



Shree Renuka Sugars Ltd., Unit IV

Burlatti, Vill Kokatnur,
Tal. Athani, Dist. Belagavi.
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Ref SRS/Unit-IV/EC Compliance/Oct2022-March-2023

Date: 14.03.2023

To,
The Regional Officer,
Ministry of Environment, Forest & Climate Change,
Regional Office (SZ),
Kendriya Sadan, 4th Floor,
E & F Wings, 17th Main Road,
Koromangala II Block,
Bangalore - 560034.

Sub: Environment Clearance compliance report submission for the period of October to March-2023

Ref: EC ID no-EC21A022KA110816, File No: J-11011/980/2007-IA II(I), dated 08.10.2021

Respected sir,

This has reference to the above subject and cited reference; we would like to submit herewith point wise compliance to the Environment Clearance conditions period from October -2022 to March-2023

This is for your kind consideration and do the needful.

Thanking You,

Yours Faithfully,

Authorized Signatory,

For Shree Renuka Sugars Ltd Unit IV, Burlatti.

HALF YEAR COMPLIANCE TO THE CONDITIONS OF ENVIRONMENT CLEARANCE

EC IDENTIFICATION NO - EC21A022KA110816 dated 8th October 2021

EC File No - J-11011/980/2007-IA II (I)

M/S. SHREE RENUKA SUGARS LIMITED

Survey No. 377, Burlatti village, Athani Taluk, Belagavi
District, Belgaum, Karnataka - 591230

Period from Oct 2022 to March-2023, date 13.04.2023

Sl. No	Conditions	Compliance
2	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.
3	All Sugar industries and Distillery projects are listed at Sl. Nos. 5 (g) & (j) of Schedule of Environment Impact Assessment (EIA) and 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	Noted. Affidavit is attached as Annexure 1

	file a notarized affidavit that ethanol produced from proposed project shall be used completely for EBP Programme.													
4	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.												
5	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 10000 TCD, Co-generation power plant from 38 MW to 58 MW & Molasses based Distillery from 120 KLPD to 300 KLPD; and 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 favor of M/s. Shree Renuka Sugars Limited., (unit -IV).	Noted.												
6	The details of products and capacity are as under: -<table><tr><th>Particular</th><th>Existing Capacity</th><th>Proposed expansion capacity</th><th>After expansion Total capacity</th></tr><tr><td colspan="4">Sugar plant expansion</td></tr><tr><td>Sugar plant crushing capacity in TCD</td><td>10000</td><td>5000</td><td>15000</td></tr></table>	Particular	Existing Capacity	Proposed expansion capacity	After expansion Total capacity	Sugar plant expansion				Sugar plant crushing capacity in TCD	10000	5000	15000	At present the industry operations are as under: • Sugarcane crushing capacity of 15000 TCD. • Co-generation 68 MWH • Ethanol production-900 KLPD maximum with different feed stocks. • CFO is obtained from state pollution control board for above said capacities (CFO vide ref No: W-336335, dated: 21/02/2023) All the products and their production is within the consented capacities.
Particular	Existing Capacity	Proposed expansion capacity	After expansion Total capacity											
Sugar plant expansion														
Sugar plant crushing capacity in TCD	10000	5000	15000											

	Co-generation in MW	68	-	68	
	Distillery expansion				
	Particular	Existing Capacity in KLPD	Proposed expansion capacity in KLPD	After expansion Total capacity in KLPD	
	Distillery plant capacity	300 KLPD	300 KLPD	600 KLPD	
	Ethanol production configuration	300 KLPD using Heavy molasses Or 450 KLPD using B heavy/sugar syrup		• 450 KLPD using C-heavy Or • 675 KLPD using B-Heavy molasses Or • 900 KLPD using sugarcane Juice/syrup	
7	Existing land area of Sugar, Co-gen and distillery unit is 942918 sq m, the proposed expansion will be within the existing industry premises. Industry has already developed greenbelt in an area of				The proposed expansion is within the existing land only and 33% of green belt is already developed.

	33 % i.e., 311608 sq m out of total area of the project 942918 sq m. The 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.	
8	There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. within 10 km distance from the project site. River Krishna is flowing at a distance of 11 km in South of the industry.	Agreed.
9	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 PM10 is 84.71 µg/m ³ , PM2.5 is 45.63 µg/m ³ , SO2 is 5.99 µg/ m ³ and NOx is 0.64 µg/ m ³ .	Noted.

10	Total water requirement is as under; 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 <table><tr><th>Particulars</th><th colspan="2">Freshwater</th><th>KL/KL of Sugarcane Crushed</th><th>Recycled Water in KLD</th><th>Total Water Requirement t in KLD</th></tr><tr><td colspan="6">Water requirement by Sugar Plant:</td></tr><tr><td>Existing 10000 TCD</td><td>-</td><td>0</td><td>0</td><td>720</td><td>720</td></tr><tr><td>After expansion 15000 TCD</td><td>-</td><td>0</td><td>0</td><td>920</td><td>920</td></tr><tr><td>Water requirement by 68 MW Co-Gen Plant</td><td></td><td>480</td><td>0.03</td><td>1920</td><td>2400</td></tr><tr><td>Domestic</td><td></td><td></td><td></td><td></td><td>80</td></tr></table>	Particulars	Freshwater		KL/KL of Sugarcane Crushed	Recycled Water in KLD	Total Water Requirement t in KLD	Water requirement by Sugar Plant:						Existing 10000 TCD	-	0	0	720	720	After expansion 15000 TCD	-	0	0	920	920	Water requirement by 68 MW Co-Gen Plant		480	0.03	1920	2400	Domestic					80	The total fresh water required for the proposed project for sugar and co-gen plant is 480 KLD and it is lifted from Krishna River. The remaining water is reused from existing sugar plant CPU for sugar utility, co-gen cooling tower make up as mentioned in Table. Permission for lifting the fresh water from Krishna River is obtained from Karnataka Neeravari Nigam Limited, Government of Karnataka. The permission letter is attached as Annexure -02.
Particulars	Freshwater		KL/KL of Sugarcane Crushed	Recycled Water in KLD	Total Water Requirement t in KLD																																	
Water requirement by Sugar Plant:																																						
Existing 10000 TCD	-	0	0	720	720																																	
After expansion 15000 TCD	-	0	0	920	920																																	
Water requirement by 68 MW Co-Gen Plant		480	0.03	1920	2400																																	
Domestic					80																																	
	B. Total water requirements for Distillery unit <table><tr><th rowspan="2">Particulars</th><th colspan="2">Freshwater</th><th rowspan="2">KL/KL of ethanol</th><th rowspan="2">Recycled water in KLD</th><th rowspan="2">Total Water Requirement t in KLD</th></tr><tr><th>In KLD</th><th></th></tr><tr><td>300 KLPD Ethanol with C-Heavy Molasses (Existing)</td><td>1776</td><td></td><td>5.92</td><td>2961</td><td>4737</td></tr><tr><td>450 KLPD Ethanol</td><td></td><td></td><td></td><td></td><td></td></tr></table>	Particulars	Freshwater		KL/KL of ethanol	Recycled water in KLD	Total Water Requirement t in KLD	In KLD		300 KLPD Ethanol with C-Heavy Molasses (Existing)	1776		5.92	2961	4737	450 KLPD Ethanol						The fresh water required for Distillery plant is maximum 1978 KLD and remaining water is reused from Distillery CPU and RO plant. About 245 KLD fresh water is required for Incineration Boiler 75 TPH.																
Particulars	Freshwater		KL/KL of ethanol	Recycled water in KLD				Total Water Requirement t in KLD																														
	In KLD																																					
300 KLPD Ethanol with C-Heavy Molasses (Existing)	1776		5.92	2961	4737																																	
450 KLPD Ethanol																																						

	with C-Heavy Molasses (Proposed)	1978	4.39	5017	6993	
	675 KLPD Ethanol with B-Heavy Molasses (Proposed)	1761	2.60	4971	6732	
	900 KLPD Ethanol with Cane syrup (Proposed)	1670	1.65	5229	6802	
	Incineration Boiler -75 TPH	245	-	-	245	
	Wastewater generated from the Sugar, Co-gen plant and domestic sewage is as in the table below;					The existing waste water generation from sugar plant and Co-gen plant are 720 KLD and 270 KLD respectively and after expansion is 175 from sugar plant. The existing and proposed waste water is being treated in Existing ETP. The ETP capacity is 1200 KLD. The generated existing and proposed excess sugar condensate is being treated in Sugar CPU (Capacity 3600 KLD) and same treated water is 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) dated: 27.12.2021) the existing and proposed spent wash is treated 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
Sl. No	Waste water generation	Quantity, KLD			Treatment and Disposal	
		Existing	Proposed	Total (After expansion)		
A	Trade effluent					
1	Sugar Plant					
i	Washing, cleaning and leakages from machinerie s	400	100	500		
ii	Sugar Cooling tower	320	75	395		

	bleed					
2	Co-gen Plant	100	-	100		
	WTP reject					
	Boiler and cooling tower bleed	170	-	170		
	Total	990	175	1165		
B	Surplus Condensate	2640	750	3390		
3	Domestic sewage	45	27	72		

Wastewater generated from the distillery plant is as in table below:

SI No.	Process route	Wastewater generation in KLD			Treatment and Disposal
		300 KLPD	450 KLPD	675 KLPD	900 KLPD
		C-Heavy molasses	B-Heavy molasses	Sugarcan e Juice	
A	Spent wash				

treated in bio-digester, concentrated in MEE and followed by production of organic manure. The Amended EC copy is attached as an **Annexure -03**.

The spent lees and condensate from FEE and FFE are treated in CPU. The treated water from CPU is partially recycled for molasses/syrup 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.

1	Total spent wash generation	3000	3992	2632	2723	The spent wash is treated in two streams: The first stream of raw spent wash 76.4% is concentrated in FEE and MEE and concentrated spent wash / slop is incinerated in incineration boiler. In the second stream raw spent wash 23.6% is treated in bio digester, concentrated in MEE and composted.
2	Treatment & Disposal					
	After concentration in FFE & MEE and incinerate	502	675	470	208	

[illegible]

										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.
1	Spent lees	336	504	756	1008					
2	Condensate from MEE & FEE	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 blow down	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;

Sl. No	Raw Material	Spent wash generation & disposal per KL/KL of Ethanol
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			C- molasses 300 KLPD	C- molasses 450 KLPD	B-heavy molasses 675 KLPD	Sugarcane syrup 900 KLPD		
1	Raw wash generation KL/KL	spent	10.0	8.87	3.89	3.02		
2	After treatment spent disposal	wash	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 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; <table><tr><th>Sl. No</th><th>Stack attached to</th><th>Fuel</th><th>APC equipment</th></tr><tr><td>1</td><td>130 TPH (Sugar plant)</td><td>Bagasse</td><td>ESP and chimney of height - 85 m AGL</td></tr><tr><td>2</td><td>140 TPH Boiler (co gen) B</td><td>Bagasse + Bio gas</td><td>ESP and chimney of height - 75 m AGL</td></tr><tr><td>3</td><td>75 TPH incineration boiler</td><td>Slop and bagasse or coal</td><td>Bag filter and chimney of height 85 m above GL</td></tr><tr><td>4</td><td>1165 kVA DG</td><td></td><td>Acoustic enclosure & 30 m AGL (Each)</td></tr><tr><td>5</td><td>2 x 1010 kVA DG</td><td></td><td></td></tr><tr><td>6</td><td>250 kVA DG</td><td></td><td>Stack of height 6 m above roof and acoustics.</td></tr></table> Particulate emissions from boilers are within the statutory limit of 115 mg/Nm³	Sl. No	Stack attached to	Fuel	APC equipment	1	130 TPH (Sugar plant)	Bagasse	ESP and chimney of height - 85 m AGL	2	140 TPH Boiler (co gen) B	Bagasse + Bio gas	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		Acoustic enclosure & 30 m AGL (Each)	5	2 x 1010 kVA DG			6	250 kVA DG		Stack of height 6 m above roof and acoustics.	The power requirement for existing and proposed expansion is met from existing Co-gen plant 68 MW. Four DG sets are provided to operate during an emergency. For 130 TPH Boiler, ESP with 85 M AGL stack is provided, for 140 TPH Boiler ESP with 75 M AGL stack is provided and for incineration Boiler 75 TPH Bag filter with 85 M AGL stack is provided. For all DG sets individual acoustic enclosures with 30 M AGL stacks are provided.
Sl. No	Stack attached to	Fuel	APC equipment																											
1	130 TPH (Sugar plant)	Bagasse	ESP and chimney of height - 85 m AGL																											
2	140 TPH Boiler (co gen) B	Bagasse + Bio gas	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		Acoustic enclosure & 30 m AGL (Each)																											
5	2 x 1010 kVA DG																													
6	250 kVA DG		Stack of height 6 m above roof and acoustics.																											
12	Details of process emissions generation and its management: During fermentation 864 TPD of CO₂ is estimated to be released from 900 KLPD ethanol productions. CO₂ will be collected and use for dry ice making by leasing out the facility.	Noted.																												
13	Details of Solid waste/Hazardous waste generation and its management:	In the existing and proposed expansion; Bagasse is used as fuel in Boilers.																												

Solid waste and its management

Sl. No	Plant	Solid waste	Existing MT/Day	Proposed MT/Day	Total MT/Day	Utilization existing and after proposed modification
1	Sugar Plant	Bagasse	3000	1500	4500	Utilized as Fuel in Boilers
		Press - mud	400	200	600	Utilized as raw material for composting
		ETP sludge	0.5	0.2	0.7	Mixed with Press mud and used in compost
2	Co-gen Plant	Ash	26.7	-	26.7	Mixed with Press mud and used in compost
3	Distillery Plant	Yeast sludge	0.6	* 0.3	0.9	Mixed with Press mud and used in compost *
		Incinerated Ash	102	30	132	Mixed with Press mud and used in compost as well supply to farmers as potash rich

Press-mud is utilized as raw material for production of organic manure.
 ETP sludge is mixed with press-mud and utilized for production of organic manure.
 Ash generated from Co-gen Boilers and incineration is mixed with press-mud and utilized for production of organic manure.
 Yeas sludge is mixed with press-mud and utilized for manure.

							source land application/ brick mfg.
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Hazardous waste generation and its management

Waste category	Hazardous waste Generated	Quantity	Method of handling
Sugar Unit			
5.1	Used Oil	1.0 KL/A	Stored in leak proof containers in secure manner and handed over to KSPCB authorized re-processors/incinerator
5.2	Wastes Residues Containing Oil	0.1 MT	Stored in leak proof containers in secure manner and handed over to KSPCB authorized re-processors/incinerator
Distillery unit			
5.1	Used Oil	0.5 KL/A	Stored in leak proof containers in secure manner and handed over to KSPCB authorized re-processors/incinerator
5.2	Wastes Residues Containing Oil	0.01 MT/A	Stored in leak proof containers in secure manner and handed over to KSPCB authorized re-processors/incinerator

The hazardous wastes generated are being handled in specified manner and handed over to KSPCB authorized re-processors.

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. Rain water harvesting capacity shall be increased and it shall meet 90 days of fresh water requirement of the industry. PP agreed for the above and affidavit submitted to the Ministry. Further, EAC directed fresh water requirement shall not exceed 4 kL water/kL ethanol produced and bio composting shall not be allowed.	Noted. Rs. 3.0 Crores will be allocated for solar energy harvesting 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 is implemented for storage 90 days fresh water requirement of the factory. Fresh water requirement is maintained less than 4 KL/KL of ethanol production.
16	As per OM dated 16 th 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.	Affidavit dated 5 th July 2021 is submitted to MoEF & CC.
17	The proposal was considered by the EAC in its 40 th meeting held on 14 th - 16 th 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	Noted and will be followed.

	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.	
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.	-
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 agreed.
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:-	
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A. Specific Conditions

Sl. No	Conditions	Compliance
I	As per OM dated 16 th 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.	Noted. Ethanol produced is completely used for EBP programme.
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.	The necessary pollution control measures viz., MEE, incinerator, composting and ETP are installed to meet ZLD in the industry. All the environmental protection measures and safeguards are implemented.
III	The project proponent will treat and reuse the treated water within the integrated industry and no waste or treated water	Agreed and being complied. Treated water is being reused in industry. No wastewater is discharged

	shall be discharged outside the premises.	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 concerned regulatory authority/Irrigation division in this regard, and renewed from time to time. No ground water recharge shall be permitted within the premises.	Total fresh water requirement for the industry is less than 4 KL water/KL ethanol. Permission to draw 46.6 mcft or 5500 KLD, is obtained from Karnataka Neeravari Nigam Limited, Government of Karnataka. It will be renewed from time to time.
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	The spent wash is concentrated in FEE and MEE and the concentrate will be incinerated. The MEE condensate along with process condensate and spent lees is treated in CPU. The Partial raw spent wash will be treated in bio-methanization plant, concentrated in stand-alone MEE and the concentrate will be composted. The condensate from MEE will be treated in CPU effluent.
VI	CO ₂ generated from the process shall be bottled/made solid ice and utilized/sold to authorized vendors.	Agreed. Emission of CO ₂ from the fermentation process will be bottled and sold for further use.
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.	The health surveillance programme for the entire employees of the unit including contractor labor is done once in a year in the factory premises. Blood check up for Mess Staff and Health awareness programme is periodically held by RMO. The medical records of each employee is being maintained separately. All the workers are provided with PPEs.
VIII	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training	Safety training programmes are conducted regularly for all the employees

	shall be provided to employees.	
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.	The firefighting extinguishers are installed in the plant at all strategic locations. The company owned firefighting vehicle is always stationed at site for use during the emergency.
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 to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system. (f) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.	All the adequate waste minimization measures to reduce the waste generation at source is implemented in true spirit.
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.	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. Around 30,000 plants of native species are planted in the industry premises. Additional 6,830 Nos. is proposed to be planted in consultation with the State Forest Department
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	Agreed and will be complied.

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.	Agreed. The area earmarked are as under: • Parking of vehicles: Near Main gate • Raw material sugar cane: Cane yard • Finished product storage: Near cane yard Raw material storage details: 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.
XV	Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	The raw materials are stored in such a way that there is no dust pollution or fugitive emissions. Molasses stored in leak proof SS tanks of 13 Numbers each of capacity 6000 MT and one is 4500 MT. 5 numbers of silos are also proposed for boiler ash storage.
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.	The continuous online monitoring system is installed for treated effluent from ETP viz., ETP for monitoring parameters pH, BOD, SS and COD; and flow. For the proposed new incinerator boiler emission; continuous monitoring system is installed and connected to CPCB/SPCB server Annexure-4
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.	A separate Environment management Cell equipped with full fledged laboratory facilities is provided. The cell comprises of environmental engineers and scientists.

B. General Conditions:

Sr.No	Conditions	Compliance
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.	Noted. Necessary prior approval will be taken for the expansion if any.
II	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	LED lights are used for the complete extent possible for illumination in factory premises.
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 prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Agreed and being complied.
IV	The company shall undertake all relevant measures for improving the socio-economic 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	Noted. All relevant measures for improving the socio-economic conditions of the surrounding area will be taken under the CER program.

	community welfare measures in the project area for the overall improvement of the environment.	
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.	Capital Investment: Existing - Rs. 216.06 Crores Proposed - 24.51 Crores Recurring cost: Existing - Rs. 3.33 Crores Proposed - Rs. 1.02 Crores. The funds earmarked will not be diverted for any other purpose.
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.	Noted and is complied.
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 & CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance status reports shall be posted on the website of the company.	Agreed and will be complied. Six-monthly compliance reports will be submitted regularly before 1 st of June and 1 st of December every year.
VIII	The environmental statement for each financial year ending 31st March in Form-Vas 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	Environment Statement is being submitted every year to the Regional office, KSPCB, Belagavi before 31 st September.

	along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	
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 https://parivesh.nic.in/ . 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.	The issue of EC is published in Vijayawani & Deccan Herald Newspapers dated 19.01.2021.
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.	Noted.
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.	Noted.
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 and agreed.
23	Concealing factual data or submission of	We have not concealed information/data while

	false/fabricated data and 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.	obtaining the EC.
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	These issues with the approval of the competent authority.	Noted.