



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: SRSI Unit I/MOEF &CC/Dist-500/2019-20/

Dated: 24.08.2020

To,
The Member Secretary,
Environmental Appraisal Committee,
Ministry of Environment, Forest and Climate Change
(IA Division- Industry- 2 Sector)
Indira Paryavaran Bhawan, JorBagh Road, New
Delhi-110003.



Respected Sir,

Sub: Expansion of distillery for manufacture of ethanol under EBP programme, expanding distillery capacity from 120 KLD to 500 KLD and addition of captive power plant of 18 MW at Munavalli, Belgaum district, (Karnataka) by M/s Shree Renuka Sugars Limited- Consideration of Environment Clearance.

Ref: 1. Proposal NoIA/KA/IND2/134412/2018, J-11011/08/2002-IAII (I)
2. 18th EAC meeting, Agenda no.18.1 dated 13.4.2020
3. Minutes of the 18th EAC (Industry-2) meeting held during April 13-15, 2020
Page 4 of 182

This has reference to the above subject and references; we would like to submit the point wise information sought during the above referred meeting for your kind considerations;

1. Proof to establish that existing unit is operating with proper prior permission and to confirm that unit is not violating the provision contained in EIA Notification, 1994 and 2006. In this regard, PP needs to submit all the old CTE/CTO to verify the violation, if any. Also submit justification for carried out expansion from 60 KLD to 120 KLD in 2006 without environmental clearance.

The copies of the CTE and CTOs issued by KSPCB as per list shown below are enclosed.

- **Consent to establishment(CTE):**
 - CTE for 60 KLPD - Misplaced, Will be submitted once it is retrieved.
 - CTE for 60 to 120 KLPD, dated 17th June 2006.
- **Consent to Operate (CTO):**
 - CTO issued on 07.01.2003 valid up to 30.06.2003.
 - CTO issued for the period 30.06.2003 to 30.06.2004 - Misplaced. Will be submitted once it is retrieved.
 - CTO issued for the period 30.06.2004 to 30.06.2005 - Misplaced. Will be submitted once it is retrieved.
 - CTO issued for the period 30.06.2005 to 30.06.2006 - Misplaced. Will be submitted once it is retrieved.

- CTO issued on 16.08.2006 valid upto 30.06.2007
- CTO - Review and alteration of consent condition vide number KSPCB/17-Cat/Renuka/2006-07 4338 dated 06.03.2007 consent valid up to 30.06.2007 to operate 60 KLPD plant is reviewed and Consent to operate at enhanced capacity at 60 to 120 KLD is issued.
- CTO issued on 19.03.2008 valid upto 30.06.2008
- CTO issued on 28.08.2008 valid upto 30.06.2009.
- CTO issued on 01.08.2009 valid upto 30.06.2010
- CTO issue on 19.08.2010 valid upto 30.06.2011
- CTO issued for the period 03.11.2011 to 30.06.2012
- CTO issued on 25.09.2012 valid up to 30.06.2013
- CTO issued on 19.07.2013 valid up to 30.06.2014
- CTO issued on 12.09.2014 valid up to 30.06.2015
- CTO issued on 17.07.2015 valid up to 30.06.2016
- CTO issued on 04.08.2016 valid up to 30.06.2021

CTE & CTO's issued by KSPCB to distillery unit is enclosed as Annexure - I.

Justification for increasing in capacity from 60 KLPD to 120 KLPD without EC

M/s. Shree Renuka Sugars Limited, Munoli was established 2003 with due CTE from KSPCB and Environmental Clearance for distillery of capacity 60 KLPD. The capacity was enhanced in the year 2006 with prior CTE from KSPCB considering that there is no increase in pollution load from 60 KLPD to 120 KLPD.

Technical advisory committee of the Karnataka State pollution Control Board examined the proposal of installation of Reverse Osmosis Plant to reduce the spent wash generation and to keep the pollution load in consistence with 60 KLPD capacity. The TAC of KSPCB, after detailed examination of the process opined that, 'the pollution control systems, existing and proposed and additional other controls, the claim of industry with regard to no increase in pollution can be affected'. Accordingly, the KSPCB has accorded CTE dated 17.06.2006. As there was a provision contained in the explanatory note to the EIA Notification 1994. After receipt of consent for establishment from KSPCB the same is conveyed to the Ministry of Environment Forest and Climate change vide letter dated 7th November 2006 is attached as Annexure - II.

Compliance: The Reverse Osmosis plant was installed for proposed Distillery expansion and is being operated continuously. We are achieving less than 360 KLD spent wash generation from 2006-2009. After that new technology multi effect evaporator is installed in place of Reverse Osmosis.



[Handwritten signature]

2. PP needs to submit the details of production since inception of the unit to verify violation, if any.
 - Year wise production detail is attached as an Annexure -III.
3. Commitment need to be submitted that produced ethanol will be sold under Ethanol Blending programme.
 - The produced ethanol from expanded capacity will be sold under Ethanol Blending programme, commitment is attached as Annexure- IV.
4. Committee observed that the water requirement has exponentially increased from 230-2963 m³/day. PP needs to rework on water requirement and resubmit the water balance accordingly.
 - In the existing system, there is no boiler and cooling tower attached to distillery, the required steam and cooling water is drawn from Sugar unit. In the proposed expansion there will be boilers of 65 TPH (2 Nos.) capacity and independent cooling tower. Therefore, when compared to exiting water use to that of expansion there is substantial increase in the water intake. The process water requirement is also reworked as suggested.
 - The revised water balance is attached as Annexure -V.
5. Details of Permission for water withdrawal of fresh water need to be submitted.
 - At present the permission accorded by water resource department of Govt. of Karnataka is 400 KLD. An application is submitted to State Department of Irrigation Karnataka State for fresh water withdrawal permission it is under process. The detail is attached as Annexure -VI.
6. Details of CO₂ emission control plan.
 - We will implement the CO₂ recovery plant by capturing, storage and bottling plant for fermentation process completely.
7. Commitment not to use composting and submit plan for incineration to achieve the ZLD.
 - Commitment to incinerate the concentrated spent wash generated from expansion is attached as Annexure- IV
8. Details of PESO approvals needs to be submitted.
 - The PESO license is obtained from Ministry of Commerce & Industry (Petroleum & Explosives Safety Organization). The PESO license copy is attached as Annexure -VII.
9. Compliance of Ministry's Notification dated 17.01.2019 w.r.t. MoPNG letter needs to be submitted.
 - We have applied to the Ministry of Petroleum and natural Gas for issuing a certificate stating that "the proposal for enhancement of product capacity of ethanol from 120 KLPD to 500 KLPD is for the purpose of blending bio-ethanol with petrol (vide letter dated 28.01.2020). The Company is following up with the ministry consistently for getting necessary certificate which will be obtained at the earliest. Meanwhile please



find attached herewith the commitment to produce the MoPNG certificate is in Annexure - IV.

10. Details of completed actions needs to be submitted as per commitments made in Public Hearing held in 2018.

- The time bond action plan for implementation of the commitments made during Public Hearing held on 16.11.2018 is attached as Annexure - VIII.

11. Details of completion work of non-compliances of earlier certified compliance report submitted by the RO, MoEF&CC.

- Scientist 'E' of MoEF & CC, Regional Office has visited the project site on 06.02.2019 and CCR is issued. The compliance is reported to be "satisfactory" with few observations, viz., to provide ESP to the 44 TPH boiler of sugar plant (Third Boiler) before October 2019, to arrest the leakage of bagasse in feeding system by June 2019 to reduce the height of stacking of bagasse and to improve RWH.

- We have submitted action taken report to MoEF Regional Officer -

- to install ESP to 44 TPH boiler - this boiler is attached to Sugar unit, ESP to this boiler will be taken up during expansion, quotations are finalized;
- leakage of bagasse pith and ash from conveyer- leakages are arrested during the previous sugar cane crushing season;
- RWH roof top rain water harvesting and collection system is provided.

The action taken report submitted to RO, MOEF&CC is attached as Annexure -IX.

In view of above compliance, we request you to consider for appraisal of the project for issue of Environmental Clearance for Distillery plant expansion from 120 KLPD to 500 KLPD capacity.

Thanking You

Yours faithfully,
For Shree Renuka Sugars Ltd Unit # I, Munoli,



Authorized Signatory



Encl: Annexure I to IX.

Annexure- I	CTE & CTO's issued by KSPCB to distillery unit
Annexure- II	Receipt of consent for establishment from KSPCB the same is conveyed to the Ministry of Environment Forest and Climate change
Annexure- III	Production since inception of the unit
Annexure- IV	<ul style="list-style-type: none">• Produced ethanol from expanded capacity will be sold under Ethanol Blending programme Commitment

	<ul style="list-style-type: none"> • Commitment to incinerate the concentrated spent wash generated from expansion and • Commitment to produce the MoPNG certificate
Annexure- V	Revised water balance
Annexure- VI	Application is submitted to State Department of Irrigation Karnataka State for fresh water withdrawal permission
Annexure-VII	No objection certificate from District Magistrate, Belagavi, Karnataka is obtained on dated 06.02.2020
Annexure-VIII	Time bond action plan for implementation of the commitments made during Public Hearing held on 16.11.2018
Annexure- IX	The action taken report submitted to RO, MOEF&CC in concern with Certified Compliance Report

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Annexure I to IX

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Annexure- I

CTE & CTO's issued by KSPCB to distillery unit

Government of India
Ministry of Environment & Forests

E mail: plahujaral@yahoo.com

Paryavaran Bhawan,
CGO Complex, Lodi Road,
New Delhi - 110 003

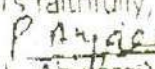
Tel No. 436 3973
September 24, 2002

CORRIGENDUM

Sub: Distillery unit (60KLD) by M/s Shree Renuka Sugars Ltd. at Mandi, Taluk Soundatti, District Belgaum in Karnataka - environmental clearance.

Sir,

This is in continuation of our earlier letter of even no dated September 19, 2002 on the above mentioned subject. **This is a new project.** The word expansion in the 4th line of para 1 and 2nd line of para 2 may be deleted.

Yours faithfully,

(Dr. P. L. Ahujaral)
Additional Director

✓ To
The Chair Person,
Shree Renuka Sugars Limited
Distillery Unit
367/1, Manoli
Td. Soundatti
District Belgaum.
Copy to:-

1. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBI-cum-Office Complex, East Arjun Nagar, Delhi-110032.
2. Chairman, Karnataka State Pollution Control Board, 6th, 8th & 9th Floor (Public Utility Building) Subhas Chandra Bose Building, M.G. Road, Bangalore-560001, Karnataka.
3. Chief Conservator of Forests (Central), Regional Office (S2), Kendriya Sadan, IVth Floor, E&F Wing, 17th Main Road, Koramangala, Bangalore-560034.
4. Secretary, State Department of Environment and Forests, Govt. of Karnataka, Bangalore.
5. Adviser (E.I. division), Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
7. Guard File.
8. Monitoring File.
9. Record File.

(Dr. P. L. Ahujaral)
Addl. Director

No. J-11011/8/2002 - IA II (I)
Government of India
Ministry of Environment & Forests

E mail: plahujaral@yahoo.com

Paryavaran Bhawan, CGO Complex,
Lodi Road, New Delhi - 110 003
Tel No. 436 3973
September 19, 2002

To

The Chairperson
M/s Shree Renuka Sugars Ltd.
BC 105, Havelock Road,
Camp Belgaum- 590001

Sub: Distillery unit (60KLD) by M/s Shree Renuka Sugars Ltd. at Manoli,
Talluk Saundatti, District Belgaum in Karnataka - environmental
clearance.

Sir,

This has reference to your communication No. nil dated April 4, 2002 along with EIA/EMP report, CD and subsequent clarifications furnished vide your letters dated 20th May, 2002 and 19th and 30th July, 2002 on the above mentioned project. Ministry of Environment and Forests has carefully examined the proposal. It is noted that proposal is for expansion of distillery unit from 60KLPD 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/d will be met from the Malaprabha river for which approval from State Irrigation Department has been obtained.

The unit will adopt continuous fermentation technology. Molasses requirement will be met from its sugar unit of 2500TCD. Solid waste will be generated in the form of ETP sludge (3960MTPM) which will be used for making compost. NOC from the KSPCB has been obtained on 08th February, 2002. Public hearing panel has considered the project in the meeting held on 11th December, 2001. Total cost of the project is Rs.13.00 crores.

2.0. The Ministry of Environment and Forests hereby accords environmental clearance to above expansion project under the provisions of EIA Notification dated 27th January, 1994 as amended subsequently subject to strict compliance of the following specific and general conditions:

A. SPECIFIC CONDITIONS:

- i. The industry should 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 equipments 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.

- ii. The company should adopt State-of-the-art continuous fermentation technology for the expansion and ensure that the spent wash generated will not exceed 8m³/kl of rectified spirit production.
- 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 for treatment of spent wash with pressmud should be as per the 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.
- iv. The spent wash should be stored in impervious lagoons. As per the recommendations of TAC of Karnataka SPCB, storage should not exceed 3 days capacity.
- v. The company must monitor the soil and ground water quality in the compost and project area on a regular basis and submit half- yearly reports to SPCB and the Ministry.
- vi. ✓ The company should undertake rainwater-harvesting measures as per action plan submitted to this Ministry.
- vii. The industry shall comply with all the recommendations made by the TAC of SPCB during their inspection of the unit on 18.01.2002 and in the meeting held on 2.2.2002
- viii. 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 any activity in a strip of 500-700m towards WS and SW portion towards the Malaprabha river. This area should be developed under green belt only.
- 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 each employee should be maintained separately.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Karnataka State Pollution Control Board and the State Government.
- ii. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.
- 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, SO₂, NO_x, are anticipated in consultation with the State Pollution Control Board.

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- 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.
- v. The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- vi. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report.
- 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 all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.
- 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/Central Pollution Control Board. A six monthly compliance status report along with the monitored data should be submitted to the monitoring agencies.
- 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 <http://envfor.nic.in>. This should be advertised within seven days from the date of issue of the clearance 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 the concerned authorities and the date of start of land development work.

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

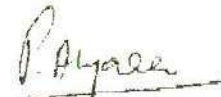
4.0. The Ministry reserves the right to stipulate additional conditions if found necessary. The company will implement these conditions in a time bound manner.

5.0. The above conditions will be enforced, Inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Liability Act, 1991 along with their amendments and rules.

(Dr. P. L. Ahujarai)
Additional Director

Copy to:-

1. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
2. Chairman, Karnataka State Pollution Control Board, 6,7,8&9th Floor, (Public Utility Building) Subhas Chandra Bose Building, M.G. Road, Bangalore-560001, Karnataka.
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(Dr. P. L. Ahujarai)
Addl. Director

Tel No. 436 3973
September 24, 2002

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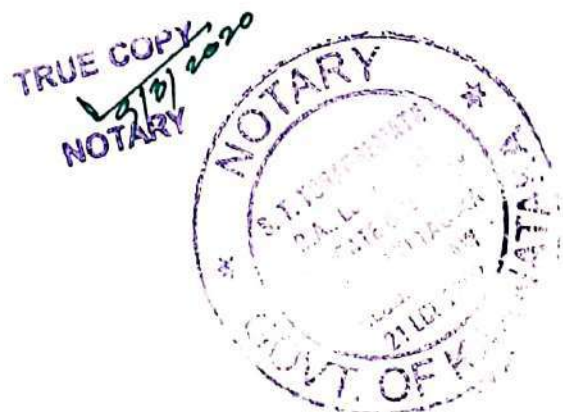
Yours Faithfully,

(Dr. P.L Ahujarai)
Additional Director

To

The Chair Person,
Shree Renuka Sugars Limited
Distillery Unit
367/1, Manoli, Tq. Soundatti,
District Belgaum,

Copy to:-



No. J-11011/8/2002-IA II(I)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan, CGO Complex,
Lodi Road, New Delhi - 110 003
Tel No. 436 3973
September 19, 2002

To

The Chairperson
M/s. Shree Renuka Sugars Ltd.,
BC 105, Havelock Road,
Camp Belgaum - 590001



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B. GENERAL CONDITIONS

- i. The project authorities must strictly adhere to the stipulations made by the Karnataka State Pollution Control Board and the State Government.
- ii. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.
- 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, SO₂, NO_x, are anticipated in consultation with the State Pollution Control Board.
- 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.



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(Dr. P.L. Ahujarai)
Additional Director

Copy to:-

1. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
2. Chairman, Karnataka State Pollution Control Board, 6,7,8 & 9th Floor, (Public Utility Building) Subhas Chandra Bose Building, M.G. Road, Bangalore- 560001, Karnataka.
3. Chief Conservator of Forests (Central), Regional Office (SZ), KendriyaSadan, IVth Floor, E&F Wing, 17th Main Road, Koramangala Bangalore - 560034.
4. Secretary, State Department of Environment and Forests, Govt. of Karnataka, Bangalore
5. Adviser (EI Division), Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
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TRUE COPY
19/12/2020
NOTARY



ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
Karnataka State Pollution Control Board

6, 7, 8 ಮತ್ತು 9ನೇ ಅಂತಸ್ತು (ಜನೋಪಯೋಗಿ ಕಟ್ಟಡ)
ನೆತಾಜಿ ಸುಭಾಷ್ ಚಂದ್ರ ಬೋಸ್ ಕಟ್ಟಡ
ಮಹಾತ್ಮಾ ಗಾಂಧಿ ರಸ್ತೆ, ಬೆಂಗಳೂರು-560 001
ಕರ್ನಾಟಕ, ಭಾರತ.

6, 7, 8 & 9th Floor, (Public Utility Building)
Netaji Subhas Chandra Bose Building
M.G. Road, Bangalore-560 001
Karnataka, INDIA.

// BY REGD. POST WITH ACK. DUE //

(THIS DOCUMENT CONTAINS 08 PAGES INCLUDING ANNEXURES)

FORM - XV

(Consent for discharge of Sewage and Trade effluents under section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974).

NO.KSPCB/17CAT/WPC/RENUKA-DIST/2002-03/ 1121

DATED: 07 JAN 2003

CONSENT is hereby granted under the provision of the Water (Prevention and Control of Pollution) Act, 1974 (Hereinafter referred to as "THE ACT") and the Rules and Orders made thereunder to M/s. Sri Renuka Sugars Ltd - Distillery Unit, Site No.367/1, Manoli Village, Soundatti Tq., Belgaum District (hereinafter referred to as "THE APPLICANT") authorizing it to continue to make discharge of Sewage effluents from the above premises into septic tank and soak pit, Spent Lees for on-land irrigation after due treatment in the Effluent treatment plant of Sugar Unit and Spent Wash to be completely converted into compost by bio-composting subject to the provisions of the Act and the Rules and Orders made there under and further subject to the Terms and Conditions incorporated in the Schedule Annexed hereto.

THIS CONSENT SHALL BE VALID FOR A PERIOD UPTO 30.06.2003

DATED THIS 7th DAY OF January 2003

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

Sd/-

DEPUTY ENVIRONMENTAL OFFICER

TO

The Chairperson
M/s. Sri Renuka Sugars Ltd - Distillery Unit,
Site No.367/1, Manoli Village,
Soundatti Tq., Belgaum District

Copy to:

1. Environmental Officer (Belgaum) for information. He is informed to inspect the industry and verify the compliance to the consent condition and report.
2. Master file.
3. Case file.

DEPUTY ENVIRONMENTAL OFFICER

SCHEDULE

[Consent under the Water (Prevention and Control of Pollution) Act, 1974]

(To Accompany consent No....)

dated

TERMS & CONDITIONS

1. TREATMENT AND DISPOSAL OF INDUSTRIAL EFFLUENT:

1. The discharge from the premises 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 thereunder.

2. The daily quantity of the Industrial Effluent shall not exceed Ref. Annexure - 5 litres/day. Maximum rate being not more than litres/hour.

3. The discharge of Industrial Effluent shall not contain constituents in excess of the tolerance limits laid down in Annexure. Ref. Annexure 5

4. The Applicant shall take immediate action to install or modify the treatment plant for treating the Industrial Effluents to the satisfaction of the Board within the following time limits:

a) Within so as to conform to tolerance limits laid down in Annexure if utilised entirely on land for irrigation. (Note : The extent and survey number of land utilised, the ownership of the land and the consent of the land owner should be furnished in this case).

b) Within so as to conform to tolerance limits laid down in Annexure

5. The Applicant shall certify that the trade effluent is utilised on land for irrigation entirely on land mentioned in the consent application and no effluent is bypassed or discharged into valley.

6. The Applicant shall certify that the trade effluent is connected to the public underground sewers and the connection is intact and it is not by-passed or discharged into valley.

7. The Applicant shall ensure that there is no discharge of industrial Effluents either within the factory premises or outside.

8. The Applicant shall take action to store the Molasses in steel tanks covered with proper roofings to protect the Molasses from the rain water.

9. The Applicant shall obtain permission from the Board to dispose off the spoiled Molasses and shall be disposed off in the manner as laid down by the Board.

II. TREATMENT AND DISPOSAL OF DOMESTIC EFFLUENTS :-

1. The discharge from the premises of the Applicant shall pass through terminal manhole/ manholes wherefrom the Board shall be free to collect samples at any time in accordance with the provisions of the Act or Rules made thereunder.
2. The daily quantity of the Domestic Effluent shall not exceed..... litres/day
Maximum rate being not more than.....litres/hour.
3. The Domestic sewage shall be treated in Septic Tank and Soak pit designed as per I.S. 2470 Part-I and Part-II and no overflow from Soak Pit is allowed.
4. The Applicant shall take immediate action to install or modify the treatment plant for treating the Domestic sewage from the factory and the Colony to the satisfaction of the Board within.....
.....after which the Domestic sewage discharged shall conform to the standards laid down in Annexure.....
5. The Applicant shall certify that, the Domestic sewage is treated by Septic Tank and disposed off in Soak pit and Septic tank and Soak pit are working satisfactorily and there is no overflow from the Soak pit.

III. GENERAL :-

1. The Applicant shall at his own cost get the Industrial Effluent and Domestic sewage samples collected from the manhole chambers specified in condition.....and analyse the same every month for the parameters indicated in condition No.....and shall submit in duplicate the report to the Member Secretary, Karnataka State Pollution Control Board, 8th Floor, Public Utility Building, Mahatma Gandhi Road, Bangalore-560 001, within one week of the collection of sample.
2. The Applicant shall take immediate action to install mechanical composite sampling equipment and continuous flow measuring/recording devices on the Effluent drains of Industrial as well as Domestic Effluent within three months from the date of this Consent order. These equipments shall be installed near the terminal manholes specified in the condition No.....The terminal manholes if not yet constructed shall be constructed within three months from the date of this Consent. A record of daily effluent discharge shall be maintained.
3. The Applicant shall not allow the discharge from other premises to mix with the discharge from his premises. Storm water shall not be allowed to mix with the Industrial and/or Domestic Effluent on the upstream of the terminal manholes where the flow measuring devices will be installed.
4. The Applicant shall submit flow sheet and particulars of proposed treatment and disposal system and a time schedule for completing the treatment plant for treating the Industrial Effluent as well as Domestic sewage from the factory and colony within the stipulated period and it should be forwarded to the Member Secretary so as to reach him within.....

5. The following information shall be forwarded to the Member Secretary regularly every month :-

- a) Progress on the work of treatment plant.
- b) Progress on the installation of mechanical composite sampling equipment and continuous flow recording/ measuring devices.
- c) Monthly extract of daily Effluent discharged-domestic as well as industrial.
- d) Analysis report of domestic as well as Industrial Effluents.
- e) The certificate to the effect that the ~~entire~~ effluent is utilised on land for irrigation ~~on land~~ mentioned in the Consent Application and it is not by-passed or discharged into the valley.
- f) The certificate to the effect that the trade effluent is connected to public sewers and the connection is intact and there is no leakage and/or bypass etc.
- g) The certificate to the effect that the Septic Tank and Soak Pit/ ~~Dispersion trenches~~ provided for treating domestic sewage are working satisfactorily and there is no overflow from the Soak pit/ ~~Dispersion trenches~~.

6. The Applicant shall either :

- a) not later than 30 days certify in writing to the Member Secretary that the Applicant has installed or provided an alternate electric power sources sufficient to operate all facilities utilised by the Applicant to maintain compliance with the terms and conditions of the consent.

OR

- b) not later than 30 days from the date of this Consent certify in writing to the Member Secretary that upon the reduction, loss or failure of one or more of the primary sources of electric power to any facilities utilised by the Applicant to maintain compliance with the Terms and Conditions of this Consent, the Applicant shall halt, reduce or otherwise control production and/or all discharges in order to maintain compliance with the Terms and Conditions of this Consent.

7. The Applicant shall display suitable caution boards at the places to be indicated by the Board or any other Officers of the Board for indicating that the water course into which the effluents are discharged is not fit for domestic usage/bathing/agriculture.

8. The Applicant shall promptly comply with all orders and instructions issued to him from time to time by the Board or any other Officers of the Board duly authorised in this behalf.

9. This Consent for discharging Sewages 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.

10. The Applicant shall forthwith keep the Board informed of any accident of unforeseen act or event of any poisonous, noxious or polluting matter is being discharged into stream or well, as a result of such discharge, water in such a well or stream is being polluted.

11. The Applicant shall display the Consent granted to him in a prominent place for perusal of the inspecting Officer of the Board.

12. The Applicant shall keep the Factory premises and the treatment plant site clean. The treatment plant site, Inspection chambers/sampling and flow measuring points, outlets should be made easily approachable.

13. The Applicant, his heirs, legal representatives or assigns shall have no claim whatsoever to the continuation or renewal of this Consent after the expiry of the period of Consent.

14. The Applicant shall not change or alter either the quality or the quantity or the rate of discharge or temperature or the route of discharge without the previous written permission of the Board.

15. The Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the Terms and Conditions of this Consent.

16. The Applicant shall make an Application for the Consent atleast 120 days before the date of expiry of this consent.

17. Necessary fees as prescribed as per Annexure *in the consent application* enclosed for obtaining Consent shall be paid for by the Applicant along with the Consent Application.

18. All vacant posts should be filled-up by Kannadigas only as per Dr. Sarojini Mahishi report.

19. The Applicant shall appoint a qualified environmental engineer/scientist for environment management in the factory and also establish an environmental cell.

20. The applicant shall establish a self monitoring system for monitoring the effluents by procuring necessary monitoring equipment & by establishing a laboratory.

21. The applicant shall submit the Environmental Statement for every financial year ending 31st March in Form V of Rule as per Rule 14 of Environment (Protection) Rule 1986.

22. The applicant shall apply for Authorisation under the Hazardous Waste (Management and Handling) Rules 1989.

23. The applicant shall furnish the details on solid waste in the proforma enclosed.

24. This consent is granted for the manufacture of *Refrigerant* of capacity *50 kg* *7 month*.

25. The applicant shall install meters for measuring and recording the consumption of water for various purposes as per Section(4) of Water (Prevention and Control of Pollution) Cess Act, 1977.

26. The applicant shall file Water Cess returns in form-I regularly within 5th of succeeding month in compliance with provisions of the Water (Prevention and Control of Pollution) Cess Act, 1977.

27. The applicant shall pay the cess amount within the specified time as indicated in the 'Assessment Order' issued under the provisions of the Water (Prevention and Control of Pollution) Cess Act, 1977.

NOTE:

W 1, 2, 4, 5, 6, 7 are not applicable

The Condition Numbers

1, 4, 5, 6, 7, 8, 9

Delamash
D. B. D. MEMBER SECRETARY
Karnataka State Pollution Control Board
Bangalore

ANNEXURE -I

1. (a) The quantity of the Spent Wash shall not exceed 330 KLD (at the rate of 5.5 KL of Spent wash per KL of alcohol).
(b) The quantity of Spent Lees Shall not exceed 210 KLD (at the rate of 3.5 KL per KL of alcohol) and this effluent shall be treated in the effluent treatment plant of sugar unit to the standards stipulated in Annexure-II before discharging on land for irrigatin.
2. This Consent is granted for the manufacture of Rectified Spirit of capacity 60 KLD.
3. The applicant shall ensure that the entire trade effluent (spent wash) is converted into compost by bio composting.
4. The applicant shall provide impervious garland canals on all the sides within 3 months from the date of issue of consent and shall report.
5. The applicant shall ensure that no trade effluent is by passed to land or stream so as to avoid surface or subsurface water pollution
6. The applicant shall avoid storing of effluents (spent wash) in unlined lagoons to avoid surface or sub surface water pollution
7. The applicant shall synchronize the generation of trade effluent (Spent Wash) and composting activity in such a way that composting is avoided during rainy season.
8. The applicant shall ensure that the composting activity is carried in a manner as not to cause surface or sub surface water pollution.
9. The Applicant shall make all provisions to store the spent wash in a closed hold up tank of capacity 03 days only.
10. The applicant shall dispose off the yeast sludge by proper collection, separation and drying so as not to cause Water/Air Pollution / Nuisance. Separate log book for the quality of yeast sludge disposed shall be maintained and the same shall be got verified by the Regional Officer during inspection.
11. The applicant shall provide test bore wells to check the ground water contamination within 3 months from the date of issue of consent and report.
12. The applicant shall make proper arrangement for collection of storm water.

13. The industry shall obtain permission for abstraction of Ground Water from the Central Ground Water Authority, GOI and shall submit a copy to the Board.

14. The applicant shall furnish the following information pertaining to composting within 15 days

- a. The rainy season in that area. The working schedule of distillery and composting facility (number of working days in a year) to ensure that composting is avoided during rainy season (The compost area is to be kept dry before starting of the rainy period)
- b. Effluent storage capacity (in days) before composting and the measures taken to ensure that the storage tank is impervious
- c. The quality of effluent before composting
- d. The ratio of pressmud to effluent used for composting. The quantity of pressmud used per acre per cycle (MT/acre/cycle)
- e. Area of land earmarked for composting. Specification of the floor of compost yard to ensure that it is impervious. Permeability coefficient of the soil in the area.
- f. Arrangement for collection of leachate and surface run off and pumping to holding lagoon(if any) and measures taken to ensure that it is impervious and the pipeline network provided for automatic spraying of effluent
- g. Number of days required to complete one cycle of composting and the maximum number of cycles per annum
- h. Area of land earmarked for storage of pressmud and the arrangement made for ensuring that the storage area is leak proof (by lining etc.) and also to protect from rains.
- i. Area of land earmarked for storage of finished products, the method of storage and the steps taken to protect from rain.
- j. The quantity and quality of compost. This information shall be furnished every month.
- k. Equipments and machinery used for composting and their numbers like Tractors, Homogenizing machine along with auto spraying system (for churning up to bottom), JCB or front end loader, sewing machine etc.
- l. Composting procedures followed

15. The applicant shall provide water meter for all the intake points for different areas as under Sec. (5) of Water Cess Act and file the Cess returns regularly.

16. The applicant shall dispose Hazardous wastes as stipulated in the Hazardous Waste (Management & Handling) Amended Rules, 2000.
17. The applicant shall file the Environmental statement every year ending with March.
18. One Environment Engineer/Scientist shall be got trained at EMPRI of Karnataka State Pollution Control Board.
19. The applicant shall establish Environment management system as per ISO 14001 and shall obtain ISO 14001 certification.
20. The applicant shall establish a self monitoring scheme.
21. The applicant shall appoint qualified environmental engineer/scientist for environmental management in the factory and proper operation and maintenance of pollution control system.
22. The applicant shall strictly adhere to all other conditions stipulated in the CFE issued by the Board and the clearance issued by MoEF, GOI at all times..


DEPUTY ENVIRONMENTAL OFFICER

ANNEXURE -I

1. (a) The quantity of the Spent Wash shall not exceed 330 KLD (at the rate of 5.5 KL of Spent wash per KL of alcohol).
(b) The quantity of Spent Lees Shall not exceed 210 KLD (at the rate of 3.5 KL per KL of alcohol) and this effluent shall be treated in the effluent treatment plant of sugar unit to the standards stipulated in Annexure-II before discharging on land for irrigatin.
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12. The applicant shall make proper arrangement for collection of storm water.



ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
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 314th Technical Advisory Committee meeting held on 22.11.2005.
 4. Proceedings of the 316th Technical Advisory Committee meeting held on 16.02.2006.
 5. Proceedings of the 317th Technical Advisory Committee meeting held on 22.03.2006.
 6. Proceedings of the 318th 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 314th TAC meeting held on 22.12.2005, 316th TAC meeting held on 16.2.2006 and in the 317th TAC meeting held on 22.3.2006 and 318th 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 M³ 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

To

The Secretary
Environmental Impact Assessment Division
C.G.O Complex,
Lodhi Road
New Delhi.

Respected Sir,


**Sub: - Expansion of Distillery Unit from 60KLP to 120 KLD without
Increasing the pollution Load.**

**Ref: - 1. CFE from KSPCB No.CFE-EIA/SRSL/EIA-414/2006-2007/86
2. MOEF Notification dated 27/01/1994 and explanatory note
There on.**

With reference to the above, we are submitting the CFE issued by Karnataka State Pollution Control Board, Bangalore for the expansion of our industry from 60 KLD to 120 KLD the spent wash is treated by RO and composting. As per the above notification the CFE issued by Karnataka State Pollution Control Board is forwarded for your Information.

Thanking you,

Yours faithfully,
For Shree Renuka Sugars Ltd,


(General Manager)

Encl: - As above



To Mr. Gaurind
F. Pawan/Delhi

Regd. Office : BC 105, Havelock Road, Cantonment, Belgaum - 590 001, India. Tel : +91-831-245 0000 (7 Lines) Fax : +91-831-245 0000

PHONE NO. : 51757116

L : D:H:C:C:L

NOV. 08 2006 12:00PM



ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
Karnataka State Pollution Control Board

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

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

Renuka APC 2007

//BY REGD. POST WITH ACK. DUE//

(THIS DOCUMENT CONTAINS 6 PAGES INCLUDING ANNEXURES)

CONSENT ORDER

(CONSENT FOR OPERATION OF THE PLANT UNDER SECTION 21 OF THE AIR (PREVENTION AND CONTROL OF POLLUTION) ACT, 1981).

NO. 17-CAT/APC/RENUKA/2006-07/ 10A

Dated: 16 AUG 2006

CONSENT is hereby granted under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981. (Hereinafter referred to as "THE ACT") and the rules and Orders made thereunder to **M/s. Sri Renuka Sugars Ltd., Site No.367/1, Manoli Village, Soundatti Tq., Belgaum Dist.** (Hereinafter referred to as "THE APPLICANT") authorizing it to operate their industrial plant at the above premises in the air pollution control areas as notified and to continue to make existing discharge of emissions from the following stacks/chimneys.

Chimney No.	Description of Chimney.
As in Annexure-I	

This is subject to the provisions of the Act and the Rules and Orders made thereunder and further subject to the Terms and conditions incorporated in the Schedule Annexed hereto.

**THIS CONSENT SHALL BE VALID FOR A PERIOD ENDING WITH
30TH DAY OF JUNE 2007.**

DATED THIS 16th DAY OF August 2006

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

Sd/-
ENVIRONMENTAL OFFICER

To,

The Director and Senior General Manager,
M/s. Sri Renuka Sugars Ltd.,
Site No.367/1, Manoli Village,
Soundatti Tq., Belgaum Dist.

Copy to:

1. Environmental Officer (Belgaum) for information. RO's directed to inspect the industry verify the compliance, performance of the APC equipments and collect sample as per the Air Act during this crushing season without fail.
2. Case file.
3. Master file.

Sd/-
ENVIRONMENTAL OFFICER

SCHEDULE

Consent under the Air (Prevention and Control of Pollution) Act, 1981

(To Accompany Consent NO.17CAT/APC/RENUKA/2006-07/

DATE:

TERMS & CONDITIONS

I. Product and Capacity

1. This consent is applicable for the following.
 - a. manufacture of Crystal White Sugar with Sugarcane Crushing of capacity **2500 TCD**
 - b. Co-generation of capacity **20.5 MW**.
 - c. Rectified Spirit of capacity 60 KLD.
 - d. Ethanol of capacity 50 KLD.
2. The applicant shall comply with all other conditions of the CFE issued by the KSPCB, conditions stipulated in the Environmental Clearance certificate issued by Ministry of Environment & Forests, Govt. of India, New Delhi and Dept. of Ecology & Environment, Government of Karnataka.

II. EMISSIONS

1. The discharge of emissions from the premises of the Applicant shall pass through the stacks/chimneys mentioned in **Annexure I** 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 thereunder. The stacks/chimneys heights shall be as per **Annexure-I**.
2. The hourly rate of emissions discharged and the tolerance limits of the constituents forming the emissions in each of the chimneys/stacks shall not exceed the limits laid down in **Annexure-I**.
3. The applicant shall operate the Air pollution control equipment as specified in the **Annexure I** 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.
4. The Applicant shall provide port holes for sampling the emissions and access platforms for carrying out stack sampling and provide electrical outlet points and other arrangements for all chimneys/stacks and other sources of emissions within 30 days from the date of receipt of this consent order so as to collect samples of emissions by the Board or the Applicant at anytime in accordance with the provisions of the Act and Rules made there in. The details of the location of sampling port holes, the platforms the electrical outlet point etc., are detailed in **Annexure-II** of this consent order.

III. Self Monitoring and Reporting

1. The applicant shall at his own cost get the samples of emissions collected and get them analyzed once in 15 days during the present crushing season to assess the performance of APC equipment for the parameters indicated in conditions No.II(2) from the sampling port holes provided as per condition No.II(4) and shall submit in duplicate, the analysis results to the Regional Office of Board.

The applicant shall submit time bound proposals within 30 days to upgrade the APC equipment to 44 TPH boiler by ESP to meet the norms specified under CREP norms before the start of 2007 Sugarcane crushing operation.

...2/-

2. The applicant shall carryout the ambient air quality monitoring and submit the report to the Regional Office of the Board. The AAQM stations shall be fixed in consultation with the Regional Office of the Board.
3. The applicant shall provide and maintain at his own cost a meteorological station to collect the data on wind velocity, directions, temperature, humidity, rainfall etc., and the daily reading shall be recorded and the extract be sent to the Board once in month.
4. The Applicant shall appoint a qualified environmental engineer/scientist for environment management in the factory and also establish an environmental cell.
5. The applicant shall establish a self monitoring system for monitoring the effluents by procuring necessary monitoring equipment & by establishing a laboratory.
6. Applicant shall establish, implement and maintain an Environmental Management System in conformity with ISO 14001:2004 standards.

IV. LIQUID WASTES

1. 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 Control 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.

V. SOLID WASTES

1. The solid waste collected in the Factory premises as sweepings wastage 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.
2. Other solid wastes handling and disposal shall be in accordance with the conditions laid down in the consent issued under the Water Act.

VI. Environmental Statement

1. The applicant shall submit the Environmental Statement every year for the period ending 31st March in Form V of Rule as per Rule 14 of Environment (Protection) Rule 1986 on or before 30th September failing which the industry is liable to pay an administrative charges of Rs.500/- (Rupees Five Hundred Only) for late submission.

VII. Hazardous Waste (Management and Handling) Rules 1989 as amended in 2003

1. The applicant shall comply with the Hazardous Waste (Management and Handling) Rules 1989 as amended in 2003.

VII. Noise Pollution Control

1. The applicant shall comply with the ambient noise standards as stipulated under the EP rule 1986.

VIII. GENERAL

1. 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.
2. The Applicant, his heirs, legal representatives or assigns shall have no claim whatsoever to the continuation or renewal of this consent after the expiry of the period of consent.
3. 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 surroundings.
4. The Applicant shall provide an alternate electric power supply sufficient to operate all facilities installed by the Applicant to maintain compliance with the Terms and Conditions of the consent.
5. The Applicant shall forthwith keep the Board informed of any accidental discharge of emissions into the atmosphere in excess of the standards laid down by the Board. The applicant shall also take corrective steps to mitigate the impact.
6. The air pollution control equipments, stack monitoring system, ambient air quality and meteorological monitoring station set-up by the Applicant and the Registers recording the monitoring results shall be open for inspection by the Board Officers at all time.
7. An inspection Book shall be opened and made available to the Board Officers during their visit to the factory.
8. The Applicant shall furnish to the visiting officer and/or the Board any information regarding the constructions, installation or operation of the air pollution control equipments system and such other particulars as may be pertinent in preventing and controlling pollution of Air.
9. The Applicant, his heirs, legal representatives or assigns shall have no claim whatsoever to the continuation or renewal of this consent after the expiry of the period of this consent.
10. The Board reserves the right to review, impose additional condition or conditions revoke change or alter the Terms and conditions of this consent.
11. The applicant shall display this consent granted to him in a prominent place for perusal of the inspecting officers of the Board.
12. The Applicant shall keep the factory premises and air pollution control equipments clean and make all hoods, pipes, valves, stack/chimneys leak-proof. The air pollution control equipment, locations, inspection chambers, sampling port holes shall be made easily accessible at all times.
13. The Applicant shall make an application for grant of fresh consent at-least 120 days before the date of expiry of this consent.
14. Industry shall comply with all the consent conditions and furnish report within 30 days to the Regional Office.


ENVIRONMENTAL OFFICER

ANNEXURE – II

LOCATION OF SAMPLING PORTHOLES, THE PLATFORMS, THE ELECTRICAL OUTLET.

1. Location of Portholes and approach Platform:

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

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

2. The diameter of the Sampling Port should not be less than 3". Arrangements should be made so that the porthole is closed firmly during the period when it is not used for sampling.
3. An easily accessible platform to accommodate 3 to 4 persons to conveniently monitor the stack emission from the portholes shall be provided. Arrangements for an Electric Outlet Point off 230 V 15 A with suitable switch control and 3 Pin Point shall be provided at the Porthole location.


ENVIRONMENTAL OFFICER

ANNEXURE - I

Chimney	Chimney Attached to	Minimum Chimney Height to be Provided Above ground level	Ratio to emission NM3/Hr.	Constituents to be controlled in the emission.	Tolerance limits Mg/NM3	Air Pollution Control equipment to be installed, in addition to Chimney height as per Col (3)	Date of which air pollution Control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.
1)	Boiler of 44 TPH	Common chimney	-	Particulate	150*	ESP	Before start of 2007 sugar cane crushing season
2)	Boiler 50 TPH (Bagasse and coal fired separately)	65 m AGL	-	Particulate	150*	ESP	- do -
3)	500 KVA D.G. Set.	7 m ARL	-	SO2	-	Silencer	- do -
4)	160 KVA D.G. Set.	5 m ARL	-	SO2	-	Silencer	- do -

* Note : See condition III(1)

ENVIRONMENTAL OFFICER



ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
Karnataka State Pollution Control Board

"ಪರಿಸರ ಭವನ"

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

"Parisara Bhavan"

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

Renuka WPC 2007

// BY REGD. POST WITH ACK. DUE//

(THIS DOCUMENT CONTAINS 6 PAGES INCLUDING ANNEXURES)

FORM - XV

(Consent for existing discharge of Sewage and Trade effluents under section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974).

NO.17CAT/WPC/RENUKA/2006-07/ 192

DATE: 16 AUG 2006

CONSENT is hereby granted under the provision of the Water (Prevention and Control of Pollution) Act, 1974 (Hereinafter referred to as "THE ACT") and the Rules and Orders made there under to **M/s. Sri Renuka Sugars Ltd., Site No.367/1, Manoli Village, Soundatti Tq., Belgaum Dist.** (Hereinafter referred to as "THE APPLICANT") authorizing it to continue to make discharge of effluents from the above premises.

- A) **Sugar plant, Co-generation plant and Sewage effluent** : treated effluent on land for irrigation on land owned by the industry
B) **Distillery plant** : Spent wash shall be 100% composted using press mud

subject to the provisions of the Act and the Rules and Orders made there under and further subject to the Terms and Conditions incorporated in the Schedule Annexed hereto.

**THIS CONSENT SHALL BE VALID FOR A PERIOD ENDING WITH
30TH DAY OF JUNE 2007**

DATED THIS 16th DAY OF August 2006

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

Sd/-
ENVIRONMENTAL OFFICER

To.

The Director and Senior General Manager,
M/s. Sri Renuka Sugars Ltd.,
Sy.No.367/1, Manoli,
Saundatti Tq., Belgaum Dist.

Copy to:

1. Environmental Officer (Belgaum) for information. He is directed to inspect the industry, verify compliance to the consent condition, collect sample as per the Act and report.
2. Master file.
3. Case file.

SCHEDULE

Consent under the Water (Prevention and Control of Pollution) Act, 1974

(To Accompany Consent NO.17CAT/WPC/RENUKA/2006-07/

DATE:

TERMS & CONDITIONS

I. Product and Capacity

1. This consent is applicable for the following.
 - a. Manufacture of Crystal White Sugar with Sugarcane Crushing of capacity **2500 TCD** and Raw sugar 36,000 T/M.
 - b. Co-generation of capacity **20.5 MW**.
 - c. Rectified Spirit of capacity 60 KLD or
 - d. Ethanol of capacity 50 KLD
2. The applicant shall comply with all other conditions of the CFE issued by the KSPCB, conditions stipulated in the Environmental Clearance certificate issued by Ministry of Environment & Forests, Govt. of India, New Delhi and Dept. of Ecology & Environment, Government of Karnataka.

II. Treatment and disposal of Sewage & Trade effluent:

1. The discharge from the premises 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 thereunder.
2. The quantity of the effluent shall not exceed the following
 - i. Sewage effluent : 90 KLD
 - ii. Effluent from Sugar & C-gen plant : 248 + 30 KLD
 - iii. Effluent from Distillery Plant
 - a. Spent Wash : 330 KLD RO Reject 180 KLD to compost balance permitted for recycle
 - b. Spent Lees : 130 KLD for recycle
3.
 - a. The applicant shall ensure that the Sewage effluent, trade effluent from Sugar & Co-generation plant 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 irrigation entirely on the land mentioned in the consent application. No effluent shall be by passed or discharged into valley.
 - b. (i) The entire spent wash shall be treated in Reverse Osmosis Plant, permeate shall be recycled in distillery unit and the rejects shall be composted using press mud and no effluent shall be by passed or discharged into valley.
(ii) The entire compost yard shall be RCC lined by end of December, 2007. Till such time the production shall be regulated to ensure that the composting is carried out on RCC lined yard only after monsoon.
4. The applicant shall ensure that the operation of effluent treatment plant shall be started atleast 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.
5. The applicant shall ensure that the waste water generation is always less than or equal to 100 lts/ton of cane crushed.

...2/-

6. The applicant shall provide adequate storage capacity for treated effluent to take care off no demand for irrigation. The storage tank shall be impervious.
7. The applicant shall provide effluent flow meters to record the effluent quantity discharged.
8. The industry should provide alternate power supply to the ETP for its continuous operation.
9. The application of treated effluent for agriculture shall be controlled so as to avoid either flooding of land or ground water contamination.
10. 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.

III. Molasses Storage

1. The Applicant shall take action to store the Molasses in steel tanks covered with proper roofing.
2. The Applicant shall obtain permission from the Board to dispose off the spoiled Molasses and it shall be disposed off in a manner as laid down by the Board.

IV. Spent Wash Management

1. The entire spent wash shall be treated in Reverse Osmosis Plant, permeate shall be recycled in distillery unit and the rejects shall be composted using press mud and no effluent shall be by passed or discharged into valley.
2. The applicant shall ensure that no spent wash is by passed to land or stream so as to avoid surface or subsurface water pollution.
3. The applicant shall not store spent wash in unlined lagoons. Storage of spent wash in impervious holding tank shall not be more than 30 days.
4. The applicant shall synchronize the generation of Spent Wash and composting activity in such a way that composting is avoided during rainy season.
5. Operation of the distillery during rainy season is prohibited.
6. The applicant shall ensure that the composting activity is carried in a manner as not to cause surface or sub surface water pollution.
7. The applicant shall make proper arrangement for collection of storm water that overflows the compost yard by providing proper impervious garland canal and catch pit and the collected effluent shall be mixed with the spent wash and subjected to composting.
8. The applicant shall provide test bore wells to check the ground water contamination and submit the analysis report of ground water to the Regional Office.
9. **The applicant shall complete the 4 acres of compost yard lining before restarting the plant after monsoon.**

...3/-

10. The RCC lining of remaining compost yard shall be completed by end of December, 2006 as decided in the personal hearing held on 11.11.2005.

V. Self Monitoring and Reporting by the industry

1. The Applicant shall at his own cost get the trade /Sewage effluent samples collected from the manhole chambers specified in condition II(1) and analyze the same **every month** for the parameters indicated in condition No II(3-a) and shall submit in duplicate the report to the Regional Officer.
2. Monthly extract of daily products manufactured as well as Effluent discharged-sewage/trade shall be submitted to the Regional Officer regularly every month.
3. The Applicant shall appoint a qualified environmental engineer/scientist for environment management in the factory and also establish an environmental cell.
4. The applicant shall establish a self monitoring system for monitoring the effluents by procuring necessary monitoring equipment & by establishing a laboratory.
5. Applicant shall establish, implement and maintain an Environmental Management System in conformity with ISO 14001:2004 standards.
6. The applicant shall ensure continuous and effective operation and maintenance of pollution control systems.

VI. Environmental Statement

1. The applicant shall submit the Environmental Statement every year for the period ending 31st March in Form V of Rule as per Rule 14 of Environment (Protection) Rule 1986 on or before 30th September failing which the industry is liable to pay an administrative charges of Rs.500/- (Rupees Five Hundred Only) for late submission.

VII. Hazardous Waste (Management and Handling) Rules 1989 as amended in 2003

1. The applicant shall comply with the Hazardous Waste (Management and Handling) Rules 1989 as amended in 2003.

VIII. Storm Water Management

1. Storm water shall not be allowed to mix the trade and/or sewage Effluent on the up stream of the terminal manholes where the flow measuring devices will be installed.
2. Applicant shall implement Rain Water Harvesting System.

IX. Solid waste management

1. The industry may give the pressmud to any distillery for composting spent wash. In case it is not given, the same shall be collected, composted within the factory under the supervision of the factory Scientist/ Engineer before disposing it off. Leachate from the press mud shall be collected and treated and it shall not be allowed to soak down and contaminate the ground water.
2. The applicant shall collect, store, treat and dispose off the non-hazardous solid waste like lime sludge, ETP sludge, ash from boilers and other solid wastes in a manner so as not to cause pollution.


...4/-

X. Water Cess

1. 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.

XI. GENERAL

1. The Applicant shall not change or alter either the quality or the quantity or the rate of discharge or temperature or the route of discharge without the previous written permission of the Board.
2. 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, his heirs, legal representatives or assigns shall have no claim whatsoever to the continuation or renewal of this consent after the expiry of the period of consent.
4. The Applicant shall make an Application for the Consent atleast 120 days before the date of expiry of this consent.
5. The Applicant shall display suitable caution boards at the places to be indicated by the Board or any other Officers of the Board for indicating that the Watercourse into which the effluents are discharged is not fit for domestic usage/bathing/agriculture.
6. The Applicant shall not allow the discharge from other premises to mix with the discharge from his premises.
7. The Applicant shall forthwith keep the Board informed of any accident or unforeseen act or event of any poisonous, noxious or polluting matter is being discharged into stream or well, as a result of such discharge water in such a well or stream is being polluted. The applicant shall also take corrective steps to mitigate the impact.
8. The Applicant shall display the consent granted to him in a prominent place for perusal of the Inspecting Officer of the Board.
9. The Applicant shall keep the Factory premises and the treatment plant site clean. The treatment plant site. Inspection chamber/sampling and flow measuring points, outlets should be made easily approachable.
10. The Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the Terms and Conditions of this consent.
11. Industry shall comply with all the consent conditions and furnish report within 30 days to the Regional Office.


ENVIRONMENTAL OFFICER

18/8

ANNEXURE - I

SL. NO.	Characteristics.	Tolerance limits.
1	Colour and Odour.	See Note.
2	Suspended Solids mg/l. Max.	100
3	pH	5.5 to 9
4	Oil and Grease mg/l. Max.	10
5	Bio-chemical Oxygen Demand, mg/l. (3 days at 27°C) Max.	100
6	Chloride (as Cl.) mg/l. Max.	600
7	Sulphate (as SO ₄) mg/l. Max.	1000
8	Total Dissolved Solids (Inorganic) mg/l. Max.	2100

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

[Signature]
ENVIRONMENTAL OFFICER

2/8

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Karnataka State Pollution Control Board

"ಪರಿಸರಭವನ"

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

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

//BY SPEED POST//

No. KSPCB/17-Cat/ Renuka/2006-07 4338

Dated:

**REVIEW AND ALTERATION OF CONSENT CONDITION ISSUED UNDER
THE WATER ACT TO SRI RENUKA SUGARS LIMITED**

Consent is granted under the provision of the Water (Prevention and Control of Pollution) Act, 1974. (Hereinafter referred to as "THE ACT") and the Rules and Orders made there under to **M/s. Sri Renuka Sugars Limited, Site No.367/1, Manoli Village, Soundatti Taluk, Belgaum District.** valid up to 30.06.2007 vide Consent Order No. 17CAT\WPC\RENUKA\2006-07\192, dated 16.8.2006. In the said consent permission was accorded to operate the plant at 60 KLD capacity.

Sri Renuka Sugars Limited has made an application for consent for operation for enhanced the capacity from 60 KLD to 120 KLD utilizing the existing facility for treatment and disposal of effluent. The Board has issued CFE on 17.6.2006 for enhancing production considering that there is no increase in pollution load. This aspect has also been reported by the industry to MOEF vide industry letter dated 7.11.2006, as per EIA Notification 1994. It is reported that, industry has completed RCC lining of 7 acres of compost yard. The State Level Consent Committee of the Board in its meeting held on 25.1.2007 has examined the request of the industry for CFO to enhance the production and recommended that, the industry could be permitted to enhanced production of Rectified Spirit of 120 KLD on trial basis for a period upto 30.4.2007.

Accordingly, permission is hereby accorded for enhancing the production of Rectified Spirit from 60 KLPD to 120 KLPD.

Following additional conditions shall be complied with;

1. Quantity of effluent generation shall not exceed the permitted quantity as mentioned in the consent order issued under the Water Act mentioned above.
2. The total number of operating days in a year shall not exceed 225 days as stipulated in the environmental clearance certificate issued by MOEF vide No.J-11011/8/2002-IA II(I), dated: 19.9.2002 for 60 KLPD capacity.
3. In case the pollution load (effluent quantity, solid waste, hazardous waste etc.) exceeds the consented quantity for 60 KLPD plant by expansion to 120 KLPD of RS production the unit should immediately stop operating at higher capacity and revert back to 60 KLPD capacity.
4. Industry shall monitor the following and data shall be submitted on weekly basis to Regional Office of the Board for verification.

(a) Daily quantity of water used for different process and utilities.

(b) Daily quantity of effluent generated viz. spent wash, spent lees, DM plant

-: 2 :-

- (d) The operation details of RO plant viz. number of hours of operation, shut down, period maintenance time, quantity of spent wash input to RO plant, quantity of pressmud and its disposal/utilization, quantity of concentrate generated per day.
- (e) Quantity of effluent (RO concentrate) taken for composting, rate of application of concentrate to pressmud, quantity of pressmud utilized, number of cycles of effluent application to windrow, number of days of application of concentrate to pressmud, maturity time and quantity of compost of each windrow (a log sheet for each windrow is to be maintained indicating the date of commencement of application of effluent, moisture content, temperature, etc). Quantity of compost generation and its disposal details.

All other terms and conditions in the consent order under the Water Act mentioned above remains unaltered.

FOR AND ON BEHALF OF
KARNATAKA STATE POLLUTION CONTROL BOARD

Sd/-

ENVIRONMENTAL OFFICER

To:

The General Manager,
M/s. Sri Renuka Sugars Limited,
Site No.367/1, Manoli Village,
Soundatti Taluk,
Belgaum District.

Copy to:

- 1) Regional Officer, Belgaum for information. He is directed to closely monitor the operation of the plant at enhanced production, verify the weekly reports at site and furnish a report on whether the industry is adhering to CFE conditions and CFO conditions.
- 2) Case file.

S. S. S.
ENVIRONMENTAL OFFICER

18/2



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

Consent No. AWH-300705
Valid upto: 30/06/2021

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

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

To,
Shree Renuka Sugars Ltd

COPY TO:

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

2. Master Register.
3. Case file.

1. Consent Fee paid : Rs. 100000

SCHEDULE

TERMS AND CONDITIONS

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

1. The discharge from the premises of the occupier shall pass through the terminal manhole/manholes where from the Board shall be free to collect samples in accordance with the provisions of the Act/Rules made there under.
- 2(a). The sewage/domestic effluent shall be treated in septic tank and with soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be as per IS 2470 Part-I & Part-II.
- 2(b). The treated sewage effluent discharged shall conform to the standards specified in Annexure-I.
- 3(a). The trade effluent generated in the industry shall be treated in the ETP and treated effluent shall confirm to the standards stipulated by the Board in Annexure-1
- 3(b). The trade effluent shall be handed over to CETP and maintain logbook of effluent generated & sent every day.
4. The applicant shall install flow measuring/recording devices to record the discharge quantity and maintain the record.
5. The applicant shall not change or alter either the quality or the quantity or the place of discharge or temperature or the point of discharge without the previous consent/ permission of the Board.
6. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises. Storm water shall not be allowed to mix with the effluents on the upstream of the terminal manhole where the flow measuring devices are installed.
7. The daily quantity of domestic effluent and trade effluent from the industry shall not exceed the limits as indicated in this consent order:
8. The applicant shall discharge the effluents only to the place mentioned in the Consent order and discharge of treated/untreated outside the premises is not permitted.

B. EMISSIONS:

1. The discharge of emissions from the premises of the applicant shall pass through the air pollution control equipment and discharged through stacks/chimneys mentioned in **Annexure-II** where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under. The tolerance limits of the constituents forming the emissions in each of the stacks shall not exceed the limits laid down in Annexure-II.
2. The applicant shall provide port holes for sampling of emission, access platforms for carrying out stack sampling, electrical points and all other necessary arrangements including ladder as indicated in Annexure-II.
3. The applicant shall upgrade/modify/replace the control equipment with prior permission of the Board.



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

Consent No. AWH-300705
Valid upto: 30/06/2021

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

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

C. WATER CESS:

1. The applicant shall provide water meter at all the intake points as specified under Section (5) of the Water Cess Act, 1977 and shall file the Water Cess returns regularly before fifth of every month and also pay the Cess assessed with the time stipulated.

D. MONITORING & REPORTING:

1. The applicant shall get the samples of effluents & emissions collected and get them analyzed once a month/either by in house monitoring laboratory or through EP approved laboratories for the parameters as Indicated in Annexure I & II.
2. The applicant shall maintain log books to reflect the working condition of pollution control systems and also self monitoring results and keep it open for inspection.

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

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

F. NOISE POLLUTION CONTROL:

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

G. HAZARDOUS WASTES (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) 2008:

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

H. GENERAL CONDITIONS:

1. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises.
2. The applicant shall promptly comply with all orders and instructions issued by the Board from time to time or any other officers of the Board duly authorized in this behalf.
3. The applicant shall set-up Environmental Cell comprising of qualified and competent personnel for complying with the conditions specified.
4. The Board reserves the right to review, impose additional conditions, revoke, change or alter terms and conditions of this consent.
5. The applicant shall forthwith keep the Board informed of any accidental discharge of emissions/effluents into the atmosphere in excess of the standards laid down by the Board. The applicant shall also take corrective steps to mitigate the impact.
6. The applicant shall provide alternative power supply sufficient to operate all Pollution control equipments.
7. The entire premises shall always be kept clean. The effluent holding area, inspection chambers, outlets, flow measuring points should made easily approachable.
8. The applicant shall display the consent granted in a prominent place for perusal of the inspecting officers of the Board.
9. The applicant his heirs, legal representatives or assignee shall have no claims what so ever to the continuation or renewal of this consent after expiry of the validity of consent.



Consent For Operation
(CFO-Air,Water)

Consent No. AWH-300705
Valid upto: 30/06/2021

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

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

- 10. The applicant shall make an application for consent for subsequent period at least 45 days before expiry of this consent.
- 11. The applicant shall develop and maintain adequate green belt all around the periphery.
- 12. The applicant shall provide rain water harvesting system and shall provide proper storm water management system.
- 13.This consent is issued without prejudice to any Court Cases pending in any Hon’ble Court
- 14. The applicant shall furnish the Environmental statement for every financial year ending with 31st March in Form-V as per Environment (Protection) Rules, 1986. The statement shall be furnished before the end of September.
- 15.The applicant shall display flow diagram of the pollution control system near the pollution control system/s.

NOTE:

The following Conditions A[2(b),3(b)] mentioned in the schedule are not applicable.

Additional Conditions:

enclosed

For and on behalf of the
Karnataka State Pollution Control Board



S NANDA KUMAR

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

Chi m.N o.	Chimney attached to	Capacity/ KVA Rating	Minimum chimney height to be provided above ground level (in Mts)	Constituents to be controlled in the emission	Tolerance limits mg/NM3	Fuel	Air pollution Control equipment to be installed,in addition to chimney height as per col.(3)	Date of which air pollution control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.
1	D.G. Sets	1165 KVA	30	---	---	DIE	AEC	Before commissioning.
2	D.G. Sets	1010 KVA	30	---	---	DIE	AEC	Before commissioning.
3	Boiler	44 TPH and 26 TPH	58	---	---	BAG	SCR	Before commissioning.
4	Boiler	100 TPH and 50 TPH	65	---	---	BAG	ESP	Before commissioning.

Note:

AEC : Accoustic Enclosures

SCR : Scrubber

ESP : E.S.P



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

Consent No. AWH-300705
Valid upto: 30/06/2021

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
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(This document contains 5 pages including annexure & excluding additional conditions)

Note:

- 1. The Noise levels within the premises shall not exceed 75 dB (A) leq during day time and 70 dB(A) leq during night time respectively.
- 2. The DG set shall be provided with acoustic measures as per SI.No.94 in Schedule-I of Environment (Protection) Rules.
- 3. There shall be no smell or odour nuisance from the industry.

LOCATION OF SAMPLING PORTHOLES, PLATFORMS, ELECTRICAL OUTLET.

- 1. Location of Portholes and approach platform:

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

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

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

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ADDITIONAL CONDITION

The consent is issued considering the manufacture of :

Sl. No.	Products	Maximum Capacity in
1.	White Crystal Sugar by Sugar cane crushing of capacity	7500 TCD
2.	Rectified Sprit	120 KLD
3.	Co-generation Plant	35.5 MW
4.	Raw sugar refining	1200 TPD

The Consent is granted for the period from 01.07.2016 to 30.06.2021.

Consent fees : Rs. 10,00,000/- under both Water Act & Air Act

RTGS NO: RATNH16133940376- Rs. 6,00,000/- dt: 12.05.2016.

RTGS NO: RATNH161673523282- Rs. 4,00,000/- dt: 21.06.2016.

RO-Belagavi Letter No: 1022 dt: 22.06.2016.

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

I. TREATMENT & DISPOSAL OF DISTILLERY EFFLUENT :

1. The applicant is permitted to operate the distillery unit for 270 working days.
2. Entire quantity of spent wash shall be concentrated in Evaporators and shall be composted using press mud. The compost yard shall conform to the specifications as stipulated in the CPCB protocol.
3. The applicant shall synchronize the generation of spent wash and composting activity in such a way that composting is avoided during rainy season.
4. 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.
5. Storage of spent wash in impervious holding tank shall not be more than 30 days. The applicant shall not store spent wash in unlined lagoons.
6. 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.
7. 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 leachate tank. Leachate tank capacity shall be such that it shall hold 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.
8. The applicant shall ensure that the composting activity is carried in a manner as not to cause surface or sub surface water pollution.



(a) Self Monitoring and Reporting by the industry

1. The applicant shall at his own cost get the samples of bio-methanated spent wash and analyse the same once in 15 days for pH, EC and total volatile solids.
2. Monthly extract of daily product manufactured, no. of days of operation & effluent discharge shall be submitted to the Regional Officer regularly every month & once in six months production details duly certified by Excise Superintendent shall be submitted to Regional Office and the Board.
3. The applicant shall analyse finished compost from each cycle for the parameters moisture, organic carbon, P, N, K, and C/N ratio. In addition EC of the water extract of the compost shall also be monitored.
4. The effect of composting operations on ground water quality shall be monitored by analysing samples every six months from five hand pumps about 50 M from the compost yard encircling the entire area.
5. The applicant shall maintain at least 3 water quality stations/ hand pumps as background stations at a sufficient distance from the compost yard and shall be monitored every six months.
6. Composting operation shall be stopped immediately on observation of first deterioration in ground water quality.

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

1. 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.
2. 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 stipulated as per the frequency indicated.

Sl. No	Description	Permitted Quantity of discharge	Limits specified	Place of discharge
1	2	3	4	5
1	Trade effluent Sugar & Co-generation plant Other effluents (lab, WTP, floor washings, cleaning day effluents, cooling tower purge etc)	486KLD	As in Annexure I	On land for irrigation
2	Distillery effluent (Spent wash)	360 KLD	As in Annexure-II	-
3	Spent less	260 KLD	-	-
4	Domestic effluent	94 KLD	-	Septic tank & Soak pit

3. The applicant shall ensure that the trade and sewage effluent is treated in the treatment plant constructed as per the flow sheet submitted by the industry to the standards stipulated in **Annexure-I**
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 the mill.
5. The applicant shall ensure that the waste water generation from sugar unit is less than or equal to 200 lts/ ton of cane crushed.
6. The ETP units should be made easily approachable for the inspecting Officers.
7. The factory authorities shall display the approved flow sheet in the ETP area on a board along with discharge standards stipulated in the consent order.
8. The applicant shall display the treated effluent parameters, as per the latest analysis report of the treated trade effluent, at the ETP location.
9. 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.
10. The applicant shall provide effluent flow meters to record the effluent quantity discharged.
11. The application of treated effluent for agriculture shall be controlled so as to avoid either flooding of land or ground water contamination.
12. 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.
13. Final treated effluent discharge restricted to 100 litre per tonne of cane crushed and Waste water from spray pond overflow or cooling tower blow down to be restricted to 100 litre per tonne of cane crushed and only single outlet point from unit is allowed.

(a) **Self Monitoring and Reporting by the industry**

1. The applicant shall at his own cost get the trade/ sewage effluent samples and analyse the same **every month** for the parameters indicated and shall submit in duplicate the report to the Regional Officer.
2. Monthly extract of daily product manufactured as well as effluent discharged-sewage/ trade shall be submitted to the Regional Officer, regularly every month.
3. **The applicant shall install on line continuous effluent quality monitoring system at the out let of sugar plantETP for the measurement of parameters like flow, pH, COD, BOD, TSS & other consented parameter and monitoring data shall be connected & up loaded to KSPCB and CPCB's servers.**



III. Waste Water Conservation & Pollution Control Management

1. Establishment of cooling arrangement and polishing tank for recycling the excess condensate water to process or utilises or allied units.
2. Effluent Treatment plant to be stabilized one month prior to the start of the crushing season and continue to operate one month after the crushing season.
3. Flow meter to be installed in all water abstraction points and usage of fresh water to be minimized.
4. Suitable Air pollution control devices to be installed to meet the particular matter emission standard.

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

B. EMISSIONS

1. The discharge of emissions from the premises of the applicant shall pass through the stacks/ chimneys mentioned in **Annexure-III** 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 heights shall be as per **Annexure-III**.
2. The applicant shall operate the air pollution control equipment as specified in the **Annexure-III** continuously so as to ensure that the emission does not exceed the limits specified.
3. 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.

(a) Self Monitoring and Reporting by the industry

1. The applicant shall at his own cost get the samples of emissions collected and get them analyzed once a month in Board empanelled lab for the parameters indicated.
2. The industry shall take all necessary measures to avoid odour nuisance both from the process and from the effluent handling.
3. The applicants shall carryout the ambient air quality monitoring and submit the report to the Regional Office of the Board. The AAQM stations shall be carried out at all the established stations as per the requirement under the National Ambient Air Quality Monitoring Standards stipulated in Environmental (Protection) Rules, 1986. The industry shall furnish both statistically and in graphical format the results once in a year.
4. The applicant shall monitor the noise levels on the periphery of the industry at five locations and shall submit the monitoring reports regularly to the Regional Office.



5. The applicant shall install on line continuous stack emission monitoring system for measurement of emissions parameter like PM,NOx, SO2, & CO and monitoring data shall be connected & up loaded to KSPCB and CPCB's servers.

C. ENVIRONMENTAL STATEMENT

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

D. HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2016

The applicant shall comply with the Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2016.

E. SOLID WASTE MANAGEMENT

1. 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.
2. Yeast sludge shall be dewatered using mechanical decanter and dried sludge shall be used as manure. Separate log book for the quality of yeast sludge disposed shall be maintained and the same shall be got verified by the Regional Officer during inspection.
3. The shall improve improve the storage of bagasse and ash with necessary enclosures and provide wind breaking walls.

F. 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.

G. GENERAL

1. 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.
2. 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.
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.

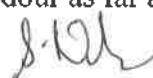
4. The applicant shall not store any raw materials on naked ground.
5. The applicant shall appoint a qualified environmental engineer/ scientist for environment management in the factory and also establish an environmental cell.
6. Applicant shall maintain the Environmental Management System in conformity with ISO 14001:2004 standards.
7. The applicant shall comply with the guidelines under Corporate Responsibilities for Environment Protection (CREP) 2003 issued by Ministry of Environmental Forests and CPCB.
8. The applicant shall continue the self monitoring system for monitoring the effluents and emissions.
9. 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.
10. An inspection Book shall be opened and made available to the Board Officers during their visit to the factory.
11. 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.
12. Industry shall comply with all the consent conditions and furnish report within 30 days to the Regional Office.
13. The applicant shall display EC, Environmental Statement and Consent orders in the website of the industry and update regularly.

ANNEXURE – I

STANDARDS FOR DISCHARGE OF TREATED TRADE EFFLUENT ON LAND FOR IRRIGATION/ GREEN BELT DEVELOPEMENT

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

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



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

ANNEXURE – III

Chimney	Chimney Attached to	Minimum Chimney Height to be Provided Above ground level	Rate of emission Nm ³ /Hr	Constituents 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.	a) 44 TPH Boiler b) 26 TPH Boiler (bagasse fired)	Common Chimney of 58 M AGL	-	Particulate matter	150	Wet scrubber
2.	a) 50 TPH Boiler b) 100 TPH Boiler (bagasse/Coal fired)	Common Chimney 65 M AGL	-	Particulate matter	150	Individual Electrostatic precipitators
3.	1165 KVA DG Set	30 M AGL or 6 M ARL whichever is higher.	-	NOx NMHC PM CO	710 ppmv 100 75 150	Acoustic measures
4	1010 KVA DG Set	30 M AGL or 6 M ARL whichever is higher.	-	NOx NMHC PM CO	710 ppmv 100 75 150	Acoustic measures

NOTE: The Noise level shall not exceed 75 dB(A) leq. During day time (6 AM to 9PM) and 70 dB (A) leq. during night time (9 PM to 6 AM).


CHIEF ENVIRONMENTAL OFFICER

Copy to Regional officer, Belagaum for information and ensure compliance to following directions issued by CPCB.

While issuing Consent to operate or renewing CTO to a plant, industry or process under the Water Act and Air Act & installation handling hazardous substance (s) beyond the prescribed threshold limits as listed under the PLI Act, 1991, the SPCB shall ensure compliance to the following from the occupier ;

1. Details on current PLI policy would be compulsorily sought (as a checklist).
2. Shall seek a copy of successive Public liability Insurance Policies (year wise) since undertaking the use, trade or sewage of listed hazardous chemicals as under the PLI Act, 1991.
3. Shall seek a copy of Form III of ERF scheme under the PLI Act, 1991.
4. The SPCBs shall seek a copy of on-site emergency plan.

Annexure- II

Receipt of consent for establishment from KSPCB the same is conveyed to the MoEF & CC



ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
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/SRSL/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 314th Technical Advisory Committee meeting held on 22.11.2005.
 4. Proceedings of the 316th Technical Advisory Committee meeting held on 16.02.2006.
 5. Proceedings of the 317th Technical Advisory Committee meeting held on 22.03.2006.
 6. Proceedings of the 318th 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 314th TAC meeting held on 22.12.2005, 316th TAC meeting held on 16.2.2006 and in the 317th TAC meeting held on 22.3.2006 and 318th 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 M³ 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 gradient 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

To

The Secretary
Environmental Impact Assessment Division
C.G.O Complex,
Lodhi Road
New Delhi.

ok

Respected Sir,


**Sub: - Expansion of Distillery Unit from 60KLP to 120 KLD without
Increasing the pollution Load.**

**Ref: - 1. CFE from KSPCB No.CFE-EIA/SRSL/EIA-414/2006-2007/86
2. MOEF Notification dated 27/01/1994 and explanatory note
There on.**

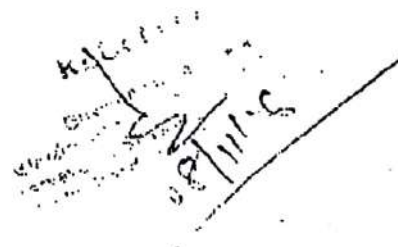
With reference to the above, we are submitting the CFE issued by Karnataka State Pollution Control Board, Bangalore for the expansion of our industry from 60 KLD to 120 KLD the spent wash is treated by RO and composting. As per the above notification the CFE issued by Karnataka State Pollution Control Board is forwarded for your Information.

Thanking you,

Yours faithfully,
For Shree Renuka Sugars Ltd,


(General Manager)

Encl: - As above



To Mr. Gaurind
F. Pawan/Delhi

Regd. Office : BC 105, Havelock Road, Cantonment, Belgaum - 590 001, India. Tel : +91-831-245 0000 (7 Lines) Fax : +91-831-245 0000

PHONE NO. : 51757116

L : D:H:C:C:L

NOV. 08 2006 12:00PM



Shree Renuka Sugars Ltd.,

201
Regd. Off. : BC 105, Havelock Road,
Cantonment, BELGAUM-590 001
Tel. : +91-831-2404000 (7 Lines)
Fax : +91-831-2404961
e-mail : belgaum@renukasugars.com

To,
The Regional Officer
Karnataka State Pollution Control Board
Division Office, Plot No.126, Main Road,
Auto Nagar, Kanabargi Industrial Area,
BELGAUM.

Date: 10.11.2006

Dear Sir,

Sub : Information to MOEF regarding the expansion of Distillery Unit from 60 KLPD to 120 KLPD without increasing the pollution load.

Ref : Your letter No.KSPCB/RO(BGM)/17CAT/2006-07/1174.

With reference to above subject, we have informed the MOEF as per the Notification Dated 27.01.1994 and explanatory note there on. The acknowledgement from the MOEF to the letter written regarding above subject is attached for your kind reference.

Please find the same in order.

Thanking You

Yours faithfully
For Shree Renuka Sugars Ltd.,

General Manager.

201
Enc: as above


13.11.06

Annexure- III

Production since inception of the distillery unit

M/s Shree Renuka Sugars Ltd., Village Munoli Tq: Savadatti Dist : Belagavi
Detail of Alcohol production year wise.

Year	No. of days	Alcohol (in liters)	Avg Per day (in liters)	Avg Per day (in KL)
2002-03	141	8223355	58322	58.3
2003-04	222	11926654	53724	53.7
2004-05	220	13094555	59521	59.5
2005-06	218	12867543	59025	59.0
2006-07	216	12657897	58601	58.6
2007-08	227	23440528	103262	103.3
2008-09	245	26454703	107978	108.0
2009-10	269	26498090	98506	98.5
2010-11	261	29209179	111913	111.9
2011-12	265	28734987	108434	108.4
2012-13	232	26177781	112835	112.8
2013-14	200	21079554	105398	105.4
2014-15	202	24082359	119220	119.2
2015-16	225	22450230	99779	99.8
2016-17	198	20995945	106040	106.0
2017-18	241	26076718	108202	108.2
2018-19	239	26781247	112055	112.1
2019-20	174	18916025	108713	108.7


 Director
 M/s Shree Renuka Sugars Ltd.

Annexure- IV

- **Produced ethanol from expanded capacity will be sold under Ethanol Blending programme Commitment**
- **Commitment to incinerate the concentrated spent wash generated from expansion and**
- **Commitment to produce the MoPNG certificate**

COMMITMENT LETTER

I, Vijendra Singh, aged about 60 years, son of Mr. Jagadev, whole time Director of M/s. Shree Renuka Sugars Limited (hereinafter "the Company") having address at 7th Floor, Devchand House, Dr. Annie Besanth Road, Worli, Mumbai 400018 do hereby execute the committee as under:

That the Company is in the process of enhancing its Distillery Plant capacity from existing 120 KLPD to 500 KLPD (using C/B - Molasses or Sugar cane Juice/Syrup as raw material) with Captive power generation plant of 18 MW capacity at Survey No. 367/1 Munoli Village, Soundatti Taluka, Belagavi District, Karnataka State.

An application for seeking prior Environmental Clearance was made to MoEF & CC under the provision of EIA Notification 2006 on 9th October 2018

The proposal was appraised by EAC in 18th EAC (Industrial -2) meeting held on 13.04.2020. The committee resolved that, Company be asked to furnish certain information and also to give commitment on the following;

- a) That the Ethanol produced will be sold under Ethanol Blending Programme.
- b) Not to restart composting of spent wash and submit a plan for incinerator to achieve the ZLD.
- c) Also, to submit letter to MOPNG as per the Ministry Notification dated 17.01.2019
- d) Permission for water withdrawal of fresh water.

Therefore, as necessary and required the following commitment is given;

1. (i) BPCL vide their letter no. SRO/PRO/ETHANOL/1000311657 (44324), dated 05.02.2019 have communicate their intent to procure Ethanol from the Company for blending with petrol under EPB programme. (A copy of the said letter is enclosed).
1. (ii) IOCL, HPCL and BPCL have been procuring Ethanol from us for blending with petrol (a copy of the sample POs are enclosed)
2. Existing well established composting spent wash treatment system will be used for present 120 KLPD distillery capacity and for the expanded distillery capacity of 380 KLPD, the entire spent wash generated will be incinerated in incineration boiler to achieve ZLD.

3. The company has applied to the Ministry of Petroleum and Natural Gas for issuing a certificate stating that "the enhancement of product of ethanol from 120 KLPD to 500 KLPD proposal is for the purpose of blending bio-ethanol with petrol vide letter dated 28.01.2020". (a copy of the letter is enclosed). The company is following with the Ministry consistently for necessary certificate which will be obtained at the earliest and produced.
4. We have applied to the State Irrigation Department, Karnataka for permission of fresh water withdrawal. Which is expected to receive shortly, once we receive the same will be submitted.

This commitment is being made to enable the Ministry of Environment, Forest and Climate Change to grant prior EC for enhancing the production of ethanol from 120 KLPD to 500 KLPD as the proposal is for the purpose of blending bio-ethanol with petrol.

The aforesaid declaration is made by me at Munoli which is true to the best of my knowledge and information



Vijendra Singh

Place: Munoli

Date: 10.06.2020

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

To,

Date: 01.06.2020

The Ministry Of Petroleum and Natural Gas

Dr. Rajendra Prasad Road ShastriBhavan,

2nd Floor, Near Rail Bhavan, New Delhi 110001

Respected Sir,

Sub:Expansion of distillery at Survey No.137, Munoli Village, Saundatti Taluk, Belgavi District, Pin 591117, and seeking certificate regarding blending of Bio ethanol with petrol.

Ref: 1. Our letter dated 28.01.2020- copy enclosed.

2. Ministry of Environment, Forest and climate change Notification No. S.O.345 (E),dated 17.01.2019.

This has reference to the above subject and cited references; we would like to inform you that we have written a letter on 28.01.2020 to your good office for issue of certificate for purpose of blending the Bio-ethanol with petrol. This certificate is necessary for obtaining Environmental Clearance for our distillery expansion project from capacity 120 KLPD to 500 KLPD to manufacture ethanol at above mentioned location. The letter submitted on 28.01.2020 is enclosed for your kind reference and perusal.

Once again we request you, to issue us a certificate for blending the Bio-ethanol with petrol under Ethanol blending programme (EBP) which needs to be submitted to Ministry of Environment, Forest and Climate change along with the application for obtaining the EC.

Thanking You

Yours Faithfully

For Shree Renuka Sugars Ltd. Unit I, Munoli


Authorized Signatory



To,

Date: 28.01.2020

The Ministry Of Petroleum and Natural Gas

Dr Rajendra Prasad Road Shastri Bhavan,

2nd Floor, Near Rail Bhavan, New Delhi 110001

Respected Sir,

Sub: Expansion of distillery at Survey No.367/1, Munoli Village, Soundatti Taluka, Belgavi District, Pin 591117, and seeking certificate regarding blending of Bio ethanol with petrol.

Ref: Ministry of Environment, Forest and climate change Notification No. S.O.345 (E) dated 17.01.2019. Copy enclosed.

This is to bring to your kind notice that, we are planning to expand our distillery Capacity from 120 KLPD to 500 KLPD to Manufacture ethanol. At present we are supplying ethanol to Indian oil Corporation, BPCL, HPCL. After expansion of the plant we will continue to supply bio-ethanol for the purpose of blending with petrol under EBP programme. We are the largest supplier of Ethanol to Oil Companies in South India.

For the existing 120 KLPD capacity we have the prior Environment clearance from MoEF and Consent from Karnataka State Pollution Control Board.

Ministry of Environment, Forest and Climate Change in the Notification referred above have relaxed the process of granting Environmental Clearance under the provisions of EIA Notification 2006, with a condition that the project proponent seeking Environmental clearance for expansion shall submit a certificate from Govt. of India, Ministry of Petroleum and Natural Gas stating that the proposal is for the purpose of blending the Bio-ethanol with petrol.

Therefore to seek environmental clearance for our expansion project, we request you to kindly issue a certificate stating that the proposal is for the purpose of blending the Bio-ethanol with petrol.

Thanking You

Yours Faithfully

For Shree Renuka Sugars Ltd., Unit- I, Munoli


Abhaykumar S Khot

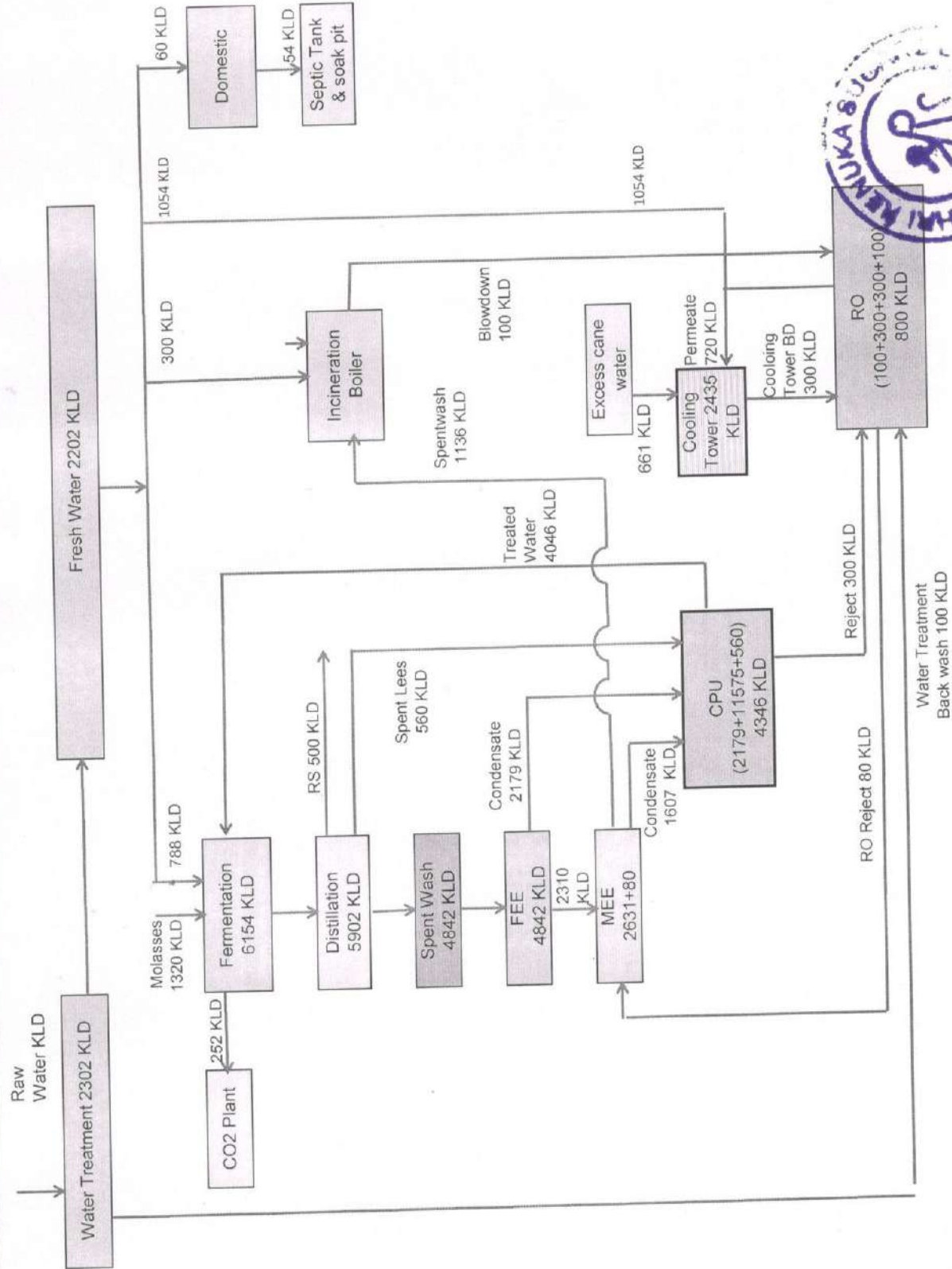
General Manager (Works)



Annexure- V

Revised water balance chart

Sri Renuka Sugars Limited - Water Balance After Proposed Expansion



Annexure- VI

Application is submitted to State Department of Irrigation Karnataka State for fresh water withdrawal permission



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

SRSL/Adm/2020/ 30

Date : 07.04.2020

To,

✓ The Executive Engineer

KNNL, MLBC Division 2, Naviluteerth.

Tq : Saundatti Dt : Belagavi

Sub : Issue of NOC for drawl of water from the Malaprabha reservoir

Ref : 1) Government Member Secretary Irrigation Dept Bangalore. Letter
ID 18 MPS 99. Dated 27.05.1999. (Sanction 400 KLD)

2) Our letter SRSL/Adm/2019/943 dated 04.12.2019. Issue of NOC
for drawl of water from Malaprabha reservoir.

Respected sir,

With reference to the above subject we have applied for NOC for lifting water
4000 KLD from Malaprabha reservoir. We have approval for 400 KLD. Our earlier
letter we have wrongly mentioned about Distillery expansion from 120 KLPD to 360
KLPD. So it is to be read as 120 KLPD to 500 KLPD. At Survey No 367/H, Munoli.
Taluk Saundatti. Dist Belagavi. Karnataka. (Ref # 2)

Now we have enclosed the brief project report or distillery plant expansion from
120 KLPD to 500 KLPD capacity and Sugar plant expansion from 7500 TCD to 10000
TCD and also enclosed the photo copy of 4 Lakh liters per day water lifting permission
letter issued by Government of Karnataka Member Secretary Irrigation Dept Bangalore.

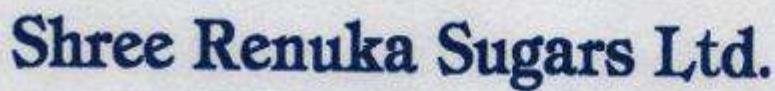
Fresh water requirement for the entire project will be 4000 KLD from Malaprabha
Reservoir. Kindly consider our request and issue us the NOC at earliest.

Thanking You,

For Shree Renuka Sugars Ltd.,

General Manager (Works)

- Copy to :
- 1) The Superintendent of Engineer. KNNL, MLBCC Circle, Naviluteerth.
 - 4) The Chief Engineer. KNNL, KCD Collage Road, Dharwad.
 - 5) The Managing Director KNNL, Dr. Ambedkar Veedhi, Bangluru.



SRSL/Adm/2019/943

72

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
Date : 04.12.2019

SRS/Adm/2019/943

To,
The Executive Engineer
KNNL, MLBC Division 2, Naviluteerth.
Tq : Saundatti Dt : Belagavi

Sub : Issue of NOC for drawl of water from the Malaprabha reservoir

Ref : Government Member Secretary Irrigation Dept Bangalore. Letter
ID 18 MPS 99. Dated 27.05.1999. (Sanction 400 KLD)

Respected sir,

With reference to the above subject we introduce ourselves as M/s Shree Renuka Sugars Ltd., based at Munoli Taluka Saundatti. Dist Belagavi and have established a sugar industry with cane crushing capacity 7500 TCD, 35.5 MW co generation and 120 KLPD distillery plant with the water requirement of 400 KLD per day. Based on the management decisions we are now proposing sugar plant expansion from 7500 TCD to 10000 TCD and 120 KLPD to 360 KLPD distillery at Survey No 367/H, Munoli. Taluk Saundatti. Dist Belagavi. Karnataka for which obtaining of Environmental clearance in progress.

The project helps in the upliftment of the Socio-Economic status of the surrounding region and especially the farmers being the major beneficiaries. Fresh water requirement for the entire project will be 4000 KLD from Malaprabha Reservoir.

Kindly consider our request and issue us the NOC at earliest.

Thanking You,



For Shree Renuka Sugars Ltd.,

General Manager (Works)

- Copy to : 1) The Superintendent of Engineer. KNNL, MLBCC Circle, Naviluteerth.
2) The Chief Engineer. KNNL, KCD Collage Road, Dharwad.
3) The Managing Director KNNL, Dr. Ambedkar Veedhi, Bangluru.

Annexure- VII

PESO Approval



भारत सरकार
भारत सरकार

Government of India

व्यवसाय और उद्योग विभाग

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो)

Petroleum & Explosives Safety Organisation (PESO)

A और D - विंग, ब्लॉक 1-8, हददोस रोड, नुंगम्बक्कम, चेन्नई - 600006

चेन्नई - 600006

A & D - Wing, Block 1-8, IInd Floor, Shastri Bhavan, 26 Haddous Road, Nungambakkam, Chennai - 600006

E-mail : jtccechennai@explosives.gov.in

Phone/Fax No : 044 -

28267118, 28281023, 28281041, 28287119/28284848

संख्या /No : P/SC/KA/15/2882 (P474421)

दिनांक /Dated : 29/06/2020

सेवा में /To,

M/s. Shree Renuka Sugars Limited,
2nd & 3rd Floor, Kanakashree Arcade, CTS No.10634, JNMCRoad, Nehru Nagar,
Munoli,
Belgaum,
Taluka: Belgaum,
District: BELGAUM,
State: Karnataka
PIN: 591117

6 JUL 2020

विषय /Sub : Survey No. RS No. 367/H, Munoli, Savadatti-Taluka (Saundatti), Munoli, Taluka: Saundatti, District: BELGAUM, State: Karnataka, PIN: 591117 में पेट्रोलियम वर्ग A का अंशिकार - अनुमति जारी करने के बारे में।

Petroleum Class A Installation at Survey No. RS No. 367/H, Munoli, Savadatti-Taluka (Saundatti), Munoli, Taluka: Saundatti, District: BELGAUM, State: Karnataka, PIN: 591117 Grant of License regarding

संबोधन /Sir
(s),

कृपया आपके पत्र क्रमांक OIN512535 दिनांक 08/06/2020 का अवलोकन करें।

Please refer to your letter No. OIN512535 dated 08/06/2020

विषय-संबंधित अधिकांश पेट्रोलियम पदार्थों के वर्ग तथा मात्रा के भंडारण के लिए पेट्रोलियम नियम, 2002 के अंतर्गत प्रकरण - XV में स्वीकृत, दिनांक 31/12/2020 तक वैध अनुमति संख्या P/SC/KA/15/2882 (P474421) दिनांक 29/06/2020 भेजी जा रही है।

Licence No. P/SC/KA/15/2882 (P474421) dated 29/06/2020 granted in Form XV under the Petroleum Rules, 2002 and valid till 31/12/2020 for the storage of the following kinds and quantities of Petroleum at the subject installation is forwarded herewith.

पेट्रोलियम का विवरण /Description of Petroleum	किस्तोरीकरण में अनुमति क्षमता /Quantity licenced in KL
वर्ग A प्रचुर पेट्रोलियम /Petroleum Class A in bulk	2186.00 KL
वर्ग A प्रचुर पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग B प्रचुर पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग B प्रचुर पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग C प्रचुर पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग C प्रचुर पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	2186.00 KL

कृपया पेट्रोलियम नियम 2002 के अंतर्गत बंधन पर नियम 148 में दी गई प्रक्रिया का काटौट से पालन करें और अनुमति के नवीकरण हेतु सम्पूर्ण दस्तावेजों को अनुमति की वैधता समाप्ति की तारीख या उसके पूर्व Dy. Chief Controller of Explosives, Mangalore को भेज दें।

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence to Dy. Chief Controller of Explosives, Mangalore, so as to reach his office on or before the date on which Licence expires.

यह अनुमति/अनुमति अन्य प्राधिकारियों से आवश्यक अनुमति/अनुमति प्राप्त करने से या वहां लागू अन्य विधियों से छूट नहीं देती है।

This approval/permission, however, does not absolve from obtaining necessary permission/clearance from other authorities or under other statutes as applicable

भवदीय /Yours faithfully,

(D.C. PANDEY)

विस्फोटक नियंत्रक
Controller of Explosives

कुले सचिव मुख्य विस्फोटक नियंत्रक
For Jt. Chief Controller of Explosives
चेन्नई/Chennai

प्रारूप XV
(प्रथम अनुसूची का अनुच्छेद 6 देखिए)
FORM XV
(see Article 6 of the First Schedule)

अधिकाधिक से पेट्रोलियम के आयात और भंडारण के लिए अनुज्ञप्ति
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुज्ञप्ति नं. (Licence No.): P/SC/KA/15/2882(P474421)

फीस रूप (Fee Rs.) 50000/- per year

M/s. Shree Renuka Sugars Limited, 2nd & 3rd Floor, Kanakashree Arcade, CTS No. 10634, JNMCRoad, Nehru Nagar, Munoli, Belgaum, Taluka: Belgaum, District: BELGAUM, State: Karnataka, PIN: 591117 को केवल इसमें पचा विनिर्दिष्ट वर्ग और मात्राओं में पेट्रोलियम 2186.00 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/SC/KA/15/2882(P474421) तारीख 29/06/2020 जो कि इससे उपाबद्ध है, में दिखाए गए स्थान पर भण्डारण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुवर्त की जाती है।

Licence is hereby granted to M/s. Shree Renuka Sugars Limited, 2nd & 3rd Floor, Kanakashree Arcade, CTS No. 10634, JNMCRoad, Nehru Nagar, Munoli, Belgaum, Taluka: Belgaum, District: BELGAUM, State: Karnataka, PIN: 591117 valid only for the importation and storage of 2186.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/SC/KA/15/2882(P474421) dated 29/06/2020 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December 2020 तक प्रवृत्त रहेगी।

The Licence shall remain in force till the 31st day of December 2020

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग A प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	2186.00 KL
वर्ग A प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग B प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग B प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग C प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग C प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	2186.00 KL

June 29, 2020

For Jt. Chief Controller of Explosives
SC, Chennai

अनुज्ञप्त परिसरों का विवरण और अवस्थान
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टता संलग्न अनुमोदित नक्शों में दिखाई गई हैं Survey No: RS No. 367/H, Munoli, Savadatti-Taluka(Saundatti), Munoli, Taluka: Saundatti, District: BELGAUM, State: Karnataka, PIN: 591117 स्थान पर अवस्थित है तथा उसमें निम्नलिखित 1 Above Ground tank(s) for CLASS A सम्मिलित हैं।

The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at Survey No: RS No. 367/H, Munoli, Savadatti-Taluka(Saundatti), Munoli, Taluka: Saundatti, District: BELGAUM, State: Karnataka, PIN: 591117 and consists of 1 Above Ground tank(s) for CLASS A together with connected facilities.

Annexure- VIII

Time bond action plan for implementation of the commitments made during Public Hearing held on 16.11.2018

Annexure -IX

Time bond action plan for commitments made in Public Hearing

Sl. No.	Name of a person	Responses	Time bond action plan to address issues raised by the public
1	Shri. Umesh Dandin, Munavalli village, Savadatti Taluka	Today you have conducted meeting for the extension of sugarcane crushing capacity from 7500 to 10000 TCD this is very good for our farmers and it will help to cut sugarcane early expressing this through this platform he said same is explained by the officer already, there won't be environment pollution by this 2 which I have notices so far. Because the wastages from the factory will not directly put to river instead it will be processed filtered then given to the lands of our farmers. Keeping this view into the mind I opine it should be enhanced, also some of the farmers were telling me that the ash from this factory is spreading out, we have been 99% benefited from this factory, when we consider the benefits then the 1% inconvenience must be neglected which I appeal to all the leaders of the farmers.	<ul style="list-style-type: none"> Opined that increasing in crushing capacity of sugar cane. Appreciated on providing of adequate pollution control measures and supported the expansion of the industry The problem of Ash is addressed. At present there are four boilers with capacities 100 TPH, 50 TPH, 44 TPH, 26 TPH respectively and are provided with ESP/Wet Scrubber as air pollution control equipment. It is proposed to replace wet scrubber with ESP during expansion project to control fly ash emission.
2	Shri. Ningappa Nalvade, vice president of sugarcane growers, Munavalli village	Now the roads have developed he told, no roads are developed around here, we anticipate the factory officers should build the roads to some extent of areas till today no roads are repaired, when sugarcane loaded vehicles move on the roads feels they will fell down. None have seen the roads in farms. The environment is not damaged, we didn't have any kind of loss due to factory, it has caused only good, none have bad opinion about factory, another things is of Rs.280/-. Only Rs.2520/- has been paid. Have assured to pay Rs.2800/- but the balance of 2017 and 2018 is still not paid. Is should be paid soon, all farmers do ask but none come forward to speak about. Because they fear whether the factory officers will take sugarcane or not. We work hard in the farms day and night, who will object on asking our money, he said.	The maintenance works of roads located of five kilometers of Gondi Village & Construct Barrage for Nala (Lake). Cost is Rs 9,35,563/-..



3	Shri. Anjaneya Nagenhalli, Samarg Parivartan Samuday profounder of N.G.O. Haveri District	I do my namesake to the president respected deputy commissioner of this environment public meeting and officers of environment pollution control board officers. And also to the people who arrived for this environment public meeting such as elderly people of surrounding villages, leaders and farmers, institutions and activists, officers of the N.G.Os. I have humble request to the management body of Shri. Renuka Sugars, kindly retain good relationship with the neighboring and surrounding people of villages, your primary intention must be to keep good relationships. And conduct the programs like free blood donation camps, free eye check up camps and mingle with the men and women institutions and be the limelight for them. And there is need to improve road conditions as told by our leaders of farmers keep their words into your minds hence I request to do their works, improve the local games of villages and heritage programs and by enhancing the unit's capacity you kindly be the food provider to the poor people by providing jobs to them and by growing trees in the areas, protect the environment from water pollution, air pollution, etc and I have complete faith upon the management that they will my above words and act upon it. Therefore for all your good works our all the NGOs are with you, and I also request to the deputy commissioner and pollution control board officers that kindly make the way clear for them to enhance the unit's capacity soon.	Job opportunities will be provided to locals on priority basis in the expansion project
4	Shri. Beejagoppa, Panchayat Hiroor village	Shrishail Gram members, now by enhancing to 10000 it will help our surrounding villages and the labourers will get more jobs. And accordingly, we demand for another water barrage to the river. Already done at Shindogi village and the water is storing there. By that the underwater will grow. Kindly construct one barrage for us, he requested for the same.	The participant informed to construct a barrage across the River at Heerura village limits to enhance the ground water recharge. This barrage across the river will be completed within two year in two phase. The cost of barrage construction is Rs. 25,00,000/-.



Annexure- IX

**The action taken report submitted to RO,
MOEF & CC in concern with Certified
Compliance Report**

GOVERNMENT OF INDIA
Ministry of Environment, Forest and Climate Change
(Regional Office, Southern Zone) Bangalore-34

MONITORING REPORT PART -I

uploaded on
18/03/19

No.EP/SEIAA/12.1/99/KAR

- 1 Name of the project Proposal for expansion of sugar unit from 2500 to 7500 TCD and 20.5 to 35.5 MW co-gen plant at Sy.No. 367, Munoli village, Saudatti Taluk, Belgaum District by M/s Shree Renuka Sugars Ltd
- 2 Clearance letter(s)/OM No. and dated F.No.J-11011/8/2002 -IA II (I) Dated 19.09.2002
No. SEIAA:16:IND:2007 dt. 1.7.2008.
- 3 Locations : Munoli, Belgaum. Karnataka
- 4 Address of correspondence: Shri AbhayKumar S Khot, General Manger (Works),
Shree Renuka Sugars Ltd,
No. 367/1, Munoli,
Saundatti, Belgaum District
Phone : 0831-877702, 877703/05
Fax : 0831-877189.
- 5 Date of site visit :
a) On previous occasions, if any 31.3.2003, 18.12.2003 & 26.12.2009
b) Date of site visit for this 07.02.2019
monitoring report

6. Brief on the project along with the present status: The site visit was made to this project on 06.02.2019. Shri. Abhakumar Khot, Unit Head, Shri Venkatesh Adhuverya, General Manager-EHS, Shri AV Turambekar, Head Organic fertilizer, Shri Gurusiddanavar Y, K Asst GM, (Envnt), Shri Basavarraaj Kabbur, Envnt Officer, of the project were present.

Environmental clearance was granted by the Ministry in 2002 for Distillery plant and by SEIAA in 2008n for the expansion of sugar unit from 2500 to 7500 TCD and 20.5 to 35.5 MW co-gen plant.

Air pollution control: Out of three boilers, two have been provided with Electrostatic precipitator (ESP) and one with wet scrubber. Energy meter has been provided and reading are maintained in log book. Though as per the monitoring reports, the *gaseous emission (SO₂, NO_x) and particulate matter* are meeting the standards, the SPM levels from the wet scrubber attached boiler (44 TPH) is slightly less than the permissible limits. This leads to concentration of SPM in Ambient air (96 against 100 µg/Nm³). **PA has been advised to provide or connect the third boiler with ESP. PA has submitted an undertaking to provide ESP for the 44 TPH boiler before the start of next crushing season by October, 2019.(Annexure-I.)**



Though PA has provided adequate pollution abatement measures and online monitoring of emission, **there was leakages of bagasse in feeding system, poor dust control at ash collection/ loading etc. PA has been advised to take necessary measures to rectify the issues to which PA has agreed to comply with by June, 2019 and submitted an undertaking.**

PA carry out Air and Water quality monitoring regularly and as per the monitoring reports, the levels are within the limits. The SPM and RSPM are slightly less than the permissible limits (SPM-96 against $100 \mu\text{g}/\text{Nm}^3$ RSPM-57 against $60 \mu\text{g}/\text{Nm}^3$) This may further be controlled once the ESP is provided to the third boiler and the leakage in the bagasse feeding and ash collection system is arrested.

Water sprinklers are used for dust suppression at bagasse storage. Mobile water spraying is used for dust control at the roads and other places. **Though water sprinkling is being done at bagasse storage, the height of storage shall be reduced so as to reduce the possibility of air borne dust.**

Effluent treatment and disposal: Reported that the effluent generation is about 800 KLD and it is treated in ETP and treated effluent is reused in the plant and gardening purpose. On line monitoring has been provided at the ETP and connected to the CPCB and SPCB.

Fly ash and press mud management: The fly ash generated from the boilers is mixed with press mud and used for composting with spent wash. As per the records, the compost is supplied to the farmers as agricultural manure.

Leachate Management: An impervious flooring has been provided for compost yard. The leachate is collected in pond and reused for compost.

Environmental monitoring : PA carry out Air, Water, soil quality and noise level monitoring regularly and as per the monitoring reports, the levels are within the limits. Piezometers are provided around the compost yard.

Green Belt Development: Noted that PA has developed good greenery. Reported that green belt area is about 35.5 acres which is 34.07 %.

EMC: To look after the environmental aspects, a Separate environment and safety management cell with qualified staff has been set up.

Rain water Harvesting: As part of RWH, PA has provided trenches in plantation area for direct infiltrate in soil and recharge the ground water. **PA has also submitted an undertaking to provide RWH.**

PA is proposed for expansion of sugar plant from 7500 TCD to 10,000 TCD and hence sought certified compliance report.

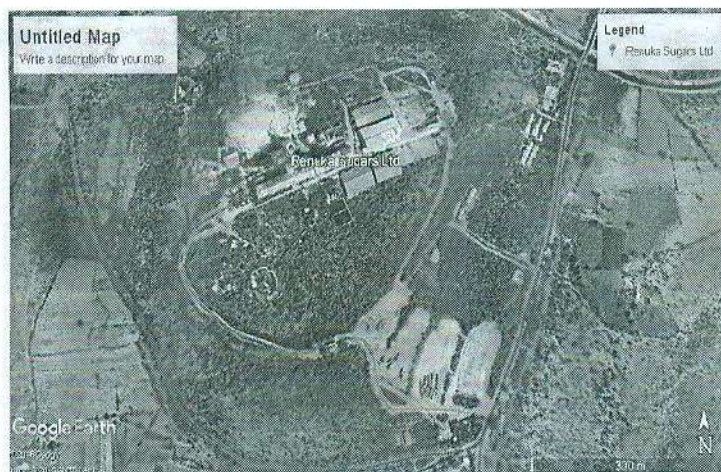
Detailed compliance status to different conditions of the environmental clearance is given in this report. The Compliance is Satisfactory expect the above observation.



(E.Thirunavukkarasu)
Scientist 'E'

Part -II- Compliance in detail

Proposal for expansion of sugar unit from 2500 to 7500 TCD and 20.5 to 35.5 MW co-gen plant at Sy.No. 367, Munoli village, Saudatti Taluk, Belgaum District by M/s Shree Renuka Sugars Ltd – EC issued vide F.No.J-11011/8/2002 –IA II (I) dated 19.09.2002 and No. SEIAA:16:IND:2007 dt. 1.7.2008.



**Sr.
No.**

Conditions and Compliance

1

Suitable Air pollution Monitoring system (ESP/Bag filter) and stack of appropriate height as per the CPCB guidelines shall be provided to control emissions from various sources and shall ensure emissions levels below the KSPCB prescribed standards. **Separate electric meters** should be provided to the air pollution monitoring system and a separate **log book maintained** for the daily meter readings meter readings and monthly report submitted to the Regional officer KSPCB and Regional Director (Environment) Department of Ecology and the Environment Government of Karnataka Belgaum.

Out of three boilers, two have been provided with Electrostatic precipitator (ESP) and one with wet scrubber. Energy meter has been provided and reading are maintained in log book. Though as per the monitoring reports, the gaseous emission (SO_2 , NO_x) and particulate matter are meeting the standards, the SPM levels from the wet scrubber attached boiler (44 TPH) is slightly less than the permissible limits. This leads to concentration of SPM in Ambient air (**96 against 100 $\mu g/Nm^3$**). **PA has been advised to provide or connect the third boiler with ESP. PA has submitted an undertaking to provide ESP for the 44 TPH boiler before the start of next crushing season. (October, 2019). Annexure-I.**

2

ETP treated water shall not be let out of the industry's premises and should be used for the farming/gardening within its premises.

Reported that treated effluent is reused in the plant and small quantity is used for the gardening purpose.

A handwritten signature in blue ink, consisting of stylized initials and a surname.

- 3 *Ash generated should be mixed with press mud and composted and used or given to farmers as manure. 100% utilization of ash should be ensured from the date of operation of the plant. The project authorities shall adhere to the provision stipulated in the fly ash notification of September, 1999 and as amended in August, 2003 in regards to the fly ash utilization.*

The fly ash generated from the boilers is mixed with press mud and used for composting with spent wash. As per the records, the compost is supplied to the farmers as agricultural manure.

- 4 *All the conditions stipulated in CFE/ CFO issued by Karnataka State Pollution Control Board shall be strictly implemented.*

The validity of consent orders is up to 30/06/2021. PA has provided adequate pollution abatement measures and online monitoring of emission and Effluent as per the consent orders. **However, there was leakages of bagasse in feeding system, poor dust control at ash collection/ loading etc. PA has been advised to take necessary measures to rectify the issues to which PA has submitted an undertaking to comply with by June, 2019. (Annexure-I)**

- 5 *Only bagasse should be used as a fuel no other fuels should be used.*

Bagasse is used as a fuel during the crushing season **where as about 15 % of coal is used for start up and the same has been permitted by the KSPCB. Since coal is required for start up , PA should get it modified in the EC.**

- 6 *No ground water shall be drawn for the power plant at any stage. Treated effluent shall be used for the sugar cane seed farm/green belt development. There should be no waste water discharge from the plant.*

Reported that the entire water requirement is met from River Malaprabha and there is no bore well. Treated effluent is reused in the plant and gardening purpose.

- 7 *For controlling fugitive dust inside and outside the plant premises and vulnerable areas of the plant and dust extraction and suppression system and water sprinklers shall be ensured.*

Water sprinklers are used for dust suppression at bagasse storage. Mobile water spraying is used for dust control at the roads and other places. **Though water sprinkling is being done at bagasse storage, the height of storage shall be reduced so as to reduce the possibility of air borne dust.**

- 8 *Noise level shall be limited to 75 dBA for people working in high noise area, requisite personal protective equipment like earplugs etc. shall be provided.*

The monitoring reports shows that the ambient noise levels are within the limits. PPEs such as Ear plugs, helmets are provided as protective equipment.

- 9 *Minimum 33% green area should be developed in the project area. Planting should be done with tree density of about 1600 trees per hectare.*

Noted that PA has developed good greenery. Reported that green belt has been developed in an area of 35.5 acres which is 34.07 %.



- 10 The gaseous emission (SO₂, NO_x) and particulate matter from boilers, D.G sets and other processes shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emissions shall exceed the prescribed limit. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation under intimation to the Regional Officer KSPCB and Regional Director (Environment) Department of Ecology and Environment Government of Karnataka ,Belgaum and shall not be restarted until the desired efficiency has been achieved.

Pl refer (i) above.

- 11 Regular monitoring of the air and water quality should be carried out in and around the power plant and records be maintained. Six monthly report shall be submitted to the SEIAA Karnataka, MOEF Regional Office, Bangalore Department of Environment and Ecology ,Karnataka and Regional Director (Environment), Department of Ecology and Environment ,Government of Karnataka, Belgaum

PA carry out Air and Water quality monitoring regularly and as per the monitoring reports, the levels are within the limits. **The SPM and RSPM are slightly less than the norms (SPM-96 against 100 µg/Nm³ RSPM-57 against 60µg/Nm³) This may further be controlled once the ESP is provided to the third boiler and the leakage in the bagasse feeding and ash collection system is arrested (pl refer conditions 1 & 4) above).**

- 12 Adequate number of ground water quality monitoring stations shall be set up around the green belt area. These monitoring stations will be provided with piezometers. The company shall monitor six monthly, the soil and ground water quality in plant and green belt area to ensure that there shall not be ground water pollution and reports submitted to Ministry's Regional office/SPCB/CPCB, Department of Environment and Ecology, Bangalore and the Regional Director (Environment) Department of Ecology and Environment, Government of Karnataka Belgaum.

Piezometers are provided around the compost yard. Ground water and soil quality are monitored regularly. The latest monitoring reports shows no contamination.

- 13 A master plan for social commitment giving details of proposed works /activities and expenditure year wise to be prepared and submitted to SEIAA and shall be implemented strictly.

As per the reports, PA has carried out CSR on education, medical activities and Rs 86,47,967 has been spent towards CSR. PA has submitted proposed CSR activities for next three years with estimate of Rs 55 lakhs. **Annexure-II.**

- 14 The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project.

Paper advertisement was given and copies submitted.

- 15 A separate environment and safety management cell with qualified staff shall be set up before commissioning of construction activities and shall be maintained through out the lifetime of the industry, for implementation of the stipulated environmental safeguard.

To look after the environmental aspects, a Separate environment and safety management cell with qualified staff has been set up.



- 16 *Half yearly report on the status of implementation of the stipulating conditions and environment safeguards shall be submitted to SEIAA/ Regional Office of Ministry of Environment and Forest Bangalore/CPCB/KSPCB/ Department of Environment and Ecology ,Karnataka and Regional Director (Environment) Department of Ecology and Environment Government of Karnataka, Belgaum.*

PA submits half yearly compliance reports regularly.

- 17 *Karnataka SEIAA/Regional office of the Ministry of Environment and Forest located at Bangalore /Department of Environment and Ecology Karnataka and the Regional Director (Environment) Department of Ecology and Environment ,Government of Karnataka ,Belgaum will monitor the implementation of the stipulated conditions .Complete set of Environment Impact Assessment Report and Environment Management Plan along with additional information submitted from time to time shall be forwarded to the Regional office of MOEF Bangalore/Department of Ecology and Environment,Karnataka/SEIAA,Karnataka and the Regional Director (Environment) Department of Ecology and Environment, Government of Karnataka,Belgaum for their use during monitoring.*

Complied.

- 18 *Separate funds should be allocated for implementation of Environmental protection measures along with the item wise brake up .These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year wise expenditure should be reported to the SEIAA, Karnataka, MOEF regional office Bangalore, Department of Environment and Ecology ,Karnataka and Regional Director (Environment) Department of Ecology and Environment Government of Karnataka, Belgaum*

An amount of Rs 274 lakhs been allocated for Environmental Management during the current year.

- 19 *The project authorities should inform the SEIAA, Karnataka /Department of Environment and Ecology, Karnataka Department of Ecology and Environment, Government Of Karnataka, Belgaum/Regional Office of the Ministry of Environment and Forest regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and Commissioning of the plant.*

Complied with.

- 21 *Project proponent should take up specific social commitment made in the letter No.SRSL/Unit-1/Munoli/ECC/08-09 dated 24th June 2008.*

As per the reports, PA has carried out CSR on education, medical activities and Rs 86,47,967 has been spent towards CSR. PA has submitted proposed CSR activities for next three years with estimate of Rs 55 lakhs.



Distillery Unit (60 KLPD) by M/s Renuka Sugars Ltd. at Munoli, Taluk Soundatti, District Belgaum In Karnataka- Environmental Clearance issued vide F.No.J-11011/8/2002 -IA II (I) Dated 19.09.2002

**Sr.
No.**

Specific Conditions and compliance status

- 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.*

According to the latest monitoring report produced during the inspection, the treated effluent and stack emission are meeting the norms stipulated by SPCB. PA informed that since the online monitoring system has been connected with the CPCB & SPCB, any abnormality in pollution control is immediately brought to the notice and rectified.

- 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*

According to PA, they have adopted state of art continuous fermentation technology to reduce the effluent generation at source and hence the 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.*

Noted that the spent wash generated is being utilized for Bio-composting with press mud in an impervious compost yard. The leachate is collected in pond and reused for compost. The moisture in spent wash (> 50 %) and in composted material (>35 %) the dust is contained in the work zone only.

- 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 lagoon of 10500 KL Capacity (29 days capacity), which is less than 30 days capacity.

- 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.*

PA carry out monitoring of the soil and ground water in the compost and project area and no leachate / contamination is noticed.

- vi. *The company should undertake rain water harvesting measures as per action plan submitted to the ministry.*

As part of RWH, PA has provided trenches in plantation area for direct infiltrate in soil and recharge the ground water. **PA has also submitted an undertaking to provide RWH.**



- 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*

Note on compliance of Technical Advisory Committee (TAC) recommendations is attached.

- 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.*

PA has undertaken green belt development and planted Casurina, Eucalyptus, Acacia, Banyan, Almond, Peepal, Cocconut, Mango, Gulmohor, karanji etc. It is reported that the total green belt area is about 10.92 Ha. Further noted that no activity has been carried out in the strip of about 700 m on WS and SW portion towards Malaprapha river.

- 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.*

PA carryout periodical health checkup for employee and maintains records.

GENERAL CONDITIONS

- i. *The project authorities must strictly adhere to the stipulations made by the Karnataka State pollution control Board and State Government*

PA had complied with the conditions of consent order of KSPCB and consent validity is up to 30.06.2021.

- ii. *No further expansion or modification in the plant should be carried out without prior approval of the Ministry of Environment and Forest.*

PA has proposed for expansion and hence applied for the same.

- 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, SO₂, NO_x are anticipated in consultation with the State pollution Control Board.*

PA carryout Ambient Air Quality Monitoring regularly at down wind directions.

- 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 on line monitoring system has been provided and connected to the CPCB/SPCB. Monitoring results shows that the relevant parameters prescribed by State Pollution Control Board are 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)*

According to the monitoring reports, the ambient noise level in and around the plant area is within the norms.

- 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 has been provided.

- 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.*

PA regularly submits six monthly compliance reports along with the monitoring data.

- 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 <http://envfoc.nic.in>. This should be advertised within seven days from the date of issue of the clearance 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.*

The advertisement published in two local news papers.

- 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.



(E.Thirunavukkarasu)
Scientist 'E'

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

To
The Joint Director
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 – 23537184

Date: 22nd Feb 2019

Respected Sir,
Sub: Compliance to the Environmental clearance-reg
Ref: 1) Environmental clearance (Sugar Unit) No: SEIAA :16 :IND 2007 Dated 1st July 2008.
2) Environment Clearance (Distillery Unit) No: F No. J-11011/8/2002-IA II(I) Dated 19.09.2002
3) CFE-EIA/SRSL/EIA-414/2006-07/86 dated 17th June 2006
4) Industry inspection dated 07/02/2019

This has reference to the above subject and above cited references; We would like to submit pointwise compliances as below.

Sr. No	Particulars	Compliance
1	List of staff	1. On-roll a. Permanent- 229 nos Officers 141 nos & Workers 88 nos b. Seasonal permanent Officers 13 Nos & Workers 168 nos 2. Contractor- Officers-41 nos & Workers 267 nos Staff list attached as annexure -1
2	Undertaking for ESP installation to 44 TPH Boiler	Under taking letter attached as annexure-2
3	CSR activities	CSR activities carried out and proposed CER is attached as an annexure-3 .
4	Fund allocated for Environment monitoring	Fund allocation for Environment Monitoring attached-as annexure -4
5	Lagoon storage capacity	Spent wash storage capacity 10500 Cum (Holding time: 29 no. of days)
6	Dust suppression in compost yard	As we are marinating press mud and fly ash with spent wash moisture 50% consistency in composting windrows as a process requirement therefore there is

DESPATCHER
पर्यावरण वन एवं जलवायु परिवर्तन विभाग
Ministry of Environment, Forests & Climate Change
क्षेत्रीय कार्यालय, दक्षिण मंडल
Regional Office, Southern Zone
केन्द्रीय सदन, चौथा मंज, कोरमंगला
Kendriya Sadan, 4th Floor, Koramangala



no dust emission at compost yards. The composted material is also having moisture content of about 35%, the dust will be minimal and confined to work zone only.

7 TAC committee
recommendations and
compliances

While, expanding the distillery capacity during 2005, from 60 KLPD to 120 KLPD RO plant was suggested to reduce the spent wash generation and to keep the pollution load in consistence with 60 KLPD capacities. KSPCB was approached to accord consent to establish. The proposal was appraised by Technical Advisory Committee of KSPCB and permission was given for expansion on 17.06.2006.

Recommendation: The TAC after detailed examination of the process, pollution control systems, existing and proposed and additional other controls, the TAC has opined that, the claim of industry with regard to no increase in pollution load can be accepted.

Compliance: The RO plant was installed for proposed Distillery expansion and is being operated continuously. We are achieving less than 360 KLD spentwash generations from 2006 to 2008. After that new technology multi-effect evaporator is installed in place of RO which is having new version than RO. Consent to operate is accorded by Karnataka State Pollution Control Board. The consent copy is attached as an **annexure -5**.

8 Note on rain water harvesting Note on rain harvesting attached as **annexure -6**

This is for your kind information and perusal please.

Thanking You

Yours' Faithfully

For., Shree Renuka Suagrs Ltd Unit -1 Munoli


Abhaykumar S Khot
General Manager (Works)



Annexure-1
Man power details

On Roll					Job On Contract			Grand Total
Permanent Officers	Permanent Workman	Seasonal Officers	Seasonal Workman	Total	Staff	Workman	Total	
141	88	13	168	410	41	267	308	718



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: SRSU Unit-I /MoEF/Undertaking/ 2018-19

TO,

Date:20th .Feb 2019

The Joint Director

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 – 23537184

Respected Sir,

Sub: Undertaking for installation of ESP to Boiler 44 TPH.

With reference to above subject we M/s Shree Renuka Sugars Ltd Unit –I Munoli, Tq. Savadatti, Dist Belagavi do hereby give the following undertaking:

We Shree Renuka Sugars Ltd Unit –I Munoli are operating wet scrubber as an air pollution control equipment and we further undertake to install ESP for 44 TPH Boiler on or before the start of next season.

This is for your kind information and needful.

Thanking You

Yours faithfully

AbhayKumar S Khot (General Manager Works)

For M/s Shree Renuka sugars Ltd., Munoli



Anneuxre -3
**Earlier Expenses made on CSR Activities by Shree Renuak
Sugars Ltd unit I Munoli Village**

Sr. No.	Particular	Amount in Rs.
1	Education Activities - Schools	21,93,895
2	Education Activities - I T I	
3	Sugar Institute	
4	Sakhar Shala	26,137
5	Scholarship for Students	-
6	Donations	-
7	Dispensary	92,132
8	Medical Camp	-
9	Boys Hostel	-
10	Hitech Diagnostic Centre - Athani	-
11	RO Plant Work	88,499
	Total	24,00,663
	Asset	
12	School Building Construction work	62,47,304
13	Hostel Building Construction	-
12	ITI Building Construction	-
13	Education Complex	-
14	Road & Canall Work	-
	Total	62,47,304
Grand Total		86,47,967

Annexure -3
Proposed CSR activities for next 3 year

SI No	Activity	Detail	Fund allocated in Lakhs
1	Infrastructure creation for drinking water supply and sanitation to ---- village	Providing RO sytem for drinking water for 3 villages. Villages will be decided in consultation with Cane department. However following places can be considered while providing the RO system. 1. Munoli villgae Near Kamma Temple 2. Village Tagahayal 3. The village having immediate impact of our activity.	20
2	Periodical health check up in the nearby villages	Villages immediate to our industry with possible impact of our activity can be selected for periodical health check up.	5
3	Conducting skill development trainings	In skill development training our inplant training can be considered plus trainee we engage in the plant.	5
4	Providing solar power in the nearby villages	Providing the solar lamps at prominent places chowks, bazar area in villages	10
5	Awareness to local farmers to increase the yield of crops and fodder	This awareness programme can be conduted with help of Cane department to increase the cane yield and reduce the cost of cultivation by calling the experts from KSI and VSI.	5
6	Rainwater harvesting in nearby schools	Providing under ground tanks for collecting the rain water from tarrace of the school. Need to provide the sand filter before entering in the tank	5
7	Plantation in the open barren government lands in association with Revenue and Forest Department	large scale plantation drives with help of froest dept. by planting mainly trees like peepal , Banayan, Neem, Jamun, etc.	5
Total			55

Discharge of air emissions under the Air Act:

Sl No	Description of chimney/outlet	Limits specified refer schedule
As per Annexure-III		

The consent is valid for the manufacture of:

Sl. No	Products	Maximum Capacity in KLD
1	White Crystal Sugar by Sugar cane crushing of capacity	75000 TCD
2	Rectified Sprit	120 KLD
3.	Co-generation Plant	35.5 MW
4	Raw sugar refining	1200 TPD

THIS CONSENT IS VALID FOR A PERIOD FROM 01.07.2009 TO 30.06.2010

For and on behalf of the
Karnataka State Pollution Control Board

K. R. Linga
SENIOR ENVIRONMENTAL OFFICER (EIA-I)

✓
To.
The President,
M/s Shree Renuka Sugars Ltd.,
(Unit-I), Sy. No.367/1
Munloi Village, Soundatti Taluk,
Belgaum District.

SCHEDULE

TERMS AND CONDITIONS

(to accompany consent No. PCB 353 HP1 07/2009-10/

Dated:)

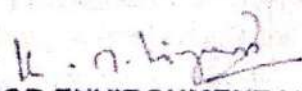
A. TREATMENT AND DISPOSAL OF EFFLUENTS UNDER THE WATER ACT.

I. Treatment & Disposal of Distillery effluent

1. The applicant is permitted to operate the distillery unit for 270 working days.
2. Entire quantity of spent wash shall be concentrated in Falling Film Evaporators and shall be composted using press mud. The compost yard shall conform to the specification as stipulated in the MOEF/CPCB protocol.
3. The applicant shall synchronize the generation of Spent Wash and composting activity in such a way that composting is avoided during rainy season.
4. 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.
5. Storage of spent wash in impervious holding tank shall not be more than 30 days. The applicant shall not store spent wash in unlined lagoons
6. 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.
7. 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 leachate tank. Leachate tank capacity shall be such that it shall hold 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.
8. The applicant shall ensure that the composting activity is carried in a manner as not to cause surface or sub surface water pollution.

Self Monitoring and Reporting by the industry


1. The Applicant shall at his own cost get the samples of bio-methanted spent wash and analyse the same once in 15 days for pH, EC and total volatile solids.


SENIOR ENVIRONMENTAL OFFICER (EIA-I)

2. Monthly extract of daily product manufactured, no. of days of operation & effluent discharge shall be submitted to the Regional Officer regularly every month & once in six months production details duly certified by Excise Superintendent shall be submitted to Regional Office and the Board.
3. The applicant shall analyse finished compost from each cycle for the parameters moisture, organic carbon, P, N, K, and C/N ratio. In addition EC of the water extract of the compost shall also be monitored.
4. The effect of composting operations on ground water quality shall be monitored by analysing samples every six months from five hand pumps about 50 M from the compost yard encircling the entire area.
5. The applicant shall maintain at least 3 water quality stations/hand pumps as background stations at a sufficient distance from the compost yard and shall be monitored every six months.
6. Composting operation shall be stopped immediately on observation of first deterioration in ground water quality.

II Treatment and disposal of trade effluent (From Sugar & Co-generation Plant):

1. 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.
2. The applicant shall ensure that the trade and sewage effluent is treated in the treatment plant constructed as per the flow sheet submitted by the industry to the standards stipulated in **Annexure-II** and the treated effluent shall be utilized as indicated in Page No.1 of this Order.
3. 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.
4. The applicant shall ensure that the waste water generation from sugar unit is less than or equal to 100 lts/ton of cane crushed.
5. The applicant shall provide 15 days storage capacity for treated effluent to take care off no demand for irrigation. The storage tank shall be impervious.
6. The applicant shall provide effluent flow meters to record the effluent quantity discharged.
7. The application of treated effluent for agriculture shall be controlled so as to avoid either flooding of land or ground water contamination.


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8. 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.

Self Monitoring and Reporting by the industry

1. The Applicant shall at his own cost get the trade/Sewage effluent samples collected from the manhole chamber specified in condition II (1) and analyse the same **every month** for the parameters indicated in condition II (2) and shall submit in duplicate the report to the Regional Officer.
2. Monthly extract of daily product manufactured as well as Effluent discharged-sewage/ trade shall be submitted to the Regional Officer regularly every month.

III. Molasses Storage

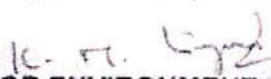
1. (a) The Applicant shall store the Molasses only in steel tanks covered with proper roofing.
(b) Adequate number of steel tank shall be provided for molasses containment. Containment of molasses in earthen pits is not allowed.
2. The Applicant shall obtain permission from the Board to dispose off the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

B. EMISSIONS

1. The discharge of emissions from the premises of the Applicant shall pass through the stacks/chimneys mentioned in **Annexure-III** 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 heights shall be as per **Annexure-III**.
2. The applicant shall operate the Air pollution control equipment as specified in the **Annexure-III** continuously so as to ensure that the emission does not exceed the limits specified.
3. 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.

Self Monitoring and Reporting by the industry

1. The applicant shall at his own cost get the samples of emissions collected and get them analyzed once a month for the parameters indicated in conditions No B (1) from the sampling port holes provided as per condition No. B(3).


SENIOR ENVIRONMENTAL OFFICER (EIA-I)

2. The industry shall take all necessary measures to avoid odour nuisance both from the process and from the effluent handling.
3. The applicants shall carryout the ambient air quality monitoring and submit the report to the Regional Office of the Board. The AAQM stations shall be carried out at 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 parameter, suspended PM, RSPM, sulphur- di - oxide, Nitrogen Oxide, and H₂S. The industry shall furnish both statistically and in graphical format the results once in a year.
4. The applicant shall monitor the noise levels on the periphery of the industry at 5 locations and shall submit the monitoring reports regularly to the Regional Office.

C. ENVIRONMENTAL STATEMENT

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

D. HAZARDOUS WASTE (MANAGEMENT AND HANDLING) RULES 1989 AS AMENDED IN 2003

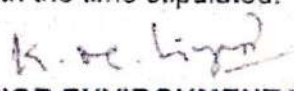
1. The applicant shall comply with the Hazardous Waste (Management and Handling) Rules 1989 as amended in 2003.

E. SOLID WASTE MANAGEMENT

1. The solid waste collected in the Factory premises as sweepings wastage 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.
2. Yeast sludge shall be dewatered using mechanical decanter and dried sludge shall used as manure. Separate log book for the quality of yeast sludge disposed shall be maintained and the same shall be got verified by the RO during inspection.

F. WATER CESS

1. 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.


SENIOR ENVIRONMENTAL OFFICER (EIA-I)

G. GENERAL

1. The Board reserves the right to review, impose additional conditions, revoke, change or alter terms and conditions of this consent.
2. 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.
5. 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.
6. 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
7. The applicant shall not store any raw materials on naked ground.
8. The applicant shall display flow diagram of the pollution control system at the site.
9. The Applicant shall appoint a qualified environmental engineer/scientist for environment management in the factory and also establish an environmental cell.
10. Applicant shall maintain the Environmental Management System in conformity with ISO 14001:2004 standards.
11. The applicant shall comply with the guidelines under Corporate Responsibilities for Environment protection 2003 issued by Ministry of Environmental Forests and CPCB.

K. N. Singh

SENIOR ENVIRONMENTAL OFFICER (EIA-I)

12. The applicant shall continue the self monitoring system for monitoring the effluents and emissions.
13. The 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.
14. An inspection Book shall be opened and made available to the Board Officers during their visit to the factory.
15. 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.
16. The entire premises shall be always kept clean. The effluent holding area, inspection chambers, outlets, flow measuring points should made easily approachable.
17. The applicant shall display the consent granted in a prominent place for perusal of the inspecting officers of the Board.
18. 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.
19. 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.
20. 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.
21. The applicant shall make an application for consent at least 120 days before expiry of this consent.
22. Industry shall comply with all the consent conditions and furnish report within 30 days to the Regional Office.
23. The applicant shall strictly comply with the direction of he personal hearing held on 22.07.2009.


SENIOR ENVIRONMENTAL OFFICER (EIA-I)

ANNEXURE -I
COMPOST QUALITY

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

ANNEXURE - II

Standards for using the treated combined effluent on land for irrigation/greenbelt development

SL. NO.	Parameters	Tolerance limits.
1.	Colour and Odour.	See Note.
2.	Suspended Solids mg/l. Max.	100
3.	Conductivity Micro ohms/cm. max.	2250
4.	pH value.	6.0 – 8.5
5.	Oil and Grease mg/l. Max.	10
6.	Bio-chemical Oxygen Demand, mg/l. (3 days at 27°C) max.	100

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


SENIOR ENVIRONMENTAL OFFICER (EIA-I)

ANNEXURE - III

Chimney	Chimney Attached to	Minimum Chimney Height to be Provided above ground level (AGL)/ roof level (ARL) in m	Rate of emission Nm ³ /Hr.	Constituents 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.	Common Chimney attached to a) 44 TPH Boiler b) 26 TPH Boiler	58.5 M AGL	-	Particulate matter	150	Wet scrubber
2.	Common Chimney attached to a) 50 TPH Boiler b) 100 TPH Boiler	65 M AGL	-	Particulate matter	150	Individual Electrostatic precipitators
3.	1165 KVA DG Set	22 M AGL	-	SO ₂	--	Acoustic measures
4.	500 KVA DG Set	7 M ARL	-	SO ₂	--	Acoustic measures
5.	160 KVA DG Set	5 M ARL	-	SO ₂	--	-do-
Note: The noise levels shall not exceed 75 dB(A) leq. and 70 dB(A) leq. during day time and night time respectively.						

K. M. Singh
SENIOR ENVIRONMENTAL OFFICER (EIA-I)

Anneuxre -6
RAINWATER HARVESTING

Program for Roof top Rain water Harvesting (RTRWH)

Consider

1. Average rainfall – 500mm (from 2006 to 2018)
2. Rain water harvesting factor – 80% of the total precipitation (Rainfall)
3. Yield per sqm – 500 Lit.
4. Harvested water : 80% of 500 = 400 Lit/sqm.
5. Yield per 100 sqm – 40000 Litr.

DATA AVAILABLE

1. Area of Godown no.3 – 3960 sqm
Area of Godown no.4 – 5040 sqm
Area of Godown no.5 – 5940 sqm
Area of Godown no.6 – 5940 sqm
2. Area of godown no. 3 & 4 (Group no. 1) $3960 + 5040 = 9000$ sqm.
3. Area of godown no. 5 & 6 (Group no.2) $5940 + 5940 = 11880$ sqm.

Group – 1 Actual yield

$40000 \times 9000 / 100 = 3600000$ Lit. (3600 Cum)

Group – 2 Actual yield

$40000 \times 11880 / 100 = 4752000$ Lit. (4752 Cum)

Total yield from 4 godowns

$36+47.52 = 83.52$ Lakh lit. (8.352 Million Lit.) (8352 Cum).

TANK (GROUND SUMP) SIZES

Group – 1 (Godown 3&4)

Harvested water : 3600 Cum.

Since rainfall is received in about 6-7 months (May to Nov). we may assume storage capacity to the extent of 10% of the total yield during the year.

Therefore for Group -1 scheme (Godown 3&4), we can construct sump to accommodate 360 Cum (360000 Lit) of water.

Therefore size of sump could be

1. $12\text{m} \times 12\text{m} \times 2.5\text{m} = 360$ Cum
Or $12\text{m} \times 15\text{m} \times 2.0\text{m} = 360$ Cum
Or $15\text{m} \times 15\text{m} \times 1.6\text{m} = 360$ Cum

Adopting alternative sizes (having 2.0m or 1.60m) depends upon the expenses involved in excavation in hard rock because the sump area is found to be rocky strata.

Group – 2 (Godown 5&6)

Harvested water : 4752 Cum

As stated above in group -1,

10% of 4752 is 475.2 Cum

Tank size would be $15\text{m} \times 15\text{m} \times 2.10\text{m} = 472.50\text{ Cum}$

Or $17\text{m} \times 17\text{m} \times 1.85\text{m} = 475.51\text{ Cum}$

Or $14\text{m} \times 14\text{m} \times 2.41\text{m} = 472.50\text{ Cum}$

END-USE OF HARVESTED WATER

Total population of the residents in factory colony is about 700 including floating population.

As per standard norms, we need about 135 Liters per person per day.

Water required per day is $700 \times 135 = 94500\text{ Litre}$

Say 1 lakh Lit/day.

Harvested water is 83.52 lakh litre

Colony people can use harvested water for nearly 83 days i.e. in the entire rainy season.

METHODS OF HARVESTING RAINWATER

1. All the godowns excepting godown no. 5 have square pipe rain water down take pipes.
2. Run 150mm dia non-pressure PVC pipes on both ends and connect all down take pipes to the common collection pipe by making suitable arrangements.
3. Collection pipes can be placed on the wall of open gutter running along the shed.
4. Provide screw drain openings at appropriate places along the collection pipe (face down) for removing clogged materials periodically.
5. The godowns have AC sheet/ CGI sheet roofing and have sufficient slopes on either side. Moreover height of godowns is above the surrounding height of trees. Hence falling of dry leaves is quite remote. At the most, fine dust may accumulate on roof during windy days in summer.

Therefore allow rain water to drain away till the dust on the roof is completely washed away in 2-3 heavy showers.

For this, drain caps may be kept open initially till regular rainfall start.

After ascertaining the quality of water (turbidity less), allow it to enter the sumps by closing the screwed caps.

6. Because of the nature of roof-top (unlike low-level flat RCC slabs), we need not go in for filtering the water.
7. If excavation in hard rock works out costly to create the capacity, we may take levels of (lower side) the corners of sheds and propose site for sump.

If we are to have the tank partially below the ground and partially above the ground, decide the top level of tank and compare it with the lowest levels of godown points so that we can carry water in pipes supported on brick pillars.

8. At every turning point or bend provide screwed caps to take out clogged material, if any.
- 9.

CONSTRUCTION OF SUMPS

1. Since sizes of sumps vary from 12m to 15m, to support the top slab, we may have brick masonry supporting walls (inside the sumps) forming compartments of $3.5\text{m} \times 4.0\text{m}$ size. This will help to reduce reinforcement in slab that reduces the thickness of slab.
2. 300mm x 300mm holes be kept in the walls at the bottom of brick walls so that the tank will act as one component.
3. In one of the compartments, where pump is installed to draw water the bottom level may be kept about 150mm below the average bottom level, so that all water will gush in this compartment for facilitating easy drawl of water.

4. Each compartment should be provided with a man hole with cover to facilitate easy cleaning.
5. If the height of sump above ground level is more than 1.50m, batter walls in triangular shape be constructed (outside) to give support to the walls.
6. Initially work can be executed for collecting roof-top water in respect of godown no. 3,4&6 till downtake pipes are fixed for godown no.5.
7. For godown 5, 100mm dia PVC pipes may be used as down take pipes instead of square metal down take pipes.
8. Estimate may be prepared based on the extent of work involved i.e. after fixing position of sumps, length of pipe line, installation of pump and motors, construction of small pump house to cover the motor etc.

SURFACE WATER AND GROUNDWATER RECHARGING

Large quantity of storm water is generated during rainy days. Rain water collection and harvesting plan is implemented to conserve the water resources and to improve the underground water table. The factory area is segregated into different premises for effective management of storm water. Storm water gutters are designed and constructed based on contour data of the premise and rainfall data of the region. Total land area of the project is 104.18 acres of which green belt is 35.44 acre, built up area is 54.88 acre including paved area and roads. Vacant land is 13.86 acres. The cane yard, Bagasse yard and press mud yard contain solid matter. Necessary measures are taken to control the quality of the storm water. Therefore these premises are isolated with garland channels. The floorings are suitably compacted to minimize percolation to avoid ground water contamination.

STORM WATER

Storm water gutters are constructed in the premise as per the standards. The storm water drains are led to rain water reservoirs constructed at the lowest level of the premises. The rain water thus collected is used for greenery development in the industry. It can also be used as a source of water for the industry. The storm water collected from different locations of the factory premise is estimated as given below.

There are two numbers of Rain water storage tanks of following specifications are constructed in earthen work as per standard practices.

Reservoirs	Capacity in m ³	Average storage height in m	Size in m
Tank 1	128	2	8 x 8 x 2
Tank 2	120	2.5	6 x 8 x 2.5

Ref: SRS/RO/MoEF&CC/Comp/2019-20/

Date:29/07/2019

To,
The Additional Director
Government of India Ministry of Environment ,Forest& Climate Change
Regional office (Southern Zone)
Kendriya Sadan 4th Floor E& F wings
17th Main Road ,2nd Block koramangala ,
Bangalore -560034 ,Ph : 08023537018

13/8/19
DESPATCHER

पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय
Ministry of Environment, Forests & Climate Change
क्षेत्रीय कार्यालय, दक्षिण वलय
Regional Office, Southern Zone
केन्द्रीय सदन, चौथा तल, कोरमंगला
Kendriya Sadan, 4th Floor, Koramangala
Bengaluru-560 034



Respected Sir

Sub: Submission of compliance report.

- Ref 1. EC No F.No.J-11011/8/2002 -IA II (I) Dated 19.09.2002
2. EC. No :SEIAA:16 IND::2007 Dated :01.07.2008
3. Certified compliance No. EP/SEIAA/12.1/99/KAR; Dated 18/03/2019

This has reference to the above subject and above cited reference; we would like to submit point wise compliance as below.

Sr. No	Conditions	Compliance
1	PA has been advised to provide or connect the third boiler with ESP. PA has submitted an undertaking to provide ESP for the 44 TPH boiler the start of next crushing season by October ,2019.	The quotations from ESP suppliers are received and negotiations with suppliers are in progress for installation ESP.
2	There was leakage of bagasse in feeding system and, poor dust control at ash collection / loading etc. PA has been advice to take necessary measures to rectify the issues to which PA has agreed to comply with by June-2019 and submitted an undertaking.	The leakages of bagasse in the feeding system as well as ash collection point are arrested. All leaking sheets are replaced with new one and also provided water sprinkler system at ash collection points to suppress the dust emission. The photographs of Ash collection point and Bagasse feeding system is attached as <i>Annexure 1.</i>
3	Though water sprinkling is being done at bagasse storage, the height of storage shall be reduced so as to reduce the possibility of air borne dust.	The stored bagasse height is reduced to reduce air borne dust. The photographs of Bagasse yard is attached as <i>Annexure 2.</i>

4	As a part of RWH, PA has provided trenches in plantation area for direct infiltrate in soil and recharge the ground water. PA has also submitted an undertaking to provide RWH.	A roof top Rain Water Harvesting system is provided for Godown's. The photographs of rain water harvesting system is attached as <i>Annexure - 3</i>
7	Whereas about 15% of coal is used for startup and the same as been permitted by the KSPCB. Since coal is required for startup, PA should get it modified in the EC.	The Coal is used @15% only that is also during startup as an auxiliary fuel as per general conditions. However we will get modified EC shortly.
8	PA has submitted proposed CSR activities for next three years with estimate of Rs. 55 lakhs.	Proposed CSR activities for next three years and activities to be attended during current year with estimate is attached as <i>Annexure -4.</i>

This is for your kind information and perusal please

Thanking You

Yours Faithfully

For Shree Renuka Sugars Ltd Unit I, Munoli


Abhaykumar S Khot
General Manager (Works)

Encl: Annexure 1 to 4



Annexure 1.



Bagasse Carrier Belt covered by hood to avoid the fugitive dust



Ash Cylo shed Damed Sheet is replaced (Collection Point)

Bagasse Carrier Damed Belt is replaced



Bagasse Carrier Damed Belt is replaced



Annexure 2.



Now The Bagasse storege height is Normal & Thick Plantation Made Surrounding Baggasse yard



Annexure- 3

Godowon's Roof Top Rain Water Harvesting System



RWH Collection Tank



RWH Collection Tank -II





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: SRSI/EIA/2018-19/

Date: 01/06/2019

To,
The Member Secretary
SEIAA Karnataka,
(Ecology and environment) Dept of forest ecology and environment,
Government of Karnataka,
Room no 709,7th floor 4th gate MS building,
Bangalore 56001.

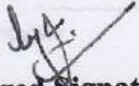
Sub: Action Plan with activities proposed under CER
Ref : 167th SEIAA proceedings. Dated: 4th May 2019.

With reference to the above subject; we would like submit our action plan with activities for proposed project under Corporate Environment Responsibility in accordance with MoEFCC OM no 22-65/2017-IA.III dated 1st May 2018.

The cost of expansion of project is Rs. 18.78 Crore. As per the above referred OM, as this is a brown field proposal the fund allocation for CER the and Rs 50 Lakh has been earmarked for various CER activities. The Corporate Environmental Responsibility activity and fund allocation with implementation schedule is enclosed for your kind reference.

Thanking You

Yours' Faithfully
For Shree Renuka Sugars Ltd Unit I, Munoli


Authorized Signatory.



Corporate Environmental Responsibility activity and fund allocation with implementation schedule

Sl No.	Activity	Detail	Fund allocated in Rs. Lakh.			Total allocation in Rs. lakh
			FY 19	FY 20	FY 21	
1	Infrastructure creation for drinking water supply and sanitation to villages	Providing RO system for drinking water for 3 villages. Following villages are considered for providing the RO system. 1. Munoli, 2. Tagahayal	6.5	6.5	7.0	20
2	Periodical health check-up in the nearby villages	Health checkup will be carried out in the nearby villages	1.5	1.5	2.0	5
3	Conducting skill development trainings	Villagers will be trained for; 1. Sheep rearing 2. Agarbathi making 3. Candle making 4. Tailoring 5. Tractor repair 6. Improved agriculture practice	2.0	1.5	1.5	5
4	Providing solar power in the nearby villages	Providing the solar lamps at prominent places, bazar area in villages etc.	3.5	3.5	3.0	10
5	Awareness to local farmers to increase the yield of crops and fodder	This awareness programme can be conducted with help of Cane department to increase the cane yield and reduce the cost of cultivation by involving the experts from KSI and VSI.	1.0	1.0	0.5	2.5
6	Rainwater harvesting in nearby schools	Providing underground tanks for collecting the rain water from terrace of the school.	2.0	1.5	1.5	5
7	Plantation in the open barren Government lands in association with Revenue and Forest Department	Large scale plantation drives with help of Forest Dept.	1.0	1.0	0.5	2.5
		Total				Rs. 50 Lakh



ABHAYKUMAR. S. KHOT