



# Shree Renuka Sugars Ltd.

**Factory :** Unit I, RS No. 367/1,  
Vill. Munoli, Tal. Soundatti,  
Dist. Belagavi-591117, Karnataka.  
Tel. : 08330-277701/2/3 Fax : 08330-277189  
e-mail : plant@renukasugars.com

Ref: SRSL Unit-I /MoEF/EC Compliance 2019-20

To,

Date:20/12/2019

The Director (SZ)  
Government of India Ministry of Environment, Forests & Climate Change.  
Regional Office (Southern Zone),  
Kendriya Sadan, 4th Floor, E & F Wings,  
17th Main Road, 2nd Block, Koramangala,  
Bangalore- 560 034. Ph : 080 – 25635907

**Respected Sir/Madam,**

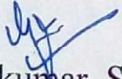
**Sub: Half yearly Compliance report of Environmental clearance-reg**

**Ref - .No.J-11011/8/2002 –IA II (I) Dated 19.09.2002**

This has reference to the above Subject and cited reference, We would like submit here with point wise half yearly compliance to the Environmental clearance for the period from 1<sup>st</sup> April 2019 to 30<sup>th</sup> September 2019

This is for your kind information & perusal

**Thanking You**  
**Yours faithfully**  
**For M/s Shree Renuka sugars Ltd., Munoli**

  
Abhaykumar S Khot  
General Manager (Works)



CC to : The Environmental Officer , KSPCB Belagavi -I

Encl: EC Compliance

**SHREE RENUKA SUGARS LTD. R.S. No. 367/1, VILLAGE MUNOLI,  
TALUK SOUNDATTI, DISTRICT BRLGAUM  
COMPLIANCE TO THE MOEF – ENVIRONMENTAL CLEARANCE CONDITIONS**

Distillery Unit (60 KLPD) by M/s Renuka Sugars Ltd. at Munoli, Taluka Soundatti, District Belgavi Karnataka- Environmental Clearance

**REF: F.No.J-11011/8/2002 –IA II (I) Dated 19.09.2002**

**Date: 20/12/2019**

Sr.No.	Condition	Compliance
1.	This has reference to your communication No.nil dated April 4 2002 along with EIA/EMP report, CD and subsequent clarification furnished vide your letters dated 20 <sup>th</sup> May 2002 and 19 <sup>th</sup> and 30 <sup>th</sup> July 2002 on the above mentioned project. Ministry of Environment and Forests has carefully examined the proposal. It is noted that proposal is for establishment of New distillery unit from 60 KLPD in district Belgaum, Karnataka. The unit will be in operation for 225 days in a year. Land Area of the project is 12.5 ha. Project does not involve forest land and displacement of people. Water requirement of 390 M3/day will be met from the Malaprabha river for which approval from State Irrigation Department has been obtained.	Noted the content.  Presently distillery capacity is 120 KLPD. Expansion is carried out in the year 2006-07 vide (Consent for Establishment from Karnataka State Pollution Control Board No. 86 Dates 17.06.2006) with no increase in effluent generation quantity 360 m3/day. Distillery with capacity 120 KLPD commissioned on Oct. 2008. The no. of days of operation for distillery are 270 days and no additional land area is utilized. The project occupied in same land area. The fresh water consumption is 230 M3 per day met from Malaprabha river. The Distillery CFE Copy is attached as <b><i>Annexure-I</i></b>
2.	The unit will adopt continuous fermentation technology, Molasses requirement will be met from its sugar unit of 2500 TCD. Solid waste will be generated in the form of ETP sludge (3960MTPM) which will be used for the making compost. NOC from KSPCB has been obtained on 8 <sup>th</sup> February 2002. Public hearing	The sate of art continuous fermentation technology is adopted to reduce the effluent generation at source. The molasses requirement is met from our own sugar unit

	panel has considered the project in the meeting held on 11 <sup>th</sup> Dec. 2001. The total cost of the project is 13.00 corers.	7500 TCD. The solid waste generated ETP sludge/ yeast sludge and press mud is utilized for making the aerobic compost by using distillery spent wash. The total project cost for 120 KLPD distillery is 40 corers
3.	The Ministry of Environment and Forests hereby accord environmental clearance to above project under the provision of EIA Notification dated 27 <sup>th</sup> January 1994 as amended subsequently subject compliance of the following specific and general condition.	Noted and compliance to the conditions are as follows.
A.	<b>SECIFIC CONDITIONS</b>	
i.	The Industry should insure that the treated effluent and stack emission 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 should be shut down and should not be restarted until the control measures are rectified to achieve the desired efficiency.	The Treated effluent and stack emission form unit are well with the norms stipulated by SPCB. The recent analysis report of treated effluent and stack emission is attached as <i>annexure-II</i> ,We will ensure that there will not be any process disturbance or failure of pollution control equipment.
ii.	The company should adopt State – of the -art continuous fermentation technology for the distillery and ensure that the spent wash generated will not exceed 8 m3/KL of rectified spirit production	We have adopted state of art continuous fermentation technology to reduce the effluent generation at source. Presently spent wash generation is 3 m3/KL of rectified Spirit.
iii.	As reflected in the Environmental Management Plan, the spent wash generated will be used for Bio-composting with press mud. Land and other requirements should as per CPCB guidelines. Composting area must be provided with suitable drainage control measures to prevent any run off into Malprabha river. Further Suitable dust suppression measures should be taken in the composting area.	The entire spent wash generated is being utilized for Bio-composting with press mud. The compost yard area is RCC concreted and compost yard is provided with suitable drainage system in the form of Garland canal and garland canal is joined to the storm water collection



		tank. The tree plantation is carried out around the compost yard for dust suppression.
iv.	The spent wash should be stored in impervious lagoons. As per the recommendations of TAC of Karnataka SPCB, storage should not exceed 30 days capacity.	The spent wash is being stored in impervious storage lagoons prepared as per CPCB guidelines. The capacity of storage lagoon is 30 days.
v.	The company must monitor the soil and ground water in the compost and project area on regular basis and submit half-yearly reports to SPCB and the Ministry.	The soil and ground water in the compost and project area is regularly monitored. The soil and ground water analysis is attached. <b>As annexure-III</b>
vi.	The company should undertake rain water harvesting measures as per action plan submitted to the ministry.	The rain water harvesting measures are already undertaken by providing the recharge pits joined to the rain water form go-down. We have also dug the trenched across the slope in plantation area, so that more rain water directly infiltrate in soil and recharge the ground water and also helps in conserving the moisture in tree plantation area.
vii.	The industry shall comply with all the recommendations made by the TAC of the SPCB during their inspection of the unit on 18.01.2002 and in the meeting held on 02.02.2002	The TAC recommendations are already complied.
vii.	As reflected in the EIA/EMP, green belt of adequate width and density should be provided to mitigate the effects of fugitive emission all around the plant as per the CPCB guidelines in consultation with the local DFO. Further company should not undertake the activity in the strip of 500-700 m towards WS and SW portion towards the Malaprapha river. This area should be developed under green belt only.	The green belt development is already undertaken and about <b>22575</b> trees of Casuarinas, Eucalyptus, Acacia, Banyan, Almond, Peepal, Cocconut, Mango, Gulmohor, karanji etc. are planted and the activity will be further continued Total area covered is 14.34



		Hectare. The green belt details and drawing showing the green belt development is attached as <i>Annexure-IV</i> .
ix.	Occupational health surveillance programme should be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre should be strengthened and the medical records of the each employee should be maintained separately.	<p>The Health surveillance program for the entire employee including contract labor being done once in a year in our premises.</p> <p>Blood checkup for Mess staff.</p> <p>Health awareness program periodically by our RMO.</p> <p>The medical records of the each employee are being maintained separately.</p>
B	GENERAL CONDITIONS	
i.	The project authorities must strictly adhere to the stipulations made by the Karnataka State pollution control Board and State Government	The stipulations made by Karnataka State Pollution control Board and State Government are strictly complied.
ii.	No further expansion or modification in the plant should be carried out without prior approval of the Ministry of Environment and Forest.	Noted necessary prior approval will be taken for the expansion if any.
iii.	Ambient Air Quality Monitoring Stations should be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO <sub>2</sub> , NO <sub>x</sub> are anticipated in consultation with the State pollution Control Board.	The Ambient Air Quality Monitoring Stations are already set up in the down wind direction as well as where maximum ground level concentration of SPM, SO <sub>2</sub> , NO <sub>x</sub> are anticipated in consultation with State Pollution Control Board. The location wise Ambient Air Quality Analysis report is attached. <i>as annexure-V-</i>

iv.	Adequate number of influent and effluent quality monitoring stations should be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters.	The influent and effluent quality is regularly monitored and the results of the relevant parameters prescribed by State Pollution Control Board are well within the prescribed norms.
v.	The overall noise levels in and around the plant area should be kept well within the standards (85dBA)by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should confirm to the standards prescribed under EPA Rules, 1989 Viz. 75 dBA (day time) and 70 dBA ( night time)	The Ambient Noise levels in and around the plant area is well within the norms Viz. 75 dBA (day time) and 70 dBA (night time).The Noise control measures are already provided including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level analysis certificate is attached.-as <b><i>annexure –VI</i></b>
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. The project authorities will provide adequate funds both recurring and non recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for any other purpose.	A separate management cell equipped with full fledged laboratory facilities is provided. The details of environmental cell, Laboratory facilities available and parameters analyzed are attached as <b><i>annexure-VII</i></b>
viii.	The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Bangalore / State Pollution Control Board. A six monthly compliance status report along with the monitoring data should be submitted to the monitoring agencies.	The six monthly compliance reports along with the monitoring data is being regularly submitted to State pollution Control Board and Ministry's Regional Office at Bangalore.
ix.	The project proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry Of Environment and Forests at <a href="http://envfoc.nic.in">http://envfoc.nic.in</a> . This should be advertised within seven days from the date of issue of the clearance	The advertisement published widely circulated in two local news papers mentioning about the receipt of environmental clearance for the project.

	letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office.	
x.	The project Authorities should inform the Regional Office as well as the Ministry the date of Financial closure and final approval of the project by concerned authorities and the date of start of land development work.	The date of financial closer for the 120 KLPD distillery was Aug.2008. The project is within same premises and no additional land development was carried out for the project.
3.0	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted the condition
4.0	The Ministry reserves the right to stipulate additional conditions if found necessary. The company will implement these conditions in the time bound manner.	Noted the condition.





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Karnataka State Pollution Control Board

ನಂ. 49, ಪರಿಸರಭವನ  
4 ಮತ್ತು 5ನೇ ಅಂತಸ್ತು, ಚರ್ಚ್ ಸ್ಟ್ರೀಟ್,  
ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ, ಭಾರತ

#49, Padmasa Bhavan  
4th & 5th Floor, Church Street,  
Bangalore - 560 001, Karnataka, INDIA

NO: CFE-EIA/SRSI/EIA-414/2006-2007/

DATED

/ BY REGD. POST WITH ACK. DUE /

797 JUN 2006

TO:

The General Manager (Tech.)  
Shree Renuka Sugars Limited  
Munoli- 591 117  
Saundatti Taluk, Belgaum District.

Sir,

Sub: Consent for Establishment for expansion of Distillery unit from 60 KLPD to 120 KLPD at R.S.No.137, Munoli-591 117, Saundatti Taluk, Belgaum District, by M/s Shree Renuka Sugars Limited.

- Ref:
1. Your CFE application received on 26.11.2005 at Regional Office, Belgaum.
  2. Inspection report of the Regional Officer along with the CFE application vide No.1574 Dated 26.11.2005.
  3. Proceedings of the 314<sup>th</sup> Technical Advisory Committee meeting held on 22.11.2005.
  4. Proceedings of the 316<sup>th</sup> Technical Advisory Committee meeting held on 16.02.2006.
  5. Proceedings of the 317<sup>th</sup> Technical Advisory Committee meeting held on 22.03.2006.
  6. Proceedings of the 318<sup>th</sup> Technical Advisory Committee meeting
  7. Proceedings of the Consent Committee Meeting held on 01.04.2006.

ಪ್ರತಿಪತ್ತಿ

With reference to the above subject, The industry has made an application to the Board for expansion of distillery unit from 60 KLD to 120 KLD at Sy. No.137, Munoli-591 117, Saundatti Taluk, Belgaum District, and claimed that there is No Increase in Pollution Load, as the industry has installed RO plant to treat spent wash and also proposed an additional RO plant for expansion project. The industry claims that the quantity of effluent generation after expansion is same as that of the existing consented quantity and they are not proposing any additional new air pollution sources in the distillery plant.

The subject on the above claim was discussed in detail, in the 314<sup>th</sup> TAC meeting held on 22.12.2005, 316<sup>th</sup> TAC meeting held on 16.2.2006 and in the 317<sup>th</sup> TAC meeting held on 22.3.2006 and 318<sup>th</sup> TAC meeting, after detailed examination of the process, pollution control system, existing and proposed additions and other controls, the TAC has opined that, the claim of the industry with regard to no increase in pollution load can be accepted.

Further, this issue was examined in the Consent Committee meeting held on 01.04.2006 and in the light of TAC opinion, the Committee has recommended to grant Consent for Establishment to the industry. However, at any point of time if the pollution load is proved more than the present load, the industry shall stop the operation and go through the public hearing process.

Hence, Board hereby accords Consent for Establishment under the Water (Prevention & Control of Pollution) Act 1974 and the Air (Prevention & Control of Pollution) Act 1931.

for expansion of Distillery unit from 60 KLPD to 120 KLPD at R.S.No.137, Munoli-591 117, Saundatti Taluk, Belgaum District, by M/s.Shree Renuka Sugars Limited, considering that there is no increase in pollution load consequent to the increase in production, subject to the following conditions.

1. The applicant shall keep Ministry of Environment (MoEF) informed as per the EIA Notification dated: 27.01.1994 (vide explanatory note).
2. The applicant shall not under take expansion/diversification/modernization, change of location of site etc, without prior clearance from the Board.
3. In the event of the resultant pollution load generated from the expansion exceeds the existing pollution load as committed by the industry, at any point of time under any circumstances, after commissioning of the plant, the Board reserves the right to withdraw the Consent for Establishment issued to the industry and will have to direct the industry to follow the procedure as laid down under EIA Notification 1994.

**I. Water Pollution Control:**

1. The applicant shall comply with all the consent conditions stipulated in the consent issued by the Board under the Water Act and the Air Act respectively vide consent order No.KSPCB/17CAT/WPC/RENUKA/2005-06/124, dated 27.07.2005 and No.KSPCB/17CAT/APC/RENUKA/2005-06/123, dated 27.07.2005.
2. The total quantity of water consumption shall not exceed 734 KLD and trade effluent generation (spent wash) shall not exceed 360 KLD and spent lees shall not exceed 260 KLD after expansion and pollution load shall remain within the consented capacity.
3. The spent wash so generated should be completely treated in R.O plant and composted to produce manure and the spent lees should be taken to sugar plant for imbibitions.
4. There shall not be any discharge of treated/untreated effluent either inside/outside the factory premises.
5. Industry has to establish new Reverse Osmosis plant of capacity 450 M<sup>3</sup> per day to treat spent wash generated from the process.
6. If the treatment plants do not achieve the effluent standards stipulated as per the consent order or if it is found to be inadequate or if the standards are revised from time to time, then the industry shall have to modify the units so as to meet the standards with prior consent of the Board.
7. The entire compost yard will be provided with RCC lining within 1 year.
8. The spent wash generated is first concentrated in re-Boiler and then fed to R.O plant. The industry shall monitor the efficiency of R.O on regular basis and submit the report of the Board.
9. The entire compost yard, storage yard for raw material and composted material should be concreted to prevent ground water pollution.

10. The applicant shall provide sufficient land for storage of extra press mud for expansion including the press mud brought from other sugar mills.
11. The entire yard should be provided with proper garland canal, impervious leachate tank and other facilities to avoid percolation of waste water and contamination of ground water pollution.

#### **II. Air Pollution Control:**

1. There shall not be any additional Air Pollution Sources from the expansion of distillery from 60KLPD to 120 KLPD.
2. Carbon di-oxide which contains traces of Ethanol vapour should be scrubbed with water and recycled to the fermenter.
3. There shall not be any increase in the fugitive emission from the increase in production and there shall not be any increase in the total emission load in to the atmosphere due to expansion activity.
4. The applicant shall take all necessary efforts to control odour nuisance caused due to emission from the industry.
5. There shall not be any complaint against the industry about water pollution, air pollution and odour nuisance and if any, industry shall take necessary measures to control the nuisance.

#### **III. Solid Waste/ Hazardous Waste Management:**

1. The spent sludge generated from the fermenter should be mixed with press mud and used for composting to produce manure.
2. The quantity of hazardous waste shall not exceed the quantities mentioned in the authorization issued under Hazardous Waste (Management & Handling) Rules, No. KSPCB/HWMC/AEO/EO/SEO-1/2002-03/895 dated: 07.08.2002 valid up to 5 years from 01.06.2002.
3. The applicant shall abide by the conditions stipulated in authorization issued under Hazardous Waste (Management & Handling) Amended Rules 2003, vide No. KSPCB/HWMC/AEO/EO/SEO-1/2002-03/895 dated: 07.08.2002 valid up to 5 years from 01.06.2002.

#### **IV. General:**

1. The applicant is liable to restore, damage or destroyed elements of environment at its cost, failing which, the applicant/occupier shall be liable to pay the entire cost of remediation or restoration and pay in advance an amount equal to the cost estimated by Competent Agency or Committee.
2. The industry shall not commission the production expansion for trial or regular unless all the facilities as proposed in the de-bottlenecking is installed to the satisfaction of the Board.




3. 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
4. The applicant shall provide all necessary healthcare facilities to workers and shall carry out routine health survey among workers tests like Spirometry, Pulse Oxymetry, Lung function test, etc., shall also be carried out at regular interval under the supervision of Expert Medical Practitioner.
5. The applicant shall immediately report to the Board of any accident or unforeseen act or event resulting in release of discharge of effluents or emissions or solid wastes etc, in excess of the standards stipulated, and the applicant shall immediately take appropriate corrective and preventive actions under intimation.
6. The industry shall comply with all the suggestions/recommendations made by the consultants during the preparations of the report and the suggestions made during the TAC meetings
7. The applicant shall comply with all the Rules issued under statue and guidelines issued by the competent authority regarding environment safe guard from time to time.
8. The Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions.
9. This CFE does not give any right to the Industry to forego any legal requirement, which is necessary for setting/operation of the plant
10. Exact date of the commissioning of the plant at increased capacity shall be informed to the Board 30 days in advance so as to make necessary inspection of the plant and the pollution control measures provided by the industry.

Please note that this is only consent for establishment for expansion of production of Rectified Spirit from 60 KLD to 120 KLD.

The applicant shall have a valid Consent for Operation for operating the plant at increased production by making application for consent along with prescribed consent fee. The application for consent has to be made 45 days in advance before taking up actual production in the increased capacity.

The receipt of this letter may please be acknowledged.

FOR AND ON BEHALF OF  
KARNATAKA STATE POLLUTION CONTROL BOARD  
BANGALORE - 560 001

  
MEMBER SECRETARY.



# MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986 and Accredited by NABL (Cert. No. T7207)

(Certified by ISO 14001-2015, OHSAS18001-2007, ISO 9001-2015)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1<sup>st</sup> & 2<sup>nd</sup> Floor)

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

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

MSVAL/A/F/14/03

## ANALYSIS REPORT OF WATER QUALITY

Test Report No:: TC720719000021979F

Issue Date: 23.12.2019

1. Name of the Project : **M/s. Shree Renuka Sugars Limited.,  
Unit-I, RS No : 367/1, Munoli Village,  
Tq : Soundatti, Dist: Belagavi - 591117**
2. Sample Type : Treated water (ETP)
3. Sample Collected By : Customer
4. Particulars of Sample Collected : -
5. Sample description/condition : Good/Satisfactory
6. Date of sample Receipt : 18.12.2019
7. Analysis Starting date : 19.12.2019
8. Analysis Completion Date : 23.12.2019
9. Sample Tested as Received

## RESULTS

S.NO	PARAMETERS	PROTOCOL	UNIT	RESULT	TOLERANCE LIMITS AS PER KSPCB CONSENT
1	Color	IS : 3025(part-4) : 1983 (RA 2017)	Hazen	Colorless	-
2	Odour	IS : 3025(part-5) : 1983 (RA 2017)	-	Odourless	-
3	pH @ 25 <sup>0</sup> C	APHA 23 <sup>rd</sup> Edition-2017, 4500 H <sup>+</sup> , B	-	7.06	5.5-8.5
4	Oil & Grease, Max	APHA 23 <sup>rd</sup> Edition-2017, 5520 D	mg/L	BDL	10
5	Bio-chemical Oxygen Demand (3 days at 27 <sup>0</sup> C), Max	IS-3025:1993(part 44) (RA 2009)	mg/L	68.0	100
6	Total Dissolved solids, Max	APHA 23 <sup>rd</sup> Edition-2017, 2540 C	mg/L	1056.0	2100
7	Total Suspended solids, Max	APHA 23 <sup>rd</sup> Edition-2017, 2540 F	mg/L	38.0	100

### INFERENCE

As per KSPCB Consent Standards,

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

Verified by

*Pb*

Authorized Signature

*King-a-rol-n*



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

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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

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

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





# MSV Analytical Laboratories

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(Certified by ISO 14001-2015, OHSAS18001-2007, ISO 9001-2015)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1<sup>st</sup> & 2<sup>nd</sup> Floor)

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

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

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720719000020551F

Issued Date: 04.12.2019

1. Name of the Project : M/s. Shree Renuka Sugars Limited.,  
Unit-I, RS No : 367/1, Munoli Village,  
Tq : Soundatti, Dist: Belagavi - 591117
2. Name of the location : 26+44 TPH Boiler
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sample collected : Stack Sampler
5. Date of Sample Receipt : 30.11.2019
6. Analysis Starting Date : 01.12.2019
7. Analysis Completion Date : 04.12.2019
8. Sample Tested as Received

### GENERAL DETAILS

Date of Monitoring	30.11.2019
Fuel Used	Bagasse
Stack Temperature (°C)	134
Velocity (m/s)	8.05
Height (m)	58.5
Diameter (m)	3

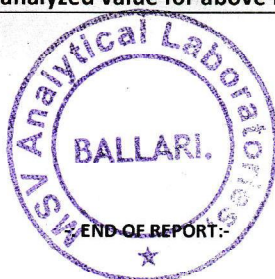
### RESULTS

PARAMETERS	PROTOCOL	UNIT	RESULT	KSPCB STANDARDS
Particulate Matter	IS-11255(Part 1) - 1985	mg/Nm <sup>3</sup>	146.72	150
Sulphur dioxide	IS-11255(Part 2) - 1985	mg/Nm <sup>3</sup>	12.4	-
Nitrogen dioxide	IS-11255(Part 7) - 2005	mg/Nm <sup>3</sup>	26.9	-

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

Verified by

Authorized Signature



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

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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

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





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(Certified by ISO 14001-2015, OHSAS18001-2007, ISO 9001-2015)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1<sup>st</sup> & 2<sup>nd</sup> Floor)

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

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

MSVAL/A/F/17/04

## NOISE LEVEL MONITORING REPORT

Test Report No: TC720719000020552F

Issued Date: 04.12.2019

1. Name of the Project : M/s. Shree Renuka Sugars Limited.,  
Unit-I, RS No : 367/1, Munoli Village,  
Tq : Soundatti, Dist: Belagavi - 591117
2. Sample Collected By : MSV Analytical Laboratories
3. Particulars of the sample collected : Noise meter
4. Date of Monitoring : 30.11.2019
5. Report Date : 04.12.2019
6. Method Adopted : Instrument Manual Method

S.No	Sample Location	Time Frequency	RESULTS			KSPCB limits in dB(A) Leq
			Min in dB(A) Leq	Max in dB(A) Leq	Avg. in dB(A) Leq	
Day Time						
1	Near ETP Plant	12.05pm to 12.20pm	72.1	73.9	73.0	75 (6.00am to 10.00pm)
2	Near Sales Office	11.10am to 11.25am	64.9	68.3	66.6	
3	Milling House	11.40am to 11.55am	71.8	73.4	72.6	
4	Near Main Gate	10.05am to 10.20am	69.8	72.0	70.9	
5	Near Weigh Bridge	10.35am to 10.50am	71.0	73.1	72.0	

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

Verified by

Authorized Signature



Note: 1. The results listed only to the tested samples & applicable parameters,  
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(Certified by ISO 14001-2015, OHSAS18001-2007, ISO 9001-2015)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1<sup>st</sup> & 2<sup>nd</sup> Floor)

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

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

MSVAL/A/F/14/03

## ANALYSIS REPORT OF SOIL

Test Report No: TC720719000020536F

Issue Date: 04.12.2019

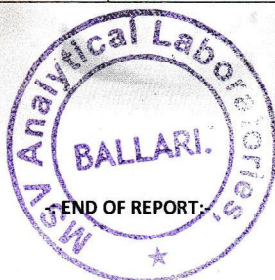
1. Name of the Project : M/s. Shree Renuka Sugars Limited.,  
Unit-I, RS No : 367/1, Munoli Village,  
Tq : Soundatti, Dist: Belagavi - 591117
2. Sample Type : Soil Sample-Suresh Behare
3. Sample Collected By : Customer
4. Particulars of Sample Collected : -
5. Sample description/condition : Good/Satisfactory
6. Date of sample Receipt : 30.11.2019
7. Analysis Starting date : 30.11.2019
8. Analysis Completion Date : 04.12.2019
9. Sample Tested as Received

## RESULTS

SL.NO.	PARAMETERS	UNIT	PROTOCOL	RESULT
1	pH	-	IS 2720(Part 26) : 1987	7.92
2	Electrical Conductivity	ms/m	IS 14767 : 2000	0.339
3	Total Organic Carbon	%	IS 2720(Part 23) : 1972 (RA 2010)	0.42
4	Available Nitrogen	mg/kg	Lab SOP: MSV/SOP/S-03, Dt:5.1.2018	63.7
5	Available Phosphorous	mg/kg	Lab SOP: MSV/SOP/S-06, Dt:5.1.2018	32.8
6	Potassium as K <sub>2</sub> O	mg/kg	Lab SOP: MSV/SOP/S-11, Dt:5.1.2018	87.6

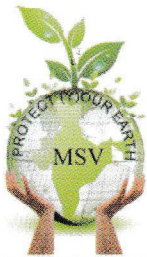
Verified by

Authorized Signature



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

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

MSVAL/A/F/18/03

## ANALYSIS REPORT OF WATER QUALITY

Test Report No : TC720719000021982F

Issued Date: 23.12.2019

1. Name of the Project : M/s. Shree Renuka Sugars Limited.,  
Unit-I, RS No : 367/1, Munoli Village,  
Tq : Soundatti, Dist: Belagavi - 591117
2. Sample Type : Borewell Water -Nadaf
3. Sample Collected By : Customer
4. Particulars of Sample : -
5. Sample description/condition : Good/Satisfactory
6. Date of sample Receipt : 18.12.2019
7. Analysis Starting date : 19.12.2019
8. Analysis Completion Date : 23.12.2019
9. Sample Tested as Received

## RESULTS

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable Limit	Permissible limit
1	Colour, Max	IS: 3025 (Part 4) – 1983 (RA:2017)	Hazen Units	BDL	5	15
2	Total dissolved solids, Max	APHA 23 <sup>rd</sup> Edition-2017,2540 C	mg/L	158.0	500	2000
3	pH @ 25 <sup>o</sup> C	APHA 23 <sup>rd</sup> Edition-2017,4500 H+	-	7.70	6.5 – 8.5	6.5 – 8.5
4	Total Alkalinity as CaCO <sub>3</sub> , Max	APHA 23 <sup>rd</sup> EDITION-2017, 2320 B	mg/L	66.0	200	600
5	Total Hardness as CaCO <sub>3</sub> , Max	APHA 23 <sup>rd</sup> EDITION-2017, 2340 C	mg/L	80.5	200	600
6	Nitrate Nitrogen (as NO <sub>3</sub> N), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500 NO <sub>3</sub>	mg/L	1.32	45	No relaxation
7	Chloride (as Cl), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500-Cl <sup>-</sup> ,B	mg/L	17.9	250	1000
8	Sulphate (as SO <sub>4</sub> ), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500 So <sub>4</sub>	mg/L	6.38	200	400
9	Calcium (as Ca), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500 Ca <sup>++</sup> ,B	mg/L	22.0	75	200
10	Magnesium (as Mg), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500-Mg, B	mg/L	18.3	30	100
11	Fluoride (as F), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500-F,D	mg/L	0.4	1.0	1.5
12	Iron (as Fe), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500-Fe <sup>++</sup> ,B	mg/L	BDL	1.0	No relaxation
13	Turbidity, Max	APHA 23 <sup>rd</sup> EDITION-2017, 2530 B	NTU	0.32	1	5

BDL – Below Detectable Limit, (Colour- <1 Hazen Units, Iron-0.05mg/L),

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

Verified by

Authorized Signature



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

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

MSVAL/A/F/18/03

## ANALYSIS REPORT OF WATER QUALITY

Test Report No: : TC720719000021984F

Issued Date: 23.12.2019

1. Name of the Project : M/s. Shree Renuka Sugars Limited.,  
Unit-I, RS No : 367/1, Munoli Village,  
Tq : Soundatti, Dist: Belagavi - 591117
2. Sample Type : Borewell Water –Kariyamma Temple
3. Sample Collected By : Customer
4. Particulars of Sample : -
5. Sample description/condition : Good/Satisfactory
6. Date of sample Receipt : 18.12.2019
7. Analysis Starting date : 19.12.2019
8. Analysis Completion Date : 23.12.2019
9. Sample Tested as Received

## RESULTS

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable Limit	Permissible limit
1	Colour, Max	IS: 3025 (Part 4) – 1983 (RA:2017)	Hazen Units	BDL	5	15
2	Total dissolved solids, Max	APHA 23 <sup>rd</sup> Edition-2017,2540 C	mg/L	174.0	500	2000
3	pH @ 25° C	APHA 23 <sup>rd</sup> Edition-2017,4500 H+	-	7.48	6.5 – 8.5	6.5 – 8.5
4	Total Alkalinity as CaCO <sub>3</sub> , Max	APHA 23 <sup>rd</sup> EDITION-2017, 2320 B	mg/L	66.0	200	600
5	Total Hardness as CaCO <sub>3</sub> , Max	APHA 23 <sup>rd</sup> EDITION-2017, 2340 C	mg/L	102.0	200	600
6	Nitrate Nitrogen (as NO <sub>3</sub> N), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500 NO <sub>3</sub>	mg/L	1.08	45	No relaxation
7	Chloride (as Cl), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500-Cl <sup>-</sup> , B	mg/L	24.99	250	1000
8	Sulphate (as SO <sub>4</sub> ), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500 So <sub>4</sub>	mg/L	6.23	200	400
9	Calcium (as Ca), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500 Ca <sup>+</sup> , B	mg/L	21.21	75	200
10	Magnesium (as Mg), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500-Mg, B	mg/L	11.90	30	100
11	Fluoride (as F), Max	APHA 23 <sup>rd</sup> EDITION 2017, 4500 F <sup>-</sup> , D	mg/L	0.40	1.0	1.5
12	Iron (as Fe), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500-Fe <sup>+</sup> , B	mg/L	BDL	1.0	No relaxation
13	Turbidity, Max	APHA 23 <sup>rd</sup> EDITION-2017, 2530 B	NTU	0.86	1	5

BDL – Below Detectable Limit, (Colour- <1 Hazen Units, Iron-0.05mg/L),

### INFERENCE

As per IS 10500:2012 Standards,

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

Verified by

Authorized Signature



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

MSVAL/A/F/18/03

## ANALYSIS REPORT OF WATER QUALITY

Test Report No: TC720719000021983F

Issued Date: 23.12.2019

1. Name of the Project : M/s. Shree Renuka Sugars Limited.,  
Unit-I, RS No : 367/1, Munoli Village,  
Tq : Soundatti, Dist: Belagavi - 591117
2. Sample Type : Borewell Water -Dyamangoudar
3. Sample Collected By : Customer
4. Particulars of Sample : -
5. Sample description/condition : Good/Satisfactory
6. Date of sample Receipt : 18.12.2019
7. Analysis Starting date : 19.12.2019
8. Analysis Completion Date : 23.12.2019
9. Sample Tested as Received

## RESULTS

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable Limit	Permissible limit
1	Colour, Max	IS: 3025 (Part 4) – 1983 (RA:2017)	Hazen Units	BDL	5	15
2	Total dissolved solids, Max	APHA 23 <sup>rd</sup> Edition-2017,2540 C	mg/L	224.0	500	2000
3	pH @ 25 <sup>o</sup> C	APHA 23 <sup>rd</sup> Edition-2017,4500 H+	-	7.44	6.5 – 8.5	6.5 – 8.5
4	Total Alkalinity as CaCO <sub>3</sub> , Max	APHA 23 <sup>rd</sup> EDITION-2017, 2320 B	mg/L	70.0	200	600
5	Total Hardness as CaCO <sub>3</sub> , Max	APHA 23 <sup>rd</sup> EDITION-2017, 2340 C	mg/L	123.4	200	600
6	Nitrate Nitrogen (as NO <sub>3</sub> N), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500 NO <sub>3</sub>	mg/L	1.48	45	No relaxation
7	Chloride (as Cl), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500-Cl ,B	mg/L	23.99	250	1000
8	Sulphate (as SO <sub>4</sub> ), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500 So <sub>4</sub>	mg/L	7.38	200	400
9	Calcium (as Ca), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500 Ca ,B	mg/L	23.66	75	200
10	Magnesium (as Mg), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500-Mg, B	mg/L	27.76	30	100
11	Fluoride (as F), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500-F,D	mg/L	0.059	1.0	1.5
12	Iron (as Fe), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500-Fe ,B	mg/L	BDL	1.0	No relaxation
13	Turbidity, Max	APHA 23 <sup>rd</sup> EDITION-2017, 2530 B	NTU	0.38	1	5

BDL – Below Detectable Limit, (Colour- <1 Hazen Units, Iron-0.05mg/L),

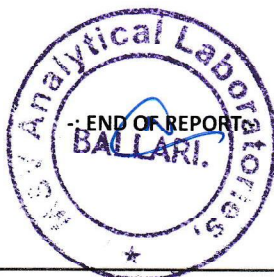
### INFERENCE

As per IS 10500:2012 Standards,

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

Verified by

Authorized Signature



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MSVAL/A/F/18/03

## ANALYSIS REPORT OF WATER QUALITY

Test Report No: : TC720719000021981F

Issued Date: 23.12.2019

1. Name of the Project : M/s. Shree Renuka Sugars Limited.,  
Unit-I, RS No : 367/1, Munoli Village,  
Tq : Soundatti, Dist: Belagavi - 591117
2. Sample Type : Borewell Water -Hansi
3. Sample Collected By : Customer
4. Particulars of Sample : -
5. Sample description/condition : Good/Satisfactory
6. Date of sample Receipt : 18.12.2019
7. Analysis Starting date : 19.12.2019
8. Analysis Completion Date : 23.12.2019
9. Sample Tested as Received

## RESULTS

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable Limit	Permissible limit
1	Colour, Max	IS: 3025 (Part 4) – 1983 (RA:2017)	Hazen Units	BDL	5	15
2	Total dissolved solids, Max	APHA 23 <sup>rd</sup> Edition-2017,2540 C	mg/L	214.0	500	2000
3	pH @ 25 <sup>o</sup> C	APHA 23 <sup>rd</sup> Edition-2017,4500 H+	-	7.50	6.5 – 8.5	6.5 – 8.5
4	Total Alkalinity as CaCO <sub>3</sub> , Max	APHA 23 <sup>rd</sup> EDITION-2017, 2320 B	mg/L	66.0	200	600
5	Total Hardness as CaCO <sub>3</sub> , Max	APHA 23 <sup>rd</sup> EDITION-2017, 2340 C	mg/L	148.9	200	600
6	Nitrate Nitrogen (as NO <sub>3</sub> N), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500 NO <sub>3</sub>	mg/L	1.10	45	No relaxation
7	Chloride (as Cl), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500-Cl ,B	mg/L	28.9	250	1000
8	Sulphate (as SO <sub>4</sub> ), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500 SO <sub>4</sub>	mg/L	7.96	200	400
9	Calcium (as Ca), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500 Ca ,B	mg/L	25.29	75	200
10	Magnesium (as Mg), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500-Mg, B	mg/L	20.82	30	100
11	Fluoride (as F), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500-F,D	mg/L	0.237	1.0	1.5
12	Iron (as Fe), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500-Fe ,B	mg/L	BDL	1.0	No relaxation
13	Turbidity, Max	APHA 23 <sup>rd</sup> EDITION 2017, 2530 B	NTU	0.40	1	5

BDL – Below Detectable Limit, (Colour- <1 Hazen Units, Iron-0.05mg/L),

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

Authorized Signature



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

MSVAL/A/F/18/03

## ANALYSIS REPORT OF WATER QUALITY

Test Report No: : TC720719000021985F

Issued Date: 23.12.2019

1. Name of the Project : M/s. Shree Renuka Sugars Limited.,  
Unit-I, RS No : 367/1, Munoli Village,  
Tq : Soundatti, Dist: Belagavi - 591117
2. Sample Type : Borewell Water -Talwar
3. Sample Collected By : Customer
4. Particulars of Sample : -
5. Sample description/condition : Good/Satisfactory
6. Date of sample Receipt : 18.12.2019
7. Analysis Starting date : 19.12.2019
8. Analysis Completion Date : 23.12.2019
9. Sample Tested as Received

## RESULTS

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable Limit	Permissible limit
1	Colour, Max	IS: 3025 (Part 4) – 1983 (RA:2017)	Hazen Units	BDL	5	15
2	Total dissolved solids, Max	APHA 23 <sup>rd</sup> Edition-2017,2540 C	mg/L	340.0	500	2000
3	pH @ 25 <sup>o</sup> C	APHA 23 <sup>rd</sup> Edition-2017,4500 H+	-	7.52	6.5 – 8.5	6.5 – 8.5
4	Total Alkalinity as CaCO <sub>3</sub> , Max	APHA 23 <sup>rd</sup> EDITION-2017, 2320 B	mg/L	60.0	200	600
5	Total Hardness as CaCO <sub>3</sub> , Max	APHA 23 <sup>rd</sup> EDITION-2017, 2340 C	mg/L	226.4	200	600
6	Nitrate Nitrogen (as NO <sub>3</sub> N), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500 NO <sub>3</sub>	mg/L	1.2	45	No relaxation
7	Chloride (as Cl), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500-Cl <sup>-</sup> , B	mg/L	18.99	250	1000
8	Sulphate (as SO <sub>4</sub> ), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500 So <sub>4</sub>	mg/L	5.77	200	400
9	Calcium (as Ca), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500 Ca ,B	mg/L	28.56	75	200
10	Magnesium (as Mg), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500-Mg, B	mg/L	37.67	30	100
11	Fluoride (as F), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500-F;D	mg/L	0.067	1.0	1.5
12	Iron (as Fe), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500-Fe ,B	mg/L	BDL	1.0	No relaxation
13	Turbidity, Max	APHA 23 <sup>rd</sup> EDITION-2017, 2530 B	NTU	0.29	1	5

BDL – Below Detectable Limit, (Colour- <1 Hazen Units, Iron-0.05mg/L),

### INFERENCE

As per IS 10500:2012 Standards,

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

Verified by

*[Signature]*

Authorized Signature

*[Signature]*

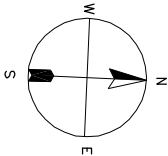


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GREEN BELT DETAILS			
SR. NO	PARTICULARS	AREA IN ACRE	AREA IN %
1	TOTAL PLANT AREA	104.18	100 %
2	EXISTING GREEN BELT AREA	35.44	34.00 %

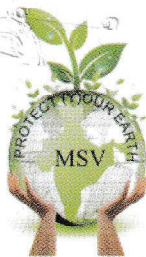


INDEX	
CODE NO	DESCRIPTION
1	Main Gate
2	Weigh Bridge 10T
3	Weigh Bridge 20T
4	Weigh Bridge 40T
5	Cane Unloader & Cane Carrier - 1
6	Cane Unloader & Cane Carrier - 2
7	Mill House - 1
8	Mill House - 2
9	Boiler House
10	Bagasse Yard
11	REC Driveway
12	Mechanical Work Shop
13	Electrical Work Shop
14	Power House
15	Boiling House
16	Evaporator section
17	Clarification House
18	General Store
19	ETP Office
20	General Storage Reservoir
21	Cooling tower
22	Sugar House
23	HACCP House
24	Sugar Godown
25	Cane Yard



DRAWN	PRAVOD	SCALE	REF DRG. NO.
CHECKED	BASAVARU K	DATE: 1:1	TITLE:
APPROVED	A.S.KHOT	19-06-2017	EXISTING LAYOUT FOR GREEN BELT
SHREE RENUKA SUGARS LTD MUNDOLI			DWG. NO. REV





# MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986 and Accredited by NABL (Cert. No. T7207)

(Certified by ISO 14001-2015, OHSAS18001-2007, ISO 9001-2015)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1<sup>st</sup> & 2<sup>nd</sup> Floor)

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

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

MSVAL/A/F/16/03

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720719000020525F

Issued Date: 04.12.2019

- M/s. Shree Renuka Sugars Limited.,**  
**Unit-I, RS No : 367/1, Munoli Village,**  
**Tq : Soundatti, Dist: Belagavi - 591117**
1. Name of the Project : Unit-I, RS No : 367/1, Munoli Village, Tq : Soundatti, Dist: Belagavi - 591117
  2. Name of the location : Near Main Gate
  3. Sample Collected By : MSV Analytical Laboratories
  4. Particulars of the sample collected : Sample collected with RDS 460BL/Fine Particulate Sampler
  5. Date of Sample Receipt : 30.11.2019
  6. Analysis Starting Date : 01.12.2019
  7. Analysis Completion Date : 04.12.2019
  8. Sample Tested as Received

## RESULTS

S.NO	PARAMETERS	PROTOCOLS	UNITS	DURATION OF MONITORING	RESULTS	NAAQ STANDARDS
1	Particulate Matter PM <sub>10</sub>	IS-5182(Part-23) – 2006	µg/m <sup>3</sup>	8 hrs	84.4	100
2	Particulate Matter PM <sub>2.5</sub>	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	µg/m <sup>3</sup>	8 hrs	36.8	60
3	Sulphur Dioxide as SO <sub>x</sub>	IS-5182(Part-2) – 2001	µg/m <sup>3</sup>	8 hrs	4.9	80
4	Oxides of Nitrogen as NO <sub>x</sub>	IS-5182(Part-6) - 2006	µg/m <sup>3</sup>	8 hrs	10.2	80

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

Verified by

Authorized Signature



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

MSVAL/A/F/16/03

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720719000020526F

Issued Date: 04.12.2019

- M/s. Shree Renuka Sugars Limited.,**  
**Unit-I, RS No : 367/1, Munoli Village,**  
**Tq : Soundatti, Dist: Belagavi - 591117**
1. Name of the Project : Unit-I, RS No : 367/1, Munoli Village, Tq : Soundatti, Dist: Belagavi - 591117
  2. Name of the location : Near Weigh Bridge
  3. Sample Collected By : MSV Analytical Laboratories
  4. Particulars of the sample collected : Sample collected with RDS 460BL/Fine Particulate Sampler
  5. Date of Sample Receipt : 30.11.2019
  6. Analysis Starting Date : 01.12.2019
  7. Analysis Completion Date : 04.12.2019
  8. Sample Tested as Received

## RESULTS

S.NO	PARAMETERS	PROTOCOLS	UNITS	DURATION OF MONITORING	RESULTS	NAAQ STANDARDS
1	Particulate Matter PM <sub>10</sub>	IS-5182(Part-23) – 2006	µg/m <sup>3</sup>	8 hrs	94.8	100
2	Particulate Matter PM <sub>2.5</sub>	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	µg/m <sup>3</sup>	8 hrs	42.7	60
3	Sulphur Dioxide as SO <sub>x</sub>	IS-5182(Part-2) – 2001	µg/m <sup>3</sup>	8 hrs	5.1	80
4	Oxides of Nitrogen as NO <sub>x</sub>	IS-5182(Part-6) - 2006	µg/m <sup>3</sup>	8 hrs	10.4	80

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

Verified by

Authorized Signature



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

MSVAL/A/F/17/04

## NOISE LEVEL MONITORING REPORT

Test Report No : TC720719000021996F

Issued Date: 23.12.2019

1. Name of the Project : M/s. Shree Renuka Sugars Limited.,  
Unit-I, RS No : 367/1, Munoli Village,  
Tq : Soundatti, Dist: Belagavi - 591117
2. Sample Collected By : MSV Analytical Laboratories
3. Particulars of the sample collected : Noise meter
4. Date of Monitoring : 18.12.2019
5. Report Date : 23.12.2019
6. Method Adopted : Instrument Manual Method

S.No	Sample Location	Time Frequency	RESULTS			KSPCB limits in dB(A) Leq
			Min in dB(A) Leq	Max in dB(A) Leq	Avg. in dB(A) Leq	
Day Time						
1	Near ETP Plant	11.50am to 12.05pm	72.1	73.2	72.6	75 (6.00am to 10.00pm)
2	Near Sales Office	11.10am to 11.25am	71.1	73.7	72.4	
3	Milling House	11.30am to 11.45am	70.4	73.4	71.9	
4	Near Main Gate	10.40am to 10.55am	65.9	67.3	66.6	
5	Near Weigh Bridge	10.20am to 10.35am	68.4	70.3	69.3	

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

Verified by

Authorized Signature



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

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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**Shree Renuka Sugar Ltd ,Unit-I Munoli**

**ENVIRONMENT AND SAFETY MANAGEMENT CELL**

<b>Sr.No.</b>	<b>Name</b>	<b>Designation</b>
1	Mr.Venktesh Adwaryu	General Manager EHS
2	Mr.Abhaykumar Khot.	General Manager(Works)
3	Mr.Govind Misale	General Manager Ethanol & Environment.
4	Mr.A.V.Turambekar	GM Organic fertilizer
5	Mr.Sachin Pratap	Sr.Manager Process.
6	Mr.Rajagopal Patil	AGM Distillery
7	Mr.Yalagouda Gurusiddanavar	AGM Environment
8	Veerayya Virakmath	Sr , Manager HR & Admin
9	Mr.Basawaraj Pujar	Manager Admin & HR
10	Mr.Basawaraj Kabbur	Officer Environment
11	Mr.Lohit gouda Patil	Sr. Officer Safety
12	Mr . Patreppa Ainapur	ETP Chemist
13	Mr.Shivukumar Hiremath	CPU Chemist