of Sample	received in la	ab 10.02.2023	
	Analysis start D	ate	10.02.2023	
		Analysis End Da	ite	18.02.2023
	WAT	ER ANALYSIS REP	ORT	
Parameter	Result	Limits as per IS 10500:2012 Unit(s)		Standard Method
	P	hysical Paramete	r	
Turbidity	<0.1	Max 1	NTU	IS:3025 part-10:2019
TDS	242.22	Max 500	mg/l	IS :3025 part-16 :2017
Color	<5	Max 5	Hazen	IS:3025 part-4 :2021
	Cl	nemical Paramete	er	
рН	6.98	6.5 to 8.5		APHA 4500, 23 rd Edition:2017
Total Hardness	72.31	Max 200	mg/l	IS:3025 Part-21:2019
Total Alkalinity	60	Max 200	mg/l	IS:3025 Part-23:2019
Sulphate	12.97	Max 200	mg/l	IS:3025 Part-24:2019
Residual Chlorine	0.26	Min 0.2	mg/l	IS:3025 Part 26:2019
Chloride	23.48	Max 250	mg/l	IS:3025 Part-32:2019
Calcium (as Ca)	18.31	Max 75	mg/l	IS:3025 Part-40:2019
Magnesium (as Mg)	10.64	Max 30	mg/l	APHA 3500- Mg, B, 23 rd Edition:2017
	F	lemental Analysis	s	

Remark(s):

E.coli.

Total Coliform

Iron as Fe

The above water sample is Comply with required limit as per IS 10500:2012.

0.019

Absent

Absent

For Total Coliform & E.coli. Absent can be consider as Zero [Refer IS:1622 (R.A.1996), Table No.-4]

Max 0.3

Microbiological Parameter

Absent

Absent

mg/l

MPN/100ml

per/100ml

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IS:3025 Part-2:2019

IS 1622:1981

IS 1622:1981

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	TEST REPORT	
Test Report No: GESEC/PRO/SW/2022-23/02/190	Report Date	19.02.2023
Sample ID - GESEC/PRO/SW/2022-23/02/190	Sample Details	Sludge
Name & Address of the Customer - M/s.Pad.Dr.D.Y.Patil Sahakari Sakhar Karkhana Ltd, Dnyanshanti Nagar, Vesaraf Palsambe, Tal- Gaganbawada, Dist-Kolhapur, Maharashtra	Type of Sample	Solid
	Sample Collected By	GESEC
	Date of Sample Collection	08.02.2023
	Date of Sample received in lab	10.02.2023
	Analysis start Date	10.02.2023
	Analysis End Date	18.02.2023

	Analysis Rep	ort	
Parameter	Result	Unit	Standard Method
Н	7.92		IS :10158.2019
Phosphorus	174.31	Mg/kg	IS:10158.2019
Potassium	301.56	Mg/kg	IS:10158.2019
Total Nitrogen	698.3	Mg/kg	IS :10158.2019
Organic Carbon	24.78	%	IS 2720-P22
Organic Matter	39.16	%	IS:2720 part 22:2022
Water Soluble Chloride (CI)	1105.45	Mg/kg	IS:2720
Water Soluble Sulphate (SO4)	745.36	Mg/kg	IS:2720

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Report No: GESEC/PRO/SO/2022-23/02/191			Date of Report	19.02.2023	
Sample ID: GESEC/PRO/SO/2022-23/02/191			Date of Sampling	09.02.2023	
Name & Address of the Customer - M/s.Pad.Dr.D.Y.Patil Sahakari Sakhar Karkhana Ltd,			Start Date of Analysis	10.02.2023	
			End Date of Analysis 18.02.20		
Dnyanshanti Nagar, Vesaraf P Gaganbawada, Dist-Kolhapur, Maharashtra	alsambe, Tal-		Sample Details	Bhuibawda Village soil	
Dist-Romapur, Ivianarasntra			Nature of sample	solid	
Sample Collected By			GESEC		
Parameter	Result	Unit	Sta	ndard Method	
Colour	Brown	***	APHA: 22 nd edition-(2540-E)	
Iron as Fe	0.17	mg/Kg	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India, 17B Pag No.107:2011)		
Available Potassium as K	192.3	mg/Kg	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India, Page No.149:2019)		
Available Phosphorous as PO4	71.24	Kg/ha	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India, Page No.95:2011)		
Magnesium as Mg	18.8	mg/Kg	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India, Page No.104:2011)		
Water Holding Capacity	42.36	%	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India, Page No.149:2019)		
Bulk Density	2.01	g/cm3	IS:2720(Part 14)2020		
Texture	Clay		APHA: 22 nd edition-(2540-E)		
Cation Exchangeable Capacity	41.32	meq/100gm	IS:2720		
Sodium Absorption Ratio	0.074	-	IS:2720		
Organic Carbon	0.39	%	IS 2720 (Part 22) 2020		
Organic Matter	0.64	%	IS 2720 (Part 22) 2020		
Water Soluble Chloride	231.21	mg/Kg	Soil testing in India		
Water Soluble Sulphate	134.5	mg/Kg	IS 2720 (Part 27)		
Boron	33.98	mg/Kg	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India, Page 17 B No.115:2011)		
Zinc	22.17	mg/Kg	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India		

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Report No: GESEC/PRO/SO/20	022-23/02/102		T REPORT Date of Report	19.02.2023	
Sample ID: GESEC/PRO/SO/20			Date of Sampling	09.02.2023	
Name & Address of the Custo			Start Date of Analysis	10.02.2023	
M/s.Pad.Dr.D.Y.Patil Sahakar			End Date of Analysis 18.02.202		
Dnyanshanti Nagar, Vesaraf I Gaganbawada,	Palsambe, Tal-		Sample Details	Palasambe Village soil	
Dist-Kolhapur, Maharashtra			Nature of sample	solid	
Sample Collected By			GES	SEC	
Parameter	Result	Unit	Standard Method		
Colour	Brown		APHA: 22 nd edition-(2540-E)		
Iron as Fe	0.10	mg/Kg	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India, 17B Pag No.107:2011)		
Available Potassium as K	198.65	mg/Kg	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India, Page No.149:2019)		
Available Phosphorous as PO4	92.85	Kg/ha	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India, Page No.95:2011)		
Magnesium as Mg	20.36	mg/Kg	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India, Page No.104:2011)		
Water Holding Capacity	51.24	%	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India, Page No.149:2019)		
Bulk Density	1.26	g/cm3	IS:2720(Part 14)2020		
Texture	Clay		APHA: 22 nd edition-(2540-E)		
Cation Exchangeable Capacity	49.65	meq/100gm	IS:2720		
Sodium Absorption Ratio	0.073	-	IS:2720		
Organic Carbon	0.63	%	IS 2720 (Part 22) 2020		
Organic Matter	0.97	%	IS 2720 (Part 22) 2020		
Water Soluble Chloride	214.63	mg/Kg	Soil testing in India		
Water Soluble Sulphate	138.02	mg/Kg	IS 2720 (Part 27)		
Boron	37.06	mg/Kg	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India, Page 17 B No.115:2011)		
Zinc	42.30	mg/Kg	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India		
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			T REPORT		
Report No: GESEC/PRO/SO/2022-23/02/193			Date of Report	19.02.2023	
Sample ID: GESEC/PRO/SO/2022-23/02/193			Date of Sampling	09.02.2023	
Name & Address of the Customer - M/s.Pad.Dr.D.Y.Patil Sahakari Sakhar Karkhana Ltd, Dnyanshanti Nagar, Vesaraf Palsambe, Tal- Gaganbawada, Dist-Kolhapur, Maharashtra Sample Collected By			Start Date of Analysis	10.02.2023	
			End Date of Analysis	18.02.2023	
			Sample Details Sanchi Village soil		
			Nature of sample	solid	
			G	SESEC	
Parameter	Result	Unit	Standa	rd Method	
Colour	Brown		APHA: 22 nd edition-(2540-E)		
		mg/Kg	Method manual, Soil testing in	India (Department of agriculture	
Iron as Fe	0.11		and cooperation, Ministry of agri. Government of India, 17B Pag No.107:2011)		
Available Potassium as K	76.5	mg/Kg	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India, Page No.149:2019)		
Available Phosphorous as PO4	71.81	Kg/ha	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India, Page No.95:2011)		
Magnesium as Mg	22.8	mg/Kg	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India, Page No.104:2011)		
Water Holding Capacity	50.2	%	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India, Page No.149:2019)		
Bulk Density	1.46	g/cm3	IS:2720(Part 14)2020		
Texture	Clay		APHA: 22 nd edition-(2540-E)		
Cation Exchangeable Capacity	53.65	meq/100gm	IS:2720		
Sodium Absorption Ratio	0.060	_	IS:2720		
Organic Carbon	0.42	%	IS 2720 (Part 22) 2020		
Organic Matter	0.73	%	IS 2720 (Part 22) 2020		
Water Soluble Chloride	257.61	mg/Kg	Soil testing in India		
Water Soluble Sulphate	164.27	mg/Kg	IS 2720 (Part 27)		
Boron	41.21	mg/Kg	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India, Page 17 B No.115:2011)		
Zinc	37.65	mg/Kg	Method manual, Soil testing in India (Department of agriculture and cooperation, Ministry of agri. Government of India		
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	TEST REPORT		
Test Report No: GESEC/PRO/SW/2021-22/02/536	Report Date		21.02.2022
Sample ID - GESEC/PRO/SW/2021-22/02/536	Sample Details		Sludge
Name & Address of the Customer -	Type of Sample	1	Solid
M/s.Pad.Dr.D.Y.Patil Sahakari Sakhar Karkhana Ltd, Dnyanshanti Nagar, Vesaraf Palsambe, Tal- Gaganbawada, Dist-Kolhapur, Maharashtra	Sample Collected By		GESEC
	Date of Sample Collecti	on	14.02.2022
	Date of Sample received	d in lab	15.02.2022
	Analysis start Date		15.02.2022
	Analysis End Date		21.02.2022

Analysis Report					
Parameter	Result	Unit	Standard Method		
рН	7.04		IS :10158.2019		
Phosphorus	156.12	Mg/kg	IS :10158.2019		
Potassium	332.96	Mg/kg	IS:10158.2019		
Total Nitrogen	632.47	Mg/kg	IS:10158.2019		
Organic Carbon	20.10	%	IS 2720-P22		
Organic Matter	31.16	%	IS:2720 part 22:2022		
Water Soluble Chloride (CI)	1098.52	Mg/kg	IS:2720		
Water Soluble Sulphate (SO4)	796.32	Mg/kg	IS:2720		

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