



# Shree Renuka Sugars Ltd., Unit IV

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Ref: SRSL/Unit – IV/EC-Comp/Oct 2021- Mar 22

Date: 11.05.2022

To,

**The regional officer  
Ministry of Environment, Forest and Climate Change,  
Regional Office (SZ),  
Kendriya Sadan, 4th Floor,  
E&F Wings, 17th Main Road,  
Koramangala II Block,  
Bangalore — 560034**

Sub: Environment Clearance compliance report submission for the period of October – 2021 to March – 2022.

Ref: EC ID no - EC21A022KA110816, File No: J-11011/980/2007-IA II (I), dated: 08.10.21.

Dear sir,

This has reference to the EC granted by MoEF&CC for our industry Shree Renuka Sugars Ltd, Unit – IV Athani. Accordingly the point wise compliance report pertaining to the period of October 2021 – March 2022 along with respective annexures towards the conditions stipulated in the EC letter is being submitted for your perusal.

This is for your kind consideration and do the needful please.

Thanking you,

  
Authorized signatory



Shree Renuka Sugars Ltd, Unit – IV, Athani

**SHREE RENUKA SUGARS LTD, UNIT – IV, ATHANI.**



Compliance report

For

Environment Clearance

**Environment Clearance at a glance**

- 1. EC Identification No.** : EC21A022KA110816, Dated 08/10/2021
- 2. File No.** : J-11011/980/2007-IA II (I)
- 3. Project Type** : Expansion
- 4. Category** : A
- 5. Project/Activity including**  
**Schedule No.** : 5(g) Distilleries
- 6. Name of Project** : M/s. Shree Renuka Sugars Limited, proposed expansion of Integrated  
Sugar and distillery under EBP scheme.
- 7. Name of Company/Organization** : M/S. SHREE RENUKA SUGARS LIMITED, UNIT – IV ATHANI.
- 8. Location of Project** : Karnataka.

**Six monthly (October 2021 – March 2022) compliance to the conditions of Environmental Clearance for Sugar Plant Expansion from 10,000 TCD to 15,000 TCD and Distillery Plant Expansion from 300 KLPD to 600 KLPD.**

Sr No	EC Conditions	Compliance towards conditins stipulated
02	The Ministry of Environment, Forest and Climate Change has examined the project for Expansion of integrated Sugar and Distillery unit under EBP Scheme by M/s. Shree Renuka Sugars Limited located at survey No. 377, Burlatti Village, Athani Taluk, Belagavi District, Karnataka	Noted
03	All Sugar industries and Distillery projects are listed at S. Nos. 5 (g) & (j) of Schedule of Environment Impact Assessment (EIA) and as per as per the EIA Notification 2006 and amendment vide Notification S.O 2339(E) dated 16.06.2021 the proposal is to be appraised as B2 category and appraised at Central Level by Expert Appraisal Committee (EAC) with condition that the project proponent shall file a notarized affidavit that ethanol produced from proposed project shall be used completely for EBP Programme	Noted
04	Standard ToR and public Hearing conduction is not applicable as the project falls under category B2 as per OM dated 2nd March, 2021& 16th June, 2021. It was informed that no litigation is pending against the project	Noted
05	Ministry had issued Environment Clearances earlier vide letter No. J-11011/980/2007-IA II (I) dated 23.10.2008 for expansion of Sugarcane crushing capacity from 5000 TCD to 10000TCD, Co-generation power plant from 38 MW to 58 MW & Molasses based Distillery from 120 KLPD to 300 KLPD; Prior EC from MoEF&CC for enhancement of Co-gen plant from 58 MW to 68 MW vide EC Letter No. J-13012/92/2011-IA II (T) dated 20.08.2014 Further, KSPCB has issued addendum to existing CFO for enhancement of production of ethanol capacity from 300 KLPD to 450 KLPD in existing 300 KLPD Distillery plant by changing the raw material by using B-Heavy Molasses, Sugar cane juice/syrup under no increase in pollution load as per the MoEF&CC notification S.O. No. 804 (E) dated 23.11.2016 and S.O. No. 236 (E) dated 16.01.2020 in favour of M/s. Shree Renuka Sugars Limited., (unit -IV)	Noted

06		Particulars	Existing Capacity	Proposed Expansion Capacity	After Expansion total capacity	Presently operations are us under.  <ul style="list-style-type: none"><li>Sugarcane crushing capacity of 10000 TCD</li><li>Co generation 68 MWH</li><li>Distillery 450 KLD (under NIPL scheme). KSPCB has issued addendum to existing CFO for enhancement of production of ethanol capacity from 300 KLPD to 450 KLPD in existing 300 KLPD Distillery plant by changing the raw material by using B-Heavy Molasses, Sugar cane juice/syrup under no increase in pollution load as per the MoEF&amp;CC notification S.O. No. 804 (E) dated 23.11.2016 and S.O. No. 236 (E) dated 16.01.2020.</li><li>Consent for estabilshement (Ref: CTE-329723, dtd:10.02.2022 is obtained for proposed said exapsnion from SPCB.</li></ul>
	Sugar plant expansion					
	Crushing capacity in TCD	10000	5000	15000		
	CO-Gen	68	-	68		
	Distillery expansion					
	Particulars	Existing capacity in KLD	Proposed expansion in KLD	After expansion total capacity in KLD		
	Distillery plant	300 KLPD	300 KLPD	600 KLPD		
	Ethanol production configuration	300 KLPD using C heavy molasses  Or  450 KLPD using B heavy molasses / syrup		450 KLPD using C heavy molasses  Or  675 KLPD using B heavy molasses  Or  900 KLPD using sugarcane juice / syrup		
07	Existingland area of Sugar, Co-gen and distillery unit is 942918 m <sup>2</sup> , the proposed expansion will be within the existing industry premises. Industry has already developed greenbelt in an area of 33 % i.e., 311608m <sup>2</sup> out of total area of the project 942918 m <sup>2</sup> .The					We are expanding project in existing land only, and already we have developed 33% of green belt. The total capital cost and recurring cost earmarked towards environmental pollution control measures is attached as <b>Annexure -01</b>

	estimated project cost is Rs. 1191.1 Crores including existing investment of Rs. 892.9 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 240.57 Crores and the Recurring cost (operation and maintenance) will be about Rs. 4.35 Crores per annum. Total Employment will be 706 persons, out of this the direct employment is 386 persons & indirect is 320 persons after expansion. Industry proposes to allocate Rs. 1.0 Crores towards CER.											
08	There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wild life Corridors etc. within 10 km distance from the project site. River Krishna is flowing at a distance of 11km in South of the industry	Such places are not around the factory. Krishna river at the distance of 11 km at south side of industry.										
09	Baseline ambient air quality monitoring is not carried out since the project is to be appraised as B2 category as per the Notification of MoEF & CC S.O 2339(E) dated 16.06.2021. However, ambient air quality monitoring is carried out by the industry as per the conditions of the Consent issued by KSPCB. The monitoring data during February 2021 indicate PM <sub>10</sub> is 84.71µg/m <sup>3</sup> , PM <sub>2.5</sub> is 45.63 µg/m <sup>3</sup> , SO <sub>2</sub> is 5.99 µg/m <sup>3</sup> and NO <sub>x</sub> is 0.64 µg/m <sup>3</sup>	Noted										
10	<p>Total water requirement is as under;</p> <p>Freshwater is met from Krishna River located at about 11 km in southern direction from project site. (Permission to draw 46.6 mcft or 5500 KLD, is obtained from Karnataka Neeravari Nigam Limited, Government of Karnataka). A. Total water requirements for Sugar, Co-gen plant and Domestic use Freshwater and recycle water requirement for Sugar and co-generation plant</p> <table border="1"><thead><tr><th>Particulars</th><th colspan="2">Fresh water</th><th>Recycled water in KLD</th><th>Total water requirement in KLD</th></tr></thead><tbody><tr><td></td><td>In KLD</td><td>KL/KL of</td><td></td><td></td></tr></tbody></table>	Particulars	Fresh water		Recycled water in KLD	Total water requirement in KLD		In KLD	KL/KL of			The total fresh water required for proposed project for sugar and co-gen plant will be 480 KLD . The remaining water will be reused from existing sugar CPU for sugar utility and co-gen cooling tower make up as mentioned in Table. The fresh water is lifted from Krishna river. We have obtained the permission for lifting the fresh water from Karnataka Neeravari Nigam Limited, Government of Karnataka. The permission letter is attached as <b>Annexure -02</b> .
Particulars	Fresh water		Recycled water in KLD	Total water requirement in KLD								
	In KLD	KL/KL of										

		sugar cane crushed		
A. Water requirement in sugar plant				
Existing 10000 TCD plant	0	0	720	720
After expansion 15000 TCD	0	0	920	920
Water requirement by 68 MW cogen	480	0.03	1920	2400
Domestic				80

B. Water requirement in distillery

Particulars	Fresh water		Recycled water in KLD	Total water requirement in KLD
	In KLD	KL/KL of ethanol		
300 KLPD Ethanol with C- Heavy Molasses (Existing)	1776	5.92	2961	4737
450 KLPD Ethanol with C- Heavy	1978	4.39	5017	6993

The fresh water required for Distillery plant will be max. 1978 KLD and remaining water will be reused from Distillery CPU and RO plant. About 245 KLD fresh water will be required for Incineration Boiler 75 TPH.

Molasses (Proposed)				
675 KLPD Ethanol with B- Heavy Molasses (Proposed)	1761 2.60 4971 6732	2.60	4971	6732
900 KLPD Ethanol with Cane syrup (Proposed)	1670	1.65	5229	6802
Incineration Boiler -75 TPH	245	-	-	245

A. wastewater generated from the Sugar, Co-gen plant and domestic sewage is as in the table below.

Sl No	Wastewater generation	Quantity in KLD			Treatment & disposal
		Existing	Proposed	Total (After expansion)	
A	Trade effluent				
<b>1</b>	<b>Sugar plant</b>				
i	Washing, cleaning and leakages from machineries	400	100	500	Treated in existing ETP capacity 1200 KLD and disposal

The existing waste water generation from sugar plant and CO-gen plant are 720 KLD and 270 KLD respectively and after expansion will be 175 from sugar plant. The existing and proposed waste water will be treated in Existing ETP. The ETP capacity is 1200 KLD.

The generated existing and proposed excess sugar condensate will be treated in Sugar CPU (Capacity 3600 KLD) and same treated water will be reused for Sugar Plant utility and Co-gen cooling tower make up.

As per amendmend EC (F.No J-11011/980 /2007- IIA II (I) dtd: 27.12.2021) the existing and proposed spent wash is treated



						for on land irrigation
ii	Sugar cooling tower bleed	320	75	395		
2	<b>Cogen</b>					
	WTP reject	100	-	100		
	Boiler and cooling tower bleed	170	-	170		
	Total	990	175	1165		
	Surplus condensate	2640	750	3390		Treated in existing sugar CPU of capacity 3600 KLD and reused in cooling tower and sugarcane syrup/ molasses dilution.
3	Domestic sewage	45	27	72		Treated in Septic tank, disposed through soak pit at present. Proposed to install 100 KLD capacity STP.

in two streams:

The first stream of raw spent wash 76.5% is concentrated in FEE and MEE and concentrated spent wash slop is incinerated in incineration boiler.

In the second stream raw spent wash 23.5% is treated in bio- digester, concentrated in MEE and followed by production of organic manure. The Amendmend EC copy is attached as an **Annexure -03**

B. wastewater generated from the distillery plant is as in the table below

SI No	Process Route	Waste water generation in KLD				Treatment & Disposal
		300 KLD	450 KLD	675 KLD	900 KLD	
		C-heavy		BH	CJ	
A	Spent wash					
1	Total spentwash generation	3000	3992	2632	2723	The spent wash is treated in two streams: The first stream of raw spent wash 76.5% is concentrated in FEE and MEE and concentrate spent wash / slop is incinerated in incineration boiler. In the second stream raw spent wash

							23.5% is treated in biodigester, concentrated in MEE and composted.
2	Treatment & Disposal						
A	After Concentration in FFE & MEE and incinerate in Incineration Boiler (@ 60 Brix)	502	675	470	208		
	Bio-digester followed by evaporation in MEE and Biocomposting	208	282	182	184		
B	Other process effluents					The spent lees and condensate from FEE and MEE is treated in CPU. The treated water from CPU is partially recycled for molasses dilution and	

The spent lees and condensate from FE and FFE is treated in CPU. The treated water from CPU is partially recycle for molasses dilution and rest is used for cooling tower makeup.

The cooling tower bleed and blow down from incineration boiler and water treatment plant reject are treated in RO plant. The treated permeate is recycled to cooling tower. The RO reject is taken back to MEE.

								rest is used for cooling tower makeup.		
								The cooling tower bleed and blow down from incineration boiler and water treatment plant reject is treated in RO plant. The treated permeate is recycled to cooling tower. The RO rejects is taken back to MEE.		
		1	Spent lees	336	504	756	1008			
		2	Condensate from FEE & MEE	2455	3235	2155	2551			
			Grand Total	2791	3739	2911	3559			
		C	Other lean effluents							
		1	Cooling tower bleed	215	300	300	300			

2	CPU reject	350	400	300	367	
3	WTP reject & Boiler blowdown	120	120	120	120	
	Total	685	820	720	787	

The spent wash from the distillery with respect to per KL of ethanol produced is as in the table below.

SI No	Raw material	Spentwash generation and disposal KL/KL of ethanol			
		C- Mol 300 KL	C- Mol 450 KL	BH – Mol 675 KL	CJ – 900 KL
	Raw spent wash Generation KL/KL	10.0	8.87	3.89	3.02
	After treatment spent wash disposal	2.36	2.12	0.96	0.43

11 Power requirement after expansion will be 23.5 MW to the Sugar, Co-gen and Distillery unit and will be met from co-generation power plant. Existing industry has

There is no co-gen plant expansion. The power requirement for existing and proposed expansion will be met from existing CO-gen plant -68 MW.

1 No. 1165 kVA, 2 Nos. 1010 kVA and 250 kVA capacity DG sets. Stack of 30 m AGL and 6 m ARL height is provided as per CPCB norms to the DG sets.

Existing Air Pollution sources and control measure details are as under

Sl No	Stack attached to	Fuel	APC equipment
1	130 TPH (Sugar )	Bagasse	ESP and chimney of height – 85 m AGL
2	140 TPH Cogen	Bagasse + Biogas	ESP and chimney of height – 75 m AGL
3	75 TPH Incineration boiler	Slop and bagasse or coal	Bag filter and chimney of height 85 m above GL
4	1165 KVA DG	HSD	Acaustic enclosure with 30 AGL each
5	2*1010 KVA DG		
6	250 KVA DG		Stack of height 6m above roof and acaustics

Four DG set are provided to operate during in case emergency. For Boiler 130 TPH ESP with 85 M AGL stack is provided, 140 TPH Boiler ESO with 75 M AGL stack is provided and for inineration Boiler 75 TPH Bag filter with 85 M AGL stack is provided. For all DG sets individual acaustic enclosures with 30 M AGL stacks are provided. Analysis reports at **Annexure - 04**

12 Details of process emissions generation and its management:  
During fermentation 864 TPD of CO<sub>2</sub> is estimated to be released from 900 KLPD ethanol production. CO<sub>2</sub> will be collected and use for dry ice making by leasing out the facility.

Noted and will be complied

13 Details of Solid waste/Hazardous waste generation and its management:  
Solid waste and its management

The existing and proposed expansion Bagasse is used as fuel in Boilers.  
Pressmud is utilized as raw material for production organic

**Sugar Plant:**

Bagasse: (MT/day)

Existing – 3000

Proposed – 1500

Total after expansion – 4500

Utilization: Utilized as fuel in Boilers

Press mud: (MT/day)

Existing – 400

Proposed – 200

Total after expansion – 600

Utilization: Utilized as raw material for organic manure

ETP sludge: (MT/day)

Existing – 0.5

Proposed – 0.2

Total after expansion – 0.7

Utilization: Mixed with Press mud and used in compost

**1. Cogen:**

Ash: (MT/day)

Existing – 26.7

Proposed – 0

Total after expansion – 26.7

Utilization: Mixed with Press mud and used in compost

**2. Distillery:**

Yeast sludge: (MT/day)

manure.

ETP sludge is mixed with pressmud and utilized for production of organic manure.

Ash generated from Co-gen Boilers and incineration is mixed with pressmud and utilized for production of organic manure.

Yeast sludge is mixed with pressmud and utilized for manure.

Existing – 0.6  
Proposed – 0.3  
Total after expansion – 0.9  
Utilization: Mixed with Press mud and used in compost

Incinerated ash: (MT/day)  
Existing – 102  
Proposed – 30  
Total after expansion – 132  
Utilization: Mixed with Press mud and used in compost as well as supply to farmers as potash rich source for land application/ brick mfg

#### **Hazardous waste generation and its management**

##### **Sugar plant:**

Waste category: 5.1  
HW generated: Used Oil  
Quantity: 1.0 KL/A  
Method of handling: Stored in leak proof containers in secure manner and handed over to KSPCB authorized re-processors/ incinerator.

Waste category: 5.2  
HW generated: Wastes Residues Containing Oil  
Quantity: 0.1 MT/A  
Method of handling: Stored in leak proof containers in secure manner and handed over to KSPCB authorized re-processors/ incinerator.

##### **Distillery plant:**

Noted and is being handled in specified manner and is being handed over to KSPCB authorized vendors.



	<p>Waste category: 5.1  HW generated: Used Oil  Quantity: 0.5 KL/A  Method of handling: Stored in leak proof containers in secure manner and handed over to KSPCB authorized re-processors/ incinerator.</p> <p>Waste category: 5.2  HW generated: Wastes Residues Containing Oil  Quantity: 0.01 MT/A  Method of handling: Stored in leak proof containers in secure manner and handed over to KSPCB authorized re-processors/ incinerator.</p>	
14	Joint Director of MoEF&CC, Regional Office, Bangalore has visited the project site on 25.06.2021. CCR is issued. Bangalore RO, MoEF&CC has issued certified compliance report for the project vide File No. EP/12.1/554/KAR/341 dated 03.08.2021 and Status of compliance is 'Satisfactory'.	Noted
15	During deliberation, EAC suggested that the CER fund is too low and desired that it shall be increased to Rs. 3.0 Crores. It shall be used for harvest solar energy and supply it to villages, infrastructure and skill development programs in Govt. schools located in nearby villages and medical facility for villagers in the nearby villages. Rainwater harvesting capacity shall be increased and it shall meet 90 days of freshwater requirement of the industry. PP agreed for the above and affidavit submitted to the Ministry. Further, EAC directed freshwater requirement shall not exceed 4 kL water/kL ethanol produced and bio composting shall not be allowed.	Noted the condition and will be implemented Rs. 3.0 crs for harvest solar energy and supply it to villages, infrastructure and skill development programs in Govt. schools located in nearby villages and medical facility for villagers in the nearby villages. The rain water harvesting will be implemented for storage 90 days fresh water requirement of the factory. We will be maintained fresh water requirement 4 KL/Kl of ethanol production.

16	As per OM dated 16th June, 2021, PP has submitted self-certification in the form of affidavit declaring that the proposed expansion of 300 KLPD will be for manufacturing of fuel ethanol only.	Noted and will be followed.
17	The proposal was considered by the EAC in its 40th meeting held on 14th - 16th September, 2021 in the Ministry, wherein the project proponent and their consultant M/s. Samrakshan, presented the case under B2 category. The Committee recommended the project for grant of environmental clearance.	Noted
18	The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with the EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.	Noted and will be followed.
19	The Committee noted that the EMP report is in compliance of the PFR. The Committee deliberated on the CER plan and found to be addressing the issues in the study area. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.	Noted and will be followed.
20	The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.	Noted and will be followed.
21	Based on the proposal submitted by the project proponent and	

recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for Expansion of integrated Sugar and Distillery unit under EBP Scheme by M/s. Shree Renuka Sugars Limited located at survey No. 377, Burlatti Village, Athani Taluk, Belagavi District, Karnataka, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

**A Specific Condition:**

- i. As per OM dated 16th June, 2021, project falls in category B2 and the proposed expansion of 300 KLPD shall only be used for fuel ethanol manufacturing as per self-certification in form of an affidavit by the Project Proponent. Provided that subsequently if it is found that the ethanol, produced based on the EC granted as per this dispensation, is not being used completely for EBP Programme, or if ethanol is not being produced, or if the said distillery is not fulfilling the requirements based on which the project has been appraised as category B2 project, the EC shall stand cancelled.
- ii. The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- iii. The project proponent will treat and reuse the treated water within the integrated industry and no waste or treated water shall be discharged outside the premises.
- iv. Total fresh water requirement for the industry shall not exceed 4 kL water/kL ethanol which shall be met from Karnataka Neeravari Nigam Limited. Industry shall meet 90 days of fresh water requirement by utilizing rain water harvested. Prior permission shall be obtained from the

Noted and will be followed

Noted and will be followed

Noted and will be followed

Noted and will be followed

	concerned regulatory authority/Irrigation division in this regard, and renewed from time to time. No ground water recharge shall be permitted within the premises.	
v.	The spent wash/other concentrates shall be treated by concentration followed by incineration. No bio-composting shall be allowed for existing and proposed/expansion project.	Noted and will be followed
vi.	CO2 generated from the process shall be bottled/made solid ice and utilized/sold to authorized vendors.	Noted and will be followed
vii.	Occupational Health Centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.	Noted and will be followed
viii.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.	Noted and will be followed
ix.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Noted and will be followed
x.	Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.	Noted and will be followed
xi.	The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling	

	<p>to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.</p>	Noted and will be followed
xii.	The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.	An area of 33.9 % has been covered as green belt in the premises. <b>Annex - 05</b>
xiii.	The CER fund of Rs. 3.0 Crore shall be used for harvesting solar energy and supply it to villages, infrastructure and skill development programs in Govt. schools located in nearby villages and medical facility for villagers in the nearby villages.	Noted and is being followed.
xiv.	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products as per CPCB norms and no parking to be allowed outside on public places.	<p>Agreed. The area earmarked are as under:</p> <ul style="list-style-type: none"> <li>• Parking of vehicles: Near Main gate</li> <li>• Raw material sugar cane: Cane yard</li> <li>• Finished product storage: Near cane yard</li> </ul> <p>Molasses is being stored in 3 nos molasses storage tanks of capacity 10000 MT each. Small quantity of bagasse is being stored in bagasse yard which is provided with mechanical water sprinkling system in order to avoid fugitive emission.</p>
xv.	Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	Online monitoring systems have already been installed and connected to CPCB and SPCB servers as per the directions.

xvi. Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

xvii. A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

**B General conditions**

i. No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

ii. The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.

iii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards

Industry has separate Environment management cell along with well equipped laboratory. **Annex - 06**

Noted and will be followed

LED based bulbs are being used at most of the locations.

Agreed and is being followed

Noted and will be followed

	<p>prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).</p> <p>iv. The company shall undertake all relevant measures for improving the socioeconomic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.</p> <p>v. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.</p> <p>vi. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.</p> <p>vii. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&amp;CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.</p>	<p>The capital cost and recurring cost earmarked for pollution control measures is mentioned as <b>Annex - 01</b></p> <p>Noted and has been done</p> <p>Noted and will be done</p> <p>Noted and will be done</p>
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	<p>viii. The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&amp;CC by e-mail.</p> <p>ix. The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a>. This shall 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 shall be forwarded to the concerned Regional Office of the Ministry.</p> <p>x. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.</p> <p>xi. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.</p>	<p>Noted and has been done</p> <p>Noted and will be followed</p>
22	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.	Noted
23	Concealing factual data or submission of false/fabricated data and	We have not concealed information/data while getting the EC.



	failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	
24	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted
25	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, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.	Noted
26	This issues with the approval of the competent authority.	Noted

**ANNEXURE 1****BUDGET FOR MONITORING AND PROCUREMENT SCHEDULE**

Budget for monitoring and procurement details is given in below Table

Sl. No.	Application	Budget towards EMP, Rupees in Crores	
1.0	Capital Investment (both sugar, co-gen and distillery)		
		Existing	Proposed
1.1	Air pollution control facilities (ESP, Chimney, ESP and ash handling)	27.5	-
1.1.a	Providing STP for treatment of sewage from the factory	-	0.5
1.2	Waste water treatment facilities - Establishment of ETP & FEE, MEE, Incineration boiler, CPUs, RO system, Compost & management of Solid waste	186.9	Integrated Evaporators & 01 additional calendria for MEE and CPU Aeration tank and additional tertiary units- 23.0
1.3	Noise pollution control	0.1	
1.3	Green belt	0.285	0.21
1.4	Laboratory and monitoring facilities	0.15	-
1.5	Online monitoring system	0.12	0.05
1.6	Occupational Health & safety	0.60	0.5
1.7	Rain water harvesting	0.41	0.25
	Total	216.06	24.51
2.0	Recurring Cost of Operation and Maintenance in Crs		
	Air pollution control	0.43	-
	Water pollution control	2.85	1.0
	Monitoring cost	0.035	0.01
	Maintenance and calibration of online monitors	0.015	0.01
	Total	3.33	1.02



## ಕರ್ನಾಟಕ ಸರ್ಕಾರ

ಸಂಖ್ಯೆ: ಜಸಂಇ 13 ಹಿಅಯೋ 2018

ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಚಿವಾಲಯ,  
ವಿಕಾಸ ಸೌಧ,  
ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 07.09.2020.

### ಇವರಿಂದ :

ಸರ್ಕಾರದ ಪ್ರಧಾನ ಕಾರ್ಯದರ್ಶಿಗಳು,  
ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆ,  
ವಿಕಾಸಸೌಧ,  
ಬೆಂಗಳೂರು - 560001.

### ಇವರಿಗೆ:

✓ ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು,  
ಕರ್ನಾಟಕ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ,  
ಕಾಫಿ ಬೋರ್ಡ್ ಕಟ್ಟಡ,  
ಬೆಂಗಳೂರು - 560001.

ಮಾನ್ಯರೇ,

ವಿಷಯ: ಮೆ|| ಶ್ರೀ ರೇಣುಕಾ ಶುಗರ್ಸ್ ಲಿಮಿಟೆಡ್, ಯುನಿಟ್-4 ಬುರ್ಲಟ್ಟಿ  
(ಕೋಕಟನೂರು), ಅಥಣಿ ತಾಲ್ಲೂಕು, ಬೆಳಗಾವಿ ಸಂಸ್ಥೆಗೆ ಕೃಷ್ಣಾ ನದಿಯಿಂದ  
ವಾರ್ಷಿಕ 46.60 ಎಂಪಿಎಫ್‌ಟಿ ನೀರೆತ್ತಿ ಉಪಯೋಗಿಸಲು ದಿ: 07.05.2018  
ರಿಂದ 06.05.2023ರ ವರೆಗೆ ಐದು ವರ್ಷಗಳ ಅವಧಿಗೆ ಪರವಾನಗಿ  
ನವೀಕರಿಸುವ ಬಗ್ಗೆ.

- ಉಲ್ಲೇಖ: 1. ಸರ್ಕಾರದ ಪತ್ರ ಸಂಖ್ಯೆ: ಜಸಂಇ 109 ಡಬ್ಲ್ಯೂಬಿಎಂ 2006,  
ದಿನಾಂಕ: 11.05.2007  
2. ಸರ್ಕಾರ ಪತ್ರ ಸಂಖ್ಯೆ: ಸರ್ಕಾರಿ ಪತ್ರ ಸಂಖ್ಯೆ: ಜಸಂಇ 109 ಡಬ್ಲ್ಯೂಬಿಎಂ  
2006, ದಿನಾಂಕ: 07.05.2008  
3. ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕನೀನಿ ಇವರ ಪತ್ರ ಸಂಖ್ಯೆ: ಕನೀನಿ/  
ತಾಂತ್ರಿಕ/ಟಿಜಿಸಿ/1234/2018-19/0807, ದಿನಾಂಕ: 29.05.2018.  
4. ದಿನಾಂಕ: 22.03.2019ರಂದು ಸರ್ಕಾರದ ಪ್ರಧಾನ ಕಾರ್ಯದರ್ಶಿ,  
ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆ ರವರ ಅಧ್ಯಕ್ಷತೆಯಲ್ಲಿ ನಡೆದ ಕೈಗಾರಿಕೆಗಳಿಗಾಗಿ  
ನೀರಿನ ಹಂಚಿಕೆ ಕುರಿತು ಪರಿಶೀಲಿಸುವ ಸಮಿತಿಯ ಸಭೆಯ ನಡವಳಿ.

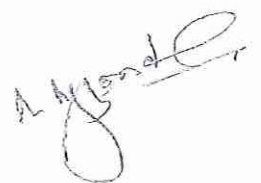
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ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಉಲ್ಲೇಖ (1)ರ ಪತ್ರದಲ್ಲಿ ಶ್ರೀ ರೇಣುಕಾ ಶುಗರ್ಸ್ ಲಿಮಿಟೆಡ್, ಯುನಿಟ್-4 ಬುರ್ಲಟ್ಟಿ (ಕೋಕಟನೂರು), ಅಥಣಿ ತಾಲ್ಲೂಕು, ಬೆಳಗಾವಿ ಜಿಲ್ಲೆ ಸಂಸ್ಥೆಗೆ ದಿನಂ ಪ್ರತಿ 1500 ಘ.ಮೀ ನೀರನ್ನು ಕೃಷ್ಣಾ ನದಿಯಿಂದ ಶಿರಹಟ್ಟಿ ಬಳಿ ಎತ್ತಿ ಉಪಯೋಗಿಸಲು 10 ವರ್ಷದ ಅವಧಿಗೆ ಅನುಮತಿ ನೀಡಲಾಗಿತ್ತು. ತದನಂತರ ಸರ್ಕಾರದ ಉಲ್ಲೇಖ (2)ರ ಪತ್ರದಲ್ಲಿ ಸದರಿ ಸಂಸ್ಥೆಗೆ ದಿನಂ ಪ್ರತಿ 5500 ಘ.ಮೀ. ನೀರನ್ನು ಜುಲೈ ತಿಂಗಳಿನಿಂದ ಫೆಬ್ರವರಿ ತಿಂಗಳ ವರೆಗೆ ಮಾತ್ರ ಒಟ್ಟು 46.6 ಎಂ.ಪಿ.ಎಫ್‌ಟಿ ಮೀರದಂತೆ ಅವರಕೋಡ್ ಗ್ರಾಮದ ಬಳಿ ಕೃಷ್ಣಾ ನದಿಯಲ್ಲಿ ಹಿಪ್ಪರಗಿ ಯೋಜನೆಯ ಮೇಲ್ದಾರಿದಿಂದ ನೀರನ್ನು ಎತ್ತಿ ಉಪಯೋಗಿಸಲು 10 ವರ್ಷದ ಅವಧಿಗೆ ಅನುಮತಿ ನೀಡಲಾಗಿತ್ತು. ಈಗ ಉಲ್ಲೇಖ (3)ರ ಪತ್ರದಲ್ಲಿ ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕರ್ನಾಟಕ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ, ರವರು ಸದರಿ ಸಂಸ್ಥೆಗೆ ಪರವಾನಿಗೆಯನ್ನು 07.05.2018 ರಿಂದ 10 ವರ್ಷಗಳ ಅವಧಿಗೆ ನವೀಕರಿಸುವ ಪ್ರಸ್ತಾವನೆ ಸಲ್ಲಿಸಿರುತ್ತಾರೆ.

ಈ ಕುರಿತಂತೆ ಕೈಗಾರಿಕೆಗಳಿಗಾಗಿ ನೀರಿನ ಹಂಚಿಕೆ ಕುರಿತು ಪರಿಶೀಲಿಸುವ ಸಮಿತಿಯು ಉಲ್ಲೇಖ (2) ನಡವಳಿಯಲ್ಲಿ ಶಿಫಾರಸ್ಸು ಮಾಡಿರುವಂತೆ ಮೇ|| ಶ್ರೀ ರೇಣುಕಾ ಶುಗರ್ಸ್ ಲಿಮಿಟೆಡ್ ಕಾರ್ಖಾನೆಗೆ ಕೃಷ್ಣಾ ನದಿಯಿಂದ ಅವರಕೋಡ್ ಗ್ರಾಮದ ಬಳಿ ಹಿಪ್ಪರಗಿ ಯೋಜನೆಯ ಮೇಲ್ಭಾಗದಿಂದ ಪ್ರತಿದಿನ 5500 ಘ.ಮೀ (46.60 ಎಂಸಿಎಫ್‌ಟಿ) ನೀರನ್ನೆತ್ತಿ ಮಳೆಗಾಲದ ಅವಧಿಯಲ್ಲಿ ಕಂಪನಿಯವರು ತಮ್ಮದೇ ಆದ ಸ್ವಂತ ಸ್ಥಳದಲ್ಲಿ ನೀರನ್ನು ಸಂಗ್ರಹಿಸಿ ಮಳೆಗಾಲವಲ್ಲದ (Non Monsoon requirement) ಅವಧಿಯಲ್ಲಿ ಉಪಯೋಗಿಸಿಕೊಳ್ಳುವ ನಿಬಂಧನೆ ಹಾಗೂ ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆಯಿಂದ ವಿಧಿಸಲಾಗುವ ಈ ಕೆಳಕಂಡ ಷರತ್ತುಗಳಿಗೊಳಪಟ್ಟು, 5 ವರ್ಷಗಳ ಅವಧಿಗೆ ಅಂದರೆ ದಿನಾಂಕ: 07.05.2018 ರಿಂದ 06.05.2023ರ ವರೆಗೆ ಪರವಾನಗಿ ನವೀಕರಣದ ಪ್ರಸ್ತಾವನೆಗೆ ಅನುಮೋದನೆ ನೀಡಲಾಗಿದೆ ಎಂದು ತಮಗೆ ತಿಳಿಸಲು ನಿರ್ದೇಶಿತನಾಗಿದ್ದೇನೆ.

ಷರತ್ತುಗಳು

1.	ಮೇ. ಶ್ರೀ ರೇಣುಕಾ ಶುಗರ್ಸ್ ಲಿಮಿಟೆಡ್ ಲಿಮಿಟೆಡ್, ಯುನಿಟ್-4 ಬುರ್ಲಟ್ಟಿ (ಕೊಟನೂರ), ಅಥಣಿ ತಾಲ್ಲೂಕು, ಬೆಳಗಾವಿ ಜಿಲ್ಲೆ ಸಂಸ್ಥೆಗೆ ಕೃಷ್ಣಾ ನದಿಯಿಂದ ವಾರ್ಷಿಕ 46.60 ಎಂಸಿಎಫ್‌ಟಿ ನೀರನ್ನು ಎತ್ತಿ ತಮ್ಮ ಕಾರ್ಖಾನೆಯ ಅವರಣದಲ್ಲಿ ಸ್ವಂತ ಖರ್ಚಿನಲ್ಲಿ ನೀರಿನ ಶೇಖರಣೆ ವ್ಯವಸ್ಥೆ ಮಾಡಿಕೊಂಡು ಶೇಖರಿಸಿಕೊಂಡ ನೀರನ್ನು ಬಳಸಿಕೊಳ್ಳುವುದು.
2.	ನದಿಯಲ್ಲಿ ನೀರು ಲಭ್ಯವಿಲ್ಲದ ಸಂದರ್ಭದಲ್ಲಿ ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆಯು/ನಿಗಮವು ಜವಾಬ್ದಾರಿಯಾಗುವುದಿಲ್ಲ.
3.	ಕೈಗಾರಿಕೆಯ ಉದ್ದೇಶಿತ ನೀರೆತ್ತುವ ಯೋಜನೆಯ ಮೇಲ್ಭಾಗದಲ್ಲಿ ಇನ್ನಾವುದೇ ಯೋಜನೆ/ಯೋಜನೆಗಳು ಮುಂದೆ ಅನುಷ್ಠಾನಗೊಂಡಲ್ಲಿ ಮತ್ತು ಅದರಿಂದಾಗಿ ನೀರಿನ ಲಭ್ಯತೆಯು ಕಡಿಮೆಯಾದಲ್ಲಿ, ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆ/ನಿಗಮವು ಇದಕ್ಕೆ ಜವಾಬ್ದಾರರಲ್ಲ ಮತ್ತು ಕಾರ್ಖಾನೆ/ಸಂಸ್ಥೆಗೆ ಸರ್ಕಾರ/ನಿಗಮದಿಂದ ಯಾವುದೇ ಪರಿಹಾರ ಧನ ನೀಡಲಾಗುವುದಿಲ್ಲ.
4.	ನೀರನ್ನು ಬಳಸಿಕೊಳ್ಳುವ ಬಗ್ಗೆ ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆ/ನಿಗಮದ ಅಧಿಕಾರಿಗಳಿಂದ ಸೂಕ್ತ ಮಾಪನ ಮಾಡಿಸಿಕೊಳ್ಳತಕ್ಕದ್ದು ಮತ್ತು ಬಳಸುವ ನೀರಿಗೆ ಕಾಲಕಾಲಕ್ಕೆ ನಿಗದಿಪಡಿಸುವ ದರಗಳಿಗೆ ಅನುಗುಣವಾಗಿ ನೀರಿನ ಕರವನ್ನು ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆ/ನಿಗಮಕ್ಕೆ ಕಾರ್ಖಾನೆಯು ಪಾವತಿಸತಕ್ಕದ್ದು ಮತ್ತು ಸರ್ಕಾರದಿಂದ ನಿಗದಿಪಡಿಸುವ ಸೇವಾ ಶುಲ್ಕ ಅಥವಾ ಯಾವುದೇ ಇತರೆ ಯಾವುದೇ ಕರವನ್ನು ಕಾರ್ಖಾನೆಯು ಪಾವತಿಸತಕ್ಕದ್ದು.
5.	ಈ ಯೋಜನೆಯಡಿ ಬಳಸುವ ನೀರಿನ ಪ್ರಮಾಣ, ವೇಳೆ ಮತ್ತು ಅವಧಿಯನ್ನು ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆ/ ನಿಗಮದಿಂದ ಖಚಿತಪಡಿಸಿಕೊಳ್ಳತಕ್ಕದ್ದು.
6.	ಈ ಯೋಜನೆಯ ಕೆಳಭಾಗದಲ್ಲಿ ಬರುವ ಜಮೀನುಗಳ ನೀರಾವರಿ ಸೌಲಭ್ಯಕ್ಕೆ, ಕುಡಿಯುವ ನೀರಿನ ಯೋಜನೆಗಳಿಗೆ ಮತ್ತು ಇನ್ನಾವುದೇ ಚಾಲ್ತಿಯಲ್ಲಿರುವ ನೀರಿನ ಬಳಕೆಗಳಿಗೆ ಯಾವುದೇ ತೊಂದರೆಯಾಗದಂತೆ ಎಚ್ಚರವಹಿಸತಕ್ಕದ್ದು. ಯಾವುದೇ ಸಮಯದಲ್ಲಿ ಯೋಜನೆಯ ಕೆಳಭಾಗದಲ್ಲಿ ಯಾವುದೇ ಉಪಯೋಗಕ್ಕಾಗಿ ನೀರು ಬೇಕಾದಲ್ಲಿ, ಸರ್ಕಾರವು ಅಥವಾ ಅದರ ಪ್ರತಿನಿಧಿಯು/ನಿಗಮವು ಆದೇಶಿಸುವಂತೆ ಕಾರ್ಖಾನೆ/ಸಂಸ್ಥೆಯು ನೀರೆತ್ತುವ ಸ್ಥಳದಿಂದ ಭಾಗಶಃ ಅಥವಾ ಎಲ್ಲಾ ನೀರನ್ನು ಯಾವುದೇ ಷರತ್ತಿಲ್ಲದೆ ಕೆಳಗೆ ಬಿಡತಕ್ಕದ್ದು.
7.	ಪರವಾನಗಿಯು ಆದೇಶ ಹೊರಡಿಸಿದ ದಿನಾಂಕದಿಂದ ಮುಂದಿನ 5 ವರ್ಷಗಳವರೆಗೆ ಚಾಲ್ತಿಯಲ್ಲಿರುತ್ತದೆ. ತದ ನಂತರದ ಅವಧಿಗೆ ಅವಶ್ಯವಿದ್ದಲ್ಲಿ ಪರವಾನಗಿಯನ್ನು ನವೀಕರಿಸಿಕೊಳ್ಳತಕ್ಕದ್ದು.





8.	ಈ 5 ವರ್ಷಗಳೊಳಗಾಗಿ ಯಾವುದೇ ಸಮಸ್ಯೆ ಉದ್ಭವಿಸಿದಲ್ಲಿ ಯಾವುದೇ ಕಾರಣಗಳನ್ನು ನೀಡದೆ, ಸರ್ಕಾರವು ಅಥವಾ ಅದರ ಪ್ರತಿನಿಧಿಯು ಈ ಪರವಾನಗಿಯನ್ನು ರದ್ದುಪಡಿಸಬಹುದಾಗಿದೆ.
9.	ಕೃಷ್ಣಾ ನ್ಯಾಯಾಧಿಕರಣ- II ರ ಮುಂದುವರೆದ ಆದೇಶ ದಿನಾಂಕ 29.11.2013ರಂತೆ, ರಾಜ್ಯವು ಬಳಸಬಹುದಾದ ಒಟ್ಟಾರೆ ನೀರಿನ ಹಂಚಿಕೆಯನ್ವಯ ಸಂಬಂಧಿತ ಕಾರ್ಯಕ್ಷೇತ್ರದ / ವಲಯದ ಮುಖ್ಯ ಇಂಜಿನಿಯರ್‌ರವರು ನೀರಿನ ಹಂಚಿಕೆ ಮತ್ತು ಬಳಕೆ ಕುರಿತಂತೆ ಪ್ರಸ್ತುತ ಬಳಕೆಯಾಗುತ್ತಿರುವ/ಬಳಕೆಯಾಗದಿರುವ ನೀರಿನ ಪ್ರಮಾಣದ ಲೆಕ್ಕಚಾರವನ್ನು ಮಾಡಿಕೊಂಡು ನೀರಾವರಿ, ಕುಡಿಯುವ ನೀರು, ಕೈಗಾರಿಕೆ ಹಾಗೂ ಇತರ ವಲಯ ನೀರಿನ ಬಳಕೆಯ ಪ್ರಮಾಣವು ನ್ಯಾಯಾಧಿಕರಣವು ವಿಧಿಸಿರುವ ಮಿತಿಯೊಳಗೆ ಇರುವ ಬಗ್ಗೆ ಕಾರ್ಯಕ್ಷೇತ್ರದ ಮುಖ್ಯ ಇಂಜಿನಿಯರ್‌ರವರು ಖಾತರಿಪಡಿಸಿಕೊಳ್ಳುವುದು.
10.	ಕಾರ್ಖಾನೆಯವರು ತಮ್ಮ ಉದ್ದೇಶಿತ ಯೋಜನೆಗೆ ಹೊಂದಿರುವ 19 ಎಕರೆ ಪ್ರದೇಶದಲ್ಲಿ ಸೂಕ್ತವಾದ ಸ್ಥಳಗಳಲ್ಲಿ Rainwater Harvesting Method ಮುಖಾಂತರ ಮಳೆಕೊಯ್ಲುನ್ನು ಮಾಡಲು ಮತ್ತು ಇಂಗು ಗುಂಡಿಗಳನ್ನು ನಿರ್ಮಿಸಿ ಅಂತರ್ಜಲ ಮರುಪೂರಣೆ ಮಾಡುವ ಮುಖಾಂತರ Borewell ನೀರನ್ನು ಸಹ ಬಳಸುವುದು.
11.	ಕಾರ್ಖಾನೆಯವರು ಬಳಸಿದ ನೀರನ್ನು ಸೂಕ್ತವಾದ ವಿಧಾನದಿಂದ ಮರು ಸಂಸ್ಕರಣೆ ಮಾಡಿ ಸಂಸ್ಕರಿಸಿದ ನೀರನ್ನು ಮರು ಬಳಸುವುದು.
12.	ಸೂಕ್ತ ಆಧುನಿಕ ತಂತ್ರಜ್ಞಾನವನ್ನು ಕಾರ್ಖಾನೆಯ ಉತ್ಪಾದನೆಯಲ್ಲಿ ಅಳವಡಿಸಿಕೊಂಡು ಬಳಸುವುದರ ಮೂಲಕ ನೀರಿನ ಬಳಕೆ ಪ್ರಮಾಣವನ್ನು ಕಡಿಮೆ ಮಾಡುವುದು.
13.	ಉದ್ದೇಶಿತ ಯೋಜನೆಗೆ ಅವಶ್ಯವಿರುವ ಅನುಮತಿಯನ್ನು KSPCB ಇಲಾಖೆಯಿಂದ (Karnataka State Pollution Control Board) ಪಡೆಯುವುದು.
14.	ಕಾರ್ಖಾನೆಯವರು ಬಳಸುವ ನೀರಿನ ಪ್ರಮಾಣವನ್ನು ಲೆಕ್ಕ ಮಾಡಲು ಜಾಕ್‌ವೆಲ್ ಬಳಿ Bulkflow meter ನ್ನು ಕಡ್ಡಾಯವಾಗಿ ಅಳವಡಿಸತಕ್ಕದ್ದು, ಸದರಿ Bulkflow meter ನ್ನು ಪ್ರತಿ ವರ್ಷ calibration ಮಾಡಿಸಿ, calibration ಪ್ರಮಾಣ ಪತ್ರಗಳನ್ನು ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆಯ ಕರಾರು ಪ್ರಾಧಿಕಾರಕ್ಕೆ ಕಡ್ಡಾಯವಾಗಿ ಒದಗಿಸತಕ್ಕದ್ದು ಮತ್ತು ಪ್ರತಿ ದಿನದ ಹಾಗೂ ತಿಂಗಳುವಾರು ನೀರಿನ ಬಳಕೆಯ ಪ್ರಮಾಣದ ವಿವರಗಳನ್ನು ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆಯ ಕರಾರು ಪ್ರಾಧಿಕಾರಕ್ಕೆ ಸಲ್ಲಿಸತಕ್ಕದ್ದು.
15.	ಸದರಿ ನೀರಿನ ಬಳಕೆಯ ಸಂದರ್ಭದಲ್ಲಿ ಯಾವುದೇ ವಿವಾದಗಳು ಉಂಟಾದಲ್ಲಿ ಅದಕ್ಕೆ ಸಂಬಂಧಿಸಿದ ಸಂಪೂರ್ಣ ವೆಚ್ಚಗಳನ್ನು ಕಾರ್ಖಾನೆ/ಸಂಸ್ಥೆಯೇ ಭರಿಸತಕ್ಕದ್ದು ಮತ್ತು ವಿವಾದದ ಕುರಿತು ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆಯ ತೀರ್ಮಾನವೇ ಅಂತಿಮ.
16.	ಕೋ-ಜನರೇಶನ್ ಪ್ಲಾಂಟ್‌ನಿಂದ ಉತ್ಪತ್ತಿ ಮಾಡಲಾಗುವ ವಿದ್ಯುತ್‌ನ್ನು ಕಡ್ಡಾಯವಾಗಿ ಕೆ.ಪಿ.ಟಿ.ಸಿ.ಎಲ್ ನ ಗ್ರಿಡ್‌ಗೆ ನೀಡಬೇಕು.
17.	The industry consuming water conveyed through pipe lines shall ensure drinking water to the en route villages, where ever required.
18.	Integrated use of water in all the units of the factory should be adopted and savings should be achieved and accounted for.
19.	The industry should have its own water re-cycling system and rain water harvesting system and thereby conserve water to the maximum possible extent so as to make use of the same, by adapting zero discharge methods as far as possible.

20.	The proponents of the industry shall train local people and provide employment to these trained local youth and comply with the Government policy of employment to local people as per the Dr.Sarojini Mahishi report and Industrial Policy of the State.
21.	The industry should obtain necessary clearances as per the guidelines prescribed by the Ministry of Environment and Forest and the Pollution Control Board.
22.	The industry shall undertake re-cycling of water to minimize usage of fresh water. After usage, the water should be treated as per pollution control norms, before letting it into the main river/stream.
23.	In view of the constant Research & Developments, the industry should regularly upgrade the industry/plant by adapting the latest technologies for economizing the use of water and reduce its utilisation of water in its industry/unit as much as possible.
24.	Water current meter, Water meter calibration ವಿವರ ಹಾಗೂ ಸಂಬಂಧಿಸಿದ Water consumption Log Registerಅನ್ನು ಅಳವಡಿಸಿಕೊಂಡಿರುವ ಬಗ್ಗೆ ಮತ್ತು ಬಳಸಿದ ಪ್ರಮಾಣಕ್ಕೆ ಅನುಗುಣವಾಗಿ ನೀರಿನ ಶುಲ್ಕವನ್ನು ಪಾವತಿಸಿರುವ ಬಗ್ಗೆ ಮಾಹಿತಿ ಒದಗಿಸುವುದು.
25.	ಮೇಲ್ಕಂಡ ಎಲ್ಲಾ ಷರತ್ತುಗಳನ್ನು ಹಾಗೂ ಇತರೇ ಯಾವುದೇ ಅಗತ್ಯ ಷರತ್ತುಗಳನ್ನೊಳಗೊಂಡ ಒಡಂಬಡಿಕೆಯನ್ನು ಸದರಿ ಕಾರ್ಖಾನೆ/ ಸಂಸ್ಥೆಯು ಮಾಡಿಕೊಳ್ಳತಕ್ಕದ್ದು ಮತ್ತು ಕಾರ್ಖಾನೆ/ಸಂಸ್ಥೆಯು ಅಗತ್ಯ ಮುಚ್ಚಳಿಕೆಯನ್ನು ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರಿಗೆ ಬರೆದುಕೊಡಬೇಕು.
26.	ಮೇಲಿನ ಯಾವುದೇ ಷರತ್ತುಗಳನ್ನು ಉಲ್ಲಂಘಿಸಿದಲ್ಲಿ, ಈ ಅನುಮತಿಯನ್ನು ಯಾವುದೇ ಮುನ್ಸೂಚನೆ ನೀಡದೆ, ಯಾವುದೇ ವೇಳೆಯಲ್ಲಿ ರದ್ದುಪಡಿಸುವ ಅಧಿಕಾರವನ್ನು ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆಯು ಹೊಂದಿರುತ್ತದೆ.

ತಮ್ಮ ವಿಶ್ವಾಸಿ,

(ರವೀಂದ್ರ ಕೊಂಡ) 7/9/2020

ವಿಶೇಷ ಕರ್ತವ್ಯಾಧಿಕಾರಿ (ತಾಂತ್ರಿಕ-4) (ಪ್ರ)

ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆ

7/9/2020





**By Speed Post/Online**

**F. No. J-11011/980/2007-IA II (I)**  
**Government of India**  
**Ministry of Environment, Forest & Climate Change**  
Impact Assessment Division

\*\*\*

Indira Paryavaran Bhawan,  
Jal Wing, 3<sup>rd</sup> Floor, Aliganj,  
Jor Bagh Road, New Delhi-110 003

Dated: 27<sup>th</sup> December, 2021

To,

**M/s. Shree Renuka Sugars Limited,**  
Survey No. 377, Burlatti Village, Athani Taluk,  
Belagavi District, Karnataka

**Sub: Expansion of integrated Sugar and Distillery unit under EBP Scheme by M/s. Shree Renuka Sugars Limited located at survey No. 377, Burlatti Village, Athani Taluk, Belagavi District, Karnataka - Amendment in Environmental Clearance regarding.**

Sir,

This refers to your online proposal No. IA/KA/IND2/239643/2021 dated 19<sup>th</sup> November, 2021 for amendment in the environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has considered the above proposal for amendment in the environmental clearance granted by the Ministry vide letter F. No. J-11011/980/2007-IA II (I) dated 08.10.2021 for the project expansion of Sugar plant from 10000 TCD to 15000 TCD and Distillery capacity to enhance the production of Ethanol from 300 KLPD to 900 KLPD located at No. 377, Burlatti Village, Athani Taluk, Belagavi District, Karnataka State in favour of M/s. Shree Renuka Sugars Limited.

3. The project proponent has requested for amendment in the EC with the details are as under.

Sl. No.	Para of EC issued by MoEF & CC	Details as per the EC	To be revised/ read as	Justification/reasons
1.	EC Specific Condition point no. (V), page 11 of 15 the EC vide letter no. J-	The spent wash /other concentrates shall be treated by	The spent wash/ other concentrates shall be treated by	The press mud from sugar plant has very good organic and plant nutritional value.

31/12



	11011/980/2007-IA II (I) dated 08.10.2021 issued by MoEF & CC.	concentration followed by incineration. No bio-composting shall be allowed for existing and proposed/expansion project	concentration followed by incineration. 23.5 % of total spent wash after bio-methanation and concentrated should be used for organic manure preparation using press mud, yeast sludge and ash from incineration boiler	It requires to be properly treated and disposed. The best way is to convert press mud to organic manure using concentrated distillery spent wash preceded with bio-digester and MEE. SRSL is an integrated sugar and distillery complex, it has advantage in organic manure preparation and to give it to the cane suppliers/farmers. Use of organic manure reduces the ill effect due to use of chemical fertilizer and it enriches the soil fertility. As per the earlier EC/CFO the industry has already established composting facility by investing Rs. 1090 Lakhs towards making the compost yard of 24 acres impervious by geo-synthetic lining, RCC and has procured allied facilities for organic manure preparation as per CPCB guidelines.
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4. During deliberations, EAC directed PP that spent wash shall not be stored for more than 5 days.

31-2



5. The proposal was appraised by the Expert Appraisal Committee (Industry-2) in the Ministry in its 45<sup>th</sup> meeting held on 29-30<sup>th</sup> November, 2021. The EAC, after detailed deliberations, recommended the amendment in EC as proposed by the project proponent. Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval to the proposed amendments in the environmental clearance dated 08.10.2021 as stated in para 3 above, for the project **Expansion of integrated Sugar and Distillery unit under EBP Scheme by M/s. Shree Renuka Sugars Limited located at survey No. 377, Burlatti Village, Athani Taluk, Belagavi District, Karnataka.**

6. All other terms and conditions stipulated in the environmental clearance dated 08.10.2021 shall remain unchanged.

7. This issues with approval of the competent authority.

*Ashok Kr. Pateshwary*  
27/12/2021

**(Ashok Kr. Pateshwary)**  
**Director**

**Copy to: -**

1. The Secretary, Department of Forest, Environment & Ecology, Government of Karnataka, Room No. 708, Gate 2, Multi Storey Building, Dr. Ambedkar Veedhi, Bangalore - 1
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wings, 17<sup>th</sup> Main Road, Koramangala II Block, Bangalore - 34
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 32
4. The Member Secretary, Karnataka State Pollution Control Board, Parisara Bhavan, #49, 4<sup>th</sup> & 5<sup>th</sup> Floor, Church Street, Bangalore -1
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
6. The District Collector, District Belagavi, Karnataka
7. Guard File/Monitoring File/Parivesh portal/Record File

*Ashok Kr. Pateshwary*  
27/12/2021

**(Ashok Kr. Pateshwary)**  
**Director**

**E-mail: ak.pateshwary@gov.in**  
**Tel. No. 24695290**



# MSV Analytical Laboratories

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

(Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, ISO 9001-2015)

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

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

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



MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000006914F

Issued Date: 12.03.2022

1. Name of the Project : M/s. Shree Renuka Sugars Ltd.,  
Village: Burlatti(Kokatnur), Tq: Athani,  
Dist: Belgaum
2. Name of the location : 140 TPH Boiler
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sample collected : Stack Sampler
5. Date of Sample Receipt : 09.03.2022
6. Analysis Starting Date : 10.03.2022
7. Analysis Completion Date : 12.03.2022
8. Sample Tested as Received

### GENERAL DETAILS

Date of Monitoring	09.03.2022
Fuel Used	Bagasse
Stack Temperature (°C)	134
Velocity (m/s)	7.96
Height (m)	75
Diameter (m)	3.2

### RESULTS

PARAMETERS	PROTOCOL	UNIT	RESULT	KSPCB STANDARDS
Particulate Matter	IS-11255(Part 1) - 1985	mg/Nm <sup>3</sup>	137.9	150
Sulphur dioxide	IS-11255(Part 2) - 1985	mg/Nm <sup>3</sup>	12.85	-
Nitrogen dioxide	IS-11255(Part 7) - 2005	mg/Nm <sup>3</sup>	29.01	-

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

Verified by

*Ramey*

Authorized Signature

*Long*



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

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

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

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

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





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

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



TC-7207

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000006915F

Issued Date: 12.03.2022

1. Name of the Project : M/s. Shree Renuka Sugars Ltd.,  
Village: Burlatti(Kokatnur), Tq: Athani,  
Dist: Belgaum
2. Name of the location : 130 TPH Boiler
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sample collected : Stack Sampler
5. Date of Sample Receipt : 09.03.2022
6. Analysis Starting Date : 10.03.2022
7. Analysis Completion Date : 12.03.2022
8. Sample Tested as Received

### GENERAL DETAILS

Date of Monitoring	09.03.2022
Fuel Used	Bagasse
Stack Temperature (°C)	139
Velocity (m/s)	6.10
Height (m)	85
Diameter (m)	6.2

### RESULTS

PARAMETERS	PROTOCOL	UNIT	RESULT	KSPCB STANDARDS
Particulate Matter	IS-11255(Part 1) - 1985	mg/Nm <sup>3</sup>	122.6	150
Sulphur dioxide	IS-11255(Part 2) - 1985	mg/Nm <sup>3</sup>	13.50	-
Nitrogen dioxide	IS-11255(Part 7) - 2005	mg/Nm <sup>3</sup>	29.71	-

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

Verified by

*Ramey*

Authorized Signature

*Ramey*



END OF REPORT

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

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

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

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

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



# MSV Analytical Laboratories

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

(Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, ISO 9001-2015)

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TC-7207

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000006916F

Issued Date: 12.03.2022

1. Name of the Project : M/s. Shree Renuka Sugars Ltd.,  
Village: Burlatti(Kokatnur), Tq: Athani,  
Dist: Belgaum
2. Name of the location : 75 TPH Boiler
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sample collected : Stack Sampler
5. Date of Sample Receipt : 08.03.2022
6. Analysis Starting Date : 09.03.2022
7. Analysis Completion Date : 12.03.2022
8. Sample Tested as Received

### GENERAL DETAILS

Date of Monitoring	08.03.2022
Fuel Used	Spent Wash Concentrated
Stack Temperature (°C)	136
Velocity (m/s)	7.98
Height (m)	82
Diameter (m)	2.8

### RESULTS

PARAMETERS	PROTOCOL	UNIT	RESULT	KSPCB STANDARDS
Particulate Matter	IS-11255(Part 1) - 1985	mg/Nm <sup>3</sup>	110.6	150
Sulphur dioxide	IS-11255(Part 2) - 1985	mg/Nm <sup>3</sup>	11.72	-
Nitrogen dioxide	IS-11255(Part 7) - 2005	mg/Nm <sup>3</sup>	24.08	-

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

Authorized Signature  
*himgar*



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

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

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## 14. General EMP

### 3.14.1 Greenbelt Belt Development

Development of greenbelt in and around industrial activity is an effective way to check pollutants and their dispersion in to surrounding areas. The degree of pollution attenuation by a greenbelt depends on its height and width, foliage surface area, density, dry deposition, velocity of pollutants and the average wind speed through the green belt. The main objective of green belt around the factory is:

- Preventing land degradation and erosion of topsoil
- Containment of pollution in the industrial environment, capturing of fugitive emissions if any and thereby improving the quality of the surrounding environment
- Substantially reducing the adverse environmental impacts due to the proposed industrial activity
- Serving as a barrier for attenuating the intensity of noise generated
- Adding aesthetic value to the project area.

Keeping in view the soil and availability of water in and around the industry, the topography of land; green belt is developed in the industrial complex. Out of 233 acres of the integrated sugar plant and distillery complex. 33 % i.e., 77 Acres (31.16 hectares) is earmarked for the greenbelt development. Number of trees to be planted for an area of 31.16 hectares is 34276 number at the rate of 1100 trees per hectares as per guidelines. Number of trees planted is 27446, additional 6830 Nos. is proposed to be planted.

The plants exhibiting the following desirable characteristics are selected for plantation;

- Local species are selected and planted.
- The species are fast growing and providing optimum permeability.
- The species are wind-firm and deep rooted.
- The species has dense canopy.
- Species tolerance to air pollutants are preferred
- The green belt has enhanced the aesthetic of the area as there are good number of flowering trees.
- Fruit bearing trees are planted as it will attract the birds.
- Sustainable green cover with minimal maintenance.
- Medicinal plants are also planted

The tree species planted in the existing Sugar, Co-gen and Distillery complex are as under shown in Table 3.13 and details of Green Belt Development (Number of Trees Planted) is given in Table 3.14. Existing greenbelt photographs is shown in Figure 3.11.

**Table 3.13: Tree species planted in existing sugar, co-gen and distillery complex**

Sl. No.	Particulars	Unit/No.s/Tree name
1	Total Extent Land (acres)	233
2	Built up area (acres)	141
3	Vacant land (acres)	15

4	Plantation Done in Acres (acres)	77
5	Total No. s of trees planted	27446 numbers
6	Name of tree Planted	<ul style="list-style-type: none"> <li>• <i>Acacia dealbata</i>,</li> <li>• <i>Mangifera indica</i>,</li> <li>• <i>Eucalyptus</i>,</li> <li>• <i>Delonix regia</i> (Gulmohar),</li> <li>• <i>Pongamia Pinnata</i> (Karangji),</li> <li>• <i>Azardirachta Indica</i> (Neem),'</li> <li>• <i>Ficus religiosa</i> (Peepal), (Rain Tree),</li> <li>• <i>Dalbergia sissoo</i> (Shisham),</li> <li>• <i>Tactona grandis</i>,</li> <li>• <i>Ficus glomerata</i> (Umber),</li> <li>• <i>Ficus benghaleensis</i> (Vad,Banyah),</li> <li>Coconut,</li> <li>• (Apata),</li> <li>• <i>Acacia auriculiformis</i> (Australian babul)</li> <li>• <i>Grevillea robusta</i> (Silver Oak),</li> <li>• Almond etc</li> </ul>

Table 3.14 Details of Green Belt Development (Number of Trees Planted)

Sl. No.	Plant Name	Up to 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
1	<i>Acacia</i>	90							50		
2	<i>Eucalyptus</i>	1480			878			35			
3	<i>Almond</i>	263		35			50		15		
4	<i>Casuarina</i>	9041		478	1500	500	25				
5	<i>Neem</i>	100	1704	361	1250	200	200	150	357	520	100
6	<i>Pongomia</i>	160	2589		100		125	125	388	300	
6	<i>Ashok</i>	50		50			25	15	30		
7	<i>Gulmohore</i>	123	138	319	50			75			10
8	<i>Coconut</i>	151		30	55			10			100
9	<i>Teak-wood</i>	1196						25		200	
10	<i>Palm</i>	120						15			
11	<i>Balckburry</i>		260							180	
12	<i>Mango</i>								50		
13	<i>Sapota</i>								20		
12	<i>Apta</i>		397								
13	<i>Arali</i>		502		350		25		47		50
14	<i>Silver oke</i>							5	50		
15	<i>Spatparni</i>			70							
15	<i>Bottle brush</i>			70							
16	<i>Benjamin Ficus</i>			153							
17	<i>Nerium</i>			93							
18	<i>Golden cupres</i>			18							
19	<i>Si8gapore red</i>			20							
20	<i>Areca plam</i>			93							

M/s. Shree Renuka Sugars Limited, Unit IV, Athani

21	Bell shape yellow flower			70							
22	Sanksur			128							
23	Ananth			15							
24	Others			63	300						
25	Rain tree			301							
26	Cherry			70							
	<b>Total</b>	<b>12774</b>	<b>5590</b>	<b>2437</b>	<b>4483</b>	<b>300</b>	<b>450</b>	<b>455</b>	<b>957</b>	<b>1200</b>	<b>260</b>
								<b>Total</b>	<b>27446</b>		



Main Road Near



Lagoon



Distillery Sales (Near)



Near Distillery gate

Near Officer Mess



Main Road

Figure 3.11 Existing greenbelt photographs



Main road

**Figure 3.11 Green Belt Monitoring and Maintenance**

**Annexure - 04**  
**Environment Management Cell**

<b>Sl No</b>	<b>Name</b>	<b>Designation</b>
01	Shri Govind Misale	Vice President - Ethanol
02	Shri Sanjeev Teradal	Sr General Manager
03	Shri Anant Turambekar	Organic Head
04	Shri Rajashinh Patil	DGM - Distillery
05	Shri Yalagouda Gurusiddannavar	DGM - Environment
06	Shri Shridhar Kabadagi	Dy Manager - Environment
07	Shri Sunil Magadum	Environmental Officer