MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986 and Accredited by NABL (Cert. No. T7207)
(Certified by ISO 14001-2015, OHSAS18001-2007, ISO 9001-2015)
C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1st & 2nd Floor)
Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 08392-255169,
E-mail : msv.lab01@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No:MSVAL/2021/6074 **Issued Date: 28.08.2021**

1.	Name of the Project	:	**M/s. Athani Sugars Limited Vishnuannanagar, Post: Navalihal, Tq: Athani, Dist: Belgaum - 591234**
2.	Name of the location	:	Near Main Gate
3.	Sample Collected By	:	MSV Analytical Laboratories
4.	Particulars of the sample collected	:	Sample collected with RDS 460BL/Fine Particulate Sampler/CO Analyzer & Benzene sampler
5.	Date of Sample Receipt	:	24.08.2021
6.	Analysis Starting Date	:	25.08.2021
7.	Analysis Completion Date	:	28.08.2021
8.	Sample Tested as Received		

RESULTS

S.NO	PARAMETERS	PROTOCOLS	UNITS	DURATION OF MONITORING	RESULTS	NAAQ STANDARDS
1	Particulate Matter PM_{10}	IS-5182(Part-23) – 2006	$\mu g/m^3$	8 hrs	67.48	100
2	Particulate Matter or $PM_{2.5}$	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	$\mu g/m^3$	8 hrs	23.62	60
3	Sulphur Dioxide as SO_x	IS-5182(Part-2) – 2001	$\mu g/m^3$	8 hrs	7.75	80
4	Oxides of Nitrogen as NO_x	IS-5182(Part-6) - 2006	$\mu g/m^3$	8 hrs	15.89	80
5	Ozone as O_3	IS 5182(part-9)1974	$\mu g/m^3$	1 hrs	BDL	180
6	Lead	IS-5182(Part22) - 2004	$\mu g/m^3$	8 hrs	BDL	1
7	Carbon Monoxide as CO	LAB SOP: MSVAL/SOP/A/07, Dt: 2.7.2012	mg/m^3	-	2.56	4
8	Ammonia as NH_3	LAB SOP: MSVAL/SOP/A/06, Dt: 2.7.2012	$\mu g/m^3$	1 hrs	7.69	400
9	Benzene as C_6H_6*	IS:5182(part 11) – 2006	$\mu g/m^3$	8 hrs	BDL	5
10	Benzo (α) Pyrene (BaP)*	CPCB Procedure	ng/m^3	8 hrs	BDL	1
11	Arsenic as As*	CPCB Procedure	ng/m^3	8 hrs	BDL	6
12	Nickel as Ni	LAB SOP: MSVAL/SOP/A/08, Dt: 2.7.2012	ng/m^3	8 hrs	BDL	20

BDL-Below Detectable Limit, BDL(Ozone-5 $\mu g/m^3$, Lead-0.04 $\mu g/m^3$, Benzene-3.6 $\mu g/m^3$, Benzo (α) Pyrene (BaP)-0.1 ng/m^3, Arsenic-3.5 ng/m^3, Nickel-10 ng/m^3)

INFERENCE	**As per NAAQ Standards** **Report Status :- The analyzed value for above measured parameter is within the limits**

Verified by

Authorized Signature

MSV ANALYTICAL LABORATORIES BELLARY END OF REPORT

Note : 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2021/6075 **Issued Date: 28.08.2021**

1.	Name of the Project	:	**M/s. Athani Sugars Limited Vishnuannanagar, Post: Navalihal, Tq: Athani, Dist: Belgaum - 591234**
2.	Name of the location	:	Compost Yard
3.	Sample Collected By	:	MSV Analytical Laboratories
4.	Particulars of the sample collected	:	Sample collected with RDS 460BL/Fine Particulate Sampler/CO Analyzer & Benzene sampler
5.	Date of Sample Receipt	:	24.08.2021
6.	Analysis Starting Date	:	25.08.2021
7.	Analysis Completion Date	:	28.08.2021
8.	Sample Tested as Received		

RESULTS

S.NO	PARAMETERS	PROTOCOLS	UNITS	DURATION OF MONITORING	RESULTS	NAAQ STANDARDS
1	Particulate Matter PM_{10}	IS-5182(Part-23) – 2006	$\mu g/m^3$	8 hrs	71.52	100
2	Particulate Matter or $PM_{2.5}$	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	$\mu g/m^3$	8 hrs	21.73	60
3	Sulphur Dioxide as SO_x	IS-5182(Part-2) – 2001	$\mu g/m^3$	8 hrs	6.83	80
4	Oxides of Nitrogen as NO_x	IS-5182(Part-6) - 2006	$\mu g/m^3$	8 hrs	15.98	80
5	Ozone as O_3	IS 5182(part-9)1974	$\mu g/m^3$	1 hrs	BDL	180
6	Lead	IS-5182(Part22) - 2004	$\mu g/m^3$	8 hrs	BDL	1
7	Carbon Monoxide as CO	LAB SOP: MSVAL/SOP/A/07, Dt: 2.7.2012	mg/m^3	-	1.72	4
8	Ammonia as NH_3	LAB SOP: MSVAL/SOP/A/06, Dt: 2.7.2012	$\mu g/m^3$	1 hrs	6.84	400
9	Benzene as C_6H_6*	IS:5182(part 11) – 2006	$\mu g/m^3$	8 hrs	BDL	5
10	Benzo (α) Pyrene (BaP)*	CPCB Procedure	ng/m^3	8 hrs	BDL	1
11	Arsenic as As*	CPCB Procedure	ng/m^3	8 hrs	BDL	6
12	Nickel as Ni	LAB SOP: MSVAL/SOP/A/08, Dt: 2.7.2012	ng/m^3	8 hrs	BDL	20

BDL-Below Detectable Limit, BDL(Ozone-5 $\mu g/m^3$, Lead-0.04 $\mu g/m^3$, Benzene-3.6 $\mu g/m^3$, Benzo (α) Pyrene (BaP)-0.1 ng/m^3, Arsenic-3.5 ng/m^3, Nickel-10 ng/m^3, Carbon Monoxide-1.5mg/m^3)

INFERENCE	**As per NAAQ Standards** **Report Status :- The analyzed value for above measured parameter is within the limits**

Verified by

Authorized Signature

MSV ANALYTICAL LABORATORIES BALLARI

-- END OF REPORT:-

Note : 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
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TC-7207

MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720721000011256F **Issued Date: 28.08.2021**

1. Name of the Project : **M/s. Athani Sugars Limited Vishnuannanagar, Post: Navalihal, Tq: Athani, Dist: Belgaum - 591234**
2. Name of the location : 18 TPH Boiler
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sample collected : Stack Sampler
5. Date of Sample Receipt : 24.08.2021
6. Analysis Starting Date : 25.08.2021
7. Analysis Completion Date : 28.08.2021
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	24.08.2021
Fuel Used	Coal
Stack Temperature (^{0}C)	129
Velocity (m/s)	7.91
Height (m)	42
Diameter (m)	1.5

RESULTS

PARAMETERS	PROTOCOL	UNIT	RESULT	KSPCB STANDARDS
Particulate Matter	IS-11255(Part 1) - 1985	mg/Nm^3	118.6	150
Sulphur dioxide	IS-11255(Part 2) - 1985	mg/Nm^3	13.29	-
Nitrogen dioxide	IS-11255(Part 7) - 2005	mg/Nm^3	28.51	-

INFERENCE	**As per KSPCB Standards** **Report Status :- The analyzed value for above measured parameter is within the limits**

Verified by **Authorized Signature**

MSV ANALYTICAL LABORATORIES BALLARI

-End of Report-

Note : 1. The results listed only to the tested samples & applicable parameters,
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TC-7207

MSVAL/A/F/17/04

NOISE LEVEL MONITORING REPORT

Test Report No: TC720721000011257F **Issued Date: 28.08.2021**

1. Name of the Project : **M/s. Athani Sugars Limited Vishnuannanagar, Post: Navalihal, Tq: Athani, Dist: Belgaum - 591234**
2. Sample Collected By : MSV Analytical Laboratories
3. Particulars of the sample collected : Noise meter
4. Date of Monitoring : 24.08.2021
5. Report Date : 28.08.2021
6. Method Adopted : Instrument Manual Method

S.No	Sample Location	Time Frequency	RESULTS			KSPCB limits in dB(A) Leq
			Min in dB(A) Leq	Max in dB(A) Leq	Avg. in dB(A) Leq	
Day Time						
1	Near Main Gate	10.10am to 10.25am	59.2	60.1	59.7	75 (6.00am to 10.00pm)
2	Near Guest House	10.30am to 10.45am	57.4	58.3	57.9	
3	Near Compost Yard	10.50am to 11.05am	61.0	62.3	61.7	
4	Near Cane Carrier	11.10am to 11.25am	65.0	66.8	65.9	

INFERENCE	As per KSPCB Standards, Report Status :- In the all locations Noise level is within the limits

Verified by

Authorized Signature

MSV ANALYTICAL LABORATORIES BALLARI

: END OF REPORT :

Note : 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
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TC-7207

MSVAL/A/F/17/04

NOISE LEVEL MONITORING REPORT

Test Report No: TC720721000011258F **Issued Date: 28.08.2021**

1. Name of the Project : **M/s. Athani Sugars Limited Vishnuannanagar, Post: Navalihal, Tq: Athani, Dist: Belgaum - 591234**
2. Sample Collected By : MSV Analytical Laboratories
3. Particulars of the sample collected : Noise meter
4. Date of Monitoring : 24.08.2021
5. Report Date : 28.08.2021
6. Method Adopted : Instrument Manual Method

S.No	Sample Location	Time Frequency	RESULTS			KSPCB limits in dB(A) Leq
			Min in dB(A) Leq	Max in dB(A) Leq	Avg. in dB(A) Leq	
Night Time						
1	Near Main Gate	10.15pm to 10.30pm	54.2	56.3	55.3	70 (10.00pm to 6.00am)
2	Near Guest House	10.35pm to 10.50pm	54.1	56.0	55.1	
3	Near Compost Yard	11.00pm to 11.15pm	59.6	60.1	59.9	
4	Near Cane Carrier	11.25pm to 11.40pm	62.8	64.7	63.8	

INFERENCE	**As per KSPCB Standards,** **Report Status :- In the all locations Noise level is within the limits**

Verified by

Authorized Signature

MSV ANALYTICAL LABORATORIES BALLARI

: END OF REPORT :

Note : 1. The results listed only to the tested samples & applicable parameters,
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MSVAL/A/F/18/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2021/6076 **Issued Date: 28.08.2021**

1. Name of the Project : **M/s. Athani Sugars Limited Vishnuannanagar, Post: Navalihal, Tq: Athani, Dist: Belgaum - 591234**
2. Sample Type : Borewell Water (Industry Premises)
3. Sample Collected By : Customer
4. Particulars of Sample : -
5. Sample description/condition : Good/Satisfactory
6. Date of sample Receipt : 24.08.2021
7. Analysis Starting date : 25.08.2021
8. Analysis Completion Date : 28.08.2021
9. Sample Tested as Received

RESULTS

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable Limit	Permissible limit
Physical Parameters					**REQUIREMENTS**	
1	Colour, Max	IS: 3025 (Part 4) – 1983 (RA:2017)	Hazen Units	<1	5	15
2	Odor	IS : 3025(part-5)	-	Agreeable	Agreeable	Agreeable
3	Total dissolved solids, Max	APHA 23rd Edition-2017,2540 C	mg/L	304.0	500	2000
4	pH @ 25° C	APHA 23rd Edition-2017,4500 H+	-	7.95	6.5 – 8.5	6.5 – 8.5
5	Turbidity, Max	APHA 23rd EDITION-2017, 2530 B	NTU	0.42	1	5
Chemical Parameters					**REQUIREMENTS**	
6	Total Alkalinity as $CaCO_3$, Max	APHA 23rd EDITION-2017, 2320 B	mg/L	170.0	200	600
7	Total Hardness as $CaCO_3$, Max	APHA 23rd EDITION-2017, 2340 C	mg/L	210.0	200	600
8	Nitrate Nitrogen (as NO_3N), Max	APHA 23rd EDITION-2017, 4500 NO_3	mg/L	13.65	45	No relaxation
9	Chloride (as Cl), Max	APHA 23rd EDITION-2017, 4500-Cl^-,B	mg/L	19.77	250	1000
10	Sulphate (as SO_4), Max	APHA 23rd EDITION-2017, 4500 So_4	mg/L	18.25	200	400
11	Calcium (as Ca), Max	APHA 23rd EDITION-2017, 3500 Ca ,B	mg/L	44.92	75	200
12	Magnesium (as Mg), Max	APHA 23rd EDITION-2017, 3500-Mg, B	mg/L	23.79	30	100
13	Fluoride (as F), Max	APHA 23rd EDITION-2017, 4500-F,'D	mg/L	0.72	1.0	1.5
14	Iron (as Fe), Max	APHA 23rd EDITION-2017, 3500-Fe ,B	mg/L	BDL	1.0	No relaxation
Bacteriological Parameters					**REQUIREMENTS**	
15	Total coliforms	IS : 1622-1981 (Reaffirmed 2014)	MPN/100ml	ND	ND	
16	E-Coli	IS : 1622-1981 (Reaffirmed 2014)	MPN/100ml	ND	ND	

BDL – Below Detectable Limit, (Colour- <1 Hazen Units, Iron-0.05mg/L), ND – Not Detected in 100ml sample

INFERENCE	**As per IS 10500:2012 Standards,** **Report Status: - The analyzed values for above measured parameters are within the limits.**

Verified by

Authorized Signature

-END OF REPORT-

Note : 1. The results listed only to the tested samples & applicable parameters,
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MSVAL/A/F/18/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2021/6077 **Issued Date: 28.08.2021**

1. Name of the Project : **M/s. Athani Sugars Limited Vishnuannanagar, Post: Navalihal, Tq: Athani, Dist: Belgaum - 591234**
2. Sample Type : Borewell Water (Guest House)
3. Sample Collected By : Customer
4. Particulars of Sample : -
5. Sample description/condition : Good/Satisfactory
6. Date of sample Receipt : 24.08.2021
7. Analysis Starting date : 25.08.2021
8. Analysis Completion Date : 28.08.2021
9. Sample Tested as Received

RESULTS

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable Limit	Permissible limit
Physical Parameters					**REQUIREMENTS**	
1	Colour, Max	IS: 3025 (Part 4) – 1983 (RA:2017)	Hazen Units	<1	5	15
2	Odor	IS : 3025(part-5)	-	Agreeable	Agreeable	Agreeable
3	Total dissolved solids, Max	APHA 23rd Edition-2017,2540 C	mg/L	510.0	500	2000
4	pH @ 25^0 C	APHA 23rd Edition-2017,4500 H+	-	7.81	6.5 – 8.5	6.5 – 8.5
5	Turbidity, Max	APHA 23rd EDITION-2017, 2530 B	NTU	0.77	1	5
Chemical Parameters					**REQUIREMENTS**	
6	Total Alkalinity as $CaCO_3$, Max	APHA 23rd EDITION-2017, 2320 B	mg/L	184.0	200	600
7	Total Hardness as $CaCO_3$, Max	APHA 23rd EDITION-2017, 2340 C	mg/L	189.7	200	600
8	Nitrate Nitrogen (as NO_3N), Max	APHA 23rd EDITION-2017, 4500 NO_3	mg/L	12.35	45	No relaxation
9	Chloride (as Cl), Max	APHA 23rd EDITION-2017, 4500-Cl ,B	mg/L	16.87	250	1000
10	Sulphate (as SO_4), Max	APHA 23rd EDITION-2017, 4500 So_4	mg/L	18.78	200	400
11	Calcium (as Ca), Max	APHA 23rd EDITION-2017, 3500 Ca ,B	mg/L	44.11	75	200
12	Magnesium (as Mg), Max	APHA 23rd EDITION-2017, 3500-Mg, B	mg/L	19.33	30	100
13	Fluoride (as F), Max	APHA 23rd EDITION-2017, 4500-F,'D	mg/L	0.78	1.0	1.5
14	Iron (as Fe), Max	APHA 23rd EDITION-2017, 3500-Fe ,B	mg/L	BDL	1.0	No relaxation
Bacteriological Parameters					**REQUIREMENT**	
15	Total coliforms	IS : 1622-1981 (Reaffirmed 2014)	MPN/100ml	ND	ND	
16	E-Coli	IS : 1622-1981 (Reaffirmed 2014)	MPN/100ml	ND	ND	

BDL – Below Detectable Limit, (Colour- <1 Hazen Units, Iron-0.05mg/L), ND – Not Detected in 100ml sample

INFERENCE	**As per IS 10500:2012 Standards,** **Report Status: - The analyzed values for above measured parameters are within the limits.**

Verified by

Authorized Signature

: END OF REPORT :

Note : 1. The results listed only to the tested samples & applicable parameters,
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MSVAL/A/F/18/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2021/6078 **Issued Date: 28.08.2021**

1. Name of the Project : **M/s. Athani Sugars Limited Vishnuannanagar, Post: Navalihal, Tq: Athani, Dist: Belgaum - 591234**
2. Sample Type : Openwell Water (Kareppa Masudage)
3. Sample Collected By : Customer
4. Particulars of Sample : -
5. Sample description/condition : Good/Satisfactory
6. Date of sample Receipt : 24.08.2021
7. Analysis Starting date : 25.08.2021
8. Analysis Completion Date : 28.08.2021
9. Sample Tested as Received

RESULTS

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable Limit	Permissible limit
Physical Parameters					**REQUIREMENTS**	
1	Colour, Max	IS: 3025 (Part 4) – 1983 (RA:2017)	Hazen Units	<5	5	15
2	Odor	IS : 3025(part-5)	-	Agreeable	Agreeable	Agreeable
3	Total dissolved solids, Max	APHA 23rd Edition-2017,2540 C	mg/L	1460.0	500	2000
4	pH @ 25° C	APHA 23rd Edition-2017,4500 H+	-	7.50	6.5 – 8.5	6.5 – 8.5
5	Turbidity, Max	APHA 23rd EDITION-2017, 2530 B	NTU	0.84	1	5
Chemical Parameters					**REQUIREMENTS**	
6	Total Alkalinity as $CaCO_3$, Max	APHA 23rd EDITION-2017, 2320 B	mg/L	360.0	200	600
7	Total Hardness as $CaCO_3$, Max	APHA 23rd EDITION-2017, 2340 C	mg/L	420.0	200	600
8	Nitrate Nitrogen (as NO_3N), Max	APHA 23rd EDITION-2017, 4500 NO_3	mg/L	3.59	45	No relaxation
9	Chloride (as Cl), Max	APHA 23rd EDITION-2017, 4500-Cl^-,B	mg/L	281.30	250	1000
10	Sulphate (as SO_4), Max	APHA 23rd EDITION-2017, 4500 So_4	mg/L	6.09	200	400
11	Calcium (as Ca), Max	APHA 23rd EDITION-2017, 3500 Ca ,B	mg/L	112.11	75	200
12	Magnesium (as Mg), Max	APHA 23rd EDITION-2017, 3500-Mg, B	mg/L	34.02	30	100
13	Fluoride (as F), Max	APHA 23rd EDITION-2017, 4500-F,'D	mg/L	0.39	1.0	1.5
14	Iron (as Fe), Max	APHA 23rd EDITION-2017, 3500-Fe ,B	mg/L	BDL	1.0	No relaxation
Bacteriological Parameters					**REQUIREMENT**	
15	Total coliforms	IS : 1622-1981 (Reaffirmed 2014)	MPN/100ml	ND	ND	
16	Fecal Coliforms	IS : 1622-1981 (Reaffirmed 2014)	MPN/100ml	ND	ND	

BDL – Below Detectable Limit, (Colour- <1 Hazen Units, Iron-0.05mg/L), ND – Not Detected in 100ml sample

INFERENCE	**As per IS 10500:2012 Standards,** **Report Status: - The analyzed values for above measured parameters are within the limits.**

Verified by

Authorized Signature

: END OF REPORT :

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E-mail : msv.lab01@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com

MSVAL/A/F/18/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2021/6079 **Issued Date: 28.08.2021**

1.	Name of the Project	:	**M/s. Athani Sugars Limited Vishnuannanagar, Post: Navalihal, Tq: Athani, Dist: Belgaum - 591234**
2.	Sample Type	:	Openwell Water (Vitthal Shamadi)
3.	Sample Collected By	:	Customer
4.	Particulars of Sample	:	-
5.	Sample description/condition	:	Good/Satisfactory
6.	Date of sample Receipt	:	24.08.2021
7.	Analysis Starting date	:	25.08.2021
8.	Analysis Completion Date	:	28.08.2021
9.	Sample Tested as Received		

RESULTS

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable Limit	Permissible limit
Physical Parameters					**REQUIREMENTS**	
1	Colour, Max	IS: 3025 (Part 4) – 1983 (RA:2017)	Hazen Units	<5	5	15
2	Odor	IS : 3025(part-5)	-	Agreeable	Agreeable	Agreeable
3	Total dissolved solids, Max	APHA 23rd Edition-2017,2540 C	mg/L	1260.0	500	2000
4	pH @ 25^0 C	APHA 23rd Edition-2017,4500 H+	-	7.72	6.5 – 8.5	6.5 – 8.5
5	Turbidity, Max	APHA 23rd EDITION-2017, 2530 B	NTU	0.46	1	5
Chemical Parameters					**REQUIREMENTS**	
6	Total Alkalinity as $CaCO_3$, Max	APHA 23rd EDITION-2017, 2320 B	mg/L	360.0	200	600
7	Total Hardness as $CaCO_3$, Max	APHA 23rd EDITION-2017, 2340 C	mg/L	374.0	200	600
8	Nitrate Nitrogen (as NO_3N), Max	APHA 23rd EDITION-2017, 4500 NO_3	mg/L	7.25	45	No relaxation
9	Chloride (as Cl), Max	APHA 23rd EDITION-2017, 4500-Cl^-,B	mg/L	173.6	250	1000
10	Sulphate (as SO_4), Max	APHA 23rd EDITION-2017, 4500 So_4	mg/L	2.37	200	400
11	Calcium (as Ca), Max	APHA 23rd EDITION-2017, 3500 Ca ,B	mg/L	84.88	75	200
12	Magnesium (as Mg), Max	APHA 23rd EDITION-2017, 3500-Mg, B	mg/L	39.37	30	100
13	Fluoride (as F), Max	APHA 23rd EDITION-2017, 4500-F,'D	mg/L	0.26	1.0	1.5
14	Iron (as Fe), Max	APHA 23rd EDITION-2017, 3500-Fe ,B	mg/L	BDL	1.0	No relaxation
Bacteriological Parameters					**REQUIREMENT**	
15	Total coliforms	IS : 1622-1981 (Reaffirmed 2014)	MPN/100ml	ND	ND	
16	Fecal Coliforms	IS : 1622-1981 (Reaffirmed 2014)	MPN/100ml	ND	ND	

BDL – Below Detectable Limit, (Colour- <1 Hazen Units, Iron-0.05mg/L), ND – Not Detected in 100ml sample

INFERENCE	**As per IS 10500:2012 Standards,** **Report Status: - The analyzed values for above measured parameters are within the limits.**

Verified by

Authorized Signature

END OF REPORT

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E-mail : msv.lab01@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com

MSVAL/A/F/14/03

ANALYSIS REPORT OF WASTE WATER QUALITY

Test Report No:MSVAL/2021/6080 **Issue Date: 28.08.2021**

1. Name of the Project : **M/s. Athani Sugars Limited Vishnuannanagar, Post: Navalihal, Tq: Athani, Dist: Belgaum - 591234**
2. Sample Type : Raw Spent Wash
3. Sample Collected By : Customer
4. Particulars of Sample Collected : -
5. Sample description/condition : Good/Satisfactory
6. Date of sample Receipt : 24.08.2021
7. Analysis Starting date : 25.08.2021
8. Analysis Completion Date : 28.08.2021
9. Sample Tested as Received

RESULTS

S.NO	PARAMETERS	PROTOCOL	UNIT	RESULT
1	pH @ 25^0 C	APHA 23rd Edition-2017, 4500 H^+, B	-	4.22
2	Total Alkalinity as $CaCO_3$	APHA 23rd EDITION-2017, 2320 B	mg/L	2254.0
3	Oil & Grease	APHA 23rd Edition-2017, 5520 D	mg/L	20.0
4	Bio-chemical Oxygen Demand (3 days at 27^0C)	IS-3025:1993(part 44) (RA 2009)	mg/L	26520.0
5	Chemical Oxygen Demand	APHA 23rd Edition-2017, 5230 B	mg/L	62790.0
6	Chloride as Cl	APHA 23rd Edition-2017, 4500-Cl	mg/L	26350.0
7	Total Solids	APHA 23rd Edition-2017, 2540 B	mg/L	18930.0
8	Sulphate as SO_4	APHA 23rd Edition-2017, 4500-SO_4	mg/L	10980.0
9	Total Suspended solids	APHA 23rd Edition-2017, 2540 F	mg/L	512.0
10	Potassium	APHA 23rd Edition-2017, 3500 K	mg/L	928.0
11	Total Kjeldahl Nitrogen	APHA 23rd Edition-2017, 4500-N Org, B	mg/L	470.0

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--END OF REPORT--

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MSVAL/A/F/14/03

ANALYSIS REPORT OF WASTE WATER QUALITY

Test Report No:MSVAL/2021/6081 **Issue Date: 28.08.2021**

1.	Name of the Project	:	**M/s. Athani Sugars Limited Vishnuannanagar, Post: Navalihal, Tq: Athani, Dist: Belgaum - 591234**
2.	Sample Type	:	Bio-Methanated spent wash
3.	Sample Collected By	:	Customer
4.	Particulars of Sample Collected	:	-
5.	Sample description/condition	:	Good/Satisfactory
6.	Date of sample Receipt	:	24.08.2021
7.	Analysis Starting date	:	25.08.2021
8.	Analysis Completion Date	:	28.08.2021
9.	Sample Tested as Received		

RESULTS

S.NO	PARAMETERS	PROTOCOL	UNIT	RESULT
1	pH @ 25^0 C	APHA 23rd Edition-2017, 4500 H^+, B	-	6.02
2	Total Alkalinity as CaCO3	APHA 23rd EDITION-2017, 2320 B	mg/L	1246.0
3	Oil & Grease	APHA 23rd Edition-2017, 5520 D	mg/L	14.0
4	Bio-chemical Oxygen Demand (3 days at 27^0C)	IS-3025:1993(part 44) (RA 2009)	mg/L	15100.0
5	Chemical Oxygen Demand	APHA 23rd Edition-2017, 5230 B	mg/L	39600.0
6	Chloride as Cl	APHA 23rd Edition-2017, 4500-Cl	mg/L	8880.2
7	Total Solids	APHA 23rd Edition-2017, 2540 B	mg/L	12029.8
8	Sulphate as SO_4	APHA 23rd Edition-2017, 4500-SO_4	mg/L	5120.0
9	Total Suspended solids	APHA 23rd Edition-2017, 2540 F	mg/L	364.0
10	Potassium	APHA 23rd Edition-2017, 3500 K	mg/L	810.0
11	Total Kjeldahl Nitrogen	APHA 23rd Edition-2017, 4500-N Org, B	mg/L	364.0

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MSVAL/A/F/14/03

ANALYSIS REPORT OF WASTE WATER QUALITY

Test Report No:MSVAL/2021/6082 **Issue Date: 28.08.2021**

1. Name of the Project : **M/s. Athani Sugars Limited Vishnuannanagar, Post: Navalihal, Tq: Athani, Dist: Belgaum - 591234**
2. Sample Type : Conc. Bio – methanated spent wash
3. Sample Collected By : Customer
4. Particulars of Sample Collected : -
5. Sample description/condition : Good/Satisfactory
6. Date of sample Receipt : 24.08.2021
7. Analysis Starting date : 25.08.2021
8. Analysis Completion Date : 28.08.2021
9. Sample Tested as Received

RESULTS

S.NO	PARAMETERS	PROTOCOL	UNIT	RESULT
1	pH @ 25^0 C	APHA 23rd Edition-2017, 4500 H+, B	-	6.86
2	Total Alkalinity as $CaCO_3$	APHA 23rd EDITION-2017, 2320 B	mg/L	1638.0
3	Oil & Grease	APHA 23rd Edition-2017, 5520 D	mg/L	8.0
4	Bio-chemical Oxygen Demand (3 days at 27^{0}C)	IS-3025:1993(part 44) (RA 2009)	mg/L	14900.0
5	Chemical Oxygen Demand	APHA 23rd Edition-2017, 5230 B	mg/L	49860.0
6	Chloride as Cl	APHA 23rd Edition-2017, 4500-Cl	mg/L	21972.9
7	Total Solids	APHA 23rd Edition-2017, 2540 B	mg/L	21802.6
8	Sulphate as SO_4	APHA 23rd Edition-2017, 4500-SO4	mg/L	10958.5
9	Total Suspended solids	APHA 23rd Edition-2017, 2540 F	mg/L	486.0
10	Potassium	APHA 23rd Edition-2017, 3500 K	mg/L	926.0
11	Total Kjeldahl Nitrogen	APHA 23rd Edition-2017, 4500-N Org, B	mg/L	420.0

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END OF REPORT

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MSVAL/A/F/14/03

ANALYSIS REPORT OF COMPOST

Test Report No:MSVAL/2021/6083 **Issue Date: 28.08.2021**

1.	Name of the Project	:	**M/s. Athani Sugars Limited Vishnuannanagar, Post: Navalihal, Tq: Athani, Dist: Belgaum - 591234**
2.	Sample Type	:	Compost
3.	Sample Collected By	:	Customer
4.	Particulars of Sample Collected	:	-
5.	Sample description/condition	:	Good/Satisfactory
6.	Date of sample Receipt	:	24.08.2021
7.	Analysis Starting date	:	25.08.2021
8.	Analysis Completion Date	:	28.08.2021
9.	Sample Tested as Received		

RESULTS

SL.NO.	PARAMETERS	UNIT	PROTOCOL	RESULT	TOLERANCE LIMITS AS PER KSPCB CONSENT
1	Moisture Content	%	CPCB Manual for analysis of municipal solid waste (Compost)	31.2	<35
2	Total Organic Carbon	%		22.5	20-25
3	Available Nitrogen	%		1.98	1.5-2.0
4	Available Phosphorous	%		1.86	1.5-2.0
5	Potassium as K_2o	%		2.35	2.0-3.5
6	C:N Ratio	-		11.36	<17

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