

ATHANI SUGARS LIMITED

(Formerly known as Athani Farmers Sugar Factory Limited)

Regd. Offi. & Factory: Vishnuannanagar, Post: Navalihal-591 234, Tal.: Athani, Dist.: Belgaum,

Kamataka State, Phone: 08339-280100, 01, 02 Fax: 08339-280103

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-Sangli - 416 416 Maharashtra State, Phone : 0233-2373885

No. ASL/Env/03/2016-17

Date: 13.04.2016

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 Half year compliance report of Environment Clearance issued for 4500 TCD Sugar plant, 60 KLPD Distillery and 24 MW Co-gen.

Ref: Your letter no 1: EP/12.1/308/KAR/8077, dated: 3.03.2016. 2: EP/12 1/634/KAR/0136, dated: 8,03,2016.

Respected Sir.

With reference subject and reference to cited above, we are please to submit 2nd half year compliance report of M/s Athani Sugars Limited Environmental Clearance issued letter no J-11011/129/2006-IA.IL(I). Dated: 29.05.2006 and No. J-11011/189/2009-IA.II(I), Dated: 1.9.2009 for integrated project of sugar 4500 TCD, Distillery 60KLD and 24 MW

This is for your kind information.

Thanking you.

Yours faithfully,

for Athani Sugars Limited,

AUTHORIZED SIGNATORY

Encl. As above.

2nd HALF YEAR COMPLIANCE REPORT (October 2015-March 2016) TOWARDS ENVIRONMENTAL CLEARENCE

Prepared For

OPERATION OF 4500 TCD SUGAR INDUSTRY & 24 MW CO-GEN PLANT AND 60 KLPD RECTIFIED SPIRIT/ENA/ETHANOL FOR THE YEAR 2015-16.

From

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



Statement of Compliance for 30 KLD Distillery. MoEF letter no: No.J.11011/129/2006-IA.II.(I), dated: 29.05.2006

1.	Project Type	Industry
2.	Name of the project	30KLPD distillery unit by M/s Athani Sugars Limited, (formely knowns as Athani Farmer Sugar Factory Limited) at Madhabavi Village Talk -Athani, Dist Belgaum in Karnataka
3.	Clearance letter no and date	MOEF letter No.J-11011/129/2006-IA.II.(I), Dated:29.05.2006
4.	Location, District & State / UT	Belgaum, Karnataka
5.	Address for correspondence	Shri. Shrimant Balasaheb Patil, M/s. Athani Sugars Limited, Vishnuannanagar, Post- Navalihal 591 234, Talk Athani, Dist-Belgaum Ph:08339-280100/01, Fax:08339-280103 Email: yoqeshpatil@athanisugars.com, padmarajvaradaraya@athanisugars.com. Contact No: 9164830912
6.	Financial Details	
а	Project cost as originally planned and subsequent revised estimates and the years of price reference	13.82 crores.
b	Allocations made for environmental management plans, with item wise and year wise breakup	Rs. 62 Lakhs (Rs. 8 Crores as per condition (viii)of general conditions for recurring and non recurring expenditure to implement conditions stipulated by MoEF)
С	Total expenditure on the Project so far	ASL has spent Rs. 2400 lakh for the completion of entire 30 KLPD project. Out of this, 15.88 crores have been spent for 30 KLPD plant and remaining 8.12 crores have been spent on Environment management plan as per condition (viii).
d	Actual expenditure incurred on the environmental management plans so far	Following capital expenses have been made towards capital equipments to control pollution for 30 KLD distillery: Bio- digester: Rs. 4.8 crores Spent wash Storage tank: Rs1.5 crores Bio compost yard: Rs.1.2 crores Recurring expenses for EMP as enclosed in Annexure – I.
7.	Status of construction:	Plant is completed & commissioned in February, 2008.
a.	Date of commencement	1st February, 2008
b.	Date of completion (actual and/or planned)	The project has been completed
8	Date of site visit:	

ć	a.	The dates on which the project was monitored by the Regional Office on previous occasions, if any	
ı	b.	Date of site visit for this monitoring report	08.01.2015

BRIEF STATUS OF THE PROJECT:-

The ASL has completed and commissioned 30 KLPD distillery/ ethanol plant in February, 2008. 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.

Presently, 60 KLD distillery, 24 MW cogeneration plant and 4500 TCD sugar plant are operating. 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 TOR from ministry vide letter no F.No.J-11011/373/2013-IA.II(I) dated 30.04.2014.

A. **SPECIFIC CONDITIONS**:-

i). The industry shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.

The water requirement per day, effluent generation per day and effluent treatment details for various plants is as mentioned below:

Plant	capacity	Water requirement (m3)	Effluent generation volume (m3)	Method of treatment
Sugar plant	4500 TCD	Nil	450	Treated in sugar ETP by surface aeration method. Treated water is used for green belt development.
Cogen plant	24 MW	418 fresh water + 820 from polished condensate from sugar plant = 1238	Boiler blow down 52.4 + cooling tower blow down 220.4 = 272.8	Effluent is neutralized in Neutralization pit and treated water used is for green belt development.
Distillery plant	60 KLD	432 fresh water + 400 condensate from evaporation plant + 238 distillery return condensate = 1070	Spent wash generation = 480	Generated Spent wash is being treated in 2 Nos. of biodigesters'. The biomethanated spent wash (480m3/day) is further fed to seven effect falling film evaporators (900 KLD capacity) to concentrate & reduce the qty. of BMSW to 120 m³/day. The conc. BMSW is then composted with press mud to achieve zero discharge

There are two process stacks for 130 TPH baggase base cogeneration boiler and 18 TPH coal and biogas based distillery boiler. Monthly monitoring has been outsourced to a KSPCB empanelled laboratory and reports are submitted to Regional office regularly. 70 M above Ground Level (AGL) provided for 130 TPH bagasse base boiler

and 42 M for 18 TPH distillery boiler and Electrostatic precipitator (ESP) provided for both the stack.

Stack results for the month of Dec 2015 and Jan 2016, Feb 2016 are as follows:

				Resu	ılts			
	Unit	130 TPH						
Parameters		Dec 2015	Jan 2016	Feb 2016	Dec 2015	Jan 2016	Feb 2016	Standard
Particular Matter	mg/Nm3	101.93	127.11	116.14	134.69	126.59	-	150
Nitrogen dioxide	mg/Nm3	30.7	32.69	37.85	29.54	33.35	-	
Sulphur dioxide	mg/Nm3	43.2	43.20	41.14	40.8	40.80	-	
Hydrogen sulphide	mg/Nm3	-	1.21	1.55	-	0.8	-	

ii). The company shall adopt continuous fermentation technology to ensure that the spent wash shall not exceed 8 kl/kl of alcohol produced. As reflected in the EMP, the spent wash after anaerobic treatment shall be composted with press mud. No effluent shall be discharged outside the factory premises and zero discharge shall be strictly as per the CPCB guidelines. The company shall earmark an area of 16.0 acres for bio composting, storage of finished products etc. The compost yard shall be made impervious as per the CPCB guidelines.

The company has adopted continuous fermentation technology for the distillery. Generated Spent wash is being treated in 2 number of bio-digesters (each of capacity 450 m3/day, volume 12700 m3). The bio-methanated spent wash (BMSW) is mixed with press mud to produce compost. The effluent of Biodigester is further fed to falling film multi effect (7 effects) evaporator (capacity 900 KLD) to concentrate and reduce quantity of BMSW. The effluent from Evaporator is composted with Press mud.

We have constructed compost yard impervious as per the CPCB guidelines. There is no effluent discharged outside the factory premises. 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 bore water quality analyzed from factory surrounding area.

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 December 2015 and January 2016, Feb 2016 as enclosed below:

				Res	ults			Standards	
Parameters	Unit	Indus	Industry Premises			est Ho	ıse	DL	PL
		Dec 2015	Jan 2016	Feb 2016	Dec 2015	Jan 2016	Feb 2016		
рН		8.4	6.85	8.02	8.44	7.32	7.87	6.5	5-8.5
Color	Hazen	<1	<5	<1	<1	<5	<1	5	15
Turbidity	NTU	2.78	0.38	0.85	2.69	0.44	2.3	1	5
TDS	mg/l	226	305	332	329	98	320	500	2000
Total Hardness	mg/l	56	8	48	52	12	60	200	600
Chloride as	mg/l	39.42	9.58	110.4	39.4	39.3	108.5	250	1000
Calcium as Ca	mg/l	14.4	1.6	16.0	14.4	3.2	20.8	75	200
Fluoride as F	mg/l	0.69	0.12	0.79	0.82	0.18	1.41	1	15
Nitrated as Nitrogen	mg/l	7.7	1.55	0.63	4.61	1.93	1.15	2	15
Sulphate As SO4	mg/l	34.8	8.1	65.5	37.5	8.34	59.9	200	400
Magnesium as Mg	mg/l	4.86	0.97	1.94	3.88	0.97	1.94	30	100
Iron as Fe	mg/l	0.05	0.18	0.12	0.138	0.07	0.13	C).3

Total Coliforms	CFU/100ml	Nill	Nill	Nill	1	Nill	Nil	10
Fecal Coloforms	CFU/100ml	nill						

The photographs of Biodigester, Evaporator plant, construction of compost yard and test bore are enclosed as Annexure II

iii). The company shall install fly ash arrestor and wet scrubber and stack height of 55 m to control the emission from the bagasse fired boiler installed to achieve the particulate emission within the prescribed standards.

The company has installed Electro Static Precipitators (ESP) for both the new boilers to control emission. The old boilers of capacity 35TPH one number and 32 TPH two numbers have been dismantled. The stack height of co-gen boiler (130 TPH) is 70 meter and that of distillery boiler (18 TPH) is 42 meter. Monthly monitoring is outsourced to KSPCB recognized laboratory.

The photographs of the ESP of 130 TPH and 18 TPH boilers are enclosed as Annexure III.

Stack results for the month of December 2015 and Jan 2016, Feb 2016:

			Results							
	Unit		130 TPH							
Parameters		Dec 2015	Jan 2016	Feb 2016	Dec 2015	Jan 2016	Feb 2016	Standard		
Particular Matter	mg/Nm3	101.93	127.11	116.14	134.69	126.59	-	150		
Nitrogen dioxide	mg/Nm3	30.7	32.69	37.85	29.54	33.35	-			
Sulphur dioxide	mg/Nm3	43.2	43.20	41.14	40.8	40.80	-			
Hydrogen sulphide	mg/Nm3	-	1.21	1.55	-	0.8	-			

vi). The spent wash shall be stored in impervious pucca lagoons. The spent wash lagoon shall have proper lining with HDPE and shall be kept in proper condition

to prevent ground water pollution. As per the CPCB recommendation, storage shall not exceed 30 days capacity.

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 3 m = 2016 M³ + 1m free board.
- Storage tank no.2 (25 days capacity for Biomethanated spent wash storage): 56 m X 64 m X 3 m = 10752 M³ + 1m free board.

Photographs of the same are enclosed as Annexure –IV

vii). Adequate number of ground water quality monitoring stations by providing Piezometers around the compost plant and the project area shall be set up. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry.

Four nos. of test bore wells are provided around compost yard. Sampling & trend analysis monitoring is outsourced to KSPCB recognized laboratory. Monthly monitoring reports are submitted to the KSPCB Regional office regularly. Copies of the monitoring reports are enclosed as Annexure –VIII

viii). The company shall obtain permission from the state Irrigation Department for drawl of ground water.

The company has been granted water drawl permission of 38 mcft (Million Cubic feet) from Krishna River for the industrial use. Two pipelines have been laid for water drawl from the river. Flow meters have been provided to major the quantity of water drawl from river. Rainwater harvesting methods have been adopted to recharge the ground water level.

Permission letter is enclosed as Annexure-V

ix). The operation of distillery shall be restricted to 270 days and that it will not operate during rainy season.

We are ensuring that distillery is not operating more than 270 days per year.

x). As reflected in the EIA/EMP, green belt of adequate width and density in 25% of the plant area shall be provided to mitigate the effects of fugitive emissions all around the plant and compost yard as per the CPCB quideline in consultation with local 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 10500 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. As per PCB norms we are planted five rose windows around compost yard. Photographs of same enclosed as Annexure-VI.

xi). Company shall adopt rain water harvesting measures to recharge the ground 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. Almost 350 lakhs liter of water would have been gathered during last 3 seasons from roof top of the various building in the industry.

xii). Occupational health surveillance programme 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 maintained 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.

B.GENERAL CONDITIONS.

i). The project authorities must strictly adhere to the stipulations made by the KSPCB and the State Government.

Combined consent for 4500 TCD sugar plant , 60 KLD distillery plant and 24 Mw Cogen plant for the season 2015-16 letter no is PCB/148/HPI/2015-16/OB -2112. Dated: 23 Feb 2016.

CFO copies attached as Annexure VII

ii) No further expansion or modifications in the plant shall be carried out without prior approval of Ministry of Environment and Forest.

Ministry has given clearance for Expansion of molasses based distillery (30 to 60 KLPD) and setting up of 24 MW biomass based power plant at Kempwad, Taluk Athani, District Belgaum by M/s Athani Farmers Sugar Factory Ltd. vide MoEF. Lr. No. J-11011/189/2009-IA.II(I), Dated: 1.9.2009.

The co-generation has been completed and commissioned in October, 2012 investing around Rs. 9868 lakh. The expansion of the distillery/ethanol plant is also completed and the expanded plant is commissioned in May, 2014 costing about Rs. 4500 lakh.

iii). Ambient Air Quality Monitoring Stations shall be set up in the downwind direction as well as where maximum ground level concentration of SPM, SO2, NOx are anticipated in consultation with the State Pollution Control Board.

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 KSPCB empanelled laboratory on monthly basis and reports are submitted to board regularly. All 12 parameter of ambient air quality results for the month of December 2015 and Jan 2016, Feb 2016 as follow:

				Res	ults				
Parameters	Units	Nea	Near Main Gate			Near Compost yard			
Parameters		Dec 2015	Jan 2016	Feb 2016	Dec 2015	Jan 201 6	FEB 2016	Standar ds	
Particulate Matter (PM 10)	ha/w3	76	73	86	84	79	79	100	
Particulate Matter (PM 2.5)	pg/m2	39	34	39	44	31	40	60	
Sulphur dioxide (SO2)	pg/m3	3.26	5.06	6.39	2.99	3.75	7.01	80	
Nitrogen dioxide (NO2)	pg/m3	23.4	10.2 5	13.1 5	14.9 3	13.1 5	13.8	80	
Amonia (NH3)	µg/m3	-	18.9 9	12.0 5	-	21.1 5	12.0 5	400	
Carbon Monoxide (CO)	mg/m3	-	2.25	1.18	-	2.15	1.18	4.0	
Ozone (O3)	µg/m3	-	3.62	4.97	-	3.14	4.97	180	
Lead (Pb)	hs/w3	-	0.01 7	0.01 8	-	0.01	0.01	1.0	
Arsenic (As)	ng/m3	-	2.04	0.68	-	1.33	0.68	6.0	
Nickel (Ni)	ng/m3	-	8.87	8.23	-	3.33	8.23	20.0	
Benzo (a)Pyrene	ng/m3	-	BDL	BDL	-	BDL	BDL	1.0	

(BaP)								
Benzene (C6H6)	µg/m3	-	BDL	BDL	-	BDL	BDL	5.0
Poly Aromatic Hydrocarbon	ng/m3	-	BDL	BDL		BDL	BDL	1.0

iv) Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters.

Four monitoring station provided and monthly monitoring is report all necessary parameter for the influent and effluent. Sample collection points are sugar ETP influent, effluent for sugar plant and raw spent wash & biomethanated spent wash for distillery effluents. The online continuous monitoring system and flow meter is provided for treated Sugar effluent and data to CPCB and KSPCB server is pending.

The monitoring reports and photographs of online monitoring system are attached as Annexure –VIII.

v) The overall noise level in and around the plant area shall be kept well within the standards, (85dBA) 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 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.

Noise level parameters are being monitored regularly at our location for Day and Night as below:

		Р	Std parameter dB(A)					
Sample Location		day			Night		Day	Night
	Dec 2015	Jan 2016	Feb 2016	Dec 2015	Jan 2016	Feb 2016		
Near Main Gate	68.04	63.89	62.79	59.75	62.14	61.43	75	70
Near Cane Carrier	68.74	59.61	67.87	62.88	63.31	69.32	75	70
Near Compost yard	67.41	64.26	64.32	60.09	64.08	50.48	75	70
Near Guest house	68.04	72.72	63.28	63.02	62.61	60.96	75	70

vi). The project proponent shall also comply with all the environmental protection measures and safeguards recommended in EIA/EMP project.

Compliance as follows

Sr.No	Items	Compliance
1.	Air Pollution control	ESP is installed to 130TPH boiler and 18 TPH Boiler.
2.	Water Pollution control	Sugar unit: - Generated waste water is treated in Sugar ETP (600m3/day capacity) by Surface aeration followed by Clarification .Treated water used for green belt development. Distillery Waste: The generated waste form distillery is being treated in 2 no of Biodigesters (Capacity of 450m3/day each).The Biomethanated Spent wash further fed to 7 effect falling film evaporator (capacity 900 KL) to concentrate and reduced the quantity of BMSW . The conc. BMSW is composted with press mud to achieve zero discharge.

vii) A separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.

Company has established a separate environmental management cell (consisting of one director of company, environment engineer, distillery manager and chief engineer of sugar plant) with well equipped laboratory for carrying out daily analysis of treated and untreated effluents form sugar plant and distillery plant. COD, Total solid, Suspended Solid, pH, oil and grease are analyzed in house laboratory daily and monthly monitoring is done for all necessary parameters by KSPCB approved laboratory. Further, a well qualified Environment officer and ETP in charge are appointed. Environment Management cell structure is enclosed as Annexure-IX.

viii) The project authorities shall provide funds (Rs. 8 Cr as mentioned in the questionnaire no. xix of the EIA/EMP report) for the both recurring and non recurring expenditure to implement the conditions stipulated by the non recurring expenditure to implement the conditions stipulated by the MoEF as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.

The distillery/ethanol plant (30 KLPD) is completed and commissioned in February 2008 costing about Rs. 24 crores. Subsequently, the company has expanded distillery capacity from 30 KLPD to 60 KLPD and installed 24 MW cogeneration plant. 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 Co-gen boiler: 250 Lakh ESP for distillery boiler: 100 Lakh Spent wash Evaporator: 700 Lakh

Recurring expenses are Rs. 62 Lakhs for monitoring and maintaining green belt.

ix) The implementation of the project vis -a -vis environmental action plans will be monitored by Ministry Regional Office at Bangalore /Sate Pollution Control Board/Central Pollution Control Board. A six monthly compliance Status report along with the monitored data shall be submitted to the monitoring agencies.

Agreed to comply.

- 1. Letter no: AFSF/Env/397/2012-13 dated: 20.04.2012.
- 2. Letter no: AFSF/Env-20/3552/2011-12 dated: 07.03.2012.
- 3. Letter no: ASL/Env/28/2014-15 dated: 18.09.2014.
- 4. Letter no: ASL/Env/15/2015-16 dated: 16.07.2015.
- 5. Letter no: ASL/Env/ 32 /2015-16 dated: 27.01.2016.

x). The project proponent shall inform the public that the project has been accorded environmental clearance by MoEF 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 Regional office.

The project has received Environmental Clearance on 29.05.2006 from MoEF and same has been published in two newspapers (English & Kannada) as per conditions. However, unfortunately we are not able to find the copies of the same as our environment office location has been changed 2-3 times during this period.

xi) The project Authorities shall inform the Regional 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 land development work.

The project is completed and commissioned.

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

Accepted.

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

No additional conditions were stipulated by Ministry.

5.0) 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 and the Public Liability Insurance Act, 1991 along with their Amendments and rules.

Noted.

Statement compliance for 30-60 KLD Distillery

MOEF letter No: F.No.J-11011/189/2009-IA-II dated: 1.09.2009.

1.	Project Type	Industry				
2.	Name of the project	Expansion of molasses based distillery (30 to 60 KLPD) and setting up of 24 MW biomass based power plant at Kempwad, Taluk Athani, District Belgaum by M/s Athani sugars Limited (formerly known as Athani Farmers Sugar Factory Ltd).				
3.	Clearance letter no and date	MoEF. Lr. No. J-11011/189/2009-IA.II(I), Dated: 1.9.2009.				
4.	Location, District & State / UT	Belgaum, Karnataka				
5.	Address for correspondence	Shri. Shrimant Balasaheb Patil, M/s. Athani Sugars Limited, Vishnuannanagar, Post- Navalihal 591 234, Talk Athani, Dist-Belgaum Ph:08339-280100/01, Fax:08339-280103 Email: yogeshpatil@athanisugars.com, padmarajvaradaraya@athanisugars.com. Contact no: 9164830912				
6.	Financial Details					
а	Project cost as originally planned and subsequent revised estimates and the years of price reference	31.48 crores (30 to 60 Distillery)				
b	Allocations made for environmental management plans, with item wise and year wise breakup	Rs. 72 Lakhs				
С	Total expenditure on the Project so far	Rs. 45 crores for the completion of entire 30-60 KLPD distillery project. Out of this, 31.48 crores have been spent for 30-60 KLPD plant and remaining 13.52 crores have been spent on Environment management.				
d	Actual expenditure incurred on the environmental management plans so far	Following capital expenses were incurred towards equipments to control pollution for distillery 30 to 60 KLP plant: Bio-digester: Rs. 480 Lakh ESP for distillery boiler: 100 Lakh Multi effect Evaporator plant: 700 Lakh Recurring expenses for EMP as enclosed in Annexure – I.				
7.	Status of construction:					
a.	Date of commencement	November 2013				
b.	Date of completion (actual and/or planned)	May 2014.				
8	Date of site visit:	0.1.0.0010				
a.	The dates on which the project was	24.2.2012				

	monitored by the Regional Office on previous occasions, if any	
b.	Date of site visit for this monitoring report	08.01.2015

A. SPECIFIC CONDITIONS :-

i) The company shall adopt continuous fermentation technology. The spent wash generation shall not exceed 480m3/day, the spent wash after bio methanation in bio digester shall be concentrated to 180 m3/day and composted with press mud to achieve zero discharge.

The company has adopted continuous fermentation technology for distillery. Generated Spent wash is being treated in biodigesters (2 nos, capacity of 450m3/day each, volume 12700 m3). The effluent of biodigester is further fed to falling film multi-effect (7 effect, capacity 900 KLD) evaporator to concentrate & reduce the qty. The effluent from the evaporator is composted with press mud and zero discharge is achieved. The Photographs of same enclosed as Annexure II

ii). Land and other requirements for treatment of spent wash with press mud shall be as per the CPCB guidelines. The company shall earmark the area for biocomposting. The compost yard shall be made impervious as per the CPCB guideline.

We have constructed compost yard impervious as per the CPCB guidelines. We have also provided 4 nos. test bore wells around the compost yard. We achieved zero discharge as per the CPCB guidelines. Photographs are enclosed as Annexure –II

iii). The spent wash shall be stored in impervious pucca lagoons. The spent wash lagoon shall have proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. As per the CPCB recommendation, storage for the concentrated spent wash shall not exceed 30 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): 56 m X 12 m X 3 m = 2016 M³ + 1m free board.
- Storage tank no.2 (25 days capacity for biomethanated spent wash): 56 m X 64 m X 3 m = 10752 M³+ 1m free board.

Photographs of the same are enclosed in Annexure –IV

iv). Adequate number of ground water quality monitoring station by providing Piezometers around the compost plant and project area shall be set up. Sampling and trend analysis monitoring must be on monthly a basis and report submitted to SPCB and this ministry.

4 nos. of test bore wells are provided around compost yard. Sampling & trend analysis monitoring is outsourced to KSPCB/MoEF recognized laboratory. Monthly monitoring reports are submitted to the board regularly.

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 bore water quality analyzed from factory surrounding area.

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 December 2015 and January 2016, Feb 2016 as enclosed below:

				Res	ults			Standards	
Parameters	Unit	Industry Premises			Guest House			DL	PL
		Dec 2015	Jan 2016	Feb 2016	Dec 2015	Jan 2016	Feb 2016		
рН		8.4	6.85	8.02	8.44	7.32	7.87	6.5	5-8.5
Color	Hazen	<1	<5	<1	<1	<5	<1	5	15
Turbidity	NTU	2.78	0.38	0.85	2.69	0.44	2.3	1	5
TDS	mg/l	226	305	332	329	98	320	500	2000
Total Hardness	mg/l	56	8	48	52	12	60	200	600
Chloride as Cl	mg/l	39.42	9.58	110.4	39.4	39.3	108.5	250	1000
Calcium as Ca	mg/l	14.4	1.6	16.0	14.4	3.2	20.8	75	200
Fluoride as F	mg/l	0.69	0.12	0.79	0.82	0.18	1.41	1	15
Nitrated as Nitrogen	mg/l	7.7	1.55	0.63	4.61	1.93	1.15	2	45
Sulphate As SO4	mg/l	34.8	8.1	65.5	37.5	8.34	59.9	200	400

Magnesium as Mg	mg/l	4.86	0.97	1.94	3.88	0.97	1.94	30	100
Iron as Fe	mg/l	0.05	0.18	0.12	0.138	0.07	0.13	C).3
Total Coliforms	CFU/100ml	Nill	Nill	Nill	1	Nill	Nil	,	10
Fecal Coloforms	CFU/100ml	nill	Nill	Nill	Nill	Nill	Nill	r	nill

v). The company shall obtain permission from the state Irrigation Department or competent authority to draw the water from Krishna River.

The company has been granted water drawl permission of 38 mcft (Million Cubic feet) from Krishna River for the industrial use. The Permission letter is enclosed as Annexure -V

vi) The particulate emission from the bagasse fired boiler shall be controlled by installation of Electrostatic Precipitator and emission shall be dispersed through stack height as per CPCB Standards.

70 M high, Above Ground Level (AGL) Stack is provided to 130 TPH bagasse based boiler and 42 M stack for 18 TPH distillery boiler and Electrostatic Precipitator provided for the both boilers. Photographs of ESP for 130 TPH and 18 TPH enclosed as Annexure III

Stack results for the month of Dec 2015 and Jan 2016, Feb 2016 are as follows:

			Results								
		130 TPH			18 TPH						
Parameters	Unit	Dec 2015	Jan 2016	Feb 2016	Dec 2015	Jan 2016	Feb 2016	Standard			
Particular Matter	mg/Nm3	101.93	127.11	116.14	134.69	126.59	ı	150			
Nitrogen dioxide	mg/Nm3	30.7	32.69	37.85	29.54	33.35	-				
Sulphur	mg/Nm3	43.2	43.20	41.14	40.8	40.80	-				

dioxide								
Hydrogen sulphide	mg/Nm3	-	1.21	1.55	-	0.8	-	

vii) The company shall install scrubbing system with the fermentation section for CO2 and HC. H2S scrubber shall be installed for control of emission from Biodigestor.

A pipe line system to collect Co2 generated from fermentation tank is in place. The company has entered into agreement with Thuer Gas Ltd, Bangalore for installation of carbon dioxide plant for dry ice manufacturing. Agreement copy Enclosed as Annexure-X.

viii) The proponent shall upload the status of compliance of the stipulated EC condition, including monitoring data on their website and shall update the same periodically. It shall Simultaneously be sent to the Regional Office of MoEF, the respective Zonal office of CPCB and SPCB. The criteria pollutant namely SPM, RSPM, SO2,NOX (Ambient level as well as stack emission) pH, BOD,COD in ground water indicated for project shall be monitored and displayed at the convenient location near the main gate of company in the public domain.

Industry has paid charges for website creation and website is created as www.athanisugars.com. However, website is under designing and soon we will upload compliance reports on it.

ix) Green belt in 33% of the plant area shall be provided to mitigate the effects of fugitive emission all around the plant and compost yard as per the CPCB guideline

Green belt of 45% the plot area (120.6 acres) has been developed to control fugitive emission from the industry. About 10500 plants are planted around industrial premises. (Species such as Neem, Mango, Chikoo, Coconut, Tamarind and Ashok tree) at a cost of Rs. 12.6 Lakhs. As per PCB norms we are planted five rose windows around compost yard. Photographs of same enclosed here as Annexure-VI.

x) Company shall adopt rainwater harvesting measures to recharge the ground water.

Company have adopted the rainwater harvesting measures to recharge ground water. The industry is located in low rain fall area. The average rainfall in this location is reportedly 450 mm. The company has undertaken rain water harvesting measures. The rain water over the roof of the various plants is collected and recharged to bore well after necessary treatment. Total rain water collected in the past season is reportedly around 350 lakh liters.

xi) Occupational health surveillance programme 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.

xii) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, creache etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

We are provided temporary infrastructure like house, safe drinking water, medical health care etc for construction labor.

B. **GENERAL CONDITION:**

i) No further expansion or modification in the plant shall be carried out without prior approval of the MoEF.

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 TOR from ministry vide letter no F.No.J-11011/373/2013-IA.II(I) dated 30.04.2014.

ii) Ambient air quality monitoring stations shall be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO2, NOX are anticipated in consultation with the SPCB.

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 KSPCB empanelled laboratory on monthly basis and reports are submitted to board regularly. All 12 parameter of ambient air quality results for the month of December 2015 and Jan 2016, Feb 2016 as follow:

				Res	ults			
Danamatana	Unite	Nea	r Main (Gate	Near (Compos	st yard	NAAQ Standar
Parameters	Units	Dec 2015	Jan 2016	Feb 2016	Dec 2015	Jan 201 6	FEB 2016	ds
Particulate Matter (PM 10)	µg/m3	76	73	86	84	79	79	100
Particulate Matter (PM 2.5)	µg/m3	39	34	39	44	31	40	60
Sulphur dioxide (SO2)	µg/m3	3.26	5.06	6.39	2.99	3.75	7.01	80
Nitrogen dioxide (NO2)	µg/m3	23.4	10.2 5	13.1 5	14.9 3	13.1 5	13.8	80
Amonia (NH3)	µg/m3	-	18.9 9	12.0 5	-	21.1 5	12.0 5	400
Carbon Monoxide (CO)	mg/m3	-	2.25	1.18	-	2.15	1.18	4.0
Ozone (O3)	hs/w3	-	3.62	4.97	-	3.14	4.97	180
Lead (Pb)	µg/m3	1	0.01 7	0.01 8	-	0.01	0.01 8	1.0
Arsenic (As)	ng/m3	-	2.04	0.68	-	1.33	0.68	6.0
Nickel (Ni)	ng/m3	-	8.87	8.23	-	3.33	8.23	20.0
Benzo (a)Pyrene (BaP)	ng/m3	-	BDL	BDL	-	BDL	BDL	1.0
Benzene (C6H6)	hg/w3	-	BDL	BDL	-	BDL	BDL	5.0
Poly Aromatic Hydrocarbon	ng/m3	-	BDL	BDL		BDL	BDL	1.0

iii) Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters.

Four monitoring stations are provided and monthly monitoring is reportedly done for all necessary parameter for the influent and effluent.

Sample collection points are sugar ETP influent, effluent for sugar plant and raw spent wash & biomethanated spent wash for distillery effluents. The online continuous monitoring system is provided for treated Sugar effluent and data to CPCB and KSPCB server is pending.

The monitoring reports and photographs of online monitoring system are attached as Annexure –VIII.

iv) The industry shall ensure that the treated effluent and stack emissions from the units are within the norms stipulated under the EPA rules or SPCB.

Treated effluent and stack emissions parameter are within KSPCB Limits. Monitoring reports enclosed as Annexure- VIII.

v) The overall noise level in and around the plant area shall be well within the standards by providing noise control measures including acoustic hoods, silencers, enclosure etc. on all sources of noise generation. The ambient noise level should conform to the standard prescribed under EPA 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.

Noise level parameters are being monitored regularly at our location for Day and Night as below:

		Р	aramete	ers dB (A	4)		Std parameter dB(A)	
Sample Location		day		Night			Day	Night
	Dec 2015	Jan 2016	Feb 2016	Dec 2015	Jan 2016	Feb 2016		
Near Main Gate	68.04	63.89	62.79	59.75	62.14	61.43	75	70
Near Cane Carrier	68.74	59.61	67.87	62.88	63.31	69.32	75	70

Near Compost yard	67.41	64.26	64.32	60.09	64.08	50.48	75	70
Near Guest house	68.04	72.72	63.28	63.02	62.61	60.96	75	70

vi) Ambient Air Quality Monitoring Stations shall be set up in the downwind direction as well as where maximum ground level concentration are anticipated in consultation with the State Pollution Control Board.

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 KSPCB empanelled laboratory on monthly basis and reports are submitted to board regularly. All 12 parameter of ambient air quality results for the month of December 2015 and Jan 2016, Feb 2016 as follow:

				Resu	ults			
	Units	Nea	r Main (Gate	Near (NAAQ Standar		
Parameters		Dec 2015	Jan 2016	Feb 2016	Dec 2015	Jan 201 6	FEB 2016	ds
Particulate Matter (PM 10)	µg/m3	76	73	86	84	79	79	100
Particulate Matter (PM 2.5)	µg/m3	39	34	39	44	31	40	60
Sulphur dioxide (SO2)	µg/m.3	3.26	5.06	6.39	2.99	3.75	7.01	80
Nitrogen dioxide (NO2)	µg/2m.3	23.4	10.2 5	13.1 5	14.9 3	13.1 5	13.8	80
Amonia (NH3)	µg/m3	-	18.9 9	12.0 5	-	21.1 5	12.0 5	400
Carbon Monoxide (CO)	mg/m3	-	2.25	1.18	-	2.15	1.18	4.0

Ozone (O3)	µg/m3	-	3.62	4.97	-	3.14	4.97	180
Lead (Pb)	µg/m3	-	0.01 7	0.01 8	-	0.01	0.01 8	1.0
Arsenic (As)	ng/m3	-	2.04	0.68	ı	1.33	0.68	6.0
Nickel (Ni)	ng/m3	-	8.87	8.23	ı	3.33	8.23	20.0
Benzo (a)Pyrene (BaP)	ng/m3	-	BDL	BDL	-	BDL	BDL	1.0
Benzene (C6H6)	µg/m3	-	BDL	BDL	-	BDL	BDL	5.0
Poly Aromatic Hydrocarbon	ng/m3	-	BDL	BDL		BDL	BDL	1.0

vii) The project proponent shall also comply with all the environmental protection measures and safeguards recommend in EIA/EMP report.

Compliance item wise is as follows:-

SL.No	items	compliance
1	Air Pollution control	ESP system is installed to 130 TPH and 18 TPH boiler
2	Water pollution control	The generated spent wash from distillery is being treated in 2 nos of Biodigestor (capacity of 450m3/day each). The biomethanted spent wash is further fed to 7 effect falling film multi effect evaporator to concentarte and reduce qty of BMSW. The concn BMSW is composted with press mud to achieve zero discharge.

viii) A separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.

Company has established a separate environmental management cell (consisting of one director of company, environment engineer, distillery manager and chief engineer

of sugar plant) with well equipped laboratory for carrying out daily analysis of treated and untreated effluents. COD, Total solid, Suspended Solid, pH, oil and grease are analyzed in house laboratory daily and monthly monitoring is done for all necessary parameters by KSPCB approved laboratory. Environment Management cell structure is enclosed as Annexure-IX

ix) The project authorities shall provide requisite funds for both recurring and non recurring expenditure to implement the conditions stipulated by the non recurring expenditure to implement the conditions stipulated by the MoEF as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.

The project is completed and commissioned.

The expansion of the 30 to 60 KLPD distillery/ethanol plant is completed and the expanded plant is commissioned in May, 2014 costing about Rs. 4500 lakh. Following capital expenses have been made towards capital equipments to control pollution for 30 KLD to 60 KLD distillery expansion plant,

Bio-digester: Rs. 4.80 crores ESP for distillery boiler: 1 Crores, Multi effect Evaporator plant: 7 crores Recurring expenditure 72 lakhs

x) The implementation of the project vis -a -vis environmental action plans will be monitored by Ministry Regional Office at Bangalore /Sate Pollution Control Board/Central Pollution Control Board. A six monthly compliance Status report along with the monitored data shall be submitted to the monitoring agencies.



xi) The project proponent shall also submit six monthly reports on the status of compliance of the stipulate EC condition including results of monitored data (both on hard copies as well as e-mail) to the respective Regional Office of MoEF, The respective zonal office of CPCB & The SPCB

Six monthly compliance reports are submitted regularly.

- 1. Letter no: AFSF/Env/397/2012-13 dated: 20.04.2012.
- 2. Letter no: AFSF/Env-20/3552/2011-12 dated: 07.03.2012.
- 3. Letter no: ASL/Env/28/2014-15 dated: 18.09.2014.
- 4. Letter no: ASL/Env/15/2015-16 dated: 16.07.2015.
- 5. Letter no: ASL/Env/ 32 /2015-16 dated: 27.01.2016.
- xii) A copy of clearance letter shall be send by the proponent to concerned Panchayat, Zila parishad/Municipal Corporation, urban local body and local NGO.

if any, from whom suggestion/ representations if any were received while processing the proposal. The clearance letter shall also put on the website of company by proponent.

Complied

xiii) The project proponent shall inform the public that the project has been accorded environmental clearance by MoEF 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 Regional office.

Advertisement was given in Deccan Herald & Samyuktha Karnataka on 11.09.2009. Copy enclosed as Annexure-XI

xiv) 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.

xv) The project Authorities shall inform the Regional 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 land development work.

The date of financial closure of project is 21st January 2014.

First CFO for 60 KLPD was obtained vide letter no. PCB/148/HPI/2014-77 dated: 22 April 2014.

Copy is enclosed here as Annexure -XII

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

Accepted.

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

No additional conditions were so far stipulated.

xviii) Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, Second floor, Trikoot-1, Bhikali Cama Place, New Delhi -110066. If preferred within a period of 30 days as prescribed under section 11 of the National Environment Appellate Authority Act, 1997.

No appeal was made.

xix) 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, 2003 and the Public Liability Insurance Act, 1991 along with their Amendments and rules.

Agreed to comply.

ANNEXURE-I

Recurring expenses for EMP

Sr.No	Particulars	Recurring cost per Annum in Lakhs (30 KLPD distillery)	Recurring cost per Annum in Lakhs (30 -60 KLD distillery)
1.	Air Pollution Control	20	25
2.	Water pollution Control	10	15
3.	Composting	25	25
4.	Noise Pollution control Enclosure for DG Set	-	-
5.	Occuational Health	-	-
6.	Environment Monitoring and management	5	5
7.	Green Belt Development	2	2
	Total	62	72

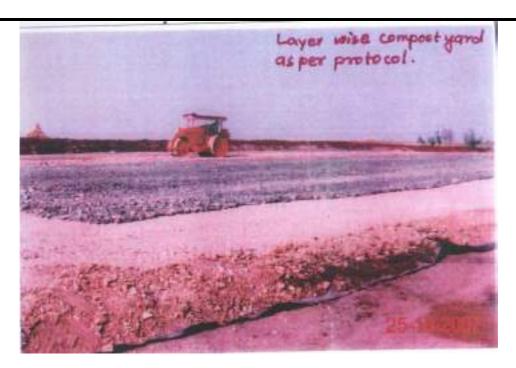
ANNEXURE II



CSTR Biodigestor 02 no (Capacity 450 m3/day each)



Seven effect falling film Evaporator System (capacity 900 KLD)



Layer wise compost yard construction as per protocol



Leachate Gutter and Spent Wash Spraying Chamber



Photos showing the Test bore well provided around compost yard



Photos showings the Test bore well providing around compost

ANNEXURE III



ESP for 130 TPH Co-Gen Boiler



ESP for 18 TPH Boiler

ANNEXURE-IV



Photo of the Lined Lagoon for Storage

ANNEXURE-V

ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ನಡವಳಿಗಳು

ವಿಷಯ ಮೆ- ಅಥಣೆ ಸತ್ಯರ ಕಾರ್ಯನೆಗೆ ಹಾಗೂ ಕೋ-ಜನರೇಶನ್ ಮ್ಯಲಚಿಗೆ ಕೃಷ್ಣ ನರಿಯಂದ ದೀರೊದಗಿಸುವ ಕುರಿತು.

Laterand:

- ಸರ್ಕಾರದ ಪತ್ರ ಸಂಖ್ಯ: ನೀಡ 5 ಹಿಆರ್ಡೋ 2000, ದಿನಾರಕ: 16-02-2001.
- ಪ್ರಮಾನಕ ಗಿರ್ದೇಶಕರು, ಕರ್ನಾಟಕ ನೀರಾವರ ನಿಗಮ ನಿಯಮಿಕ, ಬೆಂಗಳೂರು ಇವರ ಪತ್ರ ಸಂಖ್ಯೆ ಕೆಎನ್ಎನ್/54/ಟಪಚ್ಎಂ/ಟಎ.3/2001-02/5239, ದಿನಾರಕ: 07-03-2007
- ಪುಟ್ಟ ಇಂಚಾಯರ್, ಜಲ ಸಂಪನ್ನಲ ಅಥವೃದ್ಧ ಸಂಸ್ಥೆ ಇವರ ಪತ್ರ ಸಂಸ್ಥೆ: ಜಸಅಯೋಮಕಟು 2:ಸಇ 2:ಕೈಗಾ:09-10:44, ರಿಪಾಂಕ: 15-03-2010.

सम्बद्धां होत

ಮೇಲೆ ಓದಲಾದ (1) ರ ಸರ್ಕಾರದ ಪತ್ರದಲ್ಲಿ ಬೆಳಗಾವಿ ಪೆಲ್ಲೆಯ ಅಥಣಿ ತಾಲ್ಲೂಕಿನ 'ಮದಧಾವಿ' ಸ್ವಾಮದ ಹತ್ತಿರ ಸ್ಥಾಪಿಸಲು ಉದ್ದೇಶಿಸಲಾಗಿರುವ ಮು ಅಥಣಿ ಸಕ್ಕರ ಕಾರ್ಖಾನೆಗೆ ಕೃಷ್ಣಾ ನದಿಯಿಂದ ಹುಲಗದಾಳಿ ಹತ್ತಿರ 8 ಎಂ.ಸಿ.ಎಫ್.ಟಿ ಫೀರನ್ನು ಎತ್ತಿ ಉಪಯೋಗುಕೊಳ್ಳಲು 4 ವರ್ಷಗಳ ಅದಧಿಗೆ ಅನುಮೋದನೆ ನೀಡಲಾಗಿರುತ್ತದೆ.

ಮೇಲೆ ಓದರಾದ (2) ರ ಪತ್ರದಲ್ಲಿ ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕರ್ನಾಟಕ ನೀರುವರಿ ನಿಗಮ ನಿಯಮಿತ, ರವರು ಸರ್ಕಾರದ ಪತ್ರವಲ್ಲಿ ಅನುಮತಿ ನೀಡಿರುವಂತೆ, ಮೇ ಅಥಣೆ ರೈತರ ಸಕ್ಕರೆ ಕಾರ್ಮಾನೆ, ಅಥಣಿ ತಾಲ್ಲೂಕು, ಬೆಳಗಾವಿ ಚಲ್ಲೆ ಇವರಿಗೆ ಕೈಗಾರಿಕಾ ಉಪಯೋಗಕ್ಕಾಗಿ ವೇಕಾಗಿರುವ 8 ಎಂಸಿಎಫ್ಟ್ ಪ್ರಮಾಣದ ನೀರನ್ನು ಕೃಷ್ಣಾನದಿಯಿಂದ ಉಪಯೋಗಿಸಲು ಕೆಲವು ಪರತ್ರಗಳೊಡನೆ ದಿನಾಂಕ: 24–03–2001 ರಂದು ಒಪ್ಪಂದವನ್ನು ಮಾಡಿಕೊಳ್ಳಲಾಗಿರುತ್ತದೆ, ಸದರಿ ಒಪ್ಪಂದವು ದಿನಾಂಕ: 23–03–2005ಕ್ಕೆ ಮುಕ್ತಾಯವಾಗಿರುತ್ತದೆಂದು, ಈ ಅವಧಾರುವರೆಗೆ ಸಂಸ್ಥೆಯು ಉಪಯೋಗಿಸಿದ ನೀರಿನ ಪರಿಮಾಣಕ್ಕೆ ಕರವನ್ನು ವಾರತಿಸಿರುತ್ತಾರೆಂದು ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕರ್ನಾಟಕ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ ರವರು ತಿಳಿಸಿಸುತ್ತಾ ದಿನಾಂಕ: 23–03–2005 ರಿಂದ 5 ವರ್ಷಗಳ ಅನ್ನಾಗ ಪರವಾನಗಿಯನ್ನು ನವೀಕರಿಸುವಂತೆ ಸರ್ಕಾರವನ್ನು ಕೋರಿರುತ್ತಾರೆ.

ಮೇ ಅಥಣಿ ರೈತರ ಸಕ್ಕರೆ ಕಾರ್ಖಾನೆಯು ಹಾಲಿ ಇರುವ ಸಕ್ಕರ ಉತ್ಪಾದನೆಯೊಂದಿಗೆ ಕಾರ್ಬಾನೆಯ ಅವರಣದಲ್ಲಿ ಕೋ-ಬನರೇಶನ್ ಪ್ಲಾಂಟ್ನ್ಸ್ ಸ್ಟ್ರಾಪಿಸಲು ಉದ್ದೇಶಿಸಿದ್ದು, ಇದಕ್ಕೆ ಬೇಕಾದ ರಾರ್ಷಿಕ 30 ಎಂಬಎಫ್ಟ್ ವೀರನ್ನು ಹೆಚ್ಚುನರಿಯಾಗಿ ಒದಗಿಸಲು ಕೋರಣಾಗಿದ್ದು, ಈ ಕುದಿತು ಮುಖ್ಯ ಇಂಜನಿಯರ್, ಜಲ ಸಂಪನ್ನೂಲ ಅಭಿವೃದ್ಧಿ ಸಂಸ್ಥೆ ಇವರಿಂದ ಪರಿಕೀಲಿಸಿಕೊಂಡು ಮೇಲೆ ಓದಲಾದ (3) ರ ಪತ್ರವನ್ನು ಪಡೆಯಲಾಗಿದೆ.

ಮೇಲ್ವಂಚ ಪ್ರಜ್ಞನನೆಯನ್ನು ಪರಿತೀಲಿಸ. ಈ ಕೆಳಗಿಸಲತೆ ಅಭೀತನನ್ನು ಹೊರಡಸಲಾಗಿದೆ.

ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ ಜಸಂಇ 7 ಹೀಆಯೋ 2009, ಬೆಂಗಳೂರು, ದಿನಾಂಕ 02.02.2012.

ಮೆ: ಅಥಣಿ ರೈತರ ಸಕ್ಕರೆ ಕಾರ್ಖಾನೆಗೆ 8 ಎಂಸಿಎಫ್ಟ್ ನೀರನ್ನು ಉಪಯೋಗಿಸಲು ನೀಡಲಾಗಿದ್ದ ಪರವಾನಗಿಯ ಅವಧಿಯು ದಿನಾಂಕ 23,03,2005ಕ್ಕೆ ಮುಕ್ತಾಯವಾಗಿದ್ದು, ಈಗ ದಿನಾಂಕ 24,03,2005 ರಿಂದ ದಿನಾಲಕ 01,02,2012 ರವರೆಗೆ ಘಟನೋತ್ತರ ಮುಕ್ತಾಯವಾಸಿಯನ್ನು ನೀಡಲಾಗಿದೆ. ಮುಂಬುವರೆದು, ಸರ್ಚು ಕಾರ್ಯಾನೆಯು ಹಾಲಿ ಕಾರ್ಯನಿರ್ವಹಿಸುತ್ತಿರುವ ಅವರಣದಲ್ಲಿ ಹೊಸಲಾಗಿ ಸ್ಟಾಪಿಸಲು ಉದ್ದೇಶಿಸಿರುವ ಕೋ-ಟನಲೇಷನ್ ಸ್ಟಾಂಟ್ ಗೆ ಬೇಕಾಗಿರುವ 30 ಎಂಜನ್ಫ್ ಟ ನೀರನ್ನು ಸೇರಿಸಿಕೊಂಡು ಒಟ್ಟು 38,00 ಎಂಪಿಎಫ್ಟ್ ನೀರನ್ನು ಕೃಷ್ಣಾನದಿಯಿಂದ ಎತ್ತಿ ಉಪಯೋಗಿಸಲು ಅನಾಬಂಧದಲ್ಲಿನ ಪರತ್ರಗಳಿಗೊಳಿಸಲ್ಲು ಮುಂದಿನ ಐದು ವರ್ಷಗಳ ಅವಧಿಗೆ ಅನುಮೋದನೆಯನ್ನು ನೀಡಿದೆ.

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ಜಲ ಸಂಚನ್ಮೂಲ ಇರಾಖೆ (ತಾಂತ್ರಿಕ-4).

ವರಿಗೆ:

ಮಹಾಲೇಖಪಾಲರು, ಕರ್ನಾಟಕ, ಬೆಂಗಳೂರು – 3 ಪ್ರತಿಗಳಾ

- 2. ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕರ್ನಾಟಕ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿಕ, ಕಾಫಿ ಬೋರ್ಡ್ ಕಟ್ಟಡ, ಬೆಂಗಳೂರು-560001
- ್ತಿ ಮುಖ್ಯ ಇಂಕನಿಯರ್, ಕರ್ಯಾಟಕ ನೀರಾವರಿ ನಿಗಮ ನಿರಾಮಿತ, ನೀರಾವರಿ (ಉತ್ತರ) ಮಾಯಾ, ಬೆಳಗಾನಿ
- ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಜಲ ಸಂಪರ್ಷ್ಯಂ ಅಭವೃದ್ಧಿ ಸಂಸ್ಥೆ, ಅನಂಪನಾಡ್ ವೃತ್ಯ ಪರೀಗಿರುವರು
- ೨ ಆರಕ್ಷಕ ಮತ್ತೂ ನಿರ್ದಕ್ಷಕರು. ವಿದಕ್ಷಣಾ ದಳ, ಜಲ ಸಂಪರ್ಷಕ್ಕಾ ಇಲಾಖೆ. ಬಸದ ಭವನ, ಹೈಗೌರ್ಬಿಕ್ಸ್ ಬೆಂಗಳೂರು-560001 .
- 6. ವಿಶೇಷಾಧಿಕಾರಿ ಹಾಗೂ ಪದನಿಮಿತ್ತ ಸರ್ಕಾರದ ಉಪ ಕಾರ್ಯದರ್ಶಿಗಳು, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ (ಅರ್ಧಿಕ ಕೋಶ), ವಿಧಾನ ಸೌಧ, ಬೆಂಗಳೂರು-1
- ಮಾನ್ಯ ಜಲ ಸಂಪನ್ಮೂಲ ಸಚಿವರ ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿಗಳು, ವಿಧಾನ ಸೌಧ, ಬೆಂಗಳೂರು-1
- x ಸರ್ಕಾರವ ಅತ ಕಾರ್ಯಾರ್ಡಿಗರು (ಕೃದಾದಾಗಿ) / (ಎಂ.ಎಂ.ಎ.), ಗಳ ಸಂಪರ್ಗಳ ಇಲಾಖೆ
- ವಿರ್ವೇಸಕರು, ಕರ್ನಾಟಕ ರಾಜ್ಯ ಪತ್ರಗಾರ ಇಲಾನ್, ಏಕಾಪ ಹೌಧ, ವೆಂಗಳೂರು 10 ಪ್ರತಿಗಳು
- n. ಸರ್ಕಾರದ ಪ್ರಧಾನ ಕಾರ್ಯದರ್ಶಿಯವರ ಪತ್ರಾಂಕಿಕ ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿ, ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆ
- II. ಸರ್ಕಾರದ ಕಾರ್ಯವರ್ಶಿಯವರ ಆಪ್ತ ಸಹಾಯಗಳು, ಒಲ ಸಂಪರ್ವೂ ಇಡಾವೆ
- 12 ಸಂಬಂಧಿಸಿದವರಗ
- ಶಾಖಾ ರಕ್ಷಾ ಕಡಕ/ಹೆಚ್ಚಿನ ಪ್ರತಿ.

ANNEXURE-VI





Plantation around compost yard



Plantation around compost yard

ANNEXURE-VII

chigety / Fax : 090-25588321 statheet / E-mail : ho@kspcb.gov.in clarpdyc* / Website : http://kspcb.gov.in



25581383, 25589112 25588151, 25588270 25588142, 25588520

ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ನ ನಿಯಂತ್ರಣ ಮಂಡಳಿ Karnataka State Pollution Control Board

"ಪರಿಸರಭವನ", 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ.49, ಚರ್ಚ್ ಸ್ಟೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ, ಭಾರತ "Pansara Bhavana", 1st to 5th Floor, # 49, Church Street, Bengaluru - 560 001, Kamataka, INDIA

//By RPAD//

(This document contains 11 pages including annexure)

23 100 2016

Combined Consent order No: PCB/148/HPI/2015-16 /

Consent for discharge of effluents under the Water (Prevention and Control of Pollution)
Act, 1974 and Emissions under the Air (Prevention and Control of Pollution) Act, 1981.

Ref: 1. Application filed by the industry for consent for operation received at Regional Office, Chikkodi, on 03.09.2015 (Reg. No.98786)

Inspection of the Industry by R.O. Chikkodi on 23.06.2015 & 23.11.2015.

Proceedings of the Consent Committee Meeting held on 23.09.2015.

Industry Letter No: ASI/Env/28/2015-16 dt: 12.11.2015.

The Consent is hereby granted under section 25 of the Water (Prevention and Control of Pollution) Act 1974 and under Section 21 of the Air (Prevention and Control of Pollution) Act 15°11 (herein after referred as the Water Act and the Air Act respectively) and the Rules and Orders made there under and subject to the terms and conditions as detailed in the schedule anner ed to this order.

This Consent is hereby granted to "The Chairman & Managing Director, M/s. Athani Sugars Limited., Sy. No. 53, 54, 56, 437, 438 & 509, Vishnuanna Nagar village, Navalihal Post, Athani Taluk, Belgaum District- 591 234" authorizing him to operate the industrial plant at above said premises and to make discharge of effluents and emissions from the premises as mentioned above.

This consent is granted to the industry on receipt of ₹ 1,00,000/- under the Water and Air Acts (total Rs.2,00,000/-) based on investment of ₹ 254 croces as per gross block assets details as on 31-03-2014, submitted by the industry.

Discharge of effluents under the Water Act:

SL No.	Description	Permitted Quantity of discharge	Stipulated Standards and place of discharge	
1	Trade effluent • Sugar plant • Co-generation plant	450 KLD 274 KLD	Shall be used for on land for irrigation after treating in ETP to the standards stipulated in Annexure-L	

SENIOR ENVIRONMENTAL OFFICER

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	Distillery plant	480 KLD	Sport wish after biomethication in the biodigester shall be concentrated as 180 K/D and composted with press mad to achieve zero discharge. Compost shall confirm to the standards prescribed in Annexure III.
2	Domestic effluent	32 KLD	Septic tanks & Soak pits.

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

St. No	Description of chimney/ outlet	Limits specified
OTE:	130 TPH Boiler (Agro based)	
	18 TPH Boiler	As per Annexure-II
	1200 KVA DG Set	

The concent is valid for the manufacture of:

SL No.	Name of the Product	Quantity Consented (Max.)	
1	Sugarcane Crushing	4500 TCD	
2	Co-generation plant	24MW	
3	Distillery plant	60 KLD	

THE CONSENT IS GRANTED FOR THE PERIOD FROM 01.07,2015 TO 30.06,2016.

Encl: Schedule, Annexure-1 ,II & III.

For and on behalf of the Karnataka State Pollution Control Board

SENIOR ENVIRONMENTAL OFFICER.

To,
The Chairman & Managing Director,
M/s, Athani Farmers Sugar Factory Ltd.,
Sy. No. 53, 54, 56, 437, 438 & 509,
Vishnuannanagar village, Navalihal Post,
Athani Taluk, Belgaum District- 591 304.

SCHEDULE TERMS AND CONDITIONS

(to accompany consent Not PCB/148/HPI/2015-16

Dated:

>

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

I. TREATMENT AND DISPOSAL OF TRADE EFFLUENT (FROM SUGAR & CO-GEN PLANT):

 The discharge from the effluent treatment plant of the applicant shall pass through terminal manhole/ manholes where from the Board shall be free to collect samples at any time in accordance with the provisions of the Act or Rules made there under

The daily quantity of effluent discharge shall not exceed the limits and shall not contain the constituents in excess of the tolerance limits laid down as indicated in the table below. The applicant shall monitor the quality of effluents for the parameters

sringlated as per the frequency indicated.

SI. No.	Description of the effluents	Daily quantity of discharge in KLD	Tolerance Limits	Frequency of monitoring
1	2	3	4	5
1	Trade effluent from Sugar & Co-gen plants	450 KLD 274 KLD	Annexure-I	Weekly.
2	Domestic effluent	32	Disposed to Septic tank and soak pit	

- 3. The applicant shall ensure that the trade effluent along with condensate is treated in the treatment plant constructed as per the flow sheet submitted by the industry to the standards stipulated in Annexure-I and the treated effluent shall be utilized for onlined for gardening/irrigation within the premises.
- 4. The applicant shall ensure that the operation of effluent treatment plant shall be started at least one month before the starting of cane crushing to achieve desired MLSS so as to meet the prescribed standards from day one of the operation of mill.
- The applicant shall ensure that the waste water generation from sugar unit is less than or equal to 100 ks/ ton of cane crushed.
- The applicant shall provide 15 days storage capacity for treated effluent to take care of no demand for irrigation. The storage tank shall be impervious.
- The applicant shall provide effluent flow meters to record the effluent quantity discharged.
- 8. The application of treated effluent for agriculture shall be controlled so as to avoid either flooding of land or ground water contamination.

SENIOR ENVIRONMENTAL OFFICER

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 Adequate number of observation bore/ test wells shall be provided in and around the agricultural land where the treated effluent is used to monitor the ground water quality.

II. TREATMENT AND DISPOSAL OF SEWAGE EFFLUENTS

 The applicant shall treat the domestic effluent in septic tank & soak pit. No overflow from the soak pit is allowed. The septic tank & soak pit shall be designed as per IS 2470 Part-I & Part-II.

HILTREATMENT AND DISPISOAL OF 'DISTILLERY EFFLUENTS'

- 1. The applicant is permitted to operate the distillery unit for 270 working days.
- The spentwash generation shall not exceed 480 KLD. The spent wash after biomethanation
 in the bio-digester shall be concentrated to 180 KLD and composted with press mud to
 achieve zero discharge. The compost shall confirm to the standards as stipulated in
 Annexure-III.
- 3. H2S scrubber shall be installed for control of emission from bio-digester.
- 4. The total Composting and storage area should be raised or protected by bunds so that the surface run-off during rainy season does not wash off any sent wash and lead to contamination of groundwater and surface drains. The compost yard shall conform to the specifications as stipulated in the CPCB protocol.
- 5. The spent wash shall be stored in an impervious pueer lagoons. The spent wash lagoons shall have proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. As per the CPCB recommendations, storage of concentrated spent wash shall not exceed 30 days capacity. The applicant shall synchronize the generation of spent wash and composting activity in such a way that composting is avoided during rainy season.
- The applicant 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.
- 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.
- 8. In the compost yard there shall not be any material/ press mud/ compost left before the start of rainy season. It shall be kept clean and the storm water during the rainy season shall be collected in the lenchate tank. Leachate tank capacity shall be such that it shall bold the rain water from the compost yard completely and this shall be taken to 30 days holding tank and used for composting along with the fresh effluent.

IV. MOLASSES STORAGE

- 1. (a) The applicant shall store the molasses only in steel tanks covered with proper roofing.
 - (b) Adequate number of steel tank shall be provided for molasses containment. Containment of molasses in earthen pits is not allowed.

SENIOR ENVIRONMENTAL OFFICER

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The applicant shall obtain permission from the Board to dispose-off the spoiled melasses and it shall be disposed off in a manner as laid down by the Board.

V. WATER CESS:

The applicant shall provide water meter at all the intake points as under Section (5) of Water Cess Act and shall file the Water Cess returns regularly and also pay the Cess Assessed with the time stipulated.

VL SELF MONITORING AND REPORTING:

- 1. The applicant shall at his own cost get the treated trade effluent samples collected from the place specified and analyze the same once is a month for the parameters indicated in Annexure-I 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
- 2. The spent wash stored in the lagoons shall be analyse in Board/MoEF empanelled laboratory every 15 days for pH, EC, FDS, Na, K, Ca, Mg, CI, SO₁, PO₁, BOD and TKN.
- 3. Ground water samples shall be monitored two times in a year, in April-May and October-November periods. Samples shall be collected from first water bearing strata from hand pump. Sampling points shall be uniformly spread in the command area at the rate of one station per 50 hectures 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 Officer of the Board.
- 4. At least five soil and water quality stations shall be located in areas where spent wash irrigation is not practiced.
- 5. In case of deterioration in ground water quality distillery shall provide alternate drinking water supply.
- 6. All stations shall be monitored regularly and continuously even in the years when the field are under rest. The location of the monitoring stations shall not be changed.
- The applicant shall be responsible for reclamation of soil and ground water.
- The applicant shall at his own cost get the trade effluent samples specified in condition I(1) & II (1) and analyse the same every month for the parameters indicated in condition No I(2)& II(2) and shall submit in duplicate the report to the Regional Officer.
- 9. Monthly extract of daily product manufactured as well as effluent discharged-sewage/ trade shall be submitted to the Regional Officer regularly every month.
- 10. 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 once in quarter.

SENIOR ENVIRONMENTAL OFFICE

VII. DISCHARGE OF EMISSIONS UNDER THE AIR ACT:

- The discharge of emissions from the premises of the applicant shall pass through the stacks/ chimneys mentioned in Annexure-II to the consent, 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 stacks/ chimneys beights shall be as per Annexure-II.
- The applicant shall operate the air pollution control equipment as specified in the Annexure-II, continuously so as to ensure that the emission does not exceed the limits specified. The operation of the control equipment shall be synchronized with the operation of the emission source.
- The applicant shall maintain port hole, access platforms for carrying out stack sampling with electrical outlet points for sampling the emissions from port holes in all the stacks, as per the guidelines.
- 4. The applicant shall treat and dispose any liquid effluents produced in the course of control of air pollution by scrubbing, conditioning etc., of flue gases in accordance with the provisions of the Water (Prevention and Courtel of Pollution) Act, 1974. The details of such discharges shall be quantified and monitored immediately after commissioning and details of collection, treatment and disposal shall be furnished to the Board.

VIII. SELF MONITORING AND REPORTING BY THE INDUSTRY

- 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.
- 2. 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. Monitoring shall include the parameters, PM_{2.5}, PM₁₀ sulphur-di-oxide, Nitrogen Oxide 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.
- The applicant shall regularly monitor the ground water of the wells situated in agricultural where treated trade effluent is used for irrigation for water quality parameters and submit report.
- (a) The applicant shall maintain the on line continuous stack emission monitoring system for measurement of emissions parameter like PM and monitoring data shall be connected & up loaded to KSPCB and CPCB's servers.
 - (b) The applicant monitor the treated effluent through on line continuous effluent quality monitoring system at the out let of sugar plant ETP for the measurement of parameters flow, pH, COD, BOD, TSS and monitoring data shall be connected & up loaded to KSPCB and CPCB's servers.

SENIOR ENVIRONMENTAL OFFICER

ER

- (c) Once in a month by 5°, the max, min & Avg values and also the number of time, the exigencies recorded shall be submitted to R.O
- 5. The applicant shall;
- a) Submit the monitoring results as under;
- 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. ENVIRONMENTAL STATEMENT

The applicant shall submit the Environmental Statement every year for the period ending 31th March in Form V as per Rule 14 of Environment (Protection) Rule, 1986 on or before 30th September.

X. HAZARDOUS WASTE (MANAGEMENT, HANDLING AND TRANSBOUNDRY MOVEMENT) RULES 2008

The applicant shall comply with the Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008.

XI. SOLID WASTE MANAGEMENT

The solid waste collected in the factory premises as sweepings, wastage from packaging, empty containers, residue, sludge including those from air pollution control equipments shall be disposed off scientifically to the satisfaction of the Board, so as not to cause fugitive emissions, dust problems or water pollution problems through leaching etc., of any kind.

SL No.	Type of wastes	Quantity (MT/D)	Mode of disposal
1	Bagasse	1305 MT	Shall be used as fuel to boilers
2	Boiler Ash	22 MT	Shall be used for Bio-
3	Fly Ash		composting and excess if any sold to brick manufactures and farmers
4	Press mud	180 MT	Shall be used for
5	ETP Sludge	0.02 T	Biocomposting.
6	Yeast Sludge	2.25 T	STATE OF THE STATE

XII. NOISE POLLUTION CONTROL:

- The applicant shall comply with the ambient noise standards as stipulated under the EP Rule, 1986.
- The applicant shall provide acoustic measures to the DG Sets as per Sl. No. 94 in Schedule-I of EP Rules.

SENIOR ENVIRONMENTAL OFFICER

XIII. GENERAL

- The Board reserves the right to review, impose additional conditions, revoke, change or after terms and conditions of this consent.
- This consent for discharging sewage and/ or trade effluents from the factory shall not be taken or construed as the Board's permission to continue to discharge the sewage and/ or trade effluents from the factory into the place (as mentioned in this consent Order) which pollutes the water there-in endangering the life and property of the persons using the said water before, during or after the periods indicated in the Terms and Conditions of this Consent Order.
- 3. The applicant shall not change or alter either the quality or quantity or rate of emission or install/ replace or alter the air pollution control equipment, change in raw material or manufacturing process resulting in change in quality and/ or quantity of emissions without the prior permission of the Board.
- 4. The industry shall not change or alter (a) raw materials or manufacturing process, (b) change the products or product mix (c) the quality, quantity or rate of discharge/ emissions and (d) install/replace/alter the water or air pollution control equipments without the prior approval of the Board.
- The applicant shall promptly comply with all orders and instructions issued from time to time by the Board or any other officers of the Board duly authorized in this behalf.
- 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
- The applicant shall not store any saw materials on maked ground. The applicant shall construct impervious dyke walls/tank form for storage tanks constructed above ground level.
- 8. The applicant shall display flow diagram of the pollution control system at the site.
- The applicant shall appoint a qualified environmental engineer/ scientist for environment management in the factory and also establish an environmental cell.
- Applicant shall maintain the Environmental Management System in conformity with ISO 14001:2004 standards.
- The applicant shall comply with the guidelines under Corporate Responsibilities for Environment Protection (CREP) 2003 issued by Ministry of Environmental Forests and CPCB.
- 12. 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.

SENIOR ENVIRONMENTAL OFFICER

- An inspection book shall be opened and made available to the Board Officers during their visit to the factory.
- 14. The applicant shall provide alternate power supply sufficient to operate all pollution control equipments utilized by the applicant to maintain compliance with the terms and conditions of this consent.
- 15. The entire premises shall be always kept clean. The effluent holding area, inspection chambers, outlets, flow measuring points should be made easily approachable.
- The applicant shall display the consent granted in a prominent place for perusol of the inspecting Officers of the Board.
- The applicant is heirs, legal representatives or assigns shall have no claims what so ever to the continuation or renewal of this consent after expiry of the period of consent.
- 18. The industry shall transport and store the raw materials in a manner so as not to cause any damage to environment, life and property. The applicant shall be solely responsible for any damages to environment.
- 19. The applicant shall plant and maintain adequate number of trees in and around the industry to arrest the dust emissions escaping into the surrounding area and improve the environment and aesthetic appearance of the industry and the surrounding
- 20. A well designed minwater harvesting shall be put in place. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate minwater harvesting technology within a period of three months and details shall be furnished. Status of implementation shall be submitted to the Regional Office of the Board.
- The applicant shall make an application for consent at least 120 days before expiry of this
 consent.
- Industry shall comply with all the consent conditions and furnish report within 30 days to the Regional Office.

For and on behalf of the Karnataka State Pollution Control Board

SENIOR ENVIRONMENTAL OFFICER

ANNEXURE-I

STANDARDS FOR DISCHARGE OF TREATED TRADE EFFLUENT ON LAND FOR GARDENING/IRRIGATION

SL No.	Parameters	Tolerance limits.
L	Colour and Odour.	See Note.
2	Suspended Solids mg/L, Max.	100
3,	pH value.	6 to 8.5
4.	Oil and Grease mg/L. Max.	10
5.	Bio-chemical Oxygen Demand, mg/l. (3 days at 27°C) max.	30

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

ANNEXURE - II 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	

SENIOR ENVIRONMENTAL OFFICER,

ANNEXURE-III Chi Chinney Attached to Minimum Rate of Constituent Toleran. Air Pollution Control Chimney Height to be Provided emission Nm7Hr. a to be or fimits significant to be installed, in addition to mis controlled Mg/ Nm 47 above ground level (AGL)/ in the Chinney height as per emission. Cal (3) roof level (ARL) in m 150 130 TPH Boiler (Agro 60 M AG1 ESP PAI based) 18 TPH Boiler 42-M AGL PM 150 ESP 1250 KVA DG Set 30 M AGL Acoustic measures Note: The Noise level shall not exceed 75 dB(A) leq. During day time (6 AM to 9 PM) and 70 dB (A) leq. during night time (9 PM to 6 AM). SENIOR ENVIRONMENTAL OFFICER Arts, Adapti James Andreas Chill-Child

Copy of combined CFO for year 2015-16 for 4500 TCD sugar, 60KLD distillery and 24 Mw Cogen



Recognised by Ministry of Environment & Forests (MeEF) Cast of India, New Debt.

AN ISO ROTESTON, & CHEAS TOXICS DUTTHE! Laboratory

Plot No. 487, Kenbergi Industria Arvo, Auto Regist belgasin-550 015. Ph : 0501-2454012, Pax : 0501-2454015

E-mail: shandou2@gmail.com Website: www.shants.in

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Name of the Station

r Near Main Gate

Name of the Project

M/s Athani Sugars Pvt, Ltd. Vishmuannanagar, Post: Navalihal-591234, Tq: Athani, Dist Belagavi, Karnataka

Sample Collected by

M/s. Environmental Health and Safety Research & Development Centre Unit II, Helagavi - 590015.

Date of Collection

: 26.12.2015

Particulars of Sample Collected

1 Ambient Air collected through Fine Particulate Sampler - APM 550 Respirable Dust Sampler - 460NL

Date of Sample Receipt : 29.12.2015

Sample Number

: EHSRDCU2/ASPL/A/15/12/1267

8. Report to be Sent

1 06 17 2015

9. Page No

Tof to

SLNo	Parameters	Unit	Results	NAAQ Standards	Presocol
7.	Pected of sampling/Time	Him	9,00am-5.00pm	104	
-	Particulate Matter (PM is)	ug/m?	76	100	15: 518Z (P 23)-2006
3.	Particulate Matter (PM 21)	μg/ m ³	39	-60	USEPA 40 CFR (P 53
4	Sulphur dioxide (50s)	ug/m³	3.26	80	(S: 5182 (P2)-2001
- 5	Nitrogen dioxide (NO _I)	mg/ im ³	23.4	80	IS: 5182 (P6)-2006

As per NAAQ Standards, Report Status - The measured values for the above parameters are INFERENCE within the standards.

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Recogniser by Ministry of Emigration & Persula (MaEF) jest of India, New Cetti

Au SD 98012006, & CHEAS 10012007 Certiful Laboratory

Feet No. 457, Karibergi Industrial Area, Auto Rages

Belgium - 500 Dts.

Ph | 0001-2054012, Fig. : 6831-0180211

E-mail: etunios/2@grant.com Website : www.ahards.in

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Name of the Station

Near Compost Yard

Name of the Project

M/s Athani Sugars Pvt. Ltd. Vishnuannanagar, Post: Navalthal- 591234,

3. Sample Collected by

Tq Athani, Dist Belagavi, Kamataka M/s. Environmental Health and Safety Research & Development Centre Unit II, Belagavi - 590015.

26.12.2015

4. Date of Collection Particulars of Sample Collected

Ambient Air collected through Fice Particulate Sampler - APM 550 Respirable Dust Sampler - 460NL

6. Date of Sample Receipt : 29.12.2015

7. Sample Number

: EHSRDCU2/ASPL/A/15/12/1268

8. Report to be Sent

06.12.2015

9. Page No.

2 of 16

SLNo	Parameters	Unit	Results	NAAQ Standards	Protucol
1	Period of sampling/Time	Then	9.15am-5.15pm	NS.	
2	Particulate Matter (PM III)	ug/m³	84	100	IS: 5182 (P 23)-2006
7	Particulate Matter (PM 23)	ug/m³	41	00	USEPA 40 CFR (P 50
4	Sulphur dioxide (50a)	ug/ m³	2,99	80	Es: 5182 (P2)-2001
4	Nitrogen dioxide (NO ₂)	μg/ m³	14.93	807	IS, 5182 (P6)-2006

As per NAAQ Standards, Report Status: - The measured values for the above parameters are within INFERENCE the standards.

***Dad of Beginn?**





Pacagoises by Ministry of Environment & Foresto (Matt) Sout, of Local New Doct.

As ISO 9001 2005. A CHSAG 19001 2007 Cartified Laboratory

Plot No. 45T, Kanbergi Industrial Area, Auto Negos Belgaury - 390 015. Ph : 0801-24M012, Fee: 0831-2454215 (Firsall : ehertra/2@gnal.com Website : www.eherdc.in

Test Report

ANALYSIS REPORT FOR STACK SOURCE EMMISSION

Stack ID

Beiler 130 TPH

Name of the Industry

M/s Athoni Sugars Pvt. Ltd. Vishnuannanagar, Post Navalihal- 591234,

Tq: Athani, Dist: Belagavi, Karnataka M/s. Environmental Health and Safety Research &

Sample Collected by

Development Centre Unit II, Belagavi - 590015

Date of Collection 4. 5. Particulars of Sample 26.12.2015

Collected

Emissions from stack collected through Stack Sampler V551

29:12.2015

Date of Sample Receipt 6.

Sample Number

EHSRDCU2/ASPL/S/15/12/1269

8. Report to be Sent

05.12.2015 3 of 16

9. Page No

GENERAL DETAILS

Date of Monitoring	26.12.2015
Ambient Temperature (°C)	30
Stack Temperature (°C)	163
Velocity (m/s)	7.86
Diameter (m)	3
Cross Sectional Area in meter square (m1)	7.065
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	3390043H
Dust Emission Rate	14.109

RESULTS

4	Protocol	Unit	Rosult	Standard
Parameters	Lincocia	10000000	+04.68	150
Particulate Matter	IS: 11255, (P1)	mg/Nm3	101.93	130
Nitrogen dioxide	15: 11255, (P7)	mg/Nev	30.7	- 77
Sulphur dioxide	19, 11255, (172)	mg/Nm3	43.2	171

INFERENCE

As per KSPCB Standards.

Report Status: - The measured values for the above parameters are within the standards and there are no standards available for NO:4 SO:

or End of Report or

Authorized Signatory

NOTE: The report is subject to the terms & conditions mentioned overleaf



Recognises by Ministry of Environments & Fursion peaking Gov. of Instal How Delhi.

An 850 9081-2083, & CHS-RS 16081-2007 Certified Laboratory

Pict No. 457, Karbargi Industrial Area, Auto Angar, Balgaran - 500 OTE. Phr.: 0851-2454012, Par.: 0831-2454215 Li enali : ebodou2@grad over Wellada : www.ahsrdc.ir

Test Report

ANALYSIS REPORT FOR STACK SOURCE EMMISSION

1. Stack ID

DG 1250 KVA

2. Name of the Industry

M/s Athani Sugars Pvt. Ltd. Vishnuannanagar, Post: Navalihal- 591234.

Tq: Athani, Dist Belagavi, Karnataka

3. Sample Collected by

M/s. Environmental Health and Safety Research & Development Centre Unit II, Belagavi - 590015

4. Date of Collection

1 26.12,2015

5. Particulars of Sample Collected Emissions from stack collected through

Stack Sampler V551

6. Date of Sample Receipt

29.12.2015

7. Sample Number

EHSRDCU2/ASPL/S/15/12/1270

8. Report to be Sent

1 06.12.2015 1 4.of 16

9. Page No

GENERAL DETAILS

Date of Monitoring	26:12:2015
Ambient Temperature (IC)	30
Stack Temperature (*C)	183
Velocity (m/s)	9.57
Diameter (m)	0.4
Cross Sectional Area in meter square (m2)	0.126
Quantity of flue gas discharged into atmosphere (Nml/h)	2873.89
Dust Emission Rate	0.282

RESULTS

Parameters	Protocol	Unit	Result	Standard
Particulate Matter	(5: 11255, (P1)	mg/Nm?	98,04	150
Nitrogen dioxide	IS: 11255, (P7)	mg/Nm?	17.53	941
Sulphur dinxide	IS: 11255, (P2)	mg/Nm3	41.14	

INFERENCE

As per KSPCB Standards,

Report Status: - The measured values for the above parameters are within the standards. There are no standards available for NO₂&SO₂

End of Report

Authorized Signatory

NOTE. The report is subject to the terms & conditions mentioned overless



Recognises by Ministry of Environment & Forests (MeEF) Gave of India, New Detri,

An ISO 9801-2006, & OHSAS 18001-2007 Contine Laboratory

Puri No. 457, Korburgi Industrial Area, Auto Nicple, Belgaum - 990 015, Ph. 10831-2456012, Fax: 10831-2454215 E-mail: ahordox/@gmail.com Website: www.shanticin.

Test Report

ANALYSIS REPORT FOR STACK SOURCE EMMISSION

1. Stack ID.

Boiler 38 TPH

2. Name of the Industry

M/s Athani Sugars Pvt. Ltd. Vishruannanagar, Post: Navalihal-591234,

Tq: Athani, Dist: Belagavi, Karnataka

3. Sample Collected by

M/s. Unvironmental Health and Safety Research & Development Centre Unit 11, Belagavi - 590015

Cheanstaine

4. Date of Collection

25.12.2015

 Particulars of Sample Collected Emissions from stack collected through

Stack Sampler VSS1

6. Date of Sample Receipt

29.12.2015

7. Sample Number

EH5RDCU2/A5PL/S/15/12/1271 06:12:2015

8. Report to be Sent

5 of In

9. Page No.

GENERAL DETAILS

Date of Monitoring	26.12.2015
Ambient Temperature (PC)	30
Stack Temperature (PC)	136
Velocity (m/s)	7.95
Diameter (m)	1.6
Cross Sectional Area in meter square (m2)	2.01
Quantity of flue gas discharged into atmosphere (NmVh)	42583.35

RESULTS

Parameters	Protocol	Unit	Result	Standard
Particulate Matter	IS: 11255, (P1)	ing/Nm1	134.69	150
Nitrogen dioxide	IS: 11255, (P7)	mg/Nm1	29.54	- 41
Sulphur dioxide	15: 11255, (P2)	mg/Nm3	40.8	-

INFERENCE

As per KSPCB Standards,

Report Status: - The measured values for the above parameters are within the standards. There are no standards available for NO₂4cSO₂

*** End of Report***

Authorized Signatory

NOTE: The report is subject to the terms & conditions municipal overload



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An ISO 5001/2008. A CHISAS 18081 2007 Certified Laboratory

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Test Report

AMBIENT NOISE LEVEL MONITORING REPORT

1. Name of the Project

M/s Athani Sugars Pvt. Ltd.

Vistimuannanagar, Post: Navallhalt 591234. Tq: Athani, Dist Belagavi, Karnataka

Sample Collected by

M/s. Environmental Health and Safety Research &

Development Centre Unit II, Belagavi - 590015

3. Date of Collection

26.12.2015

Particulars of Sample Collected

: Ambient Noise Level collected through

Sound Level Meter EQ-8852

5. Date of Sample Receipt

29.12.2015

6. Sample Number

EHSRDCU2/ASPL/N/15/12/1272 1273, 1374 &

1275

7. Report to be Sent

1 06,12,2015

Method Adopted

Instrument Method

Page No

6 of 16

377	Code Sample Location			Parameters			
Code No.		Time Frequency	Max.	Min.	dB(A)	75.0	
1272	Near Main Gate	11.32AM - 11.42AM	76.5	60	66,04	dBC	
1273	Near Cane Carrier	11.50AM - 12.05PM	71.6	55.7	68.74	- Da	
1274	Near Guest House	12.10PM - 12.25PM	81.7	33	67.41		
	Near Compost Yard	12.35PM - 11.50AM	76.5	60	68,04		

- Day Time is recknowd between 6 A M and 10 PM
- Night Time is reckened between 10 P.M and 6 A.M.
- $L_{\alpha_{ij}}$ It is energy mean of the mass-level over a specified posted
- full (A) Log denotes the time weighted average of the level of sound in decibels on scale A which is retaileds to human houring.
- A "decibel" is a unit in which noise is measured.
- "A", in dB (A) L_{sp} denotes the frequency weighting in the measurement of noise and corresponds to Enquency response characteristics of the human our.

INFERENCE

As per CPCB Standards,

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

standards.

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An 150 NOT 2005. & CHSAS 1901 2007 Certified Laboratory

Plot No. 457, Konburgi Industrial Area, Auto Nilgilir, Begaute - \$90 015,

Ph: 0831-2454012, Fax: 0831-2454215

c-vuil : eterto@@grail.com Website : www.shodt.in

Test Report

ANALYSIS REPORT OF EFFLUENT QUALITY

Name of the Location

: ETP Un-Treated Water

Name of the Project

: M/s Athani Sugars Pvt. Ltd. Vishnuannanagar, Post: Navalihal- 591234,

3. Sample Collected by

Tq: Athani, Dist: Belagavi, Karnataka : M/s. Environmental Health and Safety Research & Development Centre Unit-II, Belgaum- 590015.

1 26 12 2015

Date of Collection Particulars of Sample

1 ETP Un-Treated water, Grab Sampling

Collected

Date of Sample Receipt 7. Sample Number

1 29:12:2015 + EHSRDCU2/ASPL/WW/15/12/1276

Analysis started on

1 29.12.2015

Analysis Completed on

1 06.12.2015 : 06.12.2015

10. Report to be Sent

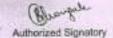
‡ 7 of 16

11. Page No. 12. Protocol

1 APHA,22nd Edition

SLNo	Parameters	Test Method	Unit	Result
1.	pH	4500H1 B		5,97
2	Colour	2120 8	Hazen	<5.0
3.	Oil & Greese	5520 8	mg/L	BOL
4.	800	5210 H	mg/L	1200
5.	Chloride	4500-C1 il	mg/L	74.8
6.	Sulphate	4500-50,2	mg/L	129.6
7	Total Dissolved Solids	2540 C	mg/L	1004
10	Total Supposded Solide	2545 (2	me/L	28

*** End of Baper***





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As ISO 9011 0006, & ORSAS 18781/2007 Certified Laterality

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Test Report

ANALYSIS REPORT OF EFFLUENT QUALITY

1, Name of the Location

Name of the Project

Sample Collected by 3.

Date of Collection

Particulars of Sample . 5, Collected

Date of Sample Receipt 6.

Sample Number

Analysis started on Analysis Completed on

10. Report to be Sent 11. Page No.

12. Protocol

: ETP Treated Water

M/s Athani Sugars Pvt. Ltd.

Vishmuannarsagar, Post: Navalihal- 591234. Tq: Athuni, Dist: Belagavi, Kamataka

M/s. Environmental Health and Safety Research & Dovelopment Centre Unit-II, Belgaum-590015

26.12.2015

: ETP Treated Water, Grab Sampling

1 29.12.2015

EHSRDCU2/ASPL/WW/15/12/1277

: 29.12.2015

: 06.01.2016. : 06.01.2016

1 8 of 16

: APFIA,22st Edition

SLNo:	Parameters	Test Method	Unit	Result	KSPC0 Limits
1.	pH	4500H-B		7.14	5.5-9.0
2	Colour	2120.0	Hazen	<5.0	17
3.	Oil & Grease	5520 8	mg/L	BDL	10
4	BOD	5210 H	mg/1	90	100
5.	Chloride	4500-CL II	mg/L	50.6	600
6.	Sulphate	4500-SO ₄ ³	mg/L	-212	1000
2	Total Dissolved Solids	2540 C	mg/L	1154	2100
8.	Total Suspended Solids	2540 D	mg/L	120	200

As per CPCB Standards, INFERENCE Report Status: - The measured values for the above parameters are within the standards.

*** End of Report ***



Receptived by Micriery of Environment & Foresis (Mollif) Can't of India, Nav. Debt.

An 150 0001 2008. IL OHERS 10001/2007 Certified Laboratory

Plot No. 457, Kanbergi Industrial Area, Auto Hagus.

Delgaum - 590 015,

Ph.: 0821-2454812, Fax: 6831-0454215

E-euil: enotos/@grad.com Websits: wow.enorm.tr

Test Report

ANALYSIS REPORT OF EFFLUENT QUALITY

I. Name of the Location

: Raw Spent Wash

2. Name of the Project

1 M/s Athani Sugars Pvt, Ud.

Vishmannannger, Post: Navalihal- 997234.

3. Sample Collected by

Tq: Athani, Dist. Belagavi, Karnataka : M/s. Environmental Health and Safety Research &

2011 C. C. C. C.

Development Centre Unit-II, Belgauen 590013. : 26.12.2015

Date of Collection
 Particulars of Sample

: Raw Spont Wash, Grab Sampling

Collected
6. Date of Sample Receipt

29,12,2015

Date of Sample Rec
 Sample Number

: EH5RDCU2/ASPL/WW/15/12/1278

8. Analysis started on

: 29.12.2015

9. Analysis Completed on

: 06.01.2016 : 06.01.2016

Report to be Sent
 Page No.

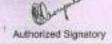
1 9 of 16

12, Protocol

: APHA,229 Edition

5LNo	Parameters	Test Method	Unit	Result
1	pH	4500H-B		9.10
2	Alkalinity	2320 8	mg/L	6000
3	Oll & Grease	5520 B	mg/L	81)4
4	BOD	S210 B	mg/t.	15000
5	COD	5220H	mg/L	55200
0	Chloride	4500-C1 B	mg/L	3202.9
7	Sulphate	4500-5O ₂ 3	mg/1.	5897
8	Total Suspended Solids	2540 D	mg/L	2372
0	Potassium as K	3500-K	mg/L	14400
10	Total Kjeldhal Nitrogen	4500 NHz 8&C	mg/L	28.84
11	Total Solids	254(0)	mg/L	59,933

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Recognised by Minory of Environment & Forests (MoEF) Govern filled a Hew Dethi.

At 150 9901,2000, A CHEAS 160(1,200) Curtiled Latterstory

Flot No. 457, Kontary Industrial Area, Auto Wagar

Belgaun - 590 011;

Ph : 8891-2654012; Fax: 0831-2454215

E-mil : shartaul@grad.com Wabsite | www.monto.in

Test Report

ANALYSIS REPORT OF EFFLUENT QUALITY

Name of the Location 1

Name of the Project 2.

Bio-Methanated Spent Wash M/s Athani Sogars Pec. Ltd.

Vishmuannanagar, Post Navalibal-5912'4,

Tq: Athani, Dist: Belagavi, Karnataka

Sample Collected by

M/s. Environmental Health and Safety Research & Development Centre Unit-II, Belgaum- 590015

Date of Collection

Particulars of Sample 5. Collected

26.12.2015

Bio-Methanated Spent Wash, Grab Sampling

Date of Sample Receipt

1 29.12.2015

Sample Number

: EHSRDCU2/ASPL/WW/15/12/1279.

Analysis started on

: 29.12.2015

Analysis Completed on

: 06.01,2016

10. Report to be Sent

: D6.01.2016 1 10 of 16

11. Page No. 12. Protocol

t APELA_22# Edition

SI.No.	Parameters	Test Method	Unit	Result
i i	S. WOWELLOUIS	4500T-1* B		7.5
-	pH	2329 B	mg/1	14800
4	Alkalinity	5520 B	mg/L	8101.
3	Oil & Grease	5210 B	mjt/L	8000
6	BO0	52208	mg/t	27600
6	Chloride	4500-CH5	mg/L	91115
7	Sulphate	4500-90-2	ing/L	5845
4	Total Suspended Solids	2540 (2	mg/L	272
0	Potassium as K	3500-K	mg/L	33000
10	Total Kieldhal Nitrogen	4500-NH5-B&C	mg/L	156.24
11	Total Solids	2540B	mg/L	25756

Confre Repon





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An ISO 5001,2008, & CHISAS 10001-2907 Certific Educators

Plot No. 457, Karthergi Industrial Area, Aulti Room, Belgaum - 500 015.

Ph : 0831-2454012, Fee: 0831-2454215

G-real : electro/@great con: Website : www.cfortc.in

Test Report

ANALYSIS REPORT OF EFFLUENT QUALITY

1. Name of the Location

. Multi-Effective Evaporation Outlet Water
 . M/s Atheni Sugars Pvt. Ltd.

2. Name of the Project

Vishmaannangar, Post: Novalihal-591234, Tq: Atlani, Dist Belagavi, Karnatika

3. Sample Collected by

 M/s. Environmental Health and Safety Research & Development Centre Unit-II, Belgaum 590015.

4. Date of Collection

: 26.12.7015

5. Particulars of Sample Collected : Multi-Effective Evaporation Outlet , Grab Sampling

Collected

Date of Sample Receipt

Date of Sample Rec
 Sample Number

: 29.12.2015 : EHSRDCU2/ASPL/WW/15/12/1280.

Analysis started on
 Analysis Completed on

: 29.12.2015 : 06.01.2016

Analysis Completed on
 Report to be Sent

: 06.01.2016

Tl. Page No.

: 11 of 16

12. Protocol

t APHA.22*/ Edition

SLINO.	Parameters	Test Musbook	L/nii	Besult
1	pH	4500H° H		9.06
2	Alkalinity	2320 8	mg/L	36000
3	Oil & Grease	5520 B	mg/L	BDL.
4	80D	5210 B	mg/L	11000
5	000	52200	mg/L	33200
6	Chloride	4500-CUB	mg/L	14979
7	Sulphate	4500-SC1/2	mg/L	12281
8	Total Suspended Solids	2540.0	mg/L	nla
-10	Potassium as K	3500-K	mg/t	38400
10	Total Kjeldhal Nitrogen	4500 NT L-B&C	reg/L	21.92
11	Total Solids	25400	nig/L	2/5472

End of Report





Recognised by Ministry of Environment & Forests (MAEE) Gevs. of India: New Debt.

An ISO 5001 2008. Is CHISAS 10001 2007 Christiad Laboratory

Pict the: 457, Karbargi Industrial Area, Auto Nagar, Balgourn - 665-015,

Ph.: 0821-2454012, Fax: 0831-2454215

E-euil : etectru/@grad.com Website : www.eterduin

Test Report

ANALYSIS REPORT OF FRESH WATER QUALITY

Name of the Location

Name of the Project

Sample Collected by 3.

Date of Collection Particulars of Sample

Collected Date of Sample Receipt

Sample Number

8. Analysis started on

Analysis Completed on 9.

10. Report to be Sent Page No.

11. 12. Protocol Bore Well Water (Industrial Premises)

M/s Athani Sugars Pvt. Ltd.

Vishnuannanagar, Post Navalihal-591234. Eq: Athani, Dist: Belagavi, Karnataka

: M/s. Environmental Health and Safety Research & Development Centre Unit-II, Belgnum- 590015

26.12.2015

1 Boro Well Water, Grab Sampling

29,12,2015

: FHSRDCU2/ASPL/W/15/12/1281

1 29.12.2015

1 06.01.2016

1 06.01.2016

1 12 of 16

: APHA,22rf lidition

SLNo	Parameters	Protocol	Unit	Result	Std. 15 10500:201 (Second Revision	
			130		DL	Pt
1	phi	-4500H*-B		8,4	6.5	-8.5
. 2	Colour	2120 8	Hazen	<5.0	5	15
- 3	Odour	13000		Lin-Objectionable		ectionable
-0	Turbidity	2130 B	NIU	2.78		5-
-15	Total Dissolved Solids	2540 C	mg/L	226	500	2000
6	Total Hardness	2340 C	mg/L	50	200	6(33)
3	Calcium	3500-Ca	mg/1	14.4	75	211(1
8	Magnesium	3500 Mg II	mg/L	4.85	20	100
19	Chloride as Cl	4500-C) II	mg/4	39.42	250	1000
-10	Sulphase as SO ₄	4509-504	mg/L	30.8	200	400
11	Fluoride as F	4500FT)	mg/L	0.69	- 1	1.5
12	Iron as Fe	3500 Fe B	mg/1	0.05	in theres	0.3
13	Nitrate as NO:	4500-NO+	mg/L	7.7		#5
14	Total Colliform	9222 B	CFU/10	Nil		10
15	Faccal Coliform	922213	CFU/10	Nil	13 150	Nil

INFERENCE

As per 15 10500:2012|Second Revision),

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

""End of Report"



Pacagonisist by Ministry of Environment & Forests (MoCF) Savt of Irela New Delhi.

ANISO 9001 2008, & CHEAS TRUTTION CANNEL Information

Plot No. 457, Kanbergi Industrial Anse, Auto Nagar

Bulgaum - 860 615.

Pb : 0831-2454312, Fex : 0831-2454215

6-reals shardou?@gmail.com Website : www.chartc.in

Test Report

ANALYSIS REPORT OF FRESH WATER QUALITY

Name of the Location 1.

Name of the Project 3

: Bore Well Water (Guest House) 1 M/s Athani Sugars Pvt 1 id

Vishmuannanagar, Post: Navalihal-591234. Ter. Athani, Dist: Belagavi, Karnataka.

Sample Collected by

: M/s. Environmental Health and Safety Research & Development Centre Unit-II, Belgaum-590015

Date of Collection 5. Particulars of Sample Collected

1 26.12.2015

4 Born Well Water, Crab Sampling.

Date of Sample Receipt

7. Sample Number

: 29.12.2015 : EHSRDCU2/ASPL/W/15/12/1282

8. Analysis started on

1 29.12.2015

9. Analysis Completed on : 06.01.2016

1 13 0 16

10. Page No. Report to be Sent

± 06.01.2016

12. Protocol

1 APFIX, 22rd Edition

24.41	LNo Parameters	Protocol	Unit	Result		Revision)
51'50	Parameters	TO SUPLA			DL	P1.
+	119	450014° B	-	8.44	6.5	8.5
2	Colour	2120 8	Hazen.	<5.0	5	15
3	Dilour	-	-	Un Objectionable	Lin-Obj	ectionable
24	Turbidity	2130 B	NU	2,69	1	3
5	Total Dissolved Solids	2510 C	mg/L	329	500	2000
6	Total Herdness	2340 C	mg/L	52	200	600
y	Calcium	3500-Ca	mg/1.	MA	75	200
K	Magnesium	3500 Mg B	mg/1.	3.88	30	100
- 0	Chloride as Cl	4500-C1 IS	met/L	39.4	258	1000
10	Salphate as 5O ₁	4500-SOV	rog/L	37,5	200	430
11	Flucride as F	4500F D	reg/t.	0.82	1	15
12	Iron as Fe	3500-Fy B	mg/L	6.138		0.3
13	Nitrate as NOs	4500-NOs II	ing/L	1.61		45
19	Total Coliform	9222.8	CFU/100	1	1	10
15	Fresal Coliform	9222 D	CFU/100	NII		NII

INFERENCE

As per IS 10500:2012[Second Revision],

Report Statuse - The measured values for the above parameters are within the Standards.

and as in Reporter



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An ISO 9081 2908. IL OHSAS 18081 2907 CHIRING LUDWINOV

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Test Report

ANALYSIS REPORT OF FRESH WATER QUALITY

Name of the Location

Name of the Project

1 Well Water (Vittal Sembadi)

M/s Athani Sugars Pvt. Ltd. Vishmuannanagar, Post Navalihal 591234. Tq: Athani, Oist: Belagavi, Karnataka

Sample Collected by 3,

: M/s. Environmental Health and Safety Research & Development Centro Linit-II. Belgaum-590015

Date of Collection

5. Particulars of Sample Collected

1 26,12,2015 t Open Well Water, Grab Sampling

6. Date of Sample Receipt

7. Sample Number 8. Analysis started on

: 29.12.2015 : HHSROCU2/ASPL/W/15/12/1283 1 29.12.2015

9. Analysis Completed on

1 06.01,2016

10. Report to be Sent

r 06.01.201n : 14 of 16

11. Page No. 12. Protocol

7 APHA,22= Edition

		warened.	Unit	Result		0800:2012 Revision
St No	Parameters	Protecol	-Comm	(Constitution)	DL.	1.1
1	pH	4500H: B		7,26	6.2	S-8.5
7	Colour	2120 15	Hazen	<5.0	5	15
-	Odour	2000		Un-	Un-Ob	ectionable
3	Turbidity	2130 B	NTU	1.26	1	5
4	Total Dissolved Solids	2540 C	mg/L	885	500	2000
5	Total Hardness	2340 C	mg/L	220	200	600
6		3500-Ca	mg/L	90	75	200
7	Calcium	3500 Mg B	mg/1	4.86	30	100
8	Magnesium Oldoride as Ol	(500-C) II	mg/L	886.9	250	1000
	The same the same to be a second as a seco	4500-SO ₂	mjo/L	209.5	200	400
10	Sulphate as SO ₁	4500# D	mg/L	0.92	1	1.5
11	Pluorido as F	3500-Fe B	img/L	0.17		0.3
12	Iron as Fe	4500-NO	mst/1.	21.9		45
13	Nitrate as NOs	9222 B	CFU/100ms	2	The same	10
1+	Total Coliform	A STATE OF THE PARTY OF THE PAR	CPD/100ml	Nill	111111111111111111111111111111111111111	Nil
15	Faecal Coliform	9222 ()	The Part Livering	1,410	Annual State of the last of th	-

As per IS 10500:2012 [Second Revision].

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

""End of Began""



Recognition by Winistry of Environment & Forests (No.27) Good, of India, New Dehi-

Ar 527 9801 2088, & CHSAS 1908Y 2007 Certified Lisbonskey

Plus No. 457, Karbargi Industrial Area, Auto Nagar, Belgum - 580 015. Ph : 8631-2454012, Pax : 0801-2464215 Evrali : eherdo.@@gmail.com Websita : www.ehordc.in

Test Report

ANALYSIS REPORT OF FRESH WATER QUALITY

Name of the Location Name of the Project

Sample Collected by

Date of Collection

Particulars of Sample

Collected

Date of Sample Receipt

Sample Number

Analysis started on Analysis Completed on

Report to be Sent TIL

Page No. 11.

12. Protocol Well Water (Kareppa Musudge)

M/s Athens Sugars Fvt. Ltd. Vishnuurnanapar, Post: Navalihal-591234.

Tq. Athani, Dist Belagavi, Karnataka

: M/s. Environmental Health and Safety Research &

Development Centre Linit-II, Helgaum- 590015

: 26.12.2015

: Bore Well Water, Grab Sampling.

= 29.12.2015

: EHSRDCU2/ASPL/W/15/12/1284

29.12.2015

1 06.01.2016

1 06,01,2016

1 15 of 16

1 APHA, 22 Felidon

SLNo	LNo Parameters	Protocol	Unit	Result	(Sec	0500:2012 cond sion)
260,000	ECHONOCCA II				DL	Pt.
1	oH	4500H111	-40	7.12	6.5	8,5
2	Cislour	2120 8	Hazen	<5,0	5	15
3	Odowr		P-	Un-Objectional/so	Un-Obj	ectionable
4	Turbidity	2130 B	NTU	1.09		5
5	Total Dissolved Solids	2540 C	mg/L	1228	500	2000
0	Total Hardress	2340 C	mg/L	932	200	000
7	Cnicium	3500-Ca	mg/L	174.2	75	200
	Magnesium	3500 Mg II	mg/I	201.4	30	100
9	Chloride as Cl	4300-C1.0	mg/L	1000.7	250	1000
	Sulphate as 5Os	4500-5(2,1	mg/1	160.7	200	100
10	Fluoride as F	4500F D	mg/L	0.72	1	15
11	The state of the s	3500-Fe f5	mg/L	0.22	1	0.3
12	Trop as Pe	4500-NCh II	mg/L	641	1. 3	45
13	Nitrate as NCh	THE PROPERTY OF THE PARTY OF TH	CFU/100	1		10
-14	Total Colliform	9222.6	AND RESERVED IN	Nil		NIL
15	-Faccal Coliforna	422210	CFU/100	1961		

INFERENCE

As per IS 10500:2012(Second Revision).

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

the Standards.

*** and of Superiors

Authorized Signatory

NOTE: The report is subject to the terms & conditions mentioned overloaf



Recognised by Winistry of Environment & Forests (MoEF)

As 50 W01000, & Owbes MOTION Center Laboratory

Plot No. 457, Kenturgi industrial Area, Auto Regor,

Bolgaum + 390 015,

Pb : 8531-2454012, Fax : 8531-2404215

S-mail: etwniss@genal.com Websits: ever-strantoire

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Name of the Station

: Near Main Gate

Name of the Project

M/s Athani Sugars Pvt. Util.

Vishnuannanagar, Post Navalibul- 991234,

Tip Athon, Dist Belagavi Karnataka

Sample Collected by

M/s. Environmental Health and Safety Research & Development Centre Unit II, Belagavi - 590015.

4. Date of Collection

26.01.2010

Particulars of Sample Collected

Ambient Air collected through Fine Particulate Sampler - APM 500 Respirable Dust Sampler - 460NL

Date of Sample Receipt | 1 60

28.01:2016

Sample Number

EHSMIXCU2/ASPL/A/16/01/1429

Report to be Sent

13.02.2016

2 06 12

SLNo.	Parameters	Unit	Results	NAAQ Standards	Protocal
T.	Persod of sampling/Time	Hos	34 8.30am-8.30am	N5	100
1	Particulate Matter (PM a)	30g/ m ³	23	101	(% 3182 (P 23) 2006
V	Particulate Matter (PM ±i)	ng/m)	34	60	USEPA 40 CFR (P.53)
4	Sulphur disvale (SOs):	48/ m ³	5.1to	80	(5: 5182 (172)-2011
5	Nitrogen (lioxida (NCh)	mg/mi)	10.25	88	15: 5182 (IV)-2000
0.7	Armnonii (NHs)	ug/ m³	18.99	IIX) II (25 hr Average)	Air Sampling and Analysis flook, method 401
7.5	Carbon Monovide (CO)	mg/m³	2.25	4.0 (The Average)	(S \$182 (Part 10): 1999
B.:	Chane (Ch)	μg/ m²	3.62	180 (1 hr Average)	Instrument method
11	Land (Ph)	1987.110*	0.012	1.0 (24 hr Average)	Lab-SOP No. IGHSKDC/SOP/JCP
-10.	Acienic (Ari)	118/102	2301	60 (Aecual Average)	CPCB Guidelines for the
(II)	Nicket (Ni)	ng/m²	8.87	20.0 (Annual Average)	Measurement of Ambient Air Pollutants Volume-1 ,2041
12.	Bount (a) pyrone (Ball)	ng/m²	80%	1.0 (Annual Average)	15/5/182 [17:12]: 2001
13.	Benzanie (Califa)	ng/m'	1038	50 (Annual Average)	18: 5182 (F 11)-2000
14 -	Psdy Acquata Hydrocarbon	ng/m/	MOL	1-II (Annual Average)	15:5182 (P.12)-2004

Note: NS+ Net Specifical; BDL - Below Detectable Limit

INFERENCE

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.

As per NAAQ Standards,

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

TENNENT OF REPORTS





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Art SC 90012906, & CHEAS 18501 2007 Certified Laboratory

Flot No. 45T, Kenturgi Industrial Area. Auto Nagor. Belginary - \$50 016.

Ph 0831-2456012 Fax: 0831-2454215

e-mail: eherbal@gnal.com Wobsite: www.efentr.in

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Name of the Station

Near Compost Yard

Name of the Project

M/s Athani Sugars Pvt. Ltd.

Vishmuannanagar, Post: Navelihal 591234. Tışı Athani, Dist Belogovi, Karnataka

1. Sample Collected by

M/s. Unvironmental Heelth and Safety Research Development Centre Unit II. Belagavi - 590015.

4. Date of Collection

26.01.2016

5. Particulars of Sample Collected

Ambient Air collected through Fine Particulate Sampler - APM 550 Respirable Dust Sampler - 460NL

6. Date of Sample Receipt

28.01.2016

Sample Number

EBSRDCU2/A5PL/A/16/01/1430

1. Report to be Sent

13.02.2016

9. Page No 2 of 17

SLNo	Parameters	Unit	Results	NAAQ Standards	Protocol
4	Period of sampling/Time	His	24 8,30am-8,30am	NS	
12	Particulate Matter (PM si)	µg/m³	79	100	15: 5182 (P 23)-2006
35	Particulate Matter (PM 24)	ug/m ³	Dt-	60	USEPA 40 CFR (P.5R)
4.	Sulphor dioxide (SO ₀)	sig/ mil	3.7%	60	El 5182 (F2)-2001
35	Nitsugen dimode (NO ₁)	ng/m²	13.15	80	18: 5182 (P6): 2006
A	Acomoniu (NH-)	ng/m³	21.15	400.0 (24 hr Average)	Air Sampling and Analysis Book, method 401
水	Carbon Monoscide (CO)	mg/m)	2.15	4.0 [1 for Average)	15 5182 (Part 10): 1999
8	Ozone (Os)	ug/m³	334	180 (Thr Average)	Instrument method
9.	Land (15)	μg/ m ¹	COY	1.0 (24 hr Average)	Lab-SOP Na BHSRDC/SOP/ICIS
10.	Arsenic (As)	ing/m ^k	1.33	6.0 (Annual Average)	OES/001 based on - CPCB Guidelines for the
11	Nickel (Ni)	ing/m ⁴	3,35	20.0 (Amnual Average)	Measurement of Ambier Air Pollutants Volume-1 2011
12.	Benzo (a) pyrone (BaP)	ng/mi	BDL	1.0 (Annual Average)	PS 5182 (P 12)-2004
13,	Benzene (CuH ₆)	µg/m1	8DC	5.0 (Annual Average)	15: 5182 (1/11)-2006
14.	Paly Armatic Hydrocarbons	ng/m³	BDL	1.0 (Annual Avenue)	15:5182 (P.12)-2004

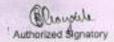
Note: No. - Not Specified: HOL - Below Detectable Limit

INFERENCE

As per NAAQ Standards,

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

PATENDER REPORTS





Recognised by Ministry of Environment & Forestin (MoEF). Govt of India, New Detr.

Art 50 9001 3008. A DHSAS 1001 2007 Centred Lisbowing

Pact No. 457, Keeming Industrial Area. Auto Nagar. Belgaum - 900 015, Ph : 0803-2454912, Fax : 0831-3454215 E-mail: starma@ggmat.com Website: www.stards.in

Test Report

ANALYSIS REPORT FOR STACK SOURCE EMMISSION

1. Stack ID

2. Name of the Industry

Boiler 130 TPH

M/s Atham Sogars Pet 144

Vishmannanagar, Post: Navalihal- 591234.

t M/s. Environmental Health and Safety Research &

Tq. Athani, Dist Belagavi, Kamataka

3. Sample Collected by

Development Centre Unit II, Belagavi - 590015 26:01.2016

6. Date of Collection. 5. Particulars of Sample

Emissions from stack collected through

Collected

Stack Sampler VSS1 28.01.2016

6. Date of Sample Receipt Sample Number

EHSRIX:12/ASPL/S/16/01/1431

Report to be Sent

13.02.2016

9. Page No.

3 of 27

GENERAL DETAILS

Date of Monitoring	26,611,2016
Ambient Temperature (*C)	30
Stack Temperature (%C)	161
Velocity (m/s)	2.89
Diameter (m)	3
Cross Sectional Area in meter square (m²)	7.065
Quantity of flue gas discharged into atmosphere (Nm2/h)	140044.75
Dust Emission Rate	17.801

RESULTS

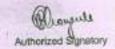
Parameters	Protocol	Unit	Result	Standard
Particulate Matter	15: 11255, (P1)	mg/Nm ²	127,11	150
Nitrogen dicreide	15: 11255. (17)	mg/Nm2	32.69	-
Sulphur dioxide	15: 11255 (P2)	mg/Nm3	43.20	-
Hedrogen Sulphide	152 11255 (IM)	mg/Nm3	1.21	-

As per KSPCB Standards,

INFERENCE

Report Statust - The measured values for the above parameters are within the standards and there are nestandards would be for NO 50, & \$1.5

refind of Reporter





Recognises by Malginy of Cincinness & Forests (MoEF) Cont of India, New David.

An ISO BOST 2008. A CHISAG 18021 2007 Certified Laboratory

Plot No. 457, Kenturyi Industrial Area, Auto Napat, Belgnum - 590 015, Ph : 0831-3494012, Par.: 0831-3454215

S-mail: drantcs2(Spreal.com Website: www.uherstr.m

Test Report

ANALYSIS REPORT FOR STACK SOURCE EMMISSION

I. Stark ID

DG#1250 KVA

Name of the Industry

M/s Athani Sugars Pvt. Ltd.

Vishnuannanagar, Post: Navalihal-991234.

3. Sample Collected by

Tq: Athani, Dist; Belagavi, Karnataka M/s. Environmental Hoolth and Safety Research &

Development Centre Unit II, Belagavi - 590015

4. Date of Collection

26.01.2016

Particulars of Sample Collected

Emissions from stack collected through

Stack Sampler VSS1

6. Date of Sample Receipt

28.01.2016

7. Sample Number

EHSRDCU2/ASPL/S/16/01/1432 13:02:2016

Report to be Sent

Page No.

4 of 17.

GENERAL DETAILS

Date of Monitoring	26.01:2016
Ambient Temperature (*C)	3()
Stack Temperature (*C)	178
Velocity (m/s)	0.10
Diameter (m)	0.4
Cross Sectional Area in meter square (m ²)	0.126
Quantity of flue gas discharged into atmosphere (Nm-yh)	2881.85
Dust Emission Rate	0.252

RESULTS

Parameters	Protocol	Unit	Result	Standard
Particulate Matter	15: 11755, (17)	mg/Nm/	87.45	150
Nitrogen dloxlde	IS: 11255, (P7)	mg/Nm1	36.85	100
Sulphur dinxide	IS: 11255, (P2)	ing/Nin/	46.63	
Hydrogen Sulphide*	15: 11255, (P4)	mg/Nm3	1.35	

As per KSPCB Standards,

INFERENCE

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Report Status: - The measured values for the above parameters are within the standards and there are no standards available for NOs 90-fc H/S

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Recognised by Wristly of Environment & Furedo (MoEF) Gost, of India, New Delta.

An 190 9081 2009, & OHSAS 18081 2007 Conflict Laboratory

Pict No. 457, Karbargi Industrial Area, Auto Nopel. Belgsen 580 015. Phr: (831-2454012, Fax: 0831-3454215

Signal : d'arcon@grad.com Website : www.efunciol

Test Report

ANALYSIS REPORT FOR STACK SOURCE EMMISSION

Stack ID

Boiler 18 TPH

Name of the Industry

M/s Athani Sugars Pvt. Ltd.

Viahauannanagar, Post: Navalibal-591234.

Sample Collected by

To: Athani, Dist Belagavi, Karnataka M/s. Environmental Health and Safety Research &

Development Centre Unit II, Belagavi - 590015

Date of Collection

26,01.2016

Particulars of Sample Collected

Emissions from stack collected through

Stack Sampler VSS1

Date of Sample Receipt

28.01.2016

7. Sample Number

FEISRDCLI2/ASPL/S/16/01/1433 13.02.2016

8. Report to be Sent

9. Page No

50(17)

GENERAL DITTAILS

Date of Monitoring	26.01.2016
Ambient Temperature (*C)	30
Stack Temperature (IC)	131
Velocity (m/s)	7.06
Diameter (m)	1.6
Cross Sectional Area in meter square (m²)	2.010
Quantity of flue gas discharged into atmosphere (Nov/m)	28322.68
Dust limission Rate	4.851

RESULTS

Parameters .	Protocol	Linkt	Result	Standard
Particulate Matter	15: 11255. (P1)	mg/Nm1	126.59	350
Nitrogen dioxide	15: 11255, (P7)	mgt/Nim*	33,35	-
Sulphur dioxide	(S. 11255, (P2)	mg/Nm3	40.80	7.
Hydrogen Sulphide	IS: 11255.(P4)	ing/Net/	8.0	- 7

INFERENCE

As per KSPCB Standards,

Report Status: - The measured values for the above parameters are within the standards and there are no standards available for NO₂ SO₂ & H₂S

*** God of Report**

degrand (8) Authorized Signatory



Recognised by Winstry of Environment & Foreign (Wooff) Govt. of India. New Dept

AN ISO 9081 2008, A CHEAS 18801-2007 Certified Laboratory

Plot No. 457, Kentargi Industrial Area, Auto Naper

Belgaum - 500 816.

Ph : 0831-3454012, Feb : 0831-2454215

E-mail: emodual@graal.com Websts: www.afsetc.ln

Test Report

AMBIENT NOISE LEVEL MONITORING REPORT

Name of the Project

MZa Athani Sugars Pet Ltd.

Vishnuannanagar, Post Navalihal 591234, Tq: Athani, Diet: Belagavi, Kornataka

Sample Collected by

: M/n. Environmental Health and Safety Research &

Development Centre Unit II, Belagavi - 590015.

3. Date of Collection

= 26.01.2016

Particulars of Sample Collected

: Ambient Noise Level collected through

Sound Level Motor EQ-8852

5. Date of Sample Receipt

28.01.2016

6. Sample Number

: EHSRDCU1/ASPL/N/16/01/1434, 1435, 1436, &:

1437

Report to be Sent

13.02.2016

Method Adopted

: Instrument Method

9. Page No.

6 of 17

Code		S PERSON IN THE PART OF		Parameters			
No.	Sample Location	/ Time Frequency	Max.	Min.	I _m dB(A)		
1434	Near Main Gate (II')	2.30PM-2.45PM	76.2	51.1	63,89	75.0	
1435	New Cane Carrier (IP)	2.47AM-3.02PM	733	50.9	59.61	dB(A	
1436	Norr Guest House (IP)	3.05PM-3.28F94	77.5	31.7	64.26		
1437	Noar Compost Yard(IP)	3.23PM 3.38PM	77.5	63.2	72.72		

- Note
- Day Time is reckined between p.A.M and 10 P.M.
- Night Time is reckoned between 10 P.M and 6 A.M.
- Last It is energy mean of the noise level over a specified period.
- "d" (A) Let denotes the time weighted average of the level of sound in decibe's ou scale A which is solutable to human bearing.
- A "decited" is a unit in which poise is measured.
- "A" in $d\theta(A)$ L_{eq.} denotes the frequency weighting in the measurement of coins and corresponds to Frequency response characteristics of the human our

As per CPCR Standards,

INFERENCE Report Status: - The recovered values for the above parameters are within the

standards.

PERSONAL WARRISTS



Recognised by Ministry of Environment & Fairstin (MoET) Govt. of India. New Con-

Ar ISO 9001:2006, & DHSAS 180VT 2007 CHRISTIANOSTRY

Pict No. 457, Kendury Industrial Area, Auto Higgs. Buggart - 500 815.

Ph : 0531-2454012, Fax : 0831-2454215

E-mail: enortica2@great.com Website: www.ofsrite.in

Test Report

AMBIENT NOISE LEVEL MONITORING REPORT

1. Name of the Project

M/s Athani Sugars Put. Ltd. Vishmannagar, Post; Navalihal-591234,

Tq: Athani, Dist. Belayavi, Karnataka

2. Sample Collected by

M/s. Environmental Health and Salety Research & Development Centre Unit II, Belagavi - 590015.

3. Date of Callection 4. Particulars of Sample 26.01.2016

Ambient Noise Level collected through Sound Level Meter EQ-8002

Collected

Date of Sample Receipt

28.01.2016

6. Sample Number

1 EH5RDCU2/ASPL/N/16/01/1438, 1439, 1490 &

Report to be Sent

1441 13,02,2016

Method Adopted R.

: Instrument Method

Page No.

1 7 of 17

1057				Parameters			
Code No	Sample Location	Time Frequency	Max	Min.	dB(A)	70.0	
1439	Near Main Gate (IP)	10.16PN1-10.31PM	69.8	41.4	62.14	dB(A	
1839	Nour Care Carrier (IP)	10.35PM 10.50PM	78.1	51.1	63.31	Nigh	
1400	Near Caest House (U5)	10.55PM-11_10PM	75.4	49.8	64.08	144000	
1441	Near Composit Yard(IIP)	11.15PM-11.30PM	69.8	11.7	62.61		

- Nate:
- Day Time is spekiesed between 6 A M and 10 P 51
- Night Time is reclaimed between IDPM and 6-6-81
- $I_{\rm ext}$ it is energy mean of the noise level over a specified pental.
- 100 (A) $L_{\rm eq}$ denotes the time weightest average at the level of second in decises on scale A which is relatable to business bearing.
- A "cloobel" is a unit or which mise is measured.
- $^{\circ}$ A $^{\circ}$, in dB (A) $L_{\rm top}$ discuss the frequency weighting in the measurement of noise and convergends to Frequency response characteristics of the human con-

INFERENCE

As per CPCII Standards,

Report Status: - The measured values for the above parameters are within the abrableste

*** Find of Buggereen

Missoull Authorized Signatory



Recognised by Ministry of Environment & Foresti (MoDF) -Gast of India, how ("e hi An SO 901:2008, & 0HSAS 1001:387 Centrel Laboratory

Plot No. 467, Kanbargi Industrial Area, Auto Nager.

Belguer - 580 215,

Ph : 001-2454012, Fee: 0831-2454215

E-mail: et-srcbuit@gmail.com Website: www.etentr.in

Test Report

ANALYSIS REPORT OF EFFLUENT QUALITY

Name of the Location

Name of the Project

ETP Un-Tocated Water

 M/s Athani Sugars Pet. Ltd. Vishnuannanagar, Post: Navalihal-591234,

3. Sample Collected by

Tq: Athani, Dish Belagavi, Karnataka : M/s. Environmental Health and Safety Research & Development Centre Umt-II, Belgaum- 590013.

A. Date of Collection

Perticulars of Sample Collected

: 26,01,2016

1 FTP Un-freated water, Grab Sampling

Date of Sample Receipt

± 28.01.2016

Sample Number

: EHSRDCU2/ASPL/WW/16/01/1442

Analysis started on 8, 9,

: 28.01.2016

Analysis Completed on.

: 08.02.2016 : 13.02.2016

10. Report to be Sent

: 8 of 17

11. Page No. 32. Protocol

t APPIA,22= Edition

5LNo	Parameters	Test Method	Unit	Result
1	pH	4500FP B		5.68
5.2	Colour	2120 B	Hazen	<5.II
3	Oti & Grease	5520 H	mg/L	BEDL
14	HOD	5210 0	mg/L	90
30	Chlorida	450B-CLB	mg/L	655.11
10.	Sulphate	4500-504	mg/L	204.7
7	Total Dissolved Solids	2540 C	mg/L	2699
B.	Total Suspended Solids	2540 17	mg/L	230

*** First of Report***





Recognised by Minary of Emergent & Theore (NoEF) Che of victa, New Yell-

Ar ISO 9001-2006, & OHSAS 19001-2007 Center Laboratory

Plot No. 457, Kariburgi Industrital Area, Auto Nagar, Belgrum - 996 015, Pb : 8831-2454017, Fax : 0831-3454215

E-mail: obstato2@gmall.com Website: www.stiartic.m

Test Report

ANALYSIS REPORT OF EFFLUENT QUALITY

Name of the Location

Name of the Project

ETP Treated Water

M/s carron Sugars Pvi. Lad.

Vishmannanagar, Post: Novalihai-591234,

1q Athani Dist Bolagavi, Kamataka

M/s. Tinvironmental Houlth and Safety Research & Development Centre Unit-II. Belgaum- 590015

26.01.2016

+ FTP Treated Water, Grab Sampling

Date of Collection

Particulars of Sample Collected

Date of Sample Receipt

Sample Collected by

Sample Number

8. Analysis started on

Analysis Completed on 10

Report to be Sent 10.

Page No. 11.

12. Protucol

3

± 28.01.2016

1 EHSRDCU2/ASPL/WW/16/01/1443

28,01.2016

08.02.2016

1 13.02.2010

± 9 of 17

: APIAA.22nd Edition:

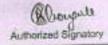
SLNo	Parametera	Test Method	Unit	Result	KSPCB Limits
ar ten		450011.8		7.13	5.5-9.0
2	prs.	2120 (6	Hazen	-511	
	Colour Oil & Grease	5520.18	mg/L	19136	10
-1	BOO	5210.0	ing/t.	50	100
- 1	Chloride .	4500 CT B	sings/1	424.37	600
-75	Sulphate	4508-SCL)	-mg/1	166.49	1000
y	Total Dissolved Solids	2548 C	ing/L	1296	2100
В.	Total Suspended Solids	25/010	mg/L	150	200

As per CPCB Standards,

INFERENCE

Report Statust - The measured values for the above parameters are within the standards.

exelled of Haponeses





Recognised by Ministry of Environment & Forests (MoEF) Govt, of India, New Dehre

An ISO 9801 2000, 8 OHSAS 18001 2007 Certifiert Laboratory

Flot No. 457, Kardwegi Industrial Ares. Auto Nagar,

Seignum - 550 015,

Ph | 0001-2454012, Fax | 0831-3454215

E-mail: eherdou@@groal.com Waltelbe ; www.eheret.in

Test Report

ANALYSIS REPORT OF EFFLUENT QUALITY

Name of the Location

Name of the Project

Sample Collected by

Date of Collection

Particulars of Sample Collected

Date of Sample Receipt

7. Sample Number

Analysis started on Analysis Completed on 9.

Report to be Sent 10.

Page No. 11.

12. Protocol

1 Raw Spent Wash

t M/s Athani Sugara Pvt. Ltd.

Vishnuannanagar, Post: Navalihal- 591234,

Tq: Athum, Dist: Belagavi, Kamataka

: M/s. linvironmental Health and Safety Research & Development Centre Unit-II, Belgaum- 590015.

: 26.01.2015

1 Raw Spont Wash, Grab Sampling

+ 28.01.2016

: EHSRDCU2/ASPL/WW/16/01/1444

1 28.01.2016

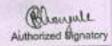
+ 08.02.201s

3 13 (12 2016) 7 10 of 17

: APPLA 22% Edition

	Parameters	Test Method	Unit	Result
J.No	Patalifology	1.0000000000000000000000000000000000000	7000	4.10
1	pH	4500EP B	1.4	6000
9.0	Alkalinity	232011	mg/L	The state of the s
-	Contract Control of Contract	5530 II	mg/L	BDL
4	Oil & Grosse	5210.0	mg/L	4300
+	HOD	52288	mg/L	16800
5	COD	The state of the s		13570
6	Chloride	4500-C1 N	mg/L	10797.5
9	Sulphate	4500-SO/2	mg/L	The second secon
7 8	Total Suspended Solids	2340 D	mg/L	110550
		3500-K	mg/L	10500
9	Potassium as K	The second secon	ring/L	103.2
10	Total Kjeldhal Nitrogen	4500 N11-0&C		146162
11	Total Solds	25408	mig/	Later on .

Pad of Kemer





Recognised by Windry of Traversorest & Faresto (Molar) God of India New Deliv

An ISD 9801-2006. A CHICAS 18501-2007 Certified Lateraluty

Fiel No. 457, Kentergl Industrial Area, Auto Risgot, Belgaum - 590 015.

Ph : 0835-0454012, Fax : 0831-2454213

c-real: eturou2(fored com Website ; www.unsrct.in

Test Report

ANALYSIS REPORT OF EFFLUENT QUALITY

Name of the Location

Name of the Project

Itin-Methanated Spent Wash
 M/s Athani Sugars Pvt. Ltd.

Vishmannanagar, Post: Navalibal-591234,

Tiq Athuni, Dist Belagavi, Karnataka

Sample Collected by

: M/s. Enviroumental Health and Safety Research & Development Centre Unit-II, Belgauny 590015

4. Date of Collection 5. Posticulars of Sample

Collected 6. Date of Sample Receipt

Sample Number Analysis started on

Analysis Completed on 9. Report to be Sent 10,

II. Page No. 12. Pentocol

26.01.2016

: Bio-Methanated Speed Wash., Grab Sampling

= 28,01,2016

: FHSRDCU3/ASPL/WW/16/01/1445

: 28.03.2016 : 08,02,2016 13.02.2016

: 11 0(17

± APHA,224 Edition

		Test Method	Unit	Result
SLNo	Parameters	Control of the Contro		7.54
1	pH .	450014111		20000
2	Alkalinity	2300.8	ing/L	BDL
3	Or & Grease	5520 8	mg/L	4000
1	BOD	5210.13	mg/L	OAHE
5	COD	57,011	mp/s	16545.8
n.	Chloride	4500-C1 B	118/1	6960.11
7	Sulphate	4500 SO 2	mig/	35400
*	Total Suspended Solds	2540 (7	mg/L	11600
· W	Potassum as K	7550-K	mg/L	1993,6
10	Total Kjeldhal Nitrogen	4500 NH I+8&L	mg/L	83163
31	Total Solids	25400	rvg/L	20161

section of Reportation





Recognised by Mivintry of Environment & Falasta (NeEF) Govt. of India: Naw Dahi

Re ISO 9001 2006, it CHEAS 1900 SOOT Cutshed Laboratory

Prior No. 457, Karrbergt Industrial Avos, Auto Magar Belgram - 500 015. Ph.: 0631-0454212; Fax: 0831-0454215

E-mail: distinci@gravilous Websits: www.charto.in

Test Report

ANALYSIS REPORT OF EFFLUENT QUALITY

Name of the Location

Name of the Project

Sample Collected by 3.

Date of Collection 40

Particulars of Sample

Date of Sample Receipt

Sample Number

Analysis started on 8, Analysis Completed on 9.

Report to be Sent 10.

Page No. 11. 12. Protocol

1 Multi-Effective Evaporation Outlet , Grab Sampling Collected

: 28,01,2010

EHSREXCU2/ASPL/WW/16/01/1446

Multi-Effective Evaporation Outlet Water

Vishmuanromagar, Post. Navaliha(-591234,

2 M/s. Unvironmental Health and Safety Research & Development Centre Unit-II, Belgaum- 590015.

Tq: Athana Oist: Belagavi, Karnataka

: M/s Athani Sugars Pvt. Lna

1 28.01.2016

1. 26.01.2016

1 08/02/2016

: 13.02.2016

: 12 of 17

1 APMA, 22st Edition

	THE RESERVE TO SERVE THE PARTY OF THE PARTY	Test Method	Unit	Result
SENO:	Parameters.			8.29
-	pHd	4500(11)	77	24000
-1	4-1-1-1	73331/-	mg/l-	500
-6	Alkalindy	5520 H	mg/%	-13000
.4	Cut & Greate	52100	mgH	14800
4	800	52200	m6/4	22101.1
5	COD	4500-CTB	mg/L	The second second second second
DC.	Chloride	4500-500/	mg/L	9147.00
7.	Suphale	7540 D	mg/L	46100
16	Total Suspended Solids	The Review Co.	mg/L	16600
-11	Potassium as K	7500-K	and the same of th	1559.6
10	Total Kjerdhal Nitrogen	4500 NH / 884	mg/l	98550
10	Total Solds	25100	nig/L	

*** I make in Barretone





Recognised by Ministry of Environment & Farests (MaEF) Govt. of India. New Cleth.

An ISD 9001 2008, & CHSAS 18001 2007 Curified Laboratory

Plut No. 457, Koribargi Industrial Area, Auto Nagur. Begaun - 990 015,

Ph : 0831-2454012, Fax : 0831-2454215

E-east : eroxical@grail.com Website : www.enertcin

Test Report

ANALYSIS REPORT OF FRESH WATER QUALITY

Name of the Location

Name of the Project

Sample Collected by

4. Date of Collection

5. Particulars of Sample Coffeeted

Date of Sample Receipt ō.

 Sample Number
 Analysis started on Analysis Completed on

10. Report to be Sent

11. Page No.

12. Protocol

: Bore Well Water (Industrial Premises)

: M/s Athani Sugara Pvt. Ltd.

Vishnuannanagar, Post: Navalihal-591234. Tq: Athani, Dist: Belagavi, Karnataka

: M/s. Environmental Health and Safety Research & Development Centre Unit-IL Belgaum- 590015

1 26.01,2018

: Bore Well Water, Grab Sampling

: 28.01.2016

1 EHSRDCL2/ASPL/W/16/BL/1447

1 28.01.2016 1 08.02,2016

1 13.02.2036

4: 13:00 17

: APHA,22** Edition

co at	Parameters	Protocol		Revision)		
SLNo	Parameters	Triminosi:		700000	DL	PL.
7	oH	4500E11 III		6.85	6.	5.8.5
2	Colour	2120 8	Esazen	420	3	15
3	Odour			Un-Objectionable	Un Cib	ectionable
4	Turbidity	2130/8	NTU	0.36	1	3
5	Total Dissolved Solids	2540 €	mg/I	305	500.	2000
6	Total Hardness	2340 C	myg/L	- 8	200	600
7	Calcium	3500-Ca	rog/L	1.6	75	200
-	Magnesium.	3500 Mg IS	mg/1	0.97	30	100
- 41	Chloride as Cl	4500-C1 B	mg/L	93,58	250	1000
1.0	Sulphato as SO ₄	4500-5(3)2	mg/1,	8,1	200	400
11	Finoride as 1	4500FD	nug/L	0.12	1	1.5
12	Iron as Fe	3500-Fe B	mg/L	0.18		0.3
23	Nitratir as NOs	4500-NO	mg/L	1,55		45
71	Total Coliform	9222 R	CIRJ/10	NII		10
15	Faccal Coliform	9222 D	CFU/10	NII		NII

DIFFRENCE

As per 15 10500:2012(Second Revision).

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

organist Expendent





Recognised by Winstry of Environment & Forests (MoEP) Govl. of India, New Octo

An ISO 9021-2009, & CHSAS MISCUSSIV CHIEffed Liberary

Plat No. 457, Konbargi Industrial Area, Avits Neuri. Sergoum - 589 015, Ph : 0501-3454012, Fax : 0881-2454015

Dissell i mentical@great.com Website : www.oherdicin

Test Report

ANALYSIS REPORT OF FRESH WATER QUALITY

Name of the Location Name of the Project

Sample Collected by

Date of Collection

Particulars of Sample Collected

Date of Sample Receipt

Sample Number

Analysis started on

Analysis Completed on

Page No. 10.

Report to be Sent 11.

Protocol

THE PART WAS TOUR OF THE PARTY OF THE PARTY

Bore Well Water (Guest House)

M/s Athers Sugare Pet. Ltd.

Vishauannanagar, Post: Navalihal-591234, Tq-Athani, Dist. Belagavi, Karnataka

: M/s Environmental Health and Safety Research &

Development Centre Unit-II, Belgaum - 590015

1 26,01,2016

: Here Well Water, Grab Sampling.

: 28.01.2016

EHSRDCU2/ASPL/W/16/01/1448

1 28.01.2016

: 08.02.2016 : 14 of 17

1 13.02,2016

APHA, 224 Edition

			W. 20 W.	Linit	Result	Std. 15 10500:2012 (Second Revision)	
SENO	Parameters	Protocul	Can	Distriction.	DL	PL.	
-	10	450081° B		7.30	6.5	8.5	
1	pH	2120 0	Harriere	45,0	-5	15	
2	Colour	4140		Un Objectionable	Un-Chip	sctionable	
3	CMout	2130 0	NEU	0.44	11	5	
4	Turbidity	2540 C	mg/L	48	590	2000	
5	Fotal Dissolved Solids	2340 C	mg/L	12	200	600	
0	Total Hardness	1.010		3.2	75	200	
7	Enlaium	3500-Ca	mg/L	0.97	30	100	
10	Magnesium	2500 Mg B	mg/L		250	1000	
16	Chloride at C!	4500-Cl B	mg/L	393	200	400	
0.0	Sulphate as SO ₁	4500-503/	mg/l.	8.34	23A1	1.3	
11	Flyoride as f	4500F D	mg/L	0.18		11,000	
13	Techn as Fig.	3500-Fe II	1995/1.	0.07	The state of	0.3	
	Nitrate at NO:	4500-NO-E	me/L	1.00		15	
17		9222.15	CPL/100	Nil		10	
13	Potal Coliform Pagoil Coliform	(2221)	CPU/P0	Nil		NII	

As per 15 10500-2012 (Second Revision).

Report Status: - The measured values for the above parameters are within the INVERTIGENCE Standards.

*** (ad of Equality)

Dargule Authorized Signatory



Pacagolised by Alicinity of Environment & Fairnits (MoEF) GOA of India New Defici

An 19O 1901 2009. & CHISAS 19001 2007 Certified Laboratory

Pice No. 457. Konburgi Industrial Arsa, Auto Nagar, Belgaum-500 015,

Ph.: 0831-2854812, Fex: 0831-3464215

p-exit : etermo2@great.com Website : www.efecto.to

Test Report

ANALYSIS REPORT OF FRESH WATER QUALITY

Name of the Location

Name of the Project

3. Sample Collected by

4. Date of Collection Particulars of Sample

Collected Date of Sample Receipt

Sample Number

8. Analysis started on Analysis Completed on 9.

10. Report to be Sent

11. Page No. 12. Protocol

: Well Water (Vittal Sembadi)

M/s Athani Sugars Pvt. Ltd. Vishmuarmanagar, Post: Navalibal-591234.

Tip Athani, Dist. Bislagavi, Karnataka

: M/s. Environmental Health and Salety Research & Development Centre Unit-II, Helgaum-590015

1 26.01.2016

1. Open Well Water, Grab Sampling

: 2B.01.2016

: THSRDCU2/ASPL/W/16/01/1449

1 28.01.2016

1 08.02.7016

13.02.2016

t 15 of 17

APITA 22 Edition

				Seculi	51d. 15 10500:20 (Second Revisio	
SI,No	Parameters	Protecol	Unit		174.	PL
	70.00	ACCOUNT TO	- 11	6.92	6.5-8.5	
1	p#1	4500H-15	Hasen	<5.0	5	15
2	Colont	2120 8	Haten	Un-Objectionable	Un-Obj	ectionable
3	Odour	-	133-71	2.36	1	5
4	Turbidity	2130 8	NEG	1996	500	2000
5	Total Disselved	2540 €	mg/L		200	600
	Tetal Hardness	2340 C	mg/1.	208	75	200
0	Calcium	3500-Ca	eng/L	52.8		100
7	A Section of the Control of the Cont	2500 Mg B	mg/t	18.40	70	1000
16	Magnesium	4500-C3 II	oug/1	329.4	250	
-0	Chiloride as Ch	4500-50\n\	mg/L	1818	300	400
.10	Sulphate as 90%	The second secon	mg/L	0.55	1	1.5
11	Properdo as F	4500F D	mg/L	0.1		0.3
12	Luman Vir	3500-Fe-B		23.9		15
:13	retante as NOs	4500 NOv E	mg/L	1		10
14	Local Coliform.	9222 B	CFU/10tml	0.448		NII
15	Luccal Cistiform	9222 17	CFU/100mi	No.	1	411

INFINENCE

As per 15 10500:2012(Secund Revision),

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

East of Report





Recognised by Ministry of Emergenment & Foreste (Match) Covil of India, New Cells.

Ar 80 9001:2008. A CHSAS 19001:2007 Certified Laboratory

Plut No. 457, Karbong Industrial Area, Auto Nagar, Sargaum - 980 (C) E.

Ph: 0831-2454012; Pax: 0831-2454215

E-buil chardox2@gmail.com Website: www.ehsrto.in

Test Report

ANALYSIS REPORT OF FRESH WATER QUALITY

t Stome of the Location

Name of the Project

Sample Collected by

4. Date of Collection

5. Particulars of Sample Collected

6. Date of Sample Receipt

7. Sample Number

Analysis started on
 Analysis Completed on

10. Report to be Sent

Page No.
 Protocol

: Well Water (Kareppa Musudge)

M/s Athani Sugars Pvt, Ltd.
 Vishmuannanagar, Post: Navalibai-591234,
 Tq: Athani, Dist: Belagavs, Kernataka

 M/s. Frestronmental Health and Safety Research & Development Centre Unit-II, Belgaum - 590015

+ 26.01.2016

: Bore Well Water, Grab Sampling.

1 28.01.2016

: EHSRDCU2/ASPL/W/16/01/1450

± 28.01.2016 ± 08.03.2016

13.02.2016

: 16 of 17

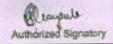
± APHA, 22 Edition

ULNI-	Parameters	Protocol	Unit	Result	Std. 15 10500(2012 (Second (Revision)	
EL NO	CAMBINETE S	4111000			DL	PL.
	100	4500H: TI	-	7.30	6.5	85
	101	2120 8	Hanon	<50	5	15
3	Colour	. 2420-0	-	Un-Objectionable	Un-Obje	ectionable
	Odour	2130 B	NIU	2.8	1	5
4	Turbidity:		A	1978	500	2000
5	Total Dissolved Sollds	2510 C	mg/L	180	200	600
.0	Total Hardness	2340-C	mg/L	608	75	200
7	Calcium	3500/Ca	mg/L		30	100
5	Magrestum	3500 Mg H	mg/L	6.8	250	1000
0	Chloride as Cl	4500-C1 N	mg/L	325.6	000000	1
10	Sulphate as 50:	4500-9O ₄ 2	mg/L	197.4	200	400
11	Fluoride es F	4500F ID	mg/‡	0.57		1.5
12	Iron as Fe	3500-Fe-II	Wright L	0.28	100	8.3
13	Mitrate as NO)	4500-NO1E	mig/L	9.69		45
	Total Californ	9222 B	CEU/100m	Nil		10
14	Faccal Coliform	9722 D	CFU/100m	Nil		Nii

As per 15 10500/2012[Second Revision].

INFERENCE: Report Status: + The measured values for the above parameters are within the Standards.

PREMICE REPORTS





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An ISC 9001-2008. A CHEAS 18901-2197 Centiled Laboratory

Plut No. 157, Kardweyl Industrial Area, Auto Nagor, Begaum-566 015. Ph : 0001-2454012, Fax : 0821-2454215

G-east; shardcu2@grast.com Wubsite; www.elvents.co

Test Report

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Name of the Station

Near Main Gate

Name of the Project

M/s Athani Sugars Pvt Ltd.

Vishnuannanagar, Post: Navatihal-591234,

Tq: Athani, Dist: Helagavi, Karnataka

3. Sample Collected by

: M/s. Environmental Floalth and Safety Research & Development Centre Unit II, Belagavi - 590015.

4. Date of Collection

1 24.02.2016

5. Particulars of Sample Collected

: Ambient Air collected through Fine Particulate Sampler - APM 550 Respirable Dust Sampler - 460NL

6. Date of Sample Receipt

: 25.02.2016

7. Sample Number

EHSRDCUZ/ASPL/A/16/02/1635

8. Report to be Sent

1 03.03.2016

9. Page No.

1 1 of 16

5LNo	Parameters.	Unit	Results	NAAQ Standards	Protocol
1	Period of sampling/Time	Hn	8.30am-8.30am	24	
2	Particulate Matter (PM is)	μα/ m³	86	100	15: 5182 (P.Z1)-2006 USEPA 40 CFR (P.53)
3	Particulate Matter (PM 21)	ag/ m³	39	60	IS 5182 [PZ]-3101
4	Sulphur dioxide (SO ₂)	µg/m²	6.36	80	FG STR2 (Pht-2006
5.	Nitrogen dioxide (NOt)	ng/m'	12/15	80	CPCB Guidelines Veiume-2
1/6	Amononia (NHs)	ug/ m³	12.05	400.0 (24 hr Average)	NAAQ M5/37/2012-13
		mg/wit	1.18	4.0 (1 hr Average)	15 5182 (Part 10) : 1479
7:	Carbon Manuside (CO) Ozone (Os)	ng/m1		180 (Llui Average)	Instrument method
9.	Lead (Pb)	sig/m²	PER 100 10 100	1.0 (24 hr Average)	Lab SOP No. EHSRDC/SOP/ICP-OFS/001
10.	Amenic (As)	ag/ast	8.68	6.0 (Annual Average)	based on - CPUB Guidelines for the
11.	Nickel (Ni)	ng/m³	8.23	20.0 (Annual Average)	Measurement of Ambient Air Pollutants Volume-1,2011
	The Party of the Associations	ing/m³	1000	1.0 (Annual Average)	15/5182 (P 12)-2004
17.	Poly Aromatic Hydrocarbons	10000000	A Section 1	5.0 (Annual Average)	15-5102 (0.11)-2006
13.	Benzese (CaHa)	ng/m	17/10/2	1.0 (Annual Average)	8x5182 (P 12)-2004
14.	Benzo (a) pyrene (BaP)	ng/m/	BLAL	T. Control of the Con	

Note: N5 - Not Specified, BDL - Below Detectable Limit

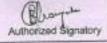
INFERENCE

0

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards

over ag of Report the





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An ISO 90012998, & CHISAS 18804-0007 CARENT LABORRORY

Plot No. 457, Kardweg brêsettel Aren, Auto Nogal, Belgoure - 900 015. Phys (831-2454012, Pearl 5831-2454215 Di-east Longton/Egymal.com, Webelle ; www.shinto.in

ANALYSIS REPORT OF TANKENT AIR QUALITY

1. Name of the Station

: Near Compost Yard

2. Name of the Project

M/s Athani Sugars Pvt. Ltd.

Vishnuannanagar, Post: Navalihal-591234.

rich .

Ter Athani, Disti Belagavi, Karnataka

y

Sample Collected by

M/s. Environmental Health and Safety Research & Development Centre Unit II. Belagavi - 590015.

- 55

4. Date of Collection

: 24.02.2016

 Particulars of Sample Collected Ambient Air collected through Five Particulate Sampler - APM 550 Respirable Dust Sampler - 460NI.

6 Date of Sample Receipt : 25.02,2016

7. Sample Number

: EH5RDCU2/ASPL/A/16/02/1636

8. Report to be Sent

: 03.03.2016

9. Page No

: 2 of 16

SLNo	Parameters	Unit	Results	NAAQ Standards	Protocol
1.	Period of sampling/Time	His	8 8,30am-8,30am	24	
2.	Particulate Matter (PM n)	ug/ m²	79	100	15: 5182 (P-23)-2000
3.	Particulate Matter (PM 13)	ug/ m²	40	60	LISEPA 40 CFR (P 53)
4.	Sulphur diaude (SO ₁)	ug/ m²	7.01	80	IS: 5182 (P2)-2001
5.	Nitragen dioxide (NO ₂)	µg/ m²	13.82	80	15: 5182 (P6)-2006-
6	Ammonia (NH1)	μg/ m³	14.06	400.0 (24 hr Average)	CPC8 Guidelines Volume-2 NAAQ MS/37/2012-13
7:	Carbon Moruside (CO)	mg/m³	1.32	4.0 (1.hr Average)	15 5182 (Part 10): 1999
8.	Dzone (O ₁)	ug/ m³	5.19	180 (1 hr Average)	Instrument method
9.1	Lead (Pb)	mg/ mi	0.033	1.0 (24 for Average)	Lab SOP No
3115	Amenic (As)	rg/m²	1.43	6.0 (Annual Average)	EHSRDC/SOP/ICP-OES/00 based on
11.	Nickel (NO)	ng/m²	7.13	20.0 (Annual Average)	CPCB Guidelines for the Measurement of Ambient Ai Pollutants Volume-1, 2011
12.	Poly Aromatic Hydrocarbons	ng/m³	BDL	1.0 (Annual Average)	(5.5182 ()*12)-2004
13.	Benzene (C ₄ H ₆)	ug/m*	BDE.	5.0 (Armual Average)	15: 5182 (P 11)-2006
14.	Benzo (a) Pyrene (BaP)	eg/m³	BDL	1.0 (Airmail Average)	15:5182 (P.12)-2004

Note: N5 - Not Specified; BDL - Below Detectable Limit

INFERENCE

As per NAAQ Standards,

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

***End of Report

Authorized Signatory

NOTE: The report is subject to the terms & conditions mentioned overleaf



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An ISCI 98012908, & CRISAS 18901 2007 Coding Laboratory

Procine: 457. Karbargi Industrial Ama, Auto Nopre,

Setpaum-580 015.

Pb : 0831-3654812, Fax : 0831-3454215

ili-med : ehantos/@gmoli.com Website : www.ehentr.in

Test Report

ANALYSIS REPORT FOR STACK SOURCE EMMISSION

1. Stack ID

Boiler 130 TPH

2. Name of the Industry

M/s Athani Sugars Pvt. Ltd.

3. Sample Collected by

Vishmannanagar, Pent Novalihal 591234. Tq: Athani, Dist Belagavi, Karnataka

M/s. Environmental Health and Safety Research & Development Centre Unit II, Belagavi - 590015

4. Date of Collection

24.02.2016

5. Particulars of Sample Collected

Emissions from stack collected through

Stack Sampler VSS1

6. Date of Sample Receipt

25.02.2016

7. Sample Number 8. Report to be Sent

EHSRDCU2/A5PL/5/16/02/1637

03.03.2016

9. Page No

3 of 16

GENERAL DETAILS

Date of Monitoring	24.02.2016
Ambient Temperature (*C)	30
Stack Temperature (*C)	169
Velocity (m/s)	6.74
Diameter (m)	3
Cross Sectional Area in meter square (m²)	7.065
Quantity of flue gas discharged into atmosphere (Nm/h)	117583.75
Dust Emission Rate	13.656

RESULTS

Parameters	Protocol	Unit	Result	Standard
Particulate Matter	IS: 11255, (P1)	mg/Nm2	116.14	150
Nitrogen dioxide	IS: 11255, (P7)	mg/Nm1	37,85	
Sulphur dioxide	IS: 11255, (P2)	mg/Nm3	41.14	-
Hydrogen Sulphide	IS: 11255.	mg/Nm3	1.55	

INFERENCE

As per KSPCB Standards,

Report Status: - The measured values for the above parameters are within the standards and there are no standards available for NO: 50: & HS.

End of Report





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Test Report ANALYSIS REPORT FOR STACK SOURCE EMMISSION

L. Stack ID

DG#1250 KVA

2. Name of the Industry

M/s Athani Sugars Pvt. Ltd. Vishmuannanagar, Post Navalihal- 5912.94. Tq. Athani, Dist Belagavi, Karnataka

Sample Collected by

M/s. Environmental Health and Safety Research & Development Centre Unit II, Bolagavi - 590015

24.02.2016

4. Date of Collection 5. Particulars of Sample

: Emissions from stack collected through

Collected

Stack Sampler VSSI

6. Date of Sample Receipt

25.02.2016

7. Sample Number

1 EHSRDCU2/ASPL/S/16/02/1638

8. Report to be Sent

03.09.2016

9. Page No

4 of 16

GENERAL DETAILS

Date of Monitoring	24.02.2016
Ambient Temperature (°C)	30
Stack Temperature (PC)	154
Velocity (m/s)	7.20
Diameter (m)	0.36
Cross Sectional Area in meter square (m²)	0.102
Quantity of flue gas discharged into atmosphere (NmVh)	1870.19
Dust Emission Rate	0.276

RESULTS

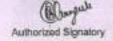
Parameters	Protocol	Unit	Result	Standard
Particulate Matter	IS: 11255, (P1)	mg/Nm1	147,53	150
Nitrogen dioxide	IS: 11255, (P7)	mg/Nm ¹	34.6	
Sulphur dioxide	TS: 11255, (P2)	mg/Nm3	54.4	-
Hydrogen Sulphide	IS: 11255,	mg/Nm3	1.48	

INFERENCE

As per KSPCII Standards,

Report Status: - The measured values for the above parameters are within the standards and there are no standards available for NO: 50-& 14.5.

amilies of Report





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Au ISO 9001 2008, & CHEAS 18891 2087 Cartillot Liberatory

Portio: 457, Karbarg Industrial Area, Auto Negal, Belgaure - 590 010. Ph.: 0831-2454012, Fax: 0831-2454210 6-east: eherbui2@genal.com Website: www.efentb.im

Test Report

AMBIENT NOISE LEVEL MONITORING REPORT

1. Name of the Project

: M/s Athani Sugars Pvt. Ltd.

Vishnuannanagar, Post: Navalihal-591234,

2. Sample Collected by

Tq: Athani, Dist: Belagavi, Karnataka

 M/s. Environmental Health and Safety Research & Development Contro Unit II. Belagavi – 590015.

3. Date of Collection

24.02.2016

4. Particulars of Sample Collected Ambient Noise Level collected through Sound Level Meter EQ-8852

5. Date of Sample Receipt

: 25/02/2016

6. Sample Number

: EHSRDCU2/ASPL/N/16/02/1639,1640,1641,&

7. Report to be Sent

: 03.03,2016

8. Method Adopted

t Instrument Method

9. Page No

5 of 16

Code No Sample Location	Se 74 3	27 11		Std.		
	Time Frequency	Max.	Min.	dB(A)	70.0	
639	Near Main Gate	10.45PM-11.00PM	76.5	51.7	61.43	dB(A)
640	Near Cane Carrier	11.03PM-11.18PM	76.1	63.2	69.32	Night
1541	Near Guest House	11.21PM-11.36PM	66.2	41.4	50.48	
1642	Near Compost Yard	11.40PM-11.55PM	74.1	51.1	60.96	

- Note
- Day Time is reckoned between 6 A.M and 10 P.M.
- Night Time is reckoned between 10 P.M and 6 A.M.
- L_m: It is energy mean of the noise level over a specified period.
- * MR (A) L_{eq} denotes the time weighted average of the level of wood in decibels on scale A which is relatable to human beering.
- A "decibet" is a unit in which noise is measured.
- "A", in dB (A) L_{in} denotes the frequency weighting in the measurement of noise and corresponds to Enquency response characteristics of the huntan star.

INFERENCE

As per CPCB Standards,

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

Find of Report





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An 190 9001 2008. & CHSAS 19001 2007 Certilluit Laboratory

Pat No. 457, Kenburgi Industral Area, Auto Nogal, Bulgoom - 840 815. Ph : 0801-3454012, Fax : 0801-2464215 c-eus) einsteußggrad com Website (www.efurd).in

Test Report

AMBIENT NOISE LEVEL MONITORING REPORT

1. Name of the Project

: M/s Athani Sugars Pvt. Ltd.

Vishnuannanagar, Post; Navalihal-591234, Tq: Athani, Dist: Belagavi, Karnataka

2. Sample Collected by

M/s. Environmental Health and Safety Research & Development Centre Unit II, Belagavi - 590015.

24.02.2016

3. Date of Collection 4. Particulars of Sample

Ambient Noise Level collected through

Collected Date of Sample Receipt Sound Level Meter EQ-8852 25.02.2016

Sample Number

EHSRDCU2/ASPL/N/16/02/1643,1644,1645 &

1646

7. Report to be Sent

: 03.03.2016

Method Adopted

: Instrument Method

Page No

: 6 of 16

2000				Std.				
Code No	Sample Location	Sample Location Time Frequency		Max.	Min.	1 ₆₄ dB(A)	75.0	
1643	Near Main Cate	10.00AM-10.15AM	71.2	51.1	62.79	dB(A)		
1444	Near Cane Carrier	10.20AM-10.35AM	71.2	:43.3	67.87	- Day		
1445	Near Guest House	10.40AM-10.55AM	79.9	43.9	64.32			
1446	Near Compost Yard	11.00AM-11.15AM	75.6	46.9	63.28			

- Note
- Day Time is reckoned between 6 A.M and 10 P.M.
- Night Time is reckoned between 10 P.M and 6 A.M
- i.e., It is energy mean of the noise level over a specified partial.
- *d8 (A) L_{eq} denotes the time weighted average of the level of sound in decibels on scale. A which is relatable to human bearing.
- A "decibel" is a unit in which noise is measured.
- "A", in dB (A) $L_{\rm ep}$ denotes the frequency weighting in the measurement of noise and corresponds to Frequency response characteristics of the human ear.

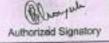
INFERENCE

As per CPCB Standards,

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

standards.

End of Report





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An ISO 98012006, A OHSAS 988012007 Certified Lieboxskory

Partne, 467, Kontorp Industrial Area, Auto Nogar, Selgman - 580 015, Phy: 0821-2454012, Fax: 0803-2454215 6-mail: etorbu2@gnelicon Websits ; www.shoroc.in

Test Report

ANALYSIS REPORT OF EFFLUENT QUALITY

Name of the Location 1.

Name of the Project

Sample Collected by 3.

Date of Collection 4. Porticulars of Sample

Collected 6. Date of Sample Receipt

Sample Number

Analysis started on

Analysis Completed on 10. Report to be Sent

11. Page No.

12. Protocol

: ETP Un-Treated Water

M/s Athani Sugars Pvt. Ltd.

Vishruannanagar, Post: Navalihal-591234,

Tq. Athant, Dist Belagavi, Karnataka

: M/s. Environmental Health and Safety Research & Development Centre Unit-II, Belgaum - 590015.

: 24.02.2016

1 ETP Un-Freated water, Grab Sampling

: 25.02.2016

: EHSRDCU2/ASP1/WW/16/02/1647

1 25.02.2016

: 03.03,2016

1 03.03,2016

: 70116

: APHA_22* Edition

		Parameters Test Method		Result
il.No	Parameters	The state of the s		3.82
4	all	4500H* B	-	<5.0
14	pH	2120 B	Hazen	A company of the comp
2	Colour	\$520 B	mg/4-	DDM
3.	Oli & Greate	5210 R	mg/L	16000
4.	800		mg/L	46794
3	Chloride	4500-C111		172.811
6.	Sulphate	4500-5074	mg/l.	8432
T.	Total Dissolved Solids	2540 C	mg/L	7000
- 6	Total Suspended Solids	2540 D	mg/L	1000

***Fad of Reserve

Authorized Signatory

NOTE: The report is subject to the terms & conditions mentioned overleaf



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As ISO SIGN 2008, & CHSAS 16001-2007 Curshed Laboratory

Placific, 457, Nanberg Industrial Asso, Auto Hispar,

Belgiam - 550 010.

Ph.: 0621-0454012, Fax: 0831-0454015

6-mail: ehodca7@gmat.com Website: www.efertic.in

Test Report

ANALYSIS REPORT OF EFFLUENT QUALITY

Name of the Location

1. ETF Treated Water

Name of the Project

: M/s Athani Sugars Pvt. Ltd. Vishnuannanogar, ('ost: Navalihal- 991234,

3. Sample Collected by

Eq: Athani, Dist: Belagavi, Karnataka : M/s. Unvironmental Health and Safety Research & Development Centre Unit-II, Belgaum- 590015

Date of Collection 4.

: 24.02.2016

Particulars of Sample

1 F4P Treated Water, Grab Bampling

Collected 6. Date of Sample Receipt

: 25,02,2016 1 EHSRDCU2/ASPL/WW/16/02/1648

7. Sample Number

1 25.02.2016

8. Analysis started on Analysis Completed on

1 03.03.2016

10. Report to be Sent

1 03.03.2016 1 8 of 16

11. Page No. 12. Protocol

: APHA.22vd Edition

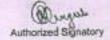
SLNo	Parameters	Test Melhod	Unit	Result	KSPCB Limits
1.	pH	4500FF B		7.79	6.0-8.5
2.	Colour	2120 31	Haten	45.0	74
- 0.	Oil & Crease	55000	T/Spor	36736.	10
4	BOD	5210 8	mg/L	(90)	100
- 5	Chloride	4500-C1 B	1192/1	463.26	1008
6.	United States of the Control of the	4500-SO/	mg/L	147.5	1000
	Total Dissolved Solids	2540 C	mg/L	1432	2100
8.	The state of the s	25401)	.mg/1	- 20	100

As per CPCB Standards,

INFERENCE

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

*** End of Hopen ***





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An ISD 98012006, & OHSAS 180012007 Cartilled Littoriery

Plot to: 457, Konturg Indiantel Area, Auto Negel. Isangeum - 590 015,

Pb : 0831-0454012, Pax : 0831-0464215

E-mail: wierdou/Egyraticon Website: www.startc.in

Test Report

ANALYSIS REPORT OF EFFLUENT QUALITY

1. Name of the Location

2. Name of the Project

: Raw Spent Wash

: M/s Athani Sugars Pvt. Ltd.

Vishmuannagar, Post Navalihal-591234, Tig. Atham, Dist: Belagavi, Karnataka

3. Sample Collected by

M/s. Environmental Health and Safety Research & Development Centre Limit-II. Belgaum- 590015.

. Date of Collection

5. Particulars of Sample Collected 1 24.02.2016

: Raw Sport Wash, Grab Sampling

6. Date of Sample Receipt

7. Sample Number

8. Analysis started on

Analysis Completed on
 Report to be Sent

11. Page No.

12. Protocol

1 25.02.2016

± FRSRDCU2/ASPL/WW/16/02/1649

1 25.02.2016

1 03.03.2016

1 03.03.2016

1 09 of 16

1 APHA,224 Edition

SLNo	Parameters	Test Method	Unit	Result
1	рH	450011 8	22	4.28
2	Alkaindy	2320 8	179,671	1200
3	Oil & Grease	5520 (5	mg/L	61%
4	HOD	521019	mg/L	43000
5	COD	52208	mg/1-	61800
6	Chloride	4500-CLII	mg/I	16843.84
2	Sulphate	4500-507	mg/f	2576.ft
5	Total Suspended Solids	2540 ()	mg/L	3500
9	Potassium as K	3500-K	mg/1	16800
10	Total Kjeldhal Nitrogen	4500 NH-58C	ing/f	17)
11	Total Solids	25108	mg/t	142646

***Sinf of Reporter





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An ISO 1801/2006, & CHISAS 18/001/2007 Confled Laboratory

Plot No. 457, Kurdungi Industrial Assis, Auto Hages Belgaun - 590 015. Ph : 0831-3454010, Fax : 0831-3454218 E-coal : shortco2@grad.com Website : www.shardcim

Test Report

ANALYSIS REPORT OF EFFLUENT OUALITY

Name of the Location 1.

: Bio-Methanated Spent Wash

Name of the Project

 M/s Athani Sugars Pvt. Ltd.
 Vishmannanagar, Post: Navalihal-591234. Tg: Athani, Dist: Belagavi, Kamataka

Sample Collected by

: M/s. Environmental Health and Safety Research & Development Centre Unit-II, Belgaum- 590015

4. Date of Collection 1 24,02,2016

Particulars of Sample 5. Collected

t Bio-Methanated Spent Wash , Grab Sampling

Date of Sample Receipt 6.

1 25,02,2016

Sample Number

: EHSRDCU2/ASPL/WW/16/02/1650

Analysis started on 8.

: 25.02,2016 : 03.03.2016

Analysis Completed on 9, Report to be Sent 10.

: 03.03.2016

II. Page No.

: 10 of 16

12. Protocol

: APHA,22rd Edition

SLNo	Parameters	Test Method	Unit	Result
1	pH.	45001418	- 11	7.58
2	Alkalinity	2320 8	mg/1.	36000
3	Oil & Grease	5520 11	mg/1.	BUL
4	800	5210 B	mg/1.	20000
5	COD	52208	mg/L	50000
0	Chloride	4500-C1 H	mg/l.	18715
7	Sulphate	4500-502	mg/L	3307.245
- 8	Total Suspended Solids	2540 D	mg/L	5300
9	Potassum as K	3500-K	mg/L	16400
10	Total Kieldhal Nitrogen	4500 NH-B&C	mg/L	2163
- 11	Total Solids	25408	mg/L	157172

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An ISO 8081 2008: 4-0HSAS 16001 2007 Cartified Laboratory

Por. No. 457, Kennerg Industrial Arias, Auto Nagur, Beggurn - 900 015, Ph.: 3001-3454912, Pay: 3001-3454215 G. audi: enschol@ggmal.com. Website: www.entents.or.

Test Report

ANALYSIS REPORT OF EFFLUENT QUALITY

1. Name of the Location

Name of the Project

3. Sample Collected by

4. Date of Collection

5. Particulars of Sample Collected

6. Date of Sample Receipt

7. Sample Number

Analysis started on
 Analysis Completed on

10. Report to be Sent

11. Page No.

12. Protocol

: Multi-Effective Evaporation Outlet Water

 M/s Athani Sogars Pvt. Ltd. Vishmuannanagar, Post: Navalihal-591234.

Tip Athani, Dist Belagavi, Kernataka

 M/s. Environmental Health and Safety Research & Development Centre Unit-II, Belgaum- 590015.

: 24.02.2016

1 Multi-Effective Evaporation Outlet , Grab Sampling

± 25:02:2016

: EHSRDCU2/ASPL/WW/16/02/1651

: 25.02.2016

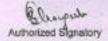
: 03.03.2016

: 03.83.2016 : 11 of 16

APHA.22 Edition

SLNo	Parameters	Test Method	Unit	Result
1	ptt	45000118	40	7.87
2	Afrainty	2320 B	mg/L	32000
7	OI & Grease	5520.8	mg/L	BDI,
+	BOD	5210 8	mg/L	36000
5	COD	52208	mg/L	160000
ti :	Chloride	4500-C1 B	mg/L	31819.92
7	Sulphate	4500-502	mg/L	12430
8	Total Suspended Solida	2540 D	mg/l.	10500
0	Potassium as K	3500-к	mg/L	25000
10	Total Kjeldhal Nerogen	4500 NH)-86C	mg/L	1106
11	Total Solids	25408	mg/l.	193823

***Find of Report ***





Reposition by Ministry of Environment & Foresto (MoEF) Gout, of India, New Delle. An ISO 801 200, & DHSAS 1801/2007 Guilfiel Liberatory

Plot No. 457, Kindungi Industrial Aves, Auto Reger.

Seignum - 580 015,

Ph : 0801-2464012, Fax: 0801-3454215

Li-mail: a hardour@grant.com. Website: www.uturdo.in

Test Report

ANALYSIS REPORT OF FRESH WATER QUALITY

Name of the Location

: Bore Well Water (Industrial Premises) : M/s Athani Sugars Pvt. Ltd.

Name of the Project

Vishnuannanagar, Post: Navalihal-591234,

Tq: Athani, Dist Belagavi, Karnataka

3. Sample Collected by : M/s. Environmental Health and Safety Research & Development Centry Unit-II, Belgaum- 590015

Date of Collection

1 24,02,2016

Particulars of Sample Collected

1 Bore Well Water, Grab Sampling

Date of Sample Receipt

: 25.02.2016

Sample Number

: EHSRDCU2/ASPL/W/16/02/1652

Analysis started on Analysis Completed on 1 25.02.2016 : 03.03.2016

10. Report to be Sent : 03.03,2016

11. Page No.

: 12 of 16

12. Protocol

: APHA 22st Edition

SLNo	SLNo Parameters	Protocol	Linit	Result		0500:2012 Revision)
STATE OF		State of the state				DI.
1	191	4500H1 B	-	9.02		-8.5
2	Colour	2120 8	Hazen	<1.0	- 5	15
3	Odour	-		Un Objectionable	Un-Obs	ectionable
4	Turbidity	2130 B	NTU	0.85	1	5
5	Total Dissolved Solids	2540 C	mg/1.	332	500	2000
. 0.	Total Hardness	2340 C	mg/L	48	200	600
-7	Calcium	3500-Ca	mg/L	1h	.75	200
8	Magnesium	3500 Mg B	mg/L	1.94	30	100
9	Chloride as-Cl	4500-C1 6	mg/L	130.4	250	1000
10	Sulphate as SO ₁	4500-5O ₁ 2	mg/L	(6,5	200	400
11.	Fluoride as F	4500F D	mg/L	0.79	1	1.5
12	Iron as Fe	3500-Fe B	mg/L	0.12	- 1	13
13	Nitrate as NOs	4500-NO-E	mg/i.	0.63		15
14	Total Coliform	15 15185 2802	CEU/100	Absent	Absent	
15	Faecal Coliforn	15 15185:2002	CFU/16	Absent	Ab	eant

INFERENCE

As per 15 10500:2012(Second Revision).

Report Status: - The measured values for the above parameters are within the standards

entired of Report on

Authorized Signatory

NOTE. The report is subject to the terms & conditions mentioned everteen



Recognised by Ministry of Environment & Forests (MoEF) Govt. of India, New Deltri.

An ISO 90012008, & CHSAS 900012007 Curtified Lebonsory

Plot No. 457, Kanturgi Industrial Area, Auto Magne,

Balgourn - 560/015

Ph : 0831-2454012, Fax : 0831-2454215

t-mail: droxlox@grad.com Waterie: www.chartc.in

Test Report

ANALYSIS REPORT OF FRESH WATER QUALITY

Name of the Location

Name of the Project

1 Bore Well Water (Guest House)

† M/s Athani Sugars Pvt. Ltd.

Vishnuannanagar, Post: Navalihal-591234, Tq. Athani, Dist. Belagavi, Kamataka

Sample Collected by

: M/s. Environmental Hiselth and Safety Research & Development Centre Unit-II, Belgaum- 590015

4. Date of Collection

Particulars of Sample Collected

: 24.02.2010

: Bore Well Water, Grab Sampling.

6. Date of Sample Receipt

: 25.02.2016

: EHSRDCU2/ASPL/W/16/02/1653

Sample Number
 Analysis started on

: 25.02.2016

9. Analysis Completed on 10. Page No.

: 03.03.2016

11. Report to be Sent

: 13 of 16 : 03.03.2016

12. Protocol

: APHA, 22st Edition

SLNo	Parameters	Protocol	Unit	Result	10.000000000000000000000000000000000000	0500:2012 Revision)
ee.word	Oliver Section		0.00	37570	DL	PI.
T	pH	4500H+ B	-	7,87	6.5	8.5
2	Colour	2120 8	Honor	41.0	5	15
3.	Odour			Un-Objectionable	Un-Obje	ctionable
4	Turbidity	2130 B	NTU	2.3	4	3.
5	Total Dissolved Solids	2540 C	mg/L	320	500	2000
6 :	Total Hardness	2340 €	mg/L	60	200	600
2	Calcium	3500-Ca	mg/L	20.8	75	2011
8	Magnesium	3500 Mg B	mg/L	1.94	- 30	100
9	Chloride as Cl	4500-CI B	mg/L	108.5	250	1000
10	Sulphate as 90;	4500-SO ₄ 2	mg/L	59.9	200	400
11	Fluoride as F	4500F D	mg/L	1.01	1	1.5
12.	from as Fe	3500-Fe B	mg/L	0.13	0.3	
13.	Nitrate as NO ₁	4500-NO ₃ E	mg/L	1.15	4	5
14	Total Coliform	IS 15185-2002	CFU/100ml	Absent	Absent	
15	Faecal Coliform	15 15185-2002	CFU/100ml	Alisent	Abs	ent

INFERENCE

As per 15 10500:2012(Second Revision).

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

serving of Reporter





Recognised by Ministry of Environment & Porests (MalDF) Gov. of India, New Dehi.

Far ISO 8001 20000, & CHSAS 18001 2007 Certified Lateratory

Phones, 457, Kardong Industrial Arms, Auto Nagar, Bolgouri - 500 015. Ph | 0130-3454017, Fee: 0831-3454215

E-mail: ethicits/2/gipmail.com Wobalta i ayavenheide in

Test Report

ANALYSIS REPORT OF FRESH WATER QUALITY

Name of the Location

: Well Water (Vittal Sembadi) : M/s Athani Sugars Pvt. Ltd.

Name of the Project

Vishnuannanagar, Post: Navalihal-591234. Tq: Athani, Dist: Belagavi, Karnataka

Sample Collected by

t M/s. Environmental Health and Safety Research & Development Centre Unit-II, Belgaum- 590015

24.02.2016

Date of Collection Particulars of Sample

: Open Well Water, Grab Sampling

Callected 6. Date of Sample Receipt

25.02.2016

Sample Number

: EHSRDCU2/ASPL/W/16/02/1654

8. Analysis started on

1 25.02.2016

9. Analysis Completed on

: 03,03,2016 : 03.03.2016

10. Report to be Sent

: 14 of 16

11. Page No. 12. Protocol

± APHA,22º Edition

-	o Parameters Protocol U		Unit	Result		10500:2012 d Revision)
SLNo		Linit		DL	17	
		4500H: B		7.34		585
1	pt1	2120 B	Hazen	<1.0	5	15
-2	Colour	2120 B	THEORY	Lin-Objectionable	Un-O	bjectionable
- 3	Odour	-	A17713	0.19	1	5
4	Turbidity	2130 B	NTU	The state of the s	500	2000
. 5	Yotal Dissolved Solids	2540 C	mg/L	1490	200	600
6	Total Hardness	2340 C	mg/L	564		200
7	Calcium	3500-Ca	mg/1.	145.6	75	
-	Magnesium	3500 Mg B	mig/L	18.fr	30	100
8	Chloride as Cl	4500-CT R	mg/L	217.1	250	1000
9		4500-5O ₂ 3	mg/L	161	200	400
10	Salphote as SOs	4300F D	ing/L	0.65	1	13
11	Fluoride as F		Laboratory and the same of the	0.03	10000	0.3
12	Iron as Fe	3500-Fe B	reg/L	8.45		45
13	Nitrate as NOs	4500-NO ₂ E	mg/L			Absent.
14	Total Coliform	IS 15185-2002	CFU/100ml	Alsent	+	Absent
15	Faccal Coliferm	15 15185/2002	CFU/100ml	Absent		Mindell

INFERENCE

As per 15 10500:2012(Second Revision),

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

- But of Report"

Authorized Signatory



Recognised by Ministry of Environment & Forests (MoEF) Gost, of India, New Daily.

As ISO 5981 2000, & OHSAS 18081 2007 Certified Laboratory

Piot No. 457, Konoung trabatatul Assa, Auto Magar, Balgaces - 690 015,

Ph.: (801-2454012, Fax: 0801-0494015

E-mail: etentral@grad.com Website: www.efentralin

Test Report

ANALYSIS REPORT OF FRESH WATER QUALITY

1. Name of the Location

2. Name of the Project

Well Water (Kareppa Musudee)
 M/s Athani Sugara Pvt. Ltd.

M/s Atharu Sugara PVL Ltd.
 Vishnuarinanagar, Post: Navalihal 591234.
 Tq: Athani, Dist. Bolagavi, Kamataka

3. Sample Collected by

 M/s. Environmental Fiealth and Safety Research & Development Centre Unit-II, Belgium - 590015

Date of Collection
 Particulars of Sample

Collected

6. Date of Sample Receipt

7. Sample Number

Analysis started on
 Analysis Completed on

10. Report to be Sent

11. Page No. 12. Protocol : 25.02.2016

1 24,02,2016

1 EHSRDCU2/ASPL/W/16/02/1635

1 Bore Well Water, Grab Sampling,

1 25.02.2016

: 03.03.2016

1 15 of 16

1 APHA, 22 Fdition

SLNo	Parameters	Protocal	Unit	Result	Std. 15 10500(2012 (Second Revision)	
					171	PL
1	pH	4500H: B	-	7,27	6.5	-8.S
2	Colour	7123.5	Hazen	43.0	5	15
3	Oxlour	14	74	12n-Objectionable	Un-Oby	ectionable
4	Turbidity	2130 8	NTU	0.3	1	3
5	Total Disselved Solids	2540 C	.mg/1.	1318	500	2000
6	Total Hardness	2340 C	mg/l.	556	200	600
2	Calcium	3500-Ca	mg/L	144	79	200
8	Magresium	3500 Mg B	mg/L	47.6	30	100
9	Chloride at Cl	4500-C1 II	mg/L	220.8	250	1000
10	Sulphate as 5O ₁	4500-5012	mg/L	145.4	200	400
11	Fluoride as F	4590F D	mg/L	0.43	1	1.5
12	Iron as Fe	3500-Fe B	mg/t.	0.03		0.75
13	Nitrate as NOs	4500-NO ₁ E	mg/1.	7.52	-45	
14	Total Coliform	IS-15185-2002	CFU/100m	Absent	Alsent	
15	Faccal Coliform	IS 15185:2002	CFU/100m	Absent	Λ	heavit.

INTERENCE

As per IS 10500:2012(Second Revision),

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

*** that of Report***

Authorized Signatory

NOTE: The report is subject to the terms & conditions mentioned overload

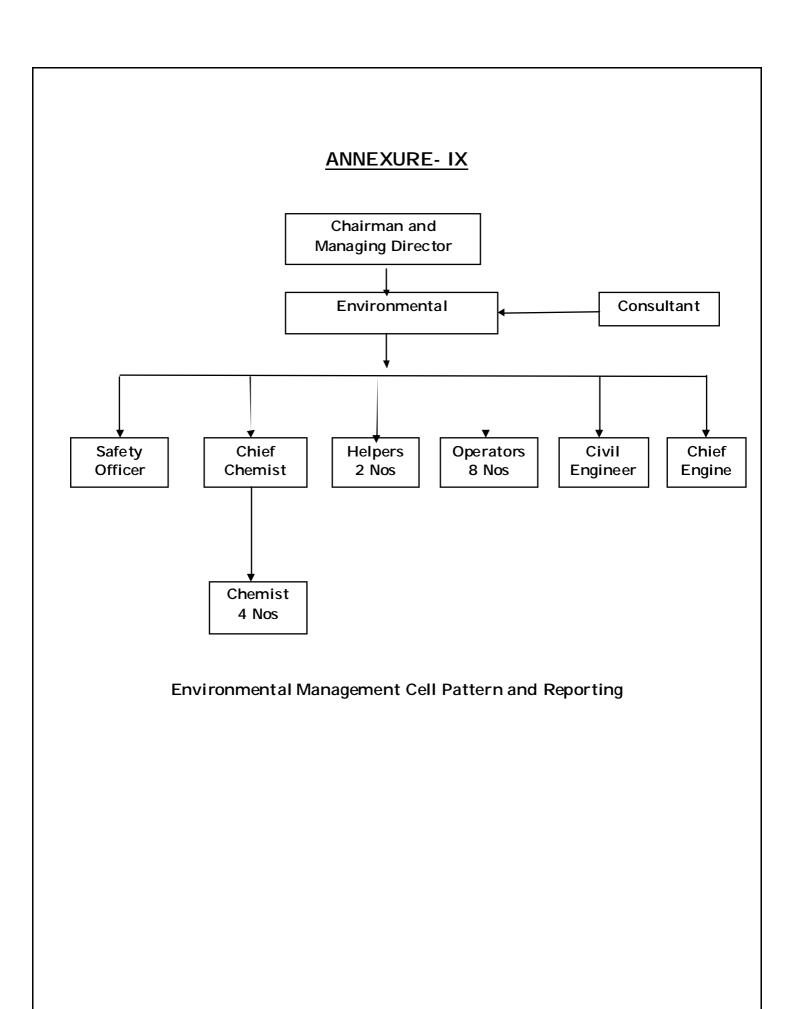
ANNEXURE -VIII



Online monitoring system for treated Effluent in Sugar ETP



Flow meter installed for treated Effluent for Sugar ETP.



ANNEXURE-X



INDIA NON JUDICIAL Government of Karnataka

e-Stamp

Certificate No.

Cartificate Issued Date

Account Reference

Unique Doc. Reference

Purchased by

Description of Document

Description

Consideration Price (Ra.)

First Party

Second Party

Stamp Duty Paid By

Stamp Duty Amount(As.)

IN KASS70007GSSSGS7M

09-Jan-2014 10:25 AM

NONACC (FI)/ kalistolol/ ATHANI2/ KA-BL

SUBIN-KAKAKSFCL0865682532768648M

ATHANI SUGARS LTD VISHNU ANNA NAGAR

Article 12 Bond

AGREEMENT

: 0

(Zero)

ATHANI SUGARS LTD VISHNU ANNA NAGAR

THEUR GASES PVT LTD BANGALORE

: ATHANI SUGARS LTD VISHNU ANNA NAGAR

100

(One Hundred only)



SSUED BY:
Shri Venkateshwar Urban Credit
Southard Sahakari Ni., Athani.

Rough ub Ul

Authorised Signature.

Please write or type below this distance

UNDERTAKING

We, Athani Sogues Limited, Vishauenna Nogar, Post. Navalihat, wish to inform that, in our Distillery during Fermentation Process Raw/Impure Carbon Dioxide Gas is evalved. Now, we have decided to collect the same Raw Carbon Dioxide after removal of residual alcohol, and it is to be supplied to private pagy on contract basis for further process.

We have decided to sell the Raw/Impure Carbon Dioxide Gua to M/s. Theur Gases Pvt Ltd, Bangalore on contract basis. They will process the Raw/Impure Carbon Dioxide

Heritary XIII-I

At the story of the first permits that it would be a supply of the story of the sto

The Art Section Control of the Contr

Gax, purify, compress and liquefy into final product of pure liquid Carbon dioxide. For the above mentioned process, they will install required Plant and Machinery in our sagar

During the purification process the Rawlimpure Carbon Dioxide Gas is scrubbed using Hydrogen Peraxide solution. The used solution which is colourless will be the Effluent generated by their plant. This Effluent will be around 2 to 5 M3 per day. This is negligible quantity and we will allow them to discharge this into our augur factory ETP. We have NO OBJECTION to the above firm in discharging their Effluent (Industrial and Domestic) in our existing FTP system.

Hence, we are giving this undertaking that, we will obtain the poliution consent from the Karnataka Pullution Control Board to establish and run the Carbon Dioxide Plant which will be installed in our premises as per the Agreement dated 09/01/2014. We are also giving Theur Gases Pvt Ltd, consent to establish and run their Carbon Dioxide Plant.

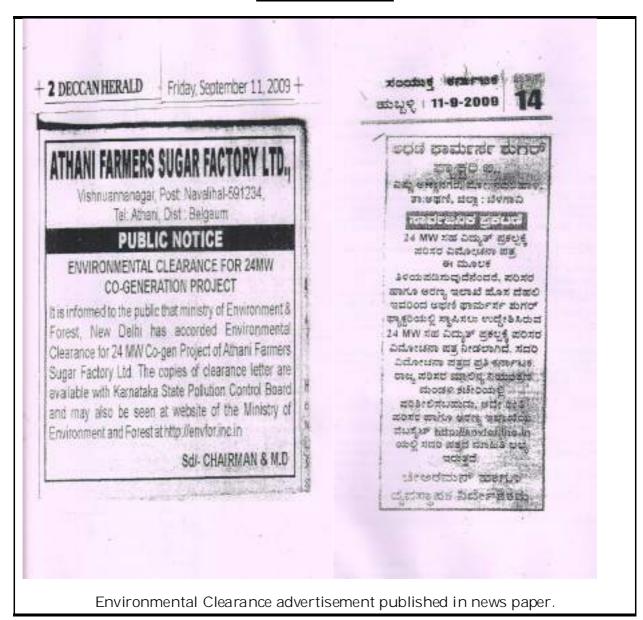
Date: 24.02.2014

Place: Vishnuanna Nagar, Athani.

For Athuni/Sugars Limited



ANNEXURE-XI



ANNEXURE-XII

CPO FOR BOKLPSTE BOKELPS

எருக்_ / Fax : 080-25586321

dechee* / E-mail : ho@kspcb.gov.in ದೆಲ್ಡ್ ಸ್ಟ್ರೈನ್ / Website : http://kspcb.gov.in



25581383, 25589112 25588151, 25588270 25588142, 25586520

ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ Karnataka State Pollution Control Board

"ಪರಿಸರಭವನ", 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ.49, ಚರ್ಚ್ ಬ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ, ಭಾರತ "Parisara Shavans", 1st to 5th Floor, # 49, Church Street, Sengaluru - 560 001, Kamataka, INDIA

/BY RPAD/

No.: PCB/148/HP1/2010(77

Deled: 2 2 APR 2014

ADDENDUM to Consent order No: KSPCB/148/HPI/2010/731 dated 02.08.2013

Sub: Consent for Operation under the Water (Prevention and Control of Pollution) Act 1974 and Emission under the Air (Prevention and Control of Pollution) Act 1981 for expansion of Rectified Spirit from 30 to 60 KLD by M/s. Athani Farmers Sugar Factory Ltd, Vishnuannanagar Village, Navalibal Post, Athani Taluk, Belgaum District -reg.

Ref: 1) E C issued from MOEF vide letter no J-11011/189/2009-LA-II(I), Dated: 01.09.2009

- 2) Combined Consent order No: PCB/148/HPI/2010/731 dated 02.08,2013
- CFE-expansion order No. PCB/148/HPI/2013/1100 Dated: 26.10.2013.
- Industry's CPO application for expanded capacity dated 08 01 2014 received at R.O. Chikkodi on 03-02-2014. (Reg. 64825)
- Inspection of the industry by the regional Officer, Chikkodi, Dated: 22.01.2014.
- Proceedings of Consent Committee Meeting held on 15.03.2014.

E The Board has accorded Consent under Section 25 of Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 vide ref. (2) to M/s. Athani Farmers Sugar Factory Ltd, Vishmuannanagar Village, Navalihal Post, Athani Taluk, Belgaum District considering the following manufacturing activities:

are er v	ruce.	The state of the s
SI. Products & By No. 1 Rectified Spirit	Products & By-products	Maximum Capacity
		30 KLPD
	Rectified Spirit	20.4100.0

The Board has issued Consent for Expansion for Rectified Spirit plant from 30 KLD to 60 KLD vide ref (3) Now, the industry has submitted CFO application for expansion of Rectified Spirit production from 30 KLD to 60 KLD vide ref (4).

Regional officer, Chikkodi has forwarded the applications vide ref (5). The subject was discussed in the Consent Committee Meeting held on 15.03.2014 vide ref (6) and the committee has recommended to issue CFO for expanded capacity.

Hence the following addendum is issued to the consent issued vide ref (2) cited above.

M's Athers Sugars Ltd., CFO, Addression, 2014

"පලබුල" සමස් කලුම, ස්කරේ සහ රේදීම"

AVOID USE OF PLASTICS- RE 'ECD' FRIENDLY

ADDENDUM

- In addition to the activities permitted in the consent order issued vide order cited under ref (2), the industry is permitted to operate for 60 KLD Rectified Spirit plant.
- The existing trade effluent generation from Distillery (Spent Wash) is 326 KLD. This spent wash shall be Compost in the compost yard and compost shall conform to the standards stipulate in annexure-1.
- After expansion of Distillery plant from 30 KLD to 60 KLD, the total quartity of spent wash generation is 480 KLD. This shall be composted in the existing compost. yard and compost quality shall conform to the standards stipulate in annexure-1.
- 4. The discharge of emission from the premises of the applicant shall pass through the Air pollution control equipment and discharge through stacks/chimney mentioned in the annexure-II where from the Board shall be free to collect the sample at any time in accordance with the provisions of Acts & rule made there under.
- The amended consent order shall come into force from the date of issue.

All other conditions stipulated in the consent under the Water Act and the Air Act issued vide reference (2) above shall be complied with and remains unaltered.

FOR AND ON BEHALF OF THE KARNATAKA STATE POLLUTION CONTROL BOARD

CHIEF ENVIRONMENTAL OFFICER

To. The Managing Director, M/s. Athani Farmers Sugars Factory, Sy No. 53, 54, 56, 437, 438 & 509, Vishnuannanagar Village, Navalihal Post, Athani Taluk, Belgaum Dist-59304.

> Large 1. Size: L/M/S Red

2. Category: R/O/G:

Rs.30,000 under each acts 3. Consent Fee Paid:

Rs. 20 Crores (For expansion only) 4. Capital Investments:

1. The Environmental Officer, KSPCB, Regional Office, Chikkodi, for information and to inspect the industry during your next visit to the area.

Master Register.

Case file.

CHIEF ENVIRONMENTAL OFFICER

ANNEXURE-I

Standards For Discharge of Treated Trade Effluent On Land For Gardening/Irrigation

Sl.No.	Parameters	Tolerance Limits	
1	Colour and Odour	See Note	
2	Suspended Solids mg/l Max	100	
3	pH value	6 to 8.5	
4	Oil and Grease mg/l.Max	10	
5	BOD, mg/l. (3 days at 27°C) Max	100	

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

ANNEXURE-II

Chiman ey No.	Chinney attached to	Min. chimney ht. to be provided AGL	Rate of emissio n NM ³ /Hr	Constituent s to be controlled in the emission	Tolerance limits mg/NM ³	Air pollution control equipment to be installed, in addition to chimney height as per CoL(3)
-1	2	~ 3	4	5	6	7
1	18 TPH Boiler	42m AGL	-	PM	150	ESP
2	1250 KVA D.G.Set	30 m AGL	2	SO ₂		Acoustics

CHIEF ENVIRONMENTAL OFFICER

ANNEXURE III COMPOST QUALITY Standards Parameter St. No < 35% Moisture Content 20-25% Organic Carbon 1.5-2.0% Phophorous 1.5-2.0% Nitrogen. 4 2:0-3:5% Potassium <17 C:N Ratio CHIEF ENVIRONMENTAL OFFICER

First CFO obtain for 60 KLD Distillery