



ATHANI SUGARS LIMITED

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CIN : U40109KA1995PLC017806

Ref No:-ASL/Env/2020-21/895

Date: 21.12.2020.

To
**The Additional Principal Chief Conservator of Forests (C),
Ministry of Environment and Forest & Climate Change,
4th Floor, E&F Wing, Kendriya Sadan
Koramangala, Bengaluru-560034**

Subject: Submission of 1st Half year compliance report of Environment Clearance issued for Expansion of sugar plant from 4500 to 12000 TCD, distillery plant 60 to 90 KLPD & Power plant 24 MW to 54 MW for the year 2020.

Respected Sir,

With reference to subject cited above, we are pleased to submit 1st half yearly compliance report with respect to Environmental Clearance issued our company vide letter no No.J.11011/373/2013-IA.II. (I) dated: 03.04.2017, for integrated expanded project of sugar plant from 4500 TCD to 12000 TCD, Distillery plant 60 KLPD to 90 KLD and Power plant 24 MW to 54 MW for the year 2020.

This is for your kind information.

Thanking you.

Yours faithfully,

**Shri. Yogesh Patil
Executive Director**

Encl: As above.

**1st HALF YEAR COMPLIANCE REPORT TOWARDS
ENVIRONMENTAL CLEARENCE**

Prepared For

**EXPANSION OF SUGAR INDUSTRY FROM 4500 TCD TO 12000
TCD & POWER PLANT FROM 24 MW TO 54 MW AND
RECTIFIED SPIRIT/ENA/ETHANOL FROM 60 KLPD TO 90
KLPD DISTILLRY PLANT FOR THE YEAR 2020.**

From

**ATHANI SUGARS LIMITED,
VISHNUANNANAGAR, POST-NAVALIHAL,
TAL-ATHANI, DIST. BELAGAVI-591 234.**



**Statement of Compliance for expansion of sugar plant 4500 TCD to 12000 TCD,
distillery 60 KLPD to 90 KLD , Co-gen plant 24 MW to 54 MW**

MoEF letter no : No.J.11011/373/2013-IA.II.(I), dated : 03.04.2017

1.	Project Type	Industry
2.	Name of the project	Expansion of sugar plant 4500 TCD to 12000 TCD, molasses based distillery (60 to 90 KLPD) and 24 MW to 54MW biomass based power plant at Kempwad, Taluka Athani, District Belagavi by M/s Athani Sugars Ltd.
3.	Clearance letter no and date	MOEF letter No.J.11011/373/2013-IA.II.(I), dated : 03.04.2017
4.	Location, District & State / UT	Belagavi, Karnataka
5.	Address for correspondence	Shri. Yogesh .S. Patil, Executive Director, M/s. Athani Sugars Limited, Vishnuannanagar, Post-Navalihal 591 234, Taluka Athani, District Belagavi Ph:08339-80100/01,Fax:08339280103
6.	Financial Details	
a	Project cost as originally planned and subsequent revised estimates and the years of price reference	
b	Allocations made for environmental management plans, with item wise and year wise breakup	Rs. 72 Lakhs (Rs. 8 Crores as per condition (viii)of general conditions for recurring and non recurring expenditure to implement conditions stipulated by MoEF)
c	Total expenditure on the Project so far	
d	Actual expenditure incurred on the environmental management plans so far	Following capital expenses were incurred towards equipments to control pollution for distillery 60 to 90 KLP plant: Bio-digester: Rs. 480 Lakh ESP for distillery boiler: 100 Lakh ESP for new cogen boiler: 380lakh Multi effect Evaporator plant: 700 Lakh Condensate Polishing Unit:145 lakh
7.	Status of construction:	Completed and obtain CFO from board
a.	Date of commencement	The project is completed and commissioned on 10.10.2020
b.	Date of completion (actual and/or planned)	The project is completed during season 2019-20.
8	Date of site visit :	
a.	The dates on which the project was monitored by the Regional Office on previous occasions, if any	Nil
b.	Date of site visit for this monitoring report	17.05.2016 & 7.10.2016

BRIEF STATUS OF THE PROJECT:-

The ASL has completed and commissioned 30 KLPD distillery/ ethanol plant in February, 2008(MOEF letter No.J-11011/129/2006-IA.II(I), Dated:29.05.2006). The molasses produced out of sugar factory is used as raw material for distillery. The company has adopted continuous fermentation process so that spent wash generation per KL of ethanol will be minimized to 8 liter per liter of final product. As per EC conditions, composting after bio-methanization is adopted for spent wash treatment. Compost yard and spent wash storage tanks are reportedly constructed as per CPCB guidelines.

The industry is operating 60 KLD distillery, 24 MW cogeneration plant and 4500 TCD sugar plant. MOEF has issued EC for expansion of distillery from 30 KLD to 60 KLD and for 24 MW bagasse based cogeneration vide letter no. J-11011/189/2009-IA.II(I), Dated: 1.9.2009.

There is reportedly abundant quantity of sugarcane is available in the nearby areas and the industry has reportedly also undertaken 16 irrigation projects in the nearby villages. Considering the availability of the sugarcane, the management of the industry proposes to expand the sugar factory from 4500 TCD to 12000 TCD (7500 TCD expansion), co-generation from 24 MW to 54 MW (30 MW expansion) and distillery / ethanol plant form 60 KLPD to 90 KLPD (30 KLPD expansion). For the proposed expansion of the project, the industry has obtained Environmental clearance from ministry vide letter no F.No.J-11011/373/2013-IA.II(I) dated 03.04.2017. Industry also obtained Consent for operation from KSPCB viva letter no AW 309512 dated 29.12.2018.

A. SPECIFIC CONDITIONS :-

i) All the control and monitoring equipment shall be installed, tested and interlocked with process, SPCB shall grant consent to operate after ensuring that all the mentioned pollution control equipment, construction of storm water drain, covered press mud storage yard, covered coal storage yard , rain water harvesting system structure, greenbelt, uploading of compliance report on the website etc have be implemented.

We have provided ESP for 145 TPH, 130 TPH and 18 TPH boilers as Air control equipment.

The effluent generated in sugar industry treated in Sugar ETP having capacity of 1400 m³/d by anaerobic digester followed by double surface aeration and clarification.

Distillery Waste: The generated waste form distillery is being treated in 2 no of Bio-digesters (Capacity of 450m³/day each).The Bio-methanated Spent wash further fed to 7 effect falling film evaporator (capacity 900 KL) to concentrate and reduced the quantity of BMSW (120 m³/day) . The conc. BMSW is composted with press mud to achieve zero discharge. Compost yard constructed as per CPCB guideline.

Condensate water from Sugar, distillery & MEE plant, Ro reject water, spent-lees is being treated in Condensate Polishing Unit (CPU) have capacity of 190 m³/hr and recycled water used for processing, cooling tower make up and gardening purpose.

ii) ESP along with stack of adequate height shall be provided to bagasse fired boiler to control particulate emission within 50mg/Nm³.

The company has installed Electro Static Precipitators (ESP) for the boiler to control emission. The stack height of co-gen boiler 145 TPH and 130 TPH boilers is 82meter and 80meter and distillery 18 TPH boiler stack height is 42meter.

As per CPCB Guideline industry installed online continuous stack emission system for 18 TPH distillery boiler stack and it is connected to CPCB server. Also we are provided Flow meter to Distillery spent wash out let line and evaporation concentrated outlet line and CC camera for compost yard and Storage lagoon it is connected CPCB Server .Photographs of online stack emission system and connectivity details attached as Annexure-1

The Stack monitoring results for Month of June 2020 to November 2020

Parameters	Results					Standard
	18 TPH					
	June 20	July 20	Aug 20	Oct 20	Nov 20	
Particular Matter (mg/Nm3)	143.50	146.02	137.52	-	131.6	150
Nitrogen dioxide (mg/Nm3)	27.06	34.66	31.54	-	34.07	-
Sulphur dioxide (mg/Nm3)	12.31	14.91	13.29	-	13.29	-

Parameters	Results				Standard
	130 TPH		145 TPH		
	Oct 20	Nov 20	Oct 20	Nov 20	
Particular Matter (mg/Nm3)	91.29	144.9	137.1	132	150
Nitrogen dioxide (mg/Nm3)	28.07	32.08	27.34	29.02	-
Sulphur dioxide (mg/Nm3)	13.52	13.74	12.98	12.47	-

iii) Total fresh water requirement from Krishna river shall not be exceed 850 m³/d for sugar and co-gen power unit and 535 m³/d for distillery unit after expansion. No ground water shall be used.

The sugar condensate water, MEE condensate water and RO reject water, spent lees are treated in CPU unit and treated water reused in process to minimize the fresh water consumption. There is no ground water use.

iv) Spent wash generation from molasses based distillery shall not exceed 8KL/KL of alcohol. The spent wash from molasses based distillery shall be evaporated in MEE and concentrated spent wash will be mixed with press mud and bio composted to achieve zero discharge. Evaporator condensate shall be treated in polishing pond and recycle/reused in process. Sewage shall be treated in STP. No effluent shall be discharged outside the premises and zero discharge shall be maintained.

The company has adopted continuous fermentation technology for the distillery process to minimize the generation of spent wash less than 8KL/alcohol.

Generated Spent wash is being treated in 2 numbers of bio-digesters (each of capacity 450 m³/day, volume 12700 m³). The effluent of Bio-digester is further fed to falling film multi effect (7 effects) evaporator (capacity 900 KLD) to concentrate and reduce quantity of BMSW. The evaporated condensate water treated in condensate polishing unit (CPU) and treated water reuse in sugar and distillery plant .concentrated BMSW used in press mud for composting.

Photograph of same enclosed as Annexure-2

v) Spent wash shall be stored in impervious RCC lagoon with proper lining with HDPE shall be kept in proper condition to prevent ground water pollution. The storage of spent was shall not exceed 15 days.

The spent wash is stored in impervious pucca lagoons & these lagoons have proper lining with 250 micron HDPE film. The storage of spent wash is restricted to 30 days.

- Storage tank no.1 (5 days capacity for Raw spent wash storage):
56 m X 12 m X 3m = 2016 M³ + 1m free board.
- Storage tank no.2 (5 days capacity for Biomethanated spent wash storage):
56 m X 12 m X 3m = 2016 M³ + 1m free board.

- Storage tank no.3 (Concentrated BMSW storage):
56 m X 64 m X 3 m = 10752 M3 + 1m free board.

Photographs of the same are enclosed as Annexure-3

vi)As proposed, no effluent from distillery shall be discharge outside the plant premises and zero discharge shall be adopted .water consumption shall be reduced by adopting 3Rs (reduce,reuse and recycle) concept in the process.

Generated Spent wash is being treated in 2 numbers of bio-digesters (each of capacity 450 m³/day, volume 12700 m³). The effluent of Bio-digester is further fed to falling film multi effect (7 effects) evaporator (capacity 900 KLD) to concentrate and reduce quantity of BMSW. The evaporated condensate water treated in condensate polishing unit (CPU) and treated water reuse in sugar and distillery plant to minimize the use of fresh water. concentrated BMSW used in press mud for composting to achieve zero discharge.

vii) Process effluent / any waste water shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.

We are provide separate drain to storm water and generated effluent through lined drain to ETP for further treatment and there is no mixing of storm water and effluents.

viii)The Adequate number of ground water quality monitoring station by providing Piezometers around the compost area and compost yard shall be set up. Sampling and trend analysis monitoring must be made on mothly a basis and report submitted to SPCB and this ministry. The ground water quality monitoring for pH, BOD,COD Chloride, Sulphate and total dissolved soild shall be monitored. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to mministry Regional office at Bhopal and SPCB.

We have provided 4 nos. test bore wells around the compost yard. The area being dry and water table is below 150 feet and due to non availability of ground water, test bore well not monitored. So we are analysis factory surrounding are bore well water quality monthly by MOEF recognized laboratory. Monthly monitoring reports are submitted to the KSPCB Regional office regularly

Water quality report as enclosed below:

The bore samples were collected from inside factory premises near guest house and from bore well which is located outside factory premises. Analysis Reports for the month of June 2020 to November 2020 are enclosed below:

Parametr s	units	Results										Standards	
		Industry Premises					Guest House						
		June	July	Aug	Oct	Nov	June	July	Aug	Oct	Nov	AL	PL
pH		7.58	7.54	7.42	8.45	7.29	7.61	7.55	7.62	8.32	8.3	6.5-8.5	6.5-8.5
Colour	Hazen	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5	15
Odor		agreeable	agreeable	agreeable	agreeable	agreeable	agreeable	agreeable	agreeable	agreeable	agreeable	Agreeable	
Total Dissloed Solid	mg/l	1112.7	968	1030	480	842	1948	858	928	478	720	500	2000
Total Alkalinity (CaCO3)	mg/l	280	238	274	114	170	300	225	268.4	110	210.2	200	600
Total Hardness	mg/l	589.5	410	453.5	163.2	536.5	452.9	412	410.2	171.3	414.7	200	600
Nitrate Nitrogen (NO3N)	mg/l	2.8	3.5	4.1	1.14	3.98	4.1	5.5	5.19	1.16	1.71	45	No relaxatn
Chloride (Cl)	mg/l	500	213.9	240.8	29.9	248.9	251.7	222.9	189.4	36.9	124.93	250	1000
Sulphate (SO4)	mg/l	134.6	91.9	121.6	54.03	156.9	135.2	153.5	146.1	55.4	121.89	200	400
Calcium (Ca)	mg/l	142.8	67.7	74.2	32.6	124.8	138.7	49.7	66.9	35.08	102	75	200
Magnisium (Mg)	mg/l	71.3	58.5	65.12	19.8	54.5	69.3	69.9	59.04	20.3	76.16	30	100
Floride (F)	mg/l	0.58	0.64	0.51	0.13	0.54	0.52	.061	0.61	0.07	0.48	1	1.5
Iron (Fe)	mg/l	BDL	BDL	BDL	BDL	0.05	0.02	BDL	BDL	BDL	0.06	1	No relaxatn
Turbidity	NTU	0.78	0.92	1.22	0.28	1.06	0.45	0.81	1.04	0.36	1.02	1	5
Total Coliforms	MPN/100ml	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
E-coli	MPN/100ml	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ix) Bagasse /coal storage shall be done in such a way that it does not get air borne or fly around due to wind.

Company has provided coal shed to store coal and excess bagasse stored as block to prevent air borne particle around factory premises.

x) Boiler ash shall store separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash and dust shall be avoided. Bagasse ash and coal ash shall be stored separately.

Generated coal ash and bagasse ash are stored separately as per CPCB guideline and ash sold to brick manufacture and farmer.

xi) Fire fighting system shall be as per the norm and covered all areas where alcohol is produced, handled and stored. Provision of foam system for firefighting shall be made to control fire from the alcohol storage tank. DMP shall be implemented.

We are provided fire fighter system to enter factory premises such high pressure water hydrant line and in each unit with fire extinguisher (dry powder) to control fire.

xii) Occupational health surveillance program shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health center shall be strengthened and the medical records of each employee shall be mentioned separately.

The industry has total number of 800 employees working in three shifts during season time. The company has purchased its own well equipped ambulance and appointed three permanent drivers to provide 24 hours ambulance service to its all employees. All employees have been provided with canteen facility, entertainment & sports facility and sanitation facility in the premises of the industry. A doctor has been appointed to visit the industry site on daily basis to provide healthcare facility to employees. Also necessary healthcare facilities are being provided with routine health survey tests & through medical camps.

xiii) Dedicated parking facility for loading and unloading of material shall be provided in factory premises. Unit shall develop and implement good traffic management system for their incoming and outgoing vehicle to avoid congestion on the public road.

Company has provided separate parking facility, loading and unloading material for vehicle.

xiv) As proposed, green belt over 33% of the total area shall be developed within plant premises with at least 10 meter wide green belt on all side along with periphery of the project area, in downward direction, and along road side etc. selection of plant species shall be as per CPCB guidelines in consultation with DFO.

The total area of the industry is 120 acres. Out of this, 40% of the area i.e. 48 acres has been developed as Green belt. We have planted about 13000 nos. of different variety of plants/trees in factory premises in main gate, cane yard, employee colony and road way to factory both side, the green belt such as Neem, Mango, Chikkoo, Coconut, Tamarind etc at cost of 12.6 Lakhs.

xv) All the commitment made during Public hearing/ Public consultation meeting held on 22nd august 2014 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.

Provided Accordingly.

xvi) At least 5% of the total cost of the project shall be earmarked towards the Enterprise social commitment (ESC) based on local needs and action plan with financial and physical breakup/ details shall be prepared and submitted to the ministry Regional office at Bhopal. Implementation of such program shall be ensured accordingly in time bond manner.

Noted and Accepted.

B. General Condition

i) The project authorities must strictly adhere to the stipulations made by the KSPCB, the State Government and any other statutory authority.

The project obtained consent of operation for KSPCB via letter no: AW-309512 dated: 29.12.2018. Enclosed as Annexure-4

ii) No further expansion or modifications in the plant shall be carried out without prior approval of Ministry of Environment and Forest. in case of division or alternation in the project proposal from those submitted to this ministry for clearance a fresh reference shall be made to the ministry to assess the adequacy of conditions imposed and add additional environmental protection measures require , if any

Noted.

iii) The location of ambient air quality monitoring station shall be decided in consultation with KSPCB and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.

Two Ambient Air Quality monitor station are provide. One AAQ station is located near factory main gate and another station is provided near compost yard which is located outside factory. AAQ is being monitored by MOEF empanelled laboratory on monthly basis and reports are submitted to board regularly.

The results of ambient air quality parameter from June 2020 to November 2020 as follows.

Parameters	units	Results										NAAQ Standard
		Near Main Gate					Near Compost yard					
		Jun e	July	Aug	Oct	Nov	June	July	Aug	Oct	Nov	
Particulate Matter (PM10)	µg/m3	52.4	46.35	56.18	68.2	78.5	44.7	58.50	61.49	59.62	79.3	100
Particulate Matter (PM2.5)	µg/m3	21.71	14.02	19.24	21.48	31.62	16.28	17.12	20.52	24.08	34.08	60
Sulphur dioxide (SOx)	µg/m3	7.08	7.21	7.73	7.25	7.21	6.92	6.71	6.83	7.19	7.26	80
Oxides of Nitrogen (NOx)	µg/m3	15.34	17.34	16.44	16.09	15.96	14.59	15.09	15.91	16.36	16.71	80
Ozone O3	µg/m3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	180
Lead	µg/m3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Carbon Monoxide (CO)	mg/m3	1.5	1.62	1.90	1.75	2.86	BDL	1.52	1.66	1.22	1.98	4
Ammonia (NH3)	µg/m3	6.3	6.4	7.15	7.82	7.51	6.2	7.19	6.84	8.04	7.23	400
Benzene (C6H6)	µg/m3	BDL	-	BDL	BDL	BDL	BDL	-	BDL	BDL	BDL	5
Benzo(α)Pyrene (BaP)	ng/m3	BDL	-	BDL	BDL	BDL	BDL	-	BDL	BDL	BDL	1
Arsenic (As)	ng/m3	BDL	-	BDL	BDL	BDL	BDL	-	BDL	BDL	BDL	6
Nickel (NI)	ng/m3	BDL	-	BDL	BDL	BDL	BDL	-	BDL	BDL	BDL	20

iv) The overall noise level in and around the plant area shall be kept well within the standards, by providing noise control measures including acoustic hood, Silencers, enclosure etc. on all sources of noise generation. The ambient noise level should conform to the standards prescribed under EPA Act 1986 Rules, 1989 viz 75 dBA (day time) and 70 dBA (night time).

We have provided noise control measures for all sources of noise generating equipments/machines like D.G. Sets with acoustic enclosures & are confirmed to EPA Rules, 1989 prescribed for Air & Noise Emission standards.

The Noise level parameters (June 2020 to November 2020) are being monitored regularly at our location as below

Sample Location	Parameters dB (A)										Standard dB (A)	
	Day					Night						
	June	July	Aug	Oct	Nov	June	July	Aug	Oct	Nov	Day	Night
Near Main Gate	67.6	67.3	65.8	58.5	55.5	66.7	67.1	61.8	56.6	54.6	75	70
Near Guest House	68.8	64.1	56.6	61.7	53.6	66.2	62.9	54.8	59.7	52.4	75	70
Near Compost Yard	69.7	69.7	69.8	65.6	69.3	68.5	67.4	66	61.8	69.1	75	70
Near Cane Carrier	71.7	71.2	68.5	67.2	72.5	67.8	68	64.5	65.1	66.6	75	70

v) The company shall harvest rain water from the roof tops of the building and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.

Company is located in dry and rain shadow area. The average rainfall in this location is 450 mm. The rain water over the roof of the various plants is collected and recharged to bore well after giving proper treatments. Also the rain water from the industry premises is collected in tanks and recharged to ground after due treatment.

vi) During transfer of material, spillage shall be avoided and garland drains be constructed to avoid mixing of accidental spillage with domestic waste water and storm water drains.

Domestic water treated in septic tank followed by Soak pits. The domestic waste and storm drain are separately treated.

vii) Usage of personal protection equipment by all employee/ workers shall be ensured.

We are provided safety equipment such as safety helmet, googol, ear plug, gloves safety shoes for labors.

viii) Training shall be imparted to all employees on safety and health aspects of chemicals handling, pre employment and routine periodical medical examination for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

We are periodical conduct mocked exercise for fire safety related and training to employee for chemical handling. Also necessary healthcare facilities are being provided with routine health survey tests & through medical camps.

ix) The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the ministry. All the recommend made in EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.

Compliance as follows

Sr.No	Items	Compliance
1.	Air Pollution control	ESP is installed to 130TPH, 18 TPH and 145 TPH boilers.
2.	Water Pollution control	<p>Sugar unit: - Generated waste water is treated in Sugar ETP (1400m³/day capacity) by anaerobic digester followed by double surface aeration and clarification. Treated water used for green belt development.</p> <p>Distillery Waste: The generated waste form distillery is being treated in 2 no of Bio-digesters (Capacity of 450m³/day each).The bio-methanated Spent wash further fed to 7 effect falling film evaporator (capacity 900 KL) to concentrate and reduced the quantity of BMSW (120 m³/day) . The conc. BMSW is composted with press mud to achieve zero discharge.</p> <p>Condensate water from Sugar Plant. Distillery and MEE plant, Ro reject water, spentless is being treated in Condensate Polishing Unit (CPU) have capacity of 190 m³/hr and recycled water used for processing, cooling tower make up and gardening purpose.</p>

x) The company shall undertake CSR activities and all relevant measures for improving the socio economic conditions of the surrounding area.

The Company undertook several CSR related activity such as 16 drip irrigation project in nearby villages, School facility for employees and surrounding village children's and drinking water facility to nearby villages etc.

xi) The company shall undertake eco developmental measures including community welfare measures in project area for the overall improvement of the environment.

The Company undertook several CSR related activity such as 16 drip irrigation project in nearby villages, plantation around the factory inside and outside premises etc.

xii) The company shall earmark sufficient fund for recurring cost per annum to implement the conditions stipulated by the ministry of Environment and forest as well as the state government along with implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.

Capital expenditure made by the project authorities as on date are listed below:

Bio-digester 2 nos : Rs. 960 Lakh
Spent wash storage tank: Rs. 150 lakh
Bio-composting yard: Rs. 120 lakh
ESP for new cogen boiler Rs:380 lakh
ESP for Co-gen boiler: 250 Lakh
ESP for distillery boiler: 100 Lakh
Spent wash Evaporator: 700 Lakh
Condensate Polishing Unit :145 lakh
Recurring expenses are Rs. 72 Lakhs

xiii) A copy of clearance letter shall be send by the project proponent to concerned Panchayat, Zilaparishad/Municipal Corporation, urban local body and local NGO. if any, from who suggestion/ representations if any were received while processing the proposal.

Noted & complied

xiv) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitoring data to the respective Regional office of MOEF, the respective Zonal office of CPCB and the KSPCB a copy of EC and six monthly compliance status report shall be posted on the website of the company.

Six monthly compliance reports are submitted regularly

1. Letter no: ASL/Env/2020-21/077 dated: 16.06.2020.
2. Letter no: ASL/Env/2019-20/1175 dated: 10.01.2020.
3. Letter no: ASL/Env/2019-20/359 dated: 14.06.2019.

xv) The environmental statement for each financial year ending 31st March in Form V as is mandated to be submitted by the project proponent to the concerned SPCB as prescribed under the Environment (Protection) Rules, 1986. As amended subsequently, shall also put on the website of the company along with the status of compliance of EC conditions and shell also be sent to the respective regional office of the MOEF by Email.

Noted.

xvi) The project proponent shall inform the public that the project has been accorded environmental clearance by Ministry and copies of the clearance letter are available with SPCB and may also be seen at Website of MoEF at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspaper that widely circulated in the region of which one shall be in the vernacular language of locality concerned and copy of the same shall be forwarded to the concerned Regional office of the ministry.

The project has received Environmental Clearance on 03.04.2017 from MoEF and published in local news paper.

xvii) The project Authorities shall inform the Regional office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

The project is completed and commissioned on 10.10.2020.

xviii) The Ministry may revoke or suspends the clearance, if implementation of any of the above conditions is not satisfactory.

Accepted.

xix) The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner will implement these conditions.

No additional conditions were stipulated by Ministry.

x) The above condition will be enforced, inter alia under the provisions of the Water (Prevention &Control pollution) Act 1974, the Air (Prevention &Control pollution) Act, 1981, the Environment (Protection) Act, 1986 hazardous waste (management & handling) rules, 2008 and the Public Liability Insurance Act,1991 along with their Amendments and rules.

Noted.

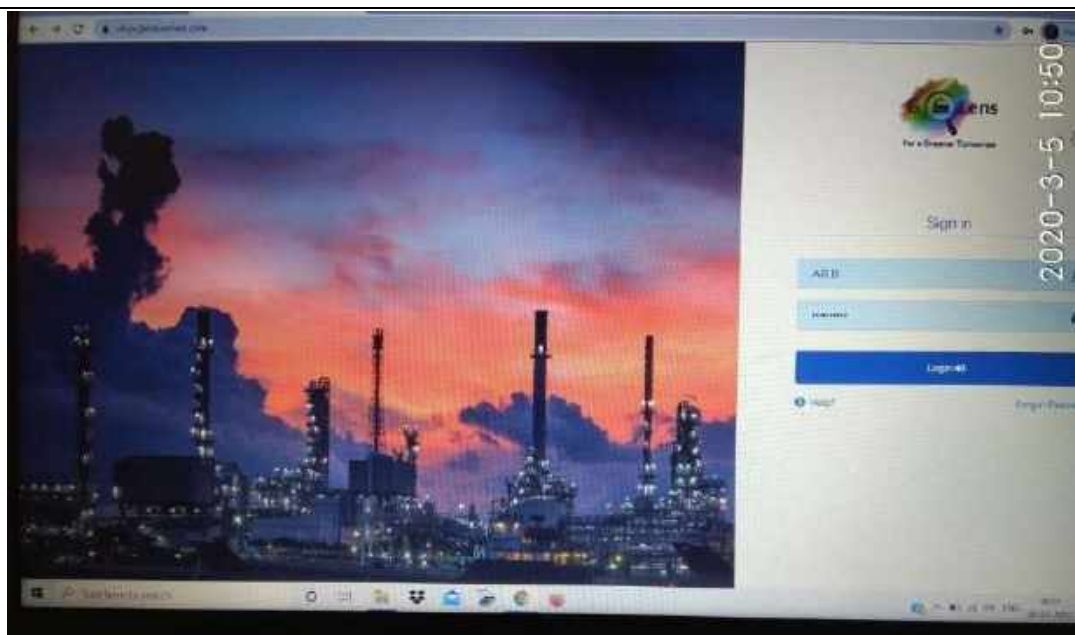
ANNEXURE -1



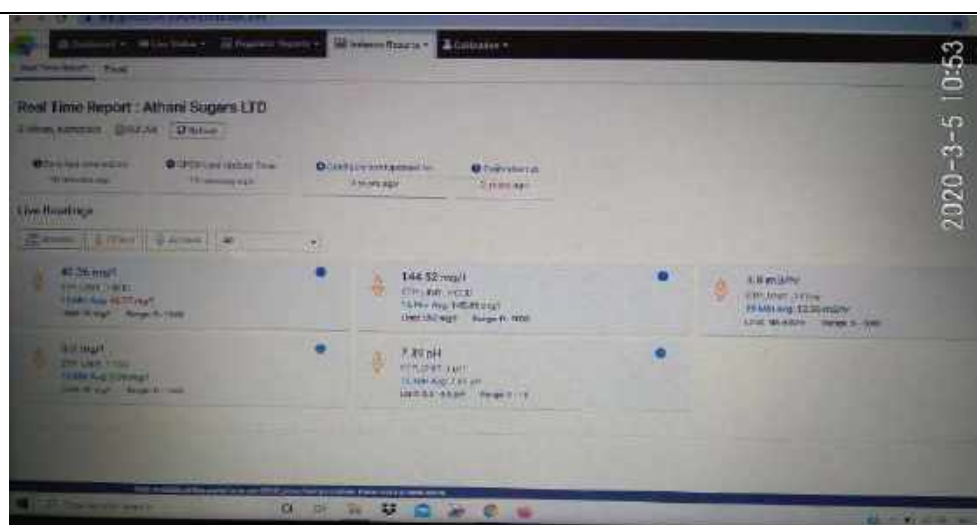
Online monitoring system for treated Effluent in Sugar ETP



Flow meter installed for treated Effluent for Sugar ETP.



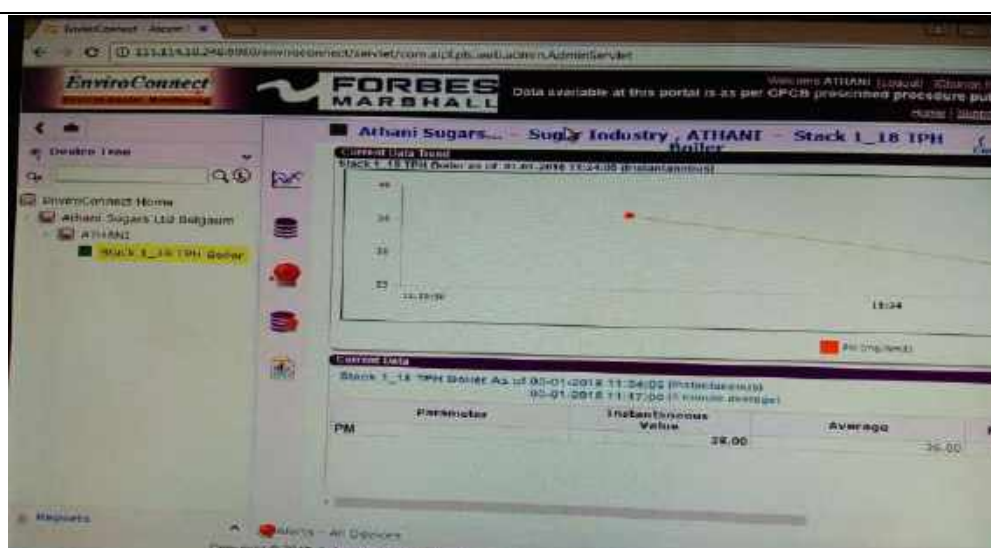
Screenshot of Online monitoring system connectivity to CPCB server



Screenshot of Online monitoring system for ETP connectivity to CPCB server



Installed Online Stack emission Monitoring System for 18 TPH boiler



Screen shot of CPCB server connectivity for online Stack emission Monitoring stack



PTZ Camera installed compost yard site

ANNEXURE -2



2 No's Of Bio-digester Plant (Capacity 450m³/Day Each)



Multi Effect Falling Film Evaporation Plant (Capacity 900kld)



Polishing condensate unit (125m³/hr)




LESBAR reactor (capacity 1400 m³/day) for Expanded Sugar ETP

ANNEXURE -3



Impervious Lagoon storage for spent wash

ANNEXURE -4

 <p>Consent For Operation (CFO-Air/Water)</p> <p>Consent No. AW-309512 Valid upto: 30/06/2021</p>	<p>Karnataka State Pollution Control Board Parisara Bhavana, No.49, Church Street, Bengaluru-560001 Tele : 080-25589112/3, 25581383 Fax: 080-25586321 email id: ho@kspcb.gov.in</p>
<p>Industry Colour: RED Industry Scale: LARGE</p>	
<p>(This document contains 5 pages including annexure & excluding additional conditions.)</p>	

Combined Consent Order No.	AW-309512	PCB ID:	10670	Date:	29/12/2018
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Combined consent for discharge of effluents under the Water (Prevention and Control of Pollution) Act, 1974 and emission under the Air (Prevention and Control of Pollution) Act, 1981

Ref: 1. Application filed by the applicant/organization on 04/08/2018
2. Inspection of the Industry/organization by RTO, on 04/08/2018
3. Proceedings of the CCM dated 17/11/2018 held on 16/11/2018

Consent is hereby granted to the Occupier under Section 25(4) of the Water (Prevention & Control of Pollution) Act, 1974 (herein referred to as the Water Act) & Section 21 of Air (Prevention & Control of Pollution) Act, 1981, (herein referred to as the Air Act) and the Rules and Orders made there under, and authorized the Occupier to operate/carryout industry/activity & to make discharge of the effluents & emissions conforming to the stipulated standards from the premises mentioned below and subject to the terms and conditions as detailed in the Schedule Annexed to this order.

Location:

Name of the Industry:	Athani Sugars Ltd,Vishnuanna nager,Navalihal post Athani Tq, Belgavi District	
Address:	Athani Sugars Ltd., Vishnuanna nager, Navalihal village, Athani Taluk, Belgauam D	
Industrial Area:	Not In I.A.	Navalihal,
Taluk:	Athani.	District: Chikkodi

CONDITIONS

a) Discharge of effluents under the Water Act:

Sr	Water Code	WC(KLD)	WWG(KLD)	Remark
1	Domestic Purpose	40.000	32.000	Please refer Annexure-III A for industry specific conditions
2	Manufacturing Processes	1345.000	2184.000	Please refer Annexure III A for industry specific conditions

b) Discharge of Air emissions under the Air Act from the following stacks etc.

Sl. No.	Description of chimney/outlet	Limits specified refer schedule
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The details of Sources, control equipments and its specification, type of fuel, constituents to be controlled in emissions etc. are detailed in Annexure-II.

The consent for operation is granted considering the following activities/Products:

Sr	Product Name	Applied Qty/Month	Unit
1	distillery	2700.0000	KL
2	electricity	38880.0000	MWH
3	water	43300.0000	M T

This consent is valid for the period from 04/08/2018 to 30/06/2027

To:

Athani Sugars Ltd, Vishnuanna nagar, Navallihal post, Athani Tq. Belgaum District

COPY TO:

The Environmental Officer, KSPCB, Regional Office, Belgaum (Chikkodi) for information and necessary action.

2. Master Register.
3. Case file.

Consent Fee paid Rs. 800000

Combined Consent of Operation for 12000TCD sugar palnt,90 KLD distillery &54 MW Cogeneration Plant



**Consent For Operation
(CFO-Air/Water)**

Consent No. AW-308512
Valid upto: 30/06/2021

Industry Colour: RED

Industry Scale: LARGE

Karnataka State Pollution Control Board
Parivara Bhavana, No. 49, Church
Street, Bengaluru-560001
Tele : 080 25589112/3, 25581383
Fax: 080 25586321
email id: ho@kspcb.gov.in

(This document contains 5 pages including annexure & excluding additional conditions)

SCHEDULE

TERMS AND CONDITIONS

A. TREATMENT AND DISPOSAL OF EFFLUENTS UNDER THE WATER ACT:

1. The discharge from the premises of the occupier shall pass through the terminal manhole/manholes where from the Board shall be free to collect samples in accordance with the provisions of the Act/Rules made there under.

2(a). The sewage/domestic effluent shall be treated in septic tank and with soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be as per IS 2470 Part-I & Part-II.

2(b). The treated sewage effluent discharged shall conform to the standards specified in Annexure-I.

3(a). The trade effluent generated in the industry shall be treated in the ETP and treated effluent shall conform to the standard stipulated by the Board in Annexure-I.

3(b). The trade effluent shall be handed over to CETP and maintain logbook of effluent generated & sent every day.

4. The applicant shall install flow measuring/recording devices to record the discharge quantity and maintain the record.

5. The applicant shall not change or alter either the quality or the quantity or the place of discharge or temperature or the point of discharge without the previous consent/ permission of the Board.

6. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises. Storm water shall not be allowed to mix with the effluents on the upstream of the terminal manhole where the flow measuring devices are installed.

7. The daily quantity of domestic effluent and trade effluent from the industry shall not exceed the limits as indicated in this consent order.

8. The applicant shall discharge the effluents only to the place mentioned in the Consent order and discharge of treated/untreated outside the premises is not permitted.

B. EMISSIONS:

1. The discharge of emissions from the premises of the applicant shall pass through the air pollution control equipment and discharged through stacks/chimneys mentioned in Annexure-II where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under. The tolerance limits of the constituents forming the emissions in each of the stacks shall not exceed the limits laid down in Annexure-II.

2. The applicant shall provide port holes for sampling of emission, access platforms for carrying out stack sampling, electrical points and all other necessary arrangements including ladder as indicated in Annexure-II.

3. The applicant shall upgrade/modify/replace the control equipment with prior permission of the Board.

C. MONITORING & REPORTING:

1. The applicant shall get the samples of effluents & emissions collected and get them analyzed once a month/ either by in house monitoring laboratory or through EP approved laboratories for the parameters as indicated in Annexure I & II.

2. The applicant shall maintain log books to reflect the working condition of pollution control systems and also self monitoring results and keep it open for inspection.

D. SOLID WASTE (OTHER THAN HAZARDOUS WASTE) DISPOSAL:

1. The applicant shall segregate solid waste from Hazardous Waste, Municipal Solid Waste and store it properly till treatment/disposal without causing pollution to the surrounding Environment.

2. The solid waste generated shall be handled & disposed by scientific method without causing eye sore to the general public and to the surrounding environment.



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-309512
Valid upto: 30/06/2021

Industry Colour: RED

Industry Scale: LARGE

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
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email id: ho@kspcb.gov.in

(This document contains 5 pages including annexure & excluding additional conditions)

E. NOISE POLLUTION CONTROL:

1. The applicant shall ensure that the ambient noise levels within its premises shall not exceed the limits i.e 75 dB(A) Leq during day time and 70 dB(A) Leq during night time as specified in under the Air (Prevention and Control of Pollution) Act, 1981.

F. HAZARDOUS AND OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) Rules 2016:

The applicant shall comply with the provisions of the Hazardous and other Wastes (Management & Transboundary Movement) Rules 2016.

G. GENERAL CONDITIONS:

1. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises.
2. The applicant shall promptly comply with all orders and instructions issued by the Board from time to time or any other officers of the Board duly authorized in this behalf.
3. The applicant shall set-up Environmental Cell comprising of qualified and competent personnel for complying with the conditions specified.
4. The Board reserves the right to review, impose additional conditions, revoke, change or alter terms and conditions of this consent.
5. The applicant shall forthwith keep the Board informed of any accidental discharge of emissions/effluents into the atmosphere in excess of the standards laid down by the Board. The applicant shall also take corrective steps to mitigate the impact.
6. The applicant shall provide alternate power supply sufficient to operate all Pollution control equipments.
7. The entire premises shall always be kept clean. The effluent holding area, inspection chambers, outlets, flow measuring points should made easily approachable.
8. The applicant shall display the consent granted in a prominent place for perusal of the inspecting officers of the Board.
9. The applicant his heirs, legal representatives or assignee shall have no claims what so ever to the continuation or renewal of this consent after expiry of the validity of consent.
10. The applicant shall make an application for consent for subsequent period at least 45 days before expiry of this consent.
11. The applicant shall develop and maintain adequate green belt all around the periphery.
12. The applicant shall provide rain water harvesting system and shall provide proper storm water management system.
13. This consent is issued without prejudice to any Court Cases pending in any Hon'ble Court
14. The applicant shall furnish the Environmental statement for every financial year ending with 31st March in Form-V as per Environment (Protection) Rules, 1986. The statement shall be furnished before the end of September.
15. The applicant shall display flow diagram of the pollution control system near the pollution control system/s.



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-309512
Valid upto: 30/06/2021

Industry Colour: RED

Industry Scale: LARGE

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NOTE:

The Conditions A(2(b) & 3(b)) mentioned in the schedule are not applicable.

Additional Conditions:

The Occupier shall comply all the additional terms & conditions stipulated in the Annexure I, II & III attached herewith.

Chimney No.	Chimney attached to	Capacity/KVA Rating	Minimum chimney height to be provided above ground level (in Mts)	Constituents to be controlled in the emission	Tolerance limits mg/NM3	Fuel	Air pollution Control equipment to be installed in addition to chimney height as per col.(4)	Date of which air pollution control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.
1	D.G. Sets	320 KVA - 6mt ARL		6 PM(mg/NM3), SO2 (PPM), NOx(PPM)	0,0,0	DIE	AEC	Before commissioning.
2	D.G. Sets	500 KVA-7 mt ARL		7 PM(mg/NM3), SO2 (PPM), NOx(PPM)	0,0,0	DIE	AEC	Before commissioning.
3	Boiler	145TPH cognboller- 70mAGL	70	PM(mg/NM3), SO2 (PPM), NOx(PPM)	50,0,0	BAG	ESP	Before commissioning.
4	D.G. Sets	1250KVA existing 30mARL	30	PM(mg/NM3), SO2 (PPM), NOx(PPM)	00,00,00	DIE	AEC	Before commissioning.
5	Boiler	18TPH existing 42mAGL	42	PM(mg/NM3), SO2 (PPM), NOx(PPM)	150,00,00	COG	ESP	Before commissioning.
6	Boiler	130TPH-existing 60mAGL	60	PM(mg/NM3), SO2 (PPM), NOx(PPM)	150,00,00	BAG	ESP	Before commissioning.

Note:

AEC : Acoustic Enclosures

ESP : E.S.P

Note:

- The Noise levels within the premises shall not exceed 75 dB (A) leq during day time and 70 dB(A) leq during night time respectively.
- The DG set shall be provided with acoustic measures as per SI.No.34 in Schedule-I of Environment (Protection) Rules.
- There shall be no smell or odour nuisance from the industry.



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-309512
Valid upto: 30/06/2021

Industry Colour: RED

Industry Scale: LARGE

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
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(This document contains 5 pages including annexure & excluding additional conditions)

LOCATION OF SAMPLING PORTHOLES, PLATFORMS, ELECTRICAL OUTLET.

1. Location of Portholes and approach platform:

Portholes shall be provided for all chimneys, stacks and other sources of emission. These shall serve as the sampling points. The sampling point should be located at a distance equal to atleast eight times the stack or duct diameters downstream and two diameters upstream from source of low disturbance such as a Bend, Expansion, Construction Valve, Fitting or Visible Flame for rectangular stacks, the equivalent diameter can be calculated from the following equation.

$$\text{Equivalent Diameter} = \frac{2 (\text{Length} \times \text{Width})}{(\text{Length} + \text{Width})}$$

- The diameter of the sampling port should not be less than 100 mm dia". Arrangements should be made so that the porthole is closed firmly during the non sampling period
- An easily accessible platform to accommodate 3 to 4 persons to conveniently monitor the stack emission from the portholes shall be provided. Arrangements for an Electric Outlet Point of 230 V 15 A with suitable switch control and 3 Pin Point shall be provided at the Porthole location.
- The ladder shall be provided with adequate safety features so as to approach the monitoring location with ease.

For and on behalf of the
Karnataka State Pollution Control Board

Signature Not Verified

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ANNEXURE – I(a)

**DISCHARGE STANDARDS FOR USE OF TREATED TRADE EFFLUENT ON LAND FOR GARDENING/
IRRIGATION- FOR SUGAR EFFLUENT (As per MOEF No. G.S.R. 1265(E), dated: 13.10.2017)**

Sl. No.	Parameters	Tolerance limits.
1.	Colour and Odour.	See Note.
2.	Suspended Solids mg/l.Max.	100
3.	pH value.	5.5 to 8.5
4.	Oil and Grease mg/l. Max.	10
5.	Bio-chemical Oxygen Demand, mg/l.(3 days at 27°C) max.	100
6.	Total dissolved Solids (TDS), mg/l	2100

Note: All efforts should be made to remove colour and unpleasant odour as far as practicable

HYDRAULIC LOADING APPLICABLE FOR DIFFERENT SOILS

Sl.No.	Soil Texture.	Loading rate in M ³ /Hec/day.
1.	Sandy	225 to 280
2.	Sandy Loam.	170 to 225
3.	Loam.	110 to 170
4.	Clay Loam.	055 to 110
5.	Clayey.	035 to 055


CHIEF ENVIRONMENTAL OFFICE
KSPCB

09/28/2017

M/s. Athani Sugars Ltd., CFO

ANNEXURE – I (b)
COMPOST QUALITY

Sl. No.	Parameter	Standards
1	Moisture content	< 35%
2	Organic carbon	20 – 25%
3	Phosphorous	1.5 – 2.0%
4	Nitrogen	1.5 – 2.0%
5	Potassium	2.0 – 3.5%
6	C : N Ratio	< 17

ANNEXURE –II

Sl.No.	Chimney Attached to	Minimum Chimney Ht. to be provided above ground level / roof level	Constituents to be controlled in the emission.	Tolerance limits (mg/Nm ³)	APC equipment to be installed in addition to chimney ht as per col(3) to attain the tolerance limits
1	2	3	4	5	6
1	145TPH co-gen Boiler	70 m AGL	PM	50	Electrostatic Precipitator
2	500 KVA D.G Set	7m ARL	SO ₂	-	Acoustic enclosure
3	320 KVA D.G Set	6 m ARL	SO ₂	-	Acoustic enclosure

NOTE:

- 1) The Noise level shall not exceed 75 dB(A) leq. During day time and 70 dB (A) leq. during night time.
- 2) The Air Pollution Control equipment(ESP) provided to boiler shall control particulate matter so as to achieve emission within 50 mg/Nm³ as per Environmental Clearance.


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KSPCB

9/2/18 *12/1/18*

ANNEXURE – III

ADDENDUM TO CONSENT FOR OPERATION(EXPANSION)ORDER OF M/S. ATHANI SUGARS LIMITED,SY.NO.437(P), 436(P), 509(P), 53(P), 54(P), 56(P), VISHNUANNANAGAR, NAVALIHAL POST, ATHANI TALUK, BELAGAVI DISTRICT (AD: 305026 PCB ID: 10670 dated: 01.02.2018)

Preamble:

M/s. Athani Sugars Limited., is an existing industry situated at Sy. No. 437(P), 436(P), 509(P), 53(P), 54(P), 56(P), Vishnuanna nagar, Navalihal post, Athani Taluk & Belagavi District and is engaged in manufacture of Sugar Cane crushing capacity of 4500TCD, power generation using co-generation plant of 24MW capacity and distillery plant of capacity 60KLPD. The industry is having valid Consent for Operation under both the acts valid up to 02.02.2022.

The industry has proposed expansion of the sugar cane crushing capacity, capacity of distillery and co-generation plant and approached Ministry of Environment, Forest and Climate Change for issue of Environment Clearance. The MoEF & CC vide has issued EC vide F.No. J-11031/373/2013-IA-II(I) dated: 03.04.2017 for enhancing the Sugarcane Crushing Capacity from 4500TCD to 12,000TCD, Co-generation power plant capacity from 24MW to 54MW and Distillery Plant from 60 to 90 KLD. The Board has also issued Consent for Establishment (expansion) on 01.02.2018 for the proposed capacity enhancement viz capacity of Sugarcane crushing capacity from 4500TCD to 12,000TCD, Co-generation power plant capacity from 24MW to 54MW and Distillery Plant from 60 to 90 KLD.

Now, industry has applied for Consent for operation under the Water Act and the Air Act for operating the industry for the enhanced capacity.

The issue of Consent for Operation for expansion activity was deliberated in the Consent Committee Meeting held on 16.11.2018 and it was recommended to issue CFO-Expansion under Water & Air Acts for Enhancing the Sugarcane Crushing Capacity from 4500TCD to 12,000TCD, Co-generation power plant capacity from 24MW to 54MW and Distillery Plant from 60 to 90KLD for the period up to 30.06.2021 with conditions from compliance along with EC conditions (copy enclosed).

This consent for operation is granted for considering the following activities/products;

Sl. No.	Products	Capacity including expansion
1.	Sugar cane crushing	4500 TCD to 12000TCD
2.	Distillery	60 KLPD to 90KLPD
3.	Power	24MW to 54MW

The consent for expansion order is valid for the period ending upto 30.06.2021.


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KSPCB

M/s. Athani Sugars Ltd., CFO

The industry shall comply all the terms and conditions of Combined Consent Order No. AW-305026 , PCB ID 10670 dated: 01.02.2018 unless otherwise modified in this order.

A. TREATMENT AND DISPOSAL OF EFFLUENTS UNDER THE WATER ACT.

1. The total fresh water requirement including expansion shall be met from Krishna River and shall not exceed 850KLD for sugar & Co-generation unit and 535KLD for distillery unit. The condensate generated from sugar plant shall be used to meet the process water needs. No ground water shall be used
2. The daily quantity of effluent generation and discharge after expansion (including existing quantity) shall not exceed the quantity given below. The mode of treatment and discharge shall be as indicated below;

Sl.No	Description of effluent	Waste water Generation (In KLD) as per Existing CFO	Additional quantity of water due to expansion in KLD	Total quantity in KLD	Mode of treatment and disposal	Frequency of monitoring
1	Domestic effluent	32	-	32	Shall be discharged to septic tank and soak pit.	-
Sugar Unit						
2.a	Trade effluent	450	297	747	Shall be treated in Effluent Treatment plant of 1400KLD so as to confirm to the standards stipulated in Annexure-I(a) The treated effluent shall used on land for irrigation and plantation in patches within the industry premises to achieve ZLD.	Online monitoring of pH, BOD, COD, TSS, Digital flow meter. Monthly monitoring of general parameters


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KSPCB





M/s. Athani Sugars Ltd., CFO

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Distillery Division						
2.a	Spent wash	480	240	720 KLD (8 KL /KL of alcohol as per EC)	Shall treat the spent wash in bio-digesters (2-No.s), the Bio-methanated spent wash shall be further concentrated in Multiple Effect Evaporator (900 KLD capacity). The concentrated bio-methanated spent wash from MEE shall be composted using press mud within the industry premises.	on weekly basis
2.b	Spent lees	60	180	240	Shall be treated in Condensate Treatment unit of 190 KLPH and reused to meet process water requirements.	
Cogeneration Plant						
3	Blow downs & RO reject	274	100	374	Shall be treated in Condensate Polishing unit and reused to meet the process water needs. Excess quantity conforming to standards stipulated in Annexure-I (a) shall be used on land for gardening within the industry premises to achieve Zero liquid discharge.	

Common conditions for distillery and sugar units of this industry:

1. The ETP site and the entire premises shall be always kept clean. The ETP site, inspection chambers, Outlets, flow measuring points should be made easily approachable to the Inspecting Officers.
2. The factory authorities shall install a display board depicting the approved flow sheet in the ETP area along with discharge standards stipulated in the consent order.

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KSPCB

M/s. Athani Sugars Ltd., CFO

8/25/17
5

3. The applicant shall paint the name and capacity of each unit of ETP of Sugar plant, Distillery division and Condensate Polishing unit.
4. The applicant shall provide closed drain with proper acid/alkali and temperature Resistant material to convey the trade effluents to ETP for treatment and disposal.
5. The applicant shall provide adequate storage capacity for treated effluent to take care of discharge during no demand for irrigation (15 days holding capacity) for sugar unit. The storage tank shall be impervious.

II. Conditions to sugar unit of this industry :-

1. Final Treated effluent discharge shall be restricted to 100 liters per tonne of cane crushed and waste water from spray pond overflow or cooling tower blow down to be restricted to 100 liters per tonne of cane crushed and only single outlet point from sugar unit is allowed.
2. The effluent treatment plant provided for treating trade effluent from sugar unit shall be stabilized one month prior to the start of the crushing season and continue to operate one month after crushing season.
3. The trade effluent from Sugar Plant shall be treated along with boiler/cooling tower blow down of distillery unit as well as co-generation plant in effluent treatment plant of 1400KLD to the standard stipulated in Annexure -I(a) and use it for onland for irrigation within the industry premises to achieve Zero liquid discharge.

III. TREATMENT AND DISPOSAL OF DISTILLERY EFFLUENTS:

1. The Occupier is permitted to operate the distillery unit for 270 days only.
2. The quantity of spent wash generation shall not exceed 8 KL/KL of alcohol produced as per EC conditions.
3. The spent wash shall be stored in an RCC lagoon. The spent wash lagoons shall have proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. The storage capacity of the lagoon shall not exceed 30 days capacity. The total quantity spent wash treated /untreated stored in the industry premises shall not exceed 30 day capacity.
4. The applicant is not permitted to use the spent wash for land application.
5. The spent wash generation shall not exceed 720 KLD. The spent wash shall be bio-methanated in the bio-digester. The bio-methanated effluent shall be further concentrated in MEE . The concentrated spent wash shall be composted along with press mud in compost yard of 7.5 acres (adequate area) as per the CPCB protocol. The compost shall conform to the standards stipulated in Annexure-I (b).
6. The applicant shall garland canal around the lagoon used for storing spent wash to avoid rain water entering the lagoon.
7. No treated /un treated trade effluent from distillery unit shall be discharged outside the plant and Zero Liquid discharge shall be maintained at all the time.
8. The spent lees, shall be treated in condensate polishing unit of 190 KLPH and along with other process condensate. The treated condensates shall reused to meet the process water needs.
9. The occupier shall install H₂S scrubber for control of emission from bio-digester.
10. The Occupier shall ensure that no spent wash is by-passed to land or stream. The applicant is not permitted to use the spent wash for land application.

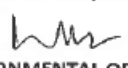
CHIEF ENVIRONMENTAL OFFICER-1

KSPCB


M/s. Athani Sugars Ltd., CFO

IV. COMPOSTING

1. The applicant shall ensure that the composting activity is carried in a manner so as not to cause surface or sub surface water pollution.
2. Compost yard shall be constructed as per the protocol evolved by MoEF/ CPCB preferably with RCC lining and also to provide impervious garland canal all-round the compost yard and shall provide a leachate collection tank.
3. The applicant shall ensure that the composting shall be done as per the protocol /guidelines of CPCB.
4. The applicant shall avoid storing of spent wash in unlined lagoons to avoid surface or sub surface water pollution. Storage of spent wash in impervious holding tank shall not be more than 30 days at compost site.
5. Operation of the distillery during rainy season is prohibited. The applicant shall synchronize the generation of spent wash and composting activity in such a way that composting is avoided during rainy season i.e., from June to end of October every year.
6. The applicant shall ensure that, there shall not be any material/ press mud/ compost left in the compost yard before the start of monsoon.
7. The Applicant shall at his own cost get the samples of bio-methanated & concentrated spent wash collected and analyzed once in 30 days for pH, EC and total volatile solids. The quality of the compost shall confirm to the standard stipulated in **Annexure-II(b)**.
8. The applicant shall submit half yearly extract of GST showing the production details shall be submitted once in six month to Regional Officer, Belgaum-2.
9. The applicant shall analyse finished compost from each cycle for the parameters viz moisture, organic carbon, P, N, K, and C/N ratio. In addition EC of the water extract of the compost shall also be monitored.
10. The effect of composting operations on ground water quality shall be monitored by analyzing samples every six months from five hand pumps about 50 M from the compost yard, encircling the entire area.
11. The applicant shall maintain at least 3 water quality stations/ hand pumps as background stations at a sufficient distance from the compost yard and shall be monitored every six months.
12. The industry shall take all necessary measures to avoid odour nuisance both from the process and from the effluent handling.
13. The applicant shall stop composting operation immediately on observation of first deterioration of ground water quality.
14. The applicant shall make proper arrangement for collection of storm water that overflows the compost yard by providing proper impervious garland canal and impervious leachate tank.
15. The Occupier shall ensure that no compost/press mud or any material is stacked in the compost yard before commencement of rainy season. The compost yard shall be kept clean and storm water during rainy season shall be collected in the leachate tank. The leachate tank capacity shall be such that, it shall hold rain water from compost yard completely and this shall be taken to 30days holding tank and used for composting along with fresh effluent.


CHIEF ENVIRONMENTAL OFFICER-1
KSPCB

M/s. Athani Sugars Ltd., CFO


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16. The entire composting storage area shall be raised or protected by bunds so that the surface run-off during rainy season does not wash off spent wash and lead to contamination of ground water and surface water. The compost yard shall be constructed as per the specification stipulated in the CPCB protocol.
17. The Occupier shall synchronize the generation of spent wash and composting activity in such a manner that composting is avoided during rainy season.

V. TREATMENT AND DISPOSAL OF NON-PROCESS EFFLUENT:

1. The non process trade effluent viz i) Ro-Reject for co-generation plant ii) Spent lees iii) condensate from Multiple Effect Evaporator iv) Sugar plant condensate shall be treated in Condensate Polishing unit of 190 KLPH and shall reuse the treated effluent completely for process and cooling tower makeup. Excess, condensate conforming to the standards stipulated in Annexure 1(a), if any shall be used for on land for gardening within the industry premises.

VI. STORAGE OF MOLASSES STORAGE

1. a) The applicant shall store the molasses only in steel tanks covered with proper roofing and tank form.
- b) Adequate number of steel tank shall be provided for molasses containment. Containment of molasses.
- c) Storing Molasses in earthen pits is not allowed.
- d) The applicant shall obtain permission from the Board to dispose of the spoiled molasses and it shall be disposed off in a manner as laid down by the Board

VII. DISCHARGE OF EMISSIONS UNDER THE AIR ACT:

1. The applicant shall provide chimney height and Air pollution Control equipment for additional air emission sources as per Annexure-II.
2. The applicant shall provide cemented/asphalted road inside the industry premises to avoid generation of fugitive emission.
3. The applicant shall provide bagasse in closed area covered with sides to avoid generation of fugitive emission.

VIII. SELF MONITORING AND REPORTING BY THE INDUSTRY:

1. The applicant shall at his own cost get the treated trade effluent samples collected from place specified and analyze the same once in a month for the parameters indicated in Annexure-I(a) and report submitted once in a month along with quantity of water used, waste water generated, treated and discharged, product manufactured in a compiled statement to the Regional Officer, Belgavi -02.
2. The applicant shall monitor the quality of bio-methanated effluent for parameters TSS, BOD, COD, TVA and alkalinity once in a week and a compiled report shall be submitted to the Regional Office – Belgavi -2 once in a quarter.
1. The Spent wash stored in the lagoons shall be analyzed in Board/MoEF empanelled laboratory every 15 days for pH, EC, FDS, Na, K, Ca, Mg, Cl, SO₄, P O₄, BOD and TKN.
2. Ground water samples shall be monitored two times in a year, in April-May and October and November periods. Samples shall be collected from first water bearing strata from hand pump. Sampling points shall be uniformly spread in the command

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area at the rate of one station per 50 hectares as per the procedure specified in the protocol of CPCB. Sampling and trend analysis must be made on monthly basis and report shall be submitted to the Regional Office.

3. The applicant shall at his own cost get the treated trade effluent samples collected from the place specified and analyze the same once in a month and report submitted once in a month along with the quantity of water used, waste water generated, treated, and discharged, product manufactured, etc., in a compiled statement to the concerned Regional Office.
4. The applicant shall at his own cost get the samples of emissions collected and get them analyzed once a month for the parameters indicated from the sampling port holes provided
5. The applicant shall carryout the ambient air quality monitoring and submits the report to the Regional Office of the Board. The AAQM stations shall be carried out in all the established stations as per the requirement under the National Ambient Air Quality Monitoring Standards stipulated in Environmental (Protection) Rules, 1986. The industry shall furnish statistical analysis for annual average of pollutants at all the locations as per Ambient Air Quality standards Notification once in a year.
6. The applicant shall piezometer around lagoon and regularly monitor the quality of ground water of the wells and submit the analysis report to the Regional Office.
7. The Occupier shall install and maintain Online Continuous Monitoring System at out let of Sugar plant effluent as per CPCB direction comprising of Online digital flow meters from measuring discharge, pH, BOD, COD and TSS and connect to the CPCB server all the times.
8. The applicant shall install and maintain on line continuous monitoring system comprising of digital flow meter for measuring spent wash before and after Multiple Effect Evaporator , Online monitor for PM measurement and IP camera as per CPCB protocol dated: 29.12.2016 and monitoring data shall be connected & up loaded to KSPCB and CPCB's servers.
9. The applicant shall;
 - a) Submit the monitoring results as under;
 - i) Data monitored as per prescribed schedule shall be submitted to the Regional Office every month.
 - ii) A compiled data of all monitoring conducted as per schedule during the consent period shall be submitted in hard copy along with Consent application

IX. SOLID WASTE MANAGEMENT:

1. The applicant shall segregate solid waste from Hazardous Waste/ Bio-medical Waste/ Municipal Solid Waste and store it properly till treatment/ disposal without causing pollution to Environment.
2. The solid waste generated shall be handled & disposed by scientific method without causing eye sore to the general public and to the surrounding environment.

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3. The storage & disposal shall be as specified below:

Sl. No	Solid waste	Quantity in MT/Month	Mode of disposal
1.	Press mud	14400	Shall be used for composting of bio-methanated and concentrate spent wash within the industry premises
2.	ETP sludge	80	Shall be composed with spent wash
3.	Yeast sludge	960	Shall be composted with press mud and bio-methanated and concentrate spent wash
4.	Boiler Ash	750	Shall be closed and sold to farmers/brick manufacturer.

X. HAZARDOUS & OTHER WASTE (MANAGEMENT & TRANSBOUNDARY MOVEMENT) RULES 2016

The applicant shall comply with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. The applicant shall store the hazardous waste in dedicate storage area.

XI. GENERAL CONDITIONS:

1. The applicant shall not store any raw materials on naked ground. The applicant shall construct impervious dyke walls/tank form for storage tanks constructed above ground level.
2. The applicant shall maintain register recording the ambient air quality, stack monitoring and analysis report of treated effluents. The register shall be open for inspection by the Board Officers at all time.
3. The applicants shall submit point wise compliance report to the consent conditions within 30 days.
4. The applicant shall submit structural safety audit reports of all the tanks/equipment/ETP units etc., used for treating/storage/of effluents/molasses/spent wash etc., once in year through a competent authority.

XII. CONDITIONS IMPOSED BY MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE:

1. Industry shall comply the following Directions issued by CPCB to the Karnataka State Pollution Control Board, vide NO.B-29016/04/06/ PCII/5401 Dated:5.2.2014 and NO.B-29016/04/06/PCI-I/7187 Dated:2.3.2015.
2. Industry shall install Online continuous Stack Emission Monitoring Systems(CSEMS) for the measurement of emissions (Industry/Sector Specific parameter) like,PM,NOx,SO2,Co etc.


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3. Industry shall install Online Effluent quality monitoring system at the outlet of effluent treatment plants for the measurement of parameters (Industry/Sector specific parameter) like flow, pH, BOD, COD, and TSS etc. Industry shall provide Online emission and effluent monitoring data shall be connected and uploaded to Board's and Central Pollution Control Board's Server.
4. Once in a month by 5th, the max, min & Average values and also the number of time, the exigencies recorded shall be submitted to Concerned Regional office of KSPCB.

XIII Ministry of Environment & Forest & Climate Change has issued a Notification on 23rd November 2016, in respect of industries who are exempted from ministry for obtaining prior Environmental Clearance for expansion or modernization or change of product mix in the existing projects. In the said notification, it is directed to constitute a "Technical Committee" for evaluating such proposals submitted to State Pollution Control Board for obtaining Consents. Accordingly the Karnataka State Pollution Control Board has Constituted a Technical Committee vide dated: 22.2.2017 for scrutiny of such application received for "No increase in Pollution Load" Certification. The applicants who desires to claim "No increase in Pollution Load" Certificate shall submit the application to the respective Regional Officer, in the prescribed format, to examine before the above Committee in accordance with the procedure laid down in the 23rd November 2016 Notification.

XIV. Ministry of Environment, Forest and Climate Change has published Notification on 14.3.2017 for finalizing the process for apprised of projects for grant of Terms of Reference and Environmental Clearance, which have started the work on site, expanded the production beyond the limit of environmental clearance or changed the product mix without obtaining prior environmental clearance under the Environment Impact Assessment Notification, 2006. As per the said notification the Central Government directs that the projects or activities or the expansion or modernization of existing projects or activities requiring prior environmental clearance under the Environment Impact Assessment Notification, 2006 entailing capacity addition with change in process or technology or both undertaken in any part of India without obtaining prior environmental clearance from the Central Government or by the State Level Environment Impact Assessment Authority, as the case may be, duly constituted by the Central Government under sub-section (3) of section 3 of the said Act, shall be considered a case of violation of the Environment Impact Assessment Notification, 2006 and will be dealt strictly as per the procedure specified in the following manner:-

- a. In case the Projects or activities requiring prior Environmental clearance Environment Impact Assessment Notification, 2006 from the concerned Regulatory Authority brought for environmental clearance after starting the construction work, or have undertaken expansion, modernization, and change in product mix without prior environmental clearance, these projects shall be treated as cases of violations and in such cases, even Category B projects which are granted environmental clearance by the State Environment Impact assessment Authority constituted under sub-section (3) section 3 of the Environment (Protection) Act, 1986 shall be apprised for grant of environmental clearance only by the Expert Appraisal Committee and environmental clearance will be granted at the Central level.


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- b. In cases of violation, action will be taken against the project proponent by the respective state or state pollution Control Board under the provisions of section 19 of the environment (protection) Act, 1986 and further, no consent to operate or occupancy certificates will be issued till the project is granted the environmental clearance.
- c. The cases of violation will be apprised by respective sector Expert Appraisal Committee constituted under sub-section (3) of Section 3 of the Environment(Protection) Act, 1986 with a view to assess that the project the project has been constructed at a site which under prevailing laws is permissible and expansion has been done which can be run sustainably under compliance of environmental norms with adequate environmental safe guards, and in case, where the finding of the Expert Appraisal Committee to negative, closure of the project will be recommended along with other actions under the law.
- d. In case, where the findings of the Expert Appraisal Committee on point at sub-Para (3) above are affirmative, the projects under this category will be prescribed the appropriate terms of Reference for undertaking Environmental impact Assessment and preparation of Environment Management Plan. Further, the expert Appraisal Committee will prescribe a specific Terms and reference for the project on assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter in the environment impact assessment report by the accredited consultants. The collection and analysis of data for assessment of ecological damage, preparation of remediation plan and natural and community resource augmentation plan shall be done by an environmental laboratory duly notified under Environment (Protection) Act, 1986, or a environmental laboratory accredited by National accreditation Board for testing and calibration Laboratories, or a laboratory of a Council of Scientific and Industrial research institution working in the field of environment.
- e. The Expert Appraisal Committee shall stipulate the implementation of Environmental Management Plan, comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of environment clearance.
- f. The project proponent will be required to submit a bank guarantee equivalent to the amount of remediation plan and Natural and Community Resource Augmentation Plan with the State Pollution Control Board and the quantification will be recommended by Expert Appraisal Committee and finalized by Regularity
- g. Authority and the bank guarantee shall be deposited prior to the grant of environmental clearance and will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regularity Authority. The projects or activities which are in violation as on date of this notification only will be eligible to apply for environmental clearance under this notification only within six months from the date of this notification.

XV G.S.R. 96(E).- Whereas, a draft notification, for industrial boilers (fuel wise) was published in the Gazette of India, Extraordinary, vide notification of the Government of India in the erstwhile Ministry of Environment, Forest and Climate change vide no.

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G.S.R. 1343 (E), dated the 25th October, 2017, inviting objections and suggestions from all persons likely to be affected thereby within a period of sixty days from the date on which copies of the Gazette containing the said notification were made available to the public;

And whereas, copies of the Gazette were made available to the public dated 25th October, 2017; And Whereas, all objections and suggestions received from all persons and stakeholders in response to the draft notification have been duly considered by the Central Government;

NOW THEREFORE, in exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986) read with sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:-

Short title and commencement :-

(1) These rules may be called the Environment (Protection) Amendment Rules, 2018.

(2) They shall come into force on the date of their final publication in the Official Gazette. In the Environment (Protection) Rules, 1986, in Schedule-1, after serial number 105 and the entries relating thereto, the following serial number and entries shall be inserted, namely:-

Sl.No	Type of industrial boiler (fuel wise)	Standards	
		SO ₂	NO _x
106	Agro based fuel*	-	-
106A	Natural gas*	-	-
106B	Other fuels**	600 mg/Nm ³ at 6% dry O ₂ , for solid fuel and 3% dry O ₂ for liquid fuel	300 mg/Nm ³ at 6% dry O ₂ , for solid fuel and 3% dry O ₂ for liquid fuel

The boiler used in the industries, namely (1) sugars (2) cotton textiles (3) composite woolen mills (4) synthetic rubber (5) pulp and paper (6) distilleries (7) leather industries (8) calcium carbide (9) carbon black (10) natural rubber (11) asbestos (12) caustic soda (13) small boilers (14) aluminum plants (15) tannery (16) Inorganic Chemical and other such industries using boilers, shall adhere to emission norms in the said notification.

“*” It is required to meet stack height criteria notified vide G.S.R. 176(E), dated the 2nd April, 1996.

“**” The emissions from such industries need to be monitored and, all such industries as referred at Sl. No. 105C of the Table would be required to install online monitoring system as per online monitoring mechanism put in place by Central Pollution Control Board from time to time.

Note:

For captive power plants using Solid fuels such as coal, lignite, etc. the emission limit Notified for Thermal Power Plants vide notification no S. O. 3305 (E), dated 7th December, 2015 shall be applicable.

The standards set herein will not apply to any ban or restriction put in place by Competent Authority and for non-attainment cities, State Pollution Control Board or Pollution Control Committee may regulate or ban use of Pet Coke and Furnace Oil on the basis available data.

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MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986

(Certified by ISO 14001-2015, ISO 22000-2018, ISO 45001-2018, 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)

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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2020/504

Issued Date: 15.06.2020

- M/s. Athani Sugars Limited**
1. Name of the Project : **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 : **10.06.2020**
6. Analysis Starting Date : **11.06.2020**
7. Analysis Completion Date : **15.06.2020**
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	µg/m ³	8 hrs	52.40	100
2	Particulate Matter or PM _{2.5}	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	µg/m ³	8 hrs	21.71	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2) - 2001	µg/m ³	8 hrs	7.08	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	µg/m ³	8 hrs	15.34	80
5	Ozone as O ₃	IS 5182(part-9)1974	µg/m ³	1 hrs	BDL	180
6	Lead	IS-5182(Part22) - 2004	µg/m ³	8 hrs	BDL	1
7	Carbon Monoxide as CO	LAB SOP: MSVAL/SOP/A/07, Dt: 2.7.2012	mg/m ³	-	1.50	4
8	Ammonia as NH ₃	LAB SOP: MSVAL/SOP/A/06, Dt: 2.7.2012	µg/m ³	1 hrs	6.30	400
9	Benzene as C ₆ H ₆	IS-5182(part 11) - 2006	µg/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 µg/m³, Lead-0.04 µg/m³, Benzene-3.6 µg/m³, Benzo (α) Pyrene (BaP)-0.1 ng/m³, Arsenic-3.5 ng/m³, Nickel-10 ng/m³)

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

Verified by



Authorized Signature

Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months 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.

3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an asterisk are not accredited by NABL.



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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2020/505

Issued Date: 15.06.2020

- M/s. Athani Sugars Limited**
1. Name of the Project : Vishnuannanagar, Post: Navalihah, 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 : 10.06.2020
6. Analysis Starting Date : 11.06.2020
7. Analysis Completion Date : 15.06.2020
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	µg/m ³	8 hrs	44.70	100
2	Particulate Matter or PM _{2.5}	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	µg/m ³	8 hrs	16.28	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	µg/m ³	8 hrs	6.92	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	µg/m ³	8 hrs	14.59	80
5	Ozone as O ₃	IS 5182(part-9)1974	µg/m ³	1 hrs	BDL	180
6	Lead	IS-5182(Part22) - 2004	µg/m ³	8 hrs	BDL	1
7	Carbon Monoxide as CO	LAB SOP: MSVAL/SOP/A/07, Dt: 2.7.2012	mg/m ³	-	BDL	4
8	Ammonia as NH ₃	LAB SOP: MSVAL/SOP/A/06, Dt: 2.7.2012	µg/m ³	1 hrs	6.20	400
9	Benzene as C ₆ H ₆	IS:5182(part 11) - 2006	µg/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 µg/m³, Lead-0.04 µg/m³, Benzene-3.6 µg/m³, Benzo (α) Pyrene (BaP)-0.1 ng/m³, Arsenic-3.5 ng/m³, Nickel-10 ng/m³, Carbon Monoxide-1.5mg/m³)

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

Verified by



Authorized Signature

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.

3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720720000007948F

Issued Date: 15.06.2020

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 : 10.06.2020
6. Analysis Starting Date : 11.06.2020
7. Analysis Completion Date : 15.06.2020
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	10.06.2020
Fuel Used	Coal
Stack Temperature ($^{\circ}$ C)	121
Velocity (m/s)	7.92
Height (m)	42
Diameter (m)	1.8

RESULTS

PARAMETERS	PROTOCOL	UNIT	RESULT	KSPCB STANDARDS
Particulate Matter	IS-11255(Part 1) - 1985	mg/Nm ³	143.50	150
Sulphur dioxide	IS-11255(Part 2) - 1985	mg/Nm ³	12.31	-
Nitrogen dioxide	IS-11255(Part 7) - 2005	mg/Nm ³	27.06	-

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

Verified by

Authorized Signature



Note : 1. The results listed only to the tested samples & applicable parameters.
2. Water samples will be destroyed after 10 days. Filter papers & Thimbles will be destroyed 3 months 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.
3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.
4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.
5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an * are not accredited by NABL.



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MSVAL/A/F/17/04

NOISE LEVEL MONITORING REPORT

Test Report No: TC720720000007956F

Issued Date: 15.06.2020

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 : 10.06.2020
5. Report Date : 15.06.2020
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	10.30am to 10.45am	66.7	68.6	67.6	75 (6.00am to 10.00pm)
2	Near Guest House	10.50am to 11.15am	68.3	69.4	68.8	
3	Near Compost Yard	11.20am to 11.35am	69.1	70.4	69.7	
4	Near Cane Carrier	11.40am to 11.55am	70.9	72.6	71.7	

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

Verified by

Authorized Signature



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.
3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.
4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.
5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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MSVAL/A/F/17/04

NOISE LEVEL MONITORING REPORT

Test Report No: TC720720000007957F

Issued Date: 15.06.2020

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 : 10.06.2020
5. Report Date : 15.06.2020
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	10.10pm to 10.25pm	65.8	67.7	66.7	70 (10.00pm to 6.00am)
2	Near Guest House	10.35pm to 10.50pm	65.0	67.5	66.2	
3	Near Compost Yard	11.05pm to 11.20pm	67.7	69.3	68.5	
4	Near Cane Carrier	11.25pm to 11.40pm	66.9	68.8	67.8	

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

Verified by

Authorized Signature



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

MSVAL/A/F/18/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2020/508

Issued Date: 15.06.2020

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 : 10.06.2020
7. Analysis Starting date : 11.06.2020
8. Analysis Completion Date : 15.06.2020
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 23 rd Edition-2017,2540 C	mg/L	1112.7	500	2000
4	pH @ 25 ^o C	APHA 23 rd Edition-2017,4500 H+	-	7.58	6.5 – 8.5	6.5 – 8.5
5	Turbidity, Max	APHA 23 rd EDITION-2017, 2530 B	NTU	0.78	1	5
Chemical Parameters					REQUIREMENTS	
6	Total Alkalinity as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2320 B	mg/L	280.0	200	600
7	Total Hardness as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2340 C	mg/L	589.5	200	600
8	Nitrate Nitrogen (as NO ₃ N), Max	APHA 23 rd EDITION-2017, 4500 NO ₃	mg/L	2.8	45	No relaxation
9	Chloride (as Cl), Max	APHA 23 rd EDITION-2017, 4500-Cl, B	mg/L	500.0	250	1000
10	Sulphate (as SO ₄), Max	APHA 23 rd EDITION-2017, 4500 SO ₄	mg/L	134.6	200	400
11	Calcium (as Ca), Max	APHA 23 rd EDITION-2017, 3500 Ca, B	mg/L	142.8	75	200
12	Magnesium (as Mg), Max	APHA 23 rd EDITION-2017, 3500-Mg, B	mg/L	71.3	30	100
13	Fluoride (as F), Max	APHA 23 rd EDITION-2017, 4500-F, D	mg/L	0.58	1.0	1.5
14	Iron (as Fe), Max	APHA 23 rd 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

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

Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water samples will be destroyed after 10 days. Filter papers & Thimbles will be destroyed 3 months 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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E-mail : msv.lab01@gmail.com, labmsv@gmail.com, Website : www.msvlabellary.com

MSVAL/A/F/18/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2020/507

Issued Date: 15.06.2020

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 : 10.06.2020
7. Analysis Starting date : 11.06.2020
8. Analysis Completion Date : 15.06.2020
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	1948.0	500	2000
4	pH @ 25 ^o C	APHA 23 rd Edition-2017,4500 H+	-	7.61	6.5 – 8.5	6.5 – 8.5
5	Turbidity, Max	APHA 23 rd EDITION-2017, 2530 B	NTU	0.45	1	5
Chemical Parameters					REQUIREMENTS	
6	Total Alkalinity as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2320 B	mg/L	300.0	200	600
7	Total Hardness as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2340 C	mg/L	452.9	200	600
8	Nitrate Nitrogen (as NO ₃ N), Max	APHA 23 rd EDITION-2017, 4500 NO ₃	mg/L	4.1	45	No relaxation
9	Chloride (as Cl), Max	APHA 23 rd EDITION-2017, 4500-Cl ⁻ ,B	mg/L	251.7	250	1000
10	Sulphate (as SO ₄), Max	APHA 23 rd EDITION-2017, 4500 So ₄	mg/L	135.2	200	400
11	Calcium (as Ca), Max	APHA 23 rd EDITION-2017, 3500 Ca ⁺⁺ ,B	mg/L	138.7	75	200
12	Magnesium (as Mg), Max	APHA 23 rd EDITION-2017, 3500-Mg, B	mg/L	69.3	30	100
13	Fluoride (as F), Max	APHA 23 rd EDITION-2017, 4500-F ⁻ ,D	mg/L	0.52	1.0	1.5
14	Iron (as Fe), Max	APHA 23 rd EDITION-2017, 3500-Fe ⁺⁺ ,B	mg/L	0.02	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						

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

Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water samples will be destroyed after 10 days. Filter papers & Thimbles will be destroyed 3 months 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/2020/1320

Issued Date: 11.07.2020

- M/s. Athani Sugars Limited**
- Name of the Project : **Vishnuannanagar, Post: Navalihal, Tq: Athani, Dist: Belgaum - 591234**
 - Name of the location : **Near Main Gate**
 - Sample Collected By : **MSV Analytical Laboratories**
 - Particulars of the sample collected : **Sample collected with RDS 460BL/Fine Particulate Sampler/CO Analyzer & Benzene sampler**
 - Date of Sample Receipt : **07.07.2020**
 - Analysis Starting Date : **08.07.2020**
 - Analysis Completion Date : **11.07.2020**
 - 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	µg/m ³	8 hrs	46.35	100
2	Particulate Matter or PM _{2.5}	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	µg/m ³	8 hrs	14.02	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	µg/m ³	8 hrs	7.21	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	µg/m ³	8 hrs	17.34	80
5	Ozone as O ₃	IS 5182(part-9)1974	µg/m ³	1 hrs	BDL	180
6	Lead	IS-5182(Part22) - 2004	µg/m ³	8 hrs	BDL	1
7	Carbon Monoxide as CO	LAB SOP: MSVAL/SOP/A/07, Dt: 2.7.2012	mg/m ³	-	1.62	4
8	Ammonia as NH ₃	LAB SOP: MSVAL/SOP/A/06, Dt: 2.7.2012	µg/m ³	1 hrs	6.40	400
9	Benzene as C ₆ H ₆	IS:5182(part 11) - 2006	µg/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 µg/m³, Lead-0.04 µg/m³, Benzene-3.6 µg/m³, Benzo (α) Pyrene (BaP)-0.1 ng/m³, Arsenic-3.5 ng/m³, Nickel-10 ng/m³)

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

Verified by



Authorized Signature

Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months 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/2020/1321

Issued Date: 11.07.2020

- M/s. Athani Sugars Limited**
1. Name of the Project : **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 : **07.07.2020**
6. Analysis Starting Date : **08.07.2020**
7. Analysis Completion Date : **11.07.2020**
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	µg/m ³	8 hrs	58.50	100
2	Particulate Matter or PM _{2.5}	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	µg/m ³	8 hrs	17.12	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	µg/m ³	8 hrs	6.71	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	µg/m ³	8 hrs	15.09	80
5	Ozone as O ₃	IS 5182(part-9)1974	µg/m ³	1 hrs	BDL	180
6	Lead	IS-5182(Part22) - 2004	µg/m ³	8 hrs	BDL	1
7	Carbon Monoxide as CO	LAB SOP: MSVAL/SOP/A/07, Dt: 2.7.2012	mg/m ³	-	1.52	4
8	Ammonia as NH ₃	LAB SOP: MSVAL/SOP/A/06, Dt: 2.7.2012	µg/m ³	1 hrs	7.19	400
9	Benzene as C ₆ H ₆	IS:5182(part 11) - 2006	µg/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 µg/m³, Lead-0.04 µg/m³, Benzene-3.6 µg/m³, Benzo (α) Pyrene (BaP)-0.1 ng/m³, Arsenic-3.5 ng/m³, Nickel-10 ng/m³, Carbon Monoxide-1.5mg/m³)

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

Verified by



Authorized Signature

Note: 1. The results listed only to the tested samples & applicable parameters.

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

MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2020/1322

Issued Date: 11.07.2020

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 : 07.07.2020
6. Analysis Starting Date : 08.07.2020
7. Analysis Completion Date : 11.07.2020
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	07.07.2020
Fuel Used	Coal
Stack Temperature (^o C)	126
Velocity (m/s)	7.88
Height (m)	42
Diameter (m)	1.8

RESULTS

PARAMETERS	PROTOCOL	UNIT	RESULT	KSPCB STANDARDS
Particulate Matter	IS-11255(Part 1) - 1985	mg/Nm ³	146.02	150
Sulphur dioxide	IS-11255(Part 2) - 1985	mg/Nm ³	14.91	-
Nitrogen dioxide	IS-11255(Part 7) - 2005	mg/Nm ³	34.66	-

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

Verified by

Authorized Signature



Note : 1. The results listed only to the tested samples & applicable parameters.

2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months 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/17/04

NOISE LEVEL MONITORING REPORT

Test Report No: MSVAL/2020/1331

Issued Date: 11.07.2020

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 : 07.07.2020
5. Report Date : 11.07.2020
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	10.20am to 10.35am	66.4	68.3	67.3	75 (6.00am to 10.00pm)
2	Near Guest House	10.40am to 11.55am	63.2	65.1	64.1	
3	Near Compost Yard	11.00am to 11.15am	69.3	70.1	69.7	
4	Near Cane Carrier	11.20am to 11.35am	70.9	71.6	71.2	

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

Verified by

Authorized Signature



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/17/04

NOISE LEVEL MONITORING REPORT

Test Report No: MSVAL/2020/1332

Issued Date: 11.07.2020

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 : 07.07.2020
5. Report Date : 11.07.2020
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	10.00pm to 10.15pm	66.8	67.4	67.1	70 (10.00pm to 6.00am)
2	Near Guest House	10.20pm to 10.35pm	62.9	63.0	62.9	
3	Near Compost Yard	10.40pm to 10.55pm	66.8	68.1	67.4	
4	Near Cane Carrier	11.00pm to 11.15pm	67.0	69.1	68.0	

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

Verified by

Authorized Signature



Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months 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/18/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2020/1324

Issued Date: 11.07.2020

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 : 07.07.2020
7. Analysis Starting date : 08.07.2020
8. Analysis Completion Date : 11.07.2020
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 23 rd Edition-2017,2540 C	mg/L	968.0	500	2000
4	pH @ 25 ^o C	APHA 23 rd Edition-2017,4500 H+	-	7.54	6.5 – 8.5	6.5 – 8.5
5	Turbidity, Max	APHA 23 rd EDITION-2017, 2530 B	NTU	0.92	1	5
Chemical Parameters					REQUIREMENTS	
6	Total Alkalinity as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2320 B	mg/L	238.0	200	600
7	Total Hardness as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2340 C	mg/L	410.0	200	600
8	Nitrate Nitrogen (as NO ₃ N), Max	APHA 23 rd EDITION-2017, 4500 NO ₃	mg/L	3.5	45	No relaxation
9	Chloride (as Cl), Max	APHA 23 rd EDITION-2017, 4500-Cl ⁻ ,B	mg/L	213.9	250	1000
10	Sulphate (as SO ₄), Max	APHA 23 rd EDITION-2017, 4500 So ₄	mg/L	91.9	200	400
11	Calcium (as Ca), Max	APHA 23 rd EDITION-2017, 3500 Ca ²⁺ ,B	mg/L	67.7	75	200
12	Magnesium (as Mg), Max	APHA 23 rd EDITION-2017, 3500-Mg, B	mg/L	58.5	30	100
13	Fluoride (as F), Max	APHA 23 rd EDITION-2017, 4500-F ⁻ /D	mg/L	0.64	1.0	1.5
14	Iron (as Fe), Max	APHA 23 rd EDITION-2017, 3500-Fe ²⁺ ,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

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

Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water samples will be destroyed after 10 days. Filter papers & Thimbles will be destroyed 3 months 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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5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an asterisk are not accredited by NABL.



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Sanganakallu Road, KEB Circle, Ballari - 583103 **Contact No :** Mob : 94498 03895, (0) : 08392-255169,

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

MSVAL/A/F/18/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2020/1323

Issued Date: 11.07.2020

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 : 07.07.2020
7. Analysis Starting date : 08.07.2020
8. Analysis Completion Date : 11.07.2020
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	858.0	500	2000
4	pH @ 25 th C	APHA 23 rd Edition-2017,4500 H+	-	7.55	6.5 – 8.5	6.5 – 8.5
5	Turbidity, Max	APHA 23 rd EDITION-2017, 2530 B	NTU	0.81	1	5
Chemical Parameters					REQUIREMENTS	
6	Total Alkalinity as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2320 B	mg/L	225.0	200	600
7	Total Hardness as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2340 C	mg/L	412.0	200	600
8	Nitrate Nitrogen (as NO ₃ N), Max	APHA 23 rd EDITION-2017, 4500 NO ₃	mg/L	5.50	45	No relaxation
9	Chloride (as Cl), Max	APHA 23 rd EDITION-2017, 4500-Cl ⁻ , B	mg/L	222.9	250	1000
10	Sulphate (as SO ₄), Max	APHA 23 rd EDITION-2017, 4500 So ₄	mg/L	153.5	200	400
11	Calcium (as Ca), Max	APHA 23 rd EDITION-2017, 3500 Ca ,B	mg/L	49.7	75	200
12	Magnesium (as Mg), Max	APHA 23 rd EDITION-2017, 3500-Mg, B	mg/L	69.9	30	100
13	Fluoride (as F), Max	APHA 23 rd EDITION-2017, 4500-F, D	mg/L	0.61	1.0	1.5
14	Iron (as Fe), Max	APHA 23 rd 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						

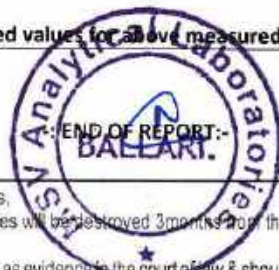
BDL - Below Detectable Limit, (Colour-<1 Hazen Units, Iron-0.05mg/L), ND - Not Detected in 100ml sample

INFERENCE

As per IS 10500:2012 Standards,

Report Status: - The analyzed values for above measured parameters are within the limits.

Verified by



Authorized Signature

Note: 1. The results listed only to the tested samples & applicable parameters.

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

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2020/2610

Issued Date: 31.08.2020

1.	Name of the Project	:	M/s. Athani Sugars Limited
2.	Name of the location	:	Vishnuannanagar, Post: Navalihal, Tq: Athani,
3.	Sample Collected By	:	Dist: Belgaum - 591234
4.	Particulars of the sample collected	:	Near Main Gate
5.	Date of Sample Receipt	:	MSV Analytical Laboratories
6.	Analysis Starting Date	:	Sample collected with RDS 460BL/Fine Particulate
7.	Analysis Completion Date	:	Sampler/CO Analyzer & Benzene sampler
8.	Sample Tested as Received	:	25.08.2020
		:	26.08.2020
		:	31.08.2020

RESULTS

S.NO	PARAMETERS	PROTOCOLS	UNITS	DURATION OF MONITORING	RESULTS	NAAQ STANDARDS
1	Particulate Matter PM ₁₀	IS-5182(Part-23) - 2006	µg/m ³	8 hrs	56.18	100
2	Particulate Matter or PM _{2.5}	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	µg/m ³	8 hrs	19.24	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	µg/m ³	8 hrs	7.73	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	µg/m ³	8 hrs	16.44	80
5	Ozone as O ₃	IS 5182(part-9)1974	µg/m ³	1 hrs	BDL	180
6	Lead	IS-5182(Part22) - 2004	µg/m ³	8 hrs	BDL	1
7	Carbon Monoxide as CO	LAB SOP: MSVAL/SOP/A/07, Dt: 2.7.2012	mg/m ³	-	1.90	4
8	Ammonia as NH ₃	LAB SOP: MSVAL/SOP/A/06, Dt: 2.7.2012	µg/m ³	1 hrs	7.15	400
9	Benzene as C ₆ H ₆ *	IS:5182(part 11) - 2006	µg/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 µg/m³, Lead-0.04 µg/m³, Benzene-3.6 µg/m³, Benzo (α) Pyrene (BaP)-0.1 ng/m³, Arsenic-3.5 ng/m³, Nickel-10 ng/m³)

INFERENCE

As per NAAQ Standards

Report Status :- The analyzed value for above measured parameter is within the limits

Verified by



Authorized Signature

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/2020/2611

Issued Date: 31.08.2020

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	:	25.08.2020
6.	Analysis Starting Date	:	26.08.2020
7.	Analysis Completion Date	:	31.08.2020
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	µg/m ³	8 hrs	61.49	100
2	Particulate Matter or PM _{2.5}	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	µg/m ³	8 hrs	20.52	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2) - 2001	µg/m ³	8 hrs	6.83	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	µg/m ³	8 hrs	15.91	80
5	Ozone as O ₃	IS 5182(part-9)1974	µg/m ³	1 hrs	BDL	180
6	Lead	IS-5182(Part22) - 2004	µg/m ³	8 hrs	BDL	1
7	Carbon Monoxide as CO	LAB SOP: MSVAL/SOP/A/07, Dt: 2.7.2012	mg/m ³	-	1.66	4
8	Ammonia as NH ₃	LAB SOP: MSVAL/SOP/A/06, Dt: 2.7.2012	µg/m ³	1 hrs	6.84	400
9	Benzene as C ₆ H ₆	IS-5182(part 11) - 2006	µg/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 µg/m³, Lead-0.04 µg/m³, Benzene-3.6 µg/m³, Benzo (α) Pyrene (BaP)-0.1 ng/m³, Arsenic-3.5 ng/m³, Nickel-10 ng/m³, Carbon Monoxide-1.5mg/m³)

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

Verified by



Authorized Signature

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

MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2020/2612

Issued Date: 31.08.2020

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 : 25.08.2020
6. Analysis Starting Date : 26.08.2020
7. Analysis Completion Date : 31.08.2020
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	25.08.2020
Fuel Used	Coal
Stack Temperature (°C)	124
Velocity (m/s)	7.76
Height (m)	42
Diameter (m)	1.8

RESULTS

PARAMETERS	PROTOCOL	UNIT	RESULT	KSPCB STANDARDS
Particulate Matter	IS-11255(Part 1) - 1985	mg/Nm ³	137.52	150
Sulphur dioxide	IS-11255(Part 2) - 1985	mg/Nm ³	13.29	-
Nitrogen dioxide	IS-11255(Part 7) - 2005	mg/Nm ³	31.54	-

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

Verified by



Authorized Signature

Note: 1. The results listed only to the tested samples & applicable parameters;

2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months 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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E-mail : msv.lab01@gmail.com, labmsv@gmail.com, **Website :** www.msvbellary.com

MSVAL/A/F/17/04

NOISE LEVEL MONITORING REPORT

Test Report No: MSVAL/2020/2613

Issued Date: 31.08.2020

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 : 25.08.2020
5. Report Date : 31.08.2020
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	09.50am to 10.05am	64.1	67.5	65.8	75 (6.00am to 10.00pm)
2	Near Guest House	10.20am to 10.35am	54.9	58.3	56.6	
3	Near Compost Yard	11.10am to 11.25am	68.1	71.6	69.8	
4	Near Cane Carrier	11.40am to 11.55am	66.8	70.2	68.5	

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

Verified by



Authorized Signature

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

MSVAL/A/F/17/04

NOISE LEVEL MONITORING REPORT

Test Report No: MSVAL/2020/2614

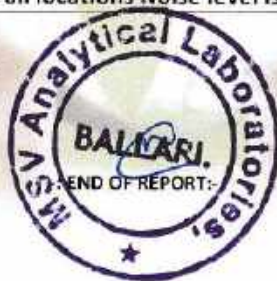
Issued Date: 31.08.2020

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 : 25.08.2020
5. Report Date : 31.08.2020
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	10.05pm to 10.20pm	60.7	62.9	61.8	70 (10.00pm to 6.00am)
2	Near Guest House	10.30pm to 10.45pm	52.5	57.1	54.8	
3	Near Compost Yard	10.50pm to 11.05pm	64.9	67.1	66.0	
4	Near Cane Carrier	11.15pm to 11.30pm	63.2	65.8	64.5	

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

Verified by



Authorized Signature

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

MSVAL/A/F/18/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2020/2615

Issued Date: 31.08.2020

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 : **25.08.2020**
7. Analysis Starting date : **26.08.2020**
8. Analysis Completion Date : **31.08.2020**
9. Sample Tested as Received

RESULTS

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 23 rd Edition-2017,2540 C	mg/L	1030.0	500	2000
4	pH @ 25 ^o C	APHA 23 rd Edition-2017,4500 H+	-	7.42	6.5 – 8.5	6.5 – 8.5
5	Turbidity, Max	APHA 23 rd EDITION-2017, 2530 B	NTU	1.22	1	5
Chemical Parameters					REQUIREMENTS	
6	Total Alkalinity as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2320 B	mg/L	274.0	200	600
7	Total Hardness as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2340 C	mg/L	453.5	200	600
8	Nitrate Nitrogen (as NO ₃ N), Max	APHA 23 rd EDITION-2017, 4500 NO ₃	mg/L	4.10	45	No relaxation
9	Chloride (as Cl), Max	APHA 23 rd EDITION-2017, 4500-Cl ,B	mg/L	240.8	250	1000
10	Sulphate (as SO ₄), Max	APHA 23 rd EDITION-2017, 4500 So ₄	mg/L	121.6	200	400
11	Calcium (as Ca), Max	APHA 23 rd EDITION-2017, 3500 Ca ,B	mg/L	74.2	75	200
12	Magnesium (as Mg), Max	APHA 23 rd EDITION-2017, 3500-Mg, B	mg/L	65.12	30	100
13	Fluoride (as F), Max	APHA 23 rd EDITION-2017, 4500-F, D	mg/L	0.51	1.0	1.5
14	Iron (as Fe), Max	APHA 23 rd 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	

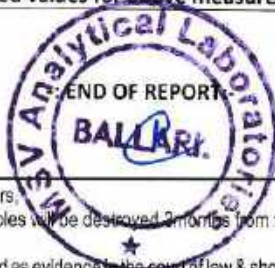
BDL – Below Detectable Limit, (Colour- <1 Hazen Units, Iron-0.05mg/L), ND – Not Detected in 100ml sample

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



Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months 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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4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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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.msvlabellary.com

MSVAL/A/F/18/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2020/2616

Issued Date: 31.08.2020

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 : 25.08.2020
7. Analysis Starting date : 26.08.2020
8. Analysis Completion Date : 31.08.2020
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 23 rd Edition-2017,2540 C	mg/L	928.0	500	2000
4	pH @ 25 ^o C	APHA 23 rd Edition-2017,4500 H+	-	7.62	6.5 – 8.5	6.5 – 8.5
5	Turbidity, Max	APHA 23 rd EDITION-2017, 2530 B	NTU	1.04	1	5
Chemical Parameters					REQUIREMENTS	
6	Total Alkalinity as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2320 B	mg/L	268.4	200	600
7	Total Hardness as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2340 C	mg/L	410.2	200	600
8	Nitrate Nitrogen (as NO ₃ N), Max	APHA 23 rd EDITION-2017, 4500 NO ₃	mg/L	5.19	45	No relaxation
9	Chloride (as Cl), Max	APHA 23 rd EDITION-2017, 4500-Cl ,B	mg/L	189.4	250	1000
10	Sulphate (as SO ₄), Max	APHA 23 rd EDITION-2017, 4500 So ₄	mg/L	146.1	200	400
11	Calcium (as Ca), Max	APHA 23 rd EDITION-2017, 3500 Ca ,B	mg/L	66.9	75	200
12	Magnesium (as Mg), Max	APHA 23 rd EDITION-2017, 3500-Mg, B	mg/L	59.04	30	100
13	Fluoride (as F), Max	APHA 23 rd EDITION-2017, 4500-F, D	mg/L	0.61	1.0	1.5
14	Iron (as Fe), Max	APHA 23 rd 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

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

- Note: 1. The results listed only to the tested samples & applicable parameters.
2. Water samples will be destroyed after 10 days, Filter papers & Thinners will be destroyed 3 months 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.
3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.
4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Ballari Jurisdiction only.
5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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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.msvlaballary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2020/3951

Issued Date: 27.10.2020

1. Name of the Project	:	M/s. Athani Sugars Limited
2. Name of the location	:	Vishnuannanagar, Post: Navalihah, Tq: Athani,
3. Sample Collected By	:	Dist: Belgaum - 591234
4. Particulars of the sample collected	:	Near Main Gate
5. Date of Sample Receipt	:	MSV Analytical Laboratories
6. Analysis Starting Date	:	Sample collected with RDS 460BL/Fine Particulate
7. Analysis Completion Date	:	Sampler/CO Analyzer & Benzene sampler
8. Sample Tested as Received	:	20.10.2020
	:	21.10.2020
	:	27.10.2020

RESULTS

S.NO	PARAMETERS	PROTOCOLS	UNITS	DURATION OF MONITORING	RESULTS	NAAQ STANDARDS
1	Particulate Matter PM ₁₀	IS-5182(Part-23) - 2006	µg/m ³	8 hrs	68.20	100
2	Particulate Matter or PM _{2.5}	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	µg/m ³	8 hrs	21.48	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2) - 2001	µg/m ³	8 hrs	7.25	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	µg/m ³	8 hrs	16.09	80
5	Ozone as O ₃	IS-5182(part-9)1974	µg/m ³	1 hrs	BDL	180
6	Lead	IS-5182(Part22) - 2004	µg/m ³	8 hrs	BDL	1
7	Carbon Monoxide as CO	LAB SOP: MSVAL/SOP/A/07, Dt: 2.7.2012	mg/m ³	-	1.75	4
8	Ammonia as NH ₃	LAB SOP: MSVAL/SOP/A/06, Dt: 2.7.2012	µg/m ³	1 hrs	7.82	400
9	Benzene as C ₆ H ₆	IS-5182(part-11) - 2006	µg/m ³	8 hrs	BDL	5
10	Benzo (a) 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 µg/m³, Lead-0.04 µg/m³, Benzene-3.6 µg/m³, Benzo (a) Pyrene (BaP)-0.1 ng/m³, Arsenic-3.5 ng/m³, Nickel-10 ng/m³)

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

Verified by

Rafin



Authorized Signature

Pemle

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.

3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Ballary Jurisdiction only.

5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2020/3952

Issued Date: 27.10.2020

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 : 20.10.2020
6. Analysis Starting Date : 21.10.2020
7. Analysis Completion Date : 27.10.2020
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	µg/m ³	8 hrs	59.62	100
2	Particulate Matter or PM _{2.5}	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	µg/m ³	8 hrs	24.08	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2) - 2001	µg/m ³	8 hrs	7.19	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	µg/m ³	8 hrs	16.36	80
5	Ozone as O ₃	IS 5182(part-9)1974	µg/m ³	1 hrs	BDL	180
6	Lead	IS-5182(Part22) - 2004	µg/m ³	8 hrs	BDL	1
7	Carbon Monoxide as CO	LAB SOP: MSVAL/SOP/A/07, Dt: 2.7.2012	mg/m ³	-	1.22	4
8	Ammonia as NH ₃	LAB SOP: MSVAL/SOP/A/06, Dt: 2.7.2012	µg/m ³	1 hrs	8.04	400
9	Benzene as C ₆ H ₆ *	IS-5182(part 11) - 2006	µg/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 µg/m³, Lead-0.04 µg/m³, Benzene-3.6 µg/m³, Benzo (α) Pyrene (BaP)-0.1 ng/m³, Arsenic-3.5 ng/m³, Nickel-10 ng/m³, Carbon Monoxide-1.5mg/m³)

INFERENCE

As per NAAQ Standards

Report Status :- The analyzed value for above measured parameter is within the limits

Verified by



Authorized Signature

Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months 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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4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

5. Sampling is not done unless otherwise specified. R: This test and the calibration mark with an amp and are modified by NAB



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Sanganakallu Road, KEB Circle, Bellary - 583103 Contact No : Mob : 94498 03895, (0) : 08392 255169,
E-mail : msv.lab01@gmail.com, labmsv@gmail.com, Website : www.msvlabellary.com



MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720720000015126F

Issued Date: 27.10.2020

- | | |
|--|------------------------------------|
| 1. Name of the Project | M/s. Athani Sugars Limited |
| | Vishnuannanagar, Post: Navalihal, |
| | Tq: Athani, Dist: Belgaum - 591234 |
| 2. Name of the location | 130 TPH Boiler |
| 3. Sample Collected By | MSV Analytical Laboratories |
| 4. Particulars of the sample collected | Stack Sampler |
| 5. Date of Sample Receipt | 20.10.2020 |
| 6. Analysis Starting Date | 21.10.2020 |
| 7. Analysis Completion Date | 27.10.2020 |
| 8. Sample Tested as Received | |

GENERAL DETAILS

Date of Monitoring	20.10.2020
Fuel Used	Bagasse
Stack Temperature (°C)	124
Velocity (m/s)	7.86
Height (m)	60
Diameter (m)	3

RESULTS

PARAMETERS	PROTOCOL	UNIT	RESULT	KSPCB STANDARDS
Particulate Matter	IS-11255(Part 1) - 1985	mg/Nm ³	91.29	150
Sulphur dioxide	IS-11255(Part 2) - 1985	mg/Nm ³	13.52	-
Nitrogen dioxide	IS-11255(Part 7) - 2005	mg/Nm ³	28.07	-

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

Verified by

Authorized Signature



Note : 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will be destroyed after 10 days. Filter papers & Thimbles will be destroyed 3 months 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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4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.
5. Sample is not to be used by us unless otherwise specified. 6. The tests and/or calibrations marked with an asterisk are not accredited by NABL.



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



TC-7207

MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No:TC720720000015127F

Issued Date: 27.10.2020

1. Name of the Project : M/s. Athani Sugars Limited
Vishnuannanagar, Post: Navalihal,
Tq: Athani, Dist: Belgaum - 591234
2. Name of the location : 145 TPH Boiler
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sample collected : Stack Sampler
5. Date of Sample Receipt : 20.10.2020
6. Analysis Starting Date : 21.10.2020
7. Analysis Completion Date : 27.10.2020
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	20.10.2020
Fuel Used	Bagasse
Stack Temperature (°C)	132
Velocity (m/s)	8.03
Height (m)	80
Diameter (m)	1.4

RESULTS

PARAMETERS	PROTOCOL	UNIT	RESULT	KSPCB STANDARDS
Particulate Matter	IS-11255(Part 1) - 1985	mg/Nm ³	137.1	150
Sulphur dioxide	IS-11255(Part 2) - 1985	mg/Nm ³	12.98	-
Nitrogen dioxide	IS-11255(Part 7) - 2005	mg/Nm ³	27.34	-

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

Verified by

Authorized Signature



Note : 1. The results listed only to the tested samples & applicable parameters.
2. Water samples will destroyed after 10days, Filler 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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E-mail : msv.lab01@gmail.com, labmsv@gmail.com, **Website :** www.msvlabellary.com



MSVAL/A/F/17/04

NOISE LEVEL MONITORING REPORT

Test Report No:TC720720000015130F

Issued Date: 27.10.2020

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 : 20.10.2020
5. Report Date : 27.10.2020
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	11.00am to 11.15am	56.9	60.1	58.5	75 (6.00am to 10.00pm)
2	Near Guest House	11.30am to 11.45am	60.9	62.4	61.7	
3	Near Compost Yard	12.00pm to 12.15pm	64.3	66.9	65.6	
4	Near Cane Carrier	12.30pm to 12.45pm	66.3	68.1	67.2	

INFERENCE

As per KSPCB Standards,

Report Status :- In the all locations Noise level is within the limits

Verified by

Authorized Signature



Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water samples will be destroyed after 10 days, Filler papers & Thimbles will be destroyed 3 months 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.

3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

5. Samples are not to be used for any other purpose unless otherwise specified. 6. The tests and/or calibrations marked with an asterisk are not accredited by NABL.



MSV Analytical Laboratories

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



MSVAL/A/F/17/04

NOISE LEVEL MONITORING REPORT

Test Report No:TC720720000015131F

Issued Date: 27.10.2020

- | | | |
|--|---|---|
| 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 | : | 20.10.2020 |
| 5. Report Date | : | 27.10.2020 |
| 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	54.3	58.9	56.6	70 (10.00pm to 6.00am)
2	Near Guest House	10.35pm to 10.50pm	59.3	60.1	59.7	
3	Near Compost Yard	11.00pm to 11.15pm	60.3	63.2	61.8	
4	Near Cane Carrier	11.20pm to 11.35pm	63.9	66.3	65.1	

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

Verified by

Authorized Signature



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. (LC sample will be destroyed after 1 month from the date of test certificate issue).
3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.
4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.
5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked within are not accredited by NABL.



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

MSVAL/A/F/18/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2020/3953

Issued Date: 27.10.2020

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	20.10.2020
7. Analysis Starting date	21.10.2020
8. Analysis Completion Date	27.10.2020
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 23 rd Edition-2017,2540 C	mg/L	480.0	500	2000
4	pH @ 25° C	APHA 23 rd Edition 2017,4500 H+	-	8.45	6.5 – 8.5	6.5 – 8.5
5	Turbidity, Max	APHA 23 rd EDITION-2017, 2530 B	NTU	0.28	1	5
Chemical Parameters					REQUIREMENTS	
6	Total Alkalinity as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2320 B	mg/L	114.0	200	600
7	Total Hardness as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2340 C	mg/L	163.2	200	600
8	Nitrate Nitrogen (as NO ₃ N), Max	APHA 23 rd EDITION-2017, 4500 NO ₃	mg/L	1.14	45	No relaxation
9	Chloride (as Cl), Max	APHA 23 rd EDITION-2017, 4500-Cl ⁻ , B	mg/L	29.9	250	1000
10	Sulphate (as SO ₄), Max	APHA 23 rd EDITION-2017, 4500 So ₄	mg/L	54.03	200	400
11	Calcium (as Ca), Max	APHA 23 rd EDITION-2017, 3500 Ca, B	mg/L	32.6	75	200
12	Magnesium (as Mg), Max	APHA 23 rd EDITION-2017, 3500-Mg, B	mg/L	19.8	30	100
13	Fluoride (as F), Max	APHA 23 rd EDITION-2017, 4500-F, D	mg/L	0.13	1.0	1.5
14	Iron (as Fe), Max	APHA 23 rd 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						

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

[Signature]



Authorized Signature

[Signature]

- Note: 1. The results listed only to the tested samples & applicable parameters.
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 5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an asterisk are not accredited by NABL.



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Sanganakallu Road, KEB Circle, Ballari - 583103 **Contact No :** Mob : 94498 03895, (0) : 08392-255169,

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

MSVAL/A/F/18/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2020/3954

Issued Date: 27.10.2020

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	:	20.10.2020
7. Analysis Starting date	:	21.10.2020
8. Analysis Completion Date	:	27.10.2020
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	478.0	500	2000
4	pH @ 25 ^o C	APHA 23 rd Edition-2017,4500.H+	-	8.32	6.5 – 8.5	6.5 – 8.5
5	Turbidity, Max	APHA 23 rd EDITION 2017, 2530.B	NTU	0.36	1	5
Chemical Parameters					REQUIREMENTS	
6	Total Alkalinity as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2320.B	mg/L	110.0	200	600
7	Total Hardness as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2340.C	mg/L	171.3	200	600
8	Nitrate Nitrogen (as NO ₃ -N), Max	APHA 23 rd EDITION-2017, 4500.NO ₃	mg/L	1.16	45	No relaxation
9	Chloride (as Cl), Max	APHA 23 rd EDITION-2017, 4500-Cl ₂ .B	mg/L	36.9	250	1000
10	Sulphate (as SO ₄), Max	APHA 23 rd EDITION-2017, 4500.SO ₄	mg/L	55.4	200	400
11	Calcium (as Ca), Max	APHA 23 rd EDITION-2017, 3500.Ca ₂ .B	mg/L	35.08	75	200
12	Magnesium (as Mg), Max	APHA 23 rd EDITION-2017, 3500-Mg ₂ .B	mg/L	20.3	30	100
13	Fluoride (as F), Max	APHA 23 rd EDITION-2017, 4500-F ₂ .D	mg/L	0.07	1.0	1.5
14	Iron (as Fe), Max	APHA 23 rd EDITION-2017, 3500-Fe ₂ .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						

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



Note : 1. The results listed only to the tested samples & applicable parameters,
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E-mail : msv.lab01@gmail.com, labmsv@gmail.com, **Website :** www.msvlabellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2020/4663

Issued Date: 26.11.2020

- M/s. Athani Sugars Limited**
- Name of the Project : Vishnuannanagar, Post: Navalihal, Tq: Athani, Dist: Belgaum - 591234
 - Name of the location : Near Main Gate
 - Sample Collected By : MSV Analytical Laboratories
 - Particulars of the sample collected : Sample collected with RDS 460BL/Fine Particulate Sampler/CO Analyzer & Benzene sampler
 - Date of Sample Receipt : 21.11.2020
 - Analysis Starting Date : 22.11.2020
 - Analysis Completion Date : 26.11.2020
 - 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	µg/m ³	8 hrs	78.50	100
2	Particulate Matter or PM _{2.5}	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	µg/m ³	8 hrs	31.62	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2) - 2001	µg/m ³	8 hrs	7.21	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	µg/m ³	8 hrs	15.96	80
5	Ozone as O ₃	IS 5182(part-9)1974	µg/m ³	1 hrs	BDL	180
6	Lead	IS-5182(Part22) - 2004	µg/m ³	8 hrs	BDL	1
7	Carbon Monoxide as CO	LAB SOP: MSVAL/SOP/A/07, Dt: 2.7.2012	mg/m ³	-	2.86	4
8	Ammonia as NH ₃	LAB SOP: MSVAL/SOP/A/06, Dt: 2.7.2012	µg/m ³	1 hrs	7.51	400
9	Benzene as C ₆ H ₆	IS:5182(part 11) - 2006	µg/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 µg/m³, Lead-0.04 µg/m³, Benzene-3.6 µg/m³, Benzo (α) Pyrene (BaP)-0.1 ng/m³, Arsenic-3.5 ng/m³, Nickel-10 ng/m³)

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

Verified by

P. M.



Authorized Signature

Kangan aut. m

Note : 1. The results listed only to the tested samples & applicable parameters.

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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/2020/4664

Issued Date: 26.11.2020

1.	Name of the Project	:	M/s. Athani Sugars Limited
2.	Name of the location	:	Vishnuannanagar, Post: Navalihal, Tq: Athani,
3.	Sample Collected By	:	Dist: Belgaum - 591234
4.	Particulars of the sample collected	:	Compost Yard
5.	Date of Sample Receipt	:	MSV Analytical Laboratories
6.	Analysis Starting Date	:	Sample collected with RDS 460BL/Fine Particulate
7.	Analysis Completion Date	:	Sampler/CO Analyzer & Benzene sampler
8.	Sample Tested as Received	:	21.11.2020
		:	22.11.2020
		:	26.11.2020

RESULTS

S.NO	PARAMETERS	PROTOCOLS	UNITS	DURATION OF MONITORING	RESULTS	NAAQ STANDARDS
1	Particulate Matter PM ₁₀	IS-5182(Part-23) - 2006	µg/m ³	8 hrs	79.30	100
2	Particulate Matter or PM _{2.5}	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	µg/m ³	8 hrs	34.08	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	µg/m ³	8 hrs	7.26	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	µg/m ³	8 hrs	16.71	80
5	Ozone as O ₃	IS 5182(part-9)1974	µg/m ³	1 hrs	BDL	180
6	Lead	IS-5182(Part22) - 2004	µg/m ³	8 hrs	BDL	1
7	Carbon Monoxide as CO	LAB SOP: MSVAL/SOP/A/07, Dt: 2.7.2012	mg/m ³	-	1.98	4
8	Ammonia as NH ₃	LAB SOP: MSVAL/SOP/A/06, Dt: 2.7.2012	µg/m ³	1 hrs	7.23	400
9	Benzene as C ₆ H ₆	IS:5182(part 11) - 2006	µg/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 µg/m³, Lead-0.04 µg/m³, Benzene-3.6 µg/m³, Benzo (α) Pyrene (BaP)-0.1 ng/m³, Arsenic-3.5 ng/m³, Nickel-10 ng/m³, Carbon Monoxide-1.5mg/m³)

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

Verified by

P. h. m.



Authorized Signature

K. S. S. S.

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

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



MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720720000017104F

Issued Date: 27.11.2020

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 : 23.11.2020
6. Analysis Starting Date : 24.11.2020
7. Analysis Completion Date : 27.11.2020
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	23.11.2020
Fuel Used	Coal
Stack Temperature ($^{\circ}\text{C}$)	114
Velocity (m/s)	7.27
Height (m)	42
Diameter (m)	1.5

RESULTS

PARAMETERS	PROTOCOL	UNIT	RESULT	KSPCB STANDARDS
Particulate Matter	IS-11255(Part 1) - 1985	mg/Nm ³	131.6	150
Sulphur dioxide	IS-11255(Part 2) - 1985	mg/Nm ³	13.29	-
Nitrogen dioxide	IS-11255(Part 7) - 2005	mg/Nm ³	34.07	-

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

Verified by

P. H. M.

Authorized Signature

K. S. S. S.



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/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720720000017105F

Issued Date: 27.11.2020

1. Name of the Project : M/s. Athani Sugars Limited
Vishnuannanagar, Post: Navalihal,
Tq: Athani, Dist: Belgaum - 591234
2. Name of the location : 145 TPH Boiler
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sample collected : Stack Sampler
5. Date of Sample Receipt : 23.11.2020
6. Analysis Starting Date : 24.11.2020
7. Analysis Completion Date : 27.11.2020
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	23.11.2020
Fuel Used	Bagasse
Stack Temperature (°C)	130
Velocity (m/s)	8.11
Height (m)	70
Diameter (m)	3

RESULTS

PARAMETERS	PROTOCOL	UNIT	RESULT	KSPCB STANDARDS
Particulate Matter	IS-11255(Part 1) - 1985	mg/Nm ³	132.0	150
Sulphur dioxide	IS-11255(Part 2) - 1985	mg/Nm ³	12.47	-
Nitrogen dioxide	IS-11255(Part 7) - 2005	mg/Nm ³	29.02	-

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

P. Kumar

Authorized Signature

Longan a. n.



Note : 1. The results listed only to the tested samples & applicable parameters.

2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months 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: TC720720000017106F

Issued Date: 27.11.2020

1. Name of the Project : M/s. Athani Sugars Limited
Vishnuannanagar, Post: Navalihal,
Tq: Athani, Dist: Belgaum - 591234
2. Name of the location : 130 TPH Boiler
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sample collected : Stack Sampler
5. Date of Sample Receipt : 23.11.2020
6. Analysis Starting Date : 24.11.2020
7. Analysis Completion Date : 27.11.2020
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	23.11.2020
Fuel Used	Bagasse
Stack Temperature (°C)	126
Velocity (m/s)	7.58
Height (m)	60
Diameter (m)	3

RESULTS

PARAMETERS	PROTOCOL	UNIT	RESULT	KSPCB STANDARDS
Particulate Matter	IS-11255(Part 1) - 1985	mg/Nm ³	144.9	150
Sulphur dioxide	IS-11255(Part 2) - 1985	mg/Nm ³	13.74	-
Nitrogen dioxide	IS-11255(Part 7) - 2005	mg/Nm ³	32.08	-

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

Verified by

P. h

Authorized Signature

Lengua W. M.



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



MSVAL/A/F/17/04

NOISE LEVEL MONITORING REPORT

Test Report No: TC720720000017037F

Issued Date: 26.11.2020

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 : 21.11.2020
5. Report Date : 26.11.2020
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	10.15am to 10.30am	54.1	56.9	55.5	75 (6.00am to 10.00pm)
2	Near Guest House	12.10pm to 12.25pm	52.4	54.9	53.6	
3	Near Compost Yard	12.45pm to 01.00pm	68.4	70.2	69.3	
4	Near Cane Carrier	01.30pm to 01.45pm	71.1	73.9	72.5	

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

Verified by

P. h

Authorized Signature

Signature



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

2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months 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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4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986 and Accredited by NABL

(Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, 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.msvlabellary.com



MSVAL/A/F/17/04

NOISE LEVEL MONITORING REPORT

Test Report No: TC720720000017038F

Issued Date: 26.11.2020

- | | |
|--|---|
| 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 | 21.11.2020 |
| 5. Report Date | 26.11.2020 |
| 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	10.05pm to 10.20pm	53.4	55.9	54.6	70 (10.00pm to 6.00am)
2	Near Guest House	10.30pm to 10.45pm	51.4	53.4	52.4	
3	Near Compost Yard	10.50pm to 11.05pm	68.9	69.3	69.1	
4	Near Cane Carrier	11.20pm to 11.35pm	65.9	67.4	66.6	

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

Verified by

P. h

Authorized Signature

L. S. S.



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

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

MSVAL/A/F/18/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2020/4665

Issued Date: 26.11.2020

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 : 21.11.2020
7. Analysis Starting date : 22.11.2020
8. Analysis Completion Date : 26.11.2020
9. Sample Tested as Received

RESULTS

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 23 rd Edition-2017,2540 C	mg/L	842.0	500	2000
4	pH @ 25 ^o C	APHA 23 rd Edition-2017,4500 H+	-	7.29	6.5 – 8.5	6.5 – 8.5
5	Turbidity, Max	APHA 23 rd EDITION-2017, 2530 B	NTU	1.06	1	5
Chemical Parameters					REQUIREMENTS	
6	Total Alkalinity as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2320 B	mg/L	170.0	200	600
7	Total Hardness as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2340 C	mg/L	536.5	200	600
8	Nitrate Nitrogen (as NO ₃ N), Max	APHA 23 rd EDITION-2017, 4500 NO ₃	mg/L	3.98	45	No relaxation
9	Chloride (as Cl), Max	APHA 23 rd EDITION-2017, 4500-Cl ,B	mg/L	248.9	250	1000
10	Sulphate (as SO ₄), Max	APHA 23 rd EDITION-2017, 4500 SO ₄	mg/L	156.9	200	400
11	Calcium (as Ca), Max	APHA 23 rd EDITION-2017, 3500 Ca ,B	mg/L	124.8	75	200
12	Magnesium (as Mg), Max	APHA 23 rd EDITION-2017, 3500-Mg, B	mg/L	54.5	30	100
13	Fluoride (as F), Max	APHA 23 rd EDITION-2017, 4500-F,D	mg/L	0.54	1.0	1.5
14	Iron (as Fe), Max	APHA 23 rd EDITION-2017, 3500-Fe ,B	mg/L	0.05	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						

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

P. Kumar

END OF REPORT

Authorized Signature

K. Anjan Kumar

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/2020/4666

Issued Date: 26.11.2020

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 : 21.11.2020
7. Analysis Starting date : 22.11.2020
8. Analysis Completion Date : 26.11.2020
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	720.0	500	2000
4	pH @ 25 ^o C	APHA 23 rd Edition-2017,4500 H+	–	8.30	6.5 – 8.5	6.5 – 8.5
5	Turbidity, Max	APHA 23 rd EDITION-2017, 2530 B	NTU	1.02	1	5
Chemical Parameters					REQUIREMENTS	
6	Total Alkalinity as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2320 B	mg/L	210.2	200	600
7	Total Hardness as CaCO ₃ , Max	APHA 23 rd EDITION-2017, 2340 C	mg/L	414.7	200	600
8	Nitrate Nitrogen (as NO ₃ N), Max	APHA 23 rd EDITION-2017, 4500 NO ₃	mg/L	1.71	45	No relaxation
9	Chloride (as Cl), Max	APHA 23 rd EDITION-2017, 4500-Cl, B	mg/L	124.93	250	1000
10	Sulphate (as SO ₄), Max	APHA 23 rd EDITION-2017, 4500 So ₄	mg/L	121.89	200	400
11	Calcium (as Ca), Max	APHA 23 rd EDITION-2017, 3500 Ca, B	mg/L	102.0	75	200
12	Magnesium (as Mg), Max	APHA 23 rd EDITION-2017, 3500-Mg, B	mg/L	76.16	30	100
13	Fluoride (as F), Max	APHA 23 rd EDITION-2017, 4500-F, D	mg/L	0.48	1.0	1.5
14	Iron (as Fe), Max	APHA 23 rd EDITION-2017, 3500-Fe, B	mg/L	0.06	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

P. h



Authorized Signature

Kinga A. T. N

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