

Factory: C/o Deshbhakta Ratnapanna Kumbhar Panchaganga SSK Ltd. Ganganagar,Inchalkaranji,

Tq. Hatkanagale, Dist. Kolhapur.

Tel.: 0230-2441776 to 80 Fax: 0230-2441515

e-mail:panchaganga@renukasugars.com

Ref: SRSL/ENVI/RO-MOEFCC/3 18/2019-20

Date:24/12/2019

Sent through RAD on 25/12/19

To,

Hon'ble Regional Offcier

Additional Principal Chief Conservator of Forests (C),

Ministry of Environment, Forest and Climate Change,

Regional Office (WCZ), Ground Floor, East Wing,

New Secretariat Building Civil Lines, Nagpur.

Sir,

Sub: Submission of half yearly compliance to the Environment Clearance of Co-generation Plant capacity -30 MW at Desh Bhakt Ratnappa Kubhar SSK Ltd, Ichalkaranji, Kolhapur District leased by Shree Renuka Suagrs Ltd.

Ref: SEAC 2009/CR16/TC2, dated: 18th November 2009.

This has reference to the above subject and citted reference. We would like to submit the point wise compliance to Environmental Clearance of Co-generation Plant capacity - 30 MW for the period from April 2019 to Sept 2019

This is for your kind information and perusal please.

Thanking You,

Yours' Faithfully,

GENEŘAL MANAGER For,Shree Renuka Sugars Unit-DB.R.K.Panchaganga SSK Ganganagar Ichalkaraji.

Ecnl: EC compliance with annexries.



Date: 18.12.2019

M/S Desh Bhakt Ratnappa Kumbhar Panchaganga SSK Ltd, Inchalkaraji, Kolhapur.

Compliance to the Environmental Clearance for Co-generation Plant 30 MW.

Ref: SEAC 2009/CR16/TC2, Dated: 18th November 2009

Sub: 30 MW Co-generation Project at Desh Bhakt Ratnappa Kumbhar Panchaganga SSK Ltd, Inchalkaraji, Kolhapur- Environmental clearance reg.

Sr. No	Conditions	Compliance
1	This has reference to your communication No. SREL/panchaganaga/Co-gen/09-10 dated 4 th July, 2009 on the above mentioned subject. The proposal was considered as per the EIA Notification-2006, by the state Level Environment Committee in its 12 th meeting & recommended for prior Environmental Clearance by State Level Environment Impact Assessment Authority (SEIAA). Proposal was considered by the state Level Environment Impact Assessment Authority in its 16 th meeting held on 7 th November, 2009.	
2.	It is noted that the proposal is for grant of Environmental Clearance for 30 MW COgeneration Project at Desh Bhakt Ratnappa Kumbhar Panchaganga SSK Ltd, Inchalkaranji, Kolhapur. The Project considered by SEAC under Category 'B2' of EIA Notification 2006, and Screening category is 1(d).	
	Project information from documents submitted by you and considered by SEAC & SEIAA is summarized as below: Name of the Project: Environmental clearance for 30 MW Cogeneration Project at Desh Bhakt Ratnappa Kumbhar Panchganga SSK Ltd, Inchalkaranji, Kolhapur.	Noted and the project 30 MW Cogeneration plant is implemented and operated on location M/s. Desh Bhakt Ratnappa Kumbhar Panchganga SSK Ltd, Inchalkaranji, Tal: Hatkanagale, Dist: Kolhapur, Stat: Maharashtra. The existing Sugar plant capacity 5000 TCD is established and operated since from 1976 year.
	Project Proponent: M/s. Desh Bhakt Ratnappa Kurnbhar Panchganga SSK Ltd, Inchalkaranji, Kolhapur. Location of the project:	**



Inchalkaranji, Tal-Hatkanangale Dist -

Kolhapur.

Latitude: 17°04'N Longitude: 76° 14'E

Type of Project: Power Project: Power Generation: 30 MW Co-

generation.

Total Plot Area: 8000

Sq.m.

Built up Area: 2000 Sq.m, Estimated Cost of the project: Rs.94.19 Cr.

Water Requirement: 574cum/day; source:

Sugar factory scheme.

Wastewater Generated: Effluent generated from sugar factory shall be 46 cum/day (Consent to establishment-16 cum/day)

The water requirement and effluent generation from sugar factory and implemented Co-generation plant is attached as an Annexure- Ia. The water consumption and waste water generation for sugar and co-generation plants are within the stipulated limits mentioned in consent to operate condition. The generated effluent from sugar and co-generation plant is being treated in ETP plant. The existing ETP capacity is having 750 cum/day. Further we proposed primary clarifier and tertiary treatment like Multi Media filter and Activated Carbon filter with existing ETP facility to further improve the treated effluent quality. The schematic process flow sheet of ETP IS attached as Annexure -**Ib.**During this period our plant is not in operation & this is off season of sugar plant.

Process:

Co-generation will be done through steam turbines of double extraction condensing route

(DEC). Saving of bagasse has become possible with modem instrumentation. It is proposed to install machinery and equipment in the power manufacturing process.

The high pressure 67 ata Boiler having capacity 140 THP is provided with turbine having double extraction cum condensate mode .The boiler and turbine are provided with fully automated DCS system.



One Boiler capacity having 140 THP One Boiler of 140 TPH capacity and 67 with 67 ata, steam temperature 485 bar steam pressure. Boilers at 485 degree C steam turbines is degree C and temp and using steam turbines for T.G set. established and operated in place of earlier old 7 No. Boiler. The extracted steam from Turbo • The surplus power is generated alternator set of 30 MW is utilized the steam required for process, passing through Turbo alternator set of 30 MW for captive Co-generation plant and sugar process and surplus power is working rating of DEC type suitable for exported to Maharashtra Govt. The boiler steam parameters and 11KV volt, 3 power generated is having 11KV volt phases in 50 cycles per second generation and in 3 phases. volt. The bagasse is used as fuel for 140 Fuel: Bagasse and Co-gen plant is TPH Boiler Bagasse requirement: 60T/Hr established and operated with only Boiler: 1 of 140 TPH (instead of existing 7 one 140 TPH boiler in place of 7 No. of total capacity 157 TPH) earlier old Boilers to reduce the Comparison of boilers: emission load. New **Particulars** Old Sr. Boiler Boiler No 157 TPH 140 TH **Boiler Capacity** 1 76 Bar 21 Bar Working 2 Pressure 3 Fuel used **Bagasse** Bagass Calorific value 2270 2270 4 Kcal/k Kcal/kg 50% 50% Moisture 5 Spread Spreader 6 Manner stroker roker feeding More transfer Less than 7 Heat 70% 70% factor Quality of feed Less DM w water



	9	Bagasse consumption	78.5 TPH	60 TPI	I	
	Fly a	waste generation: ash: 21.6 MT/day, manufacturers, con	Disposal:	sold to	sold	daily generated fly ash is being to brick manufacturing and ners as soil conditioner.
		en belt developme green belt. Total 1 ed			m' havi trees Euca plan	Bagasse yard surrounding 2400 sq area is green developed with ng 1620 trees are planted. The are Casurina, Silver Oak, alyptus, Ashok etc. The tree ted photographs are attached as an aexure –II
	• Ele to Chim • Tregul SO2 • In of or • So heigh • Pro is in be in	ctrostatic precipitate reduce dust emissioney is of the height the project proposar monitoring system. In place of 7 Existing new will be a bettacks being less in the height that the project proposar monitoring system. In place of 7 Existing new will be a bettacks being less in the place, Electrostate place, Electrostate place, Electrostate place, Electrostate place, introduced which we escaping into the acceptance of the place of	tor will be it is	& RCC rs. install PM and provision more in eved. collector will	pollustaci for 1 •The is ir per cond •On inste pres •Th mec 140 stac	ectrostatic precipitator as air ation control equipment and RCC is height of 75 meter are provided 40 TPH Boiler. The regular online monitoring system astalled and operated for SPM as CPCB directions and Consent dition. The high pressure Boiler is provided ead of earlier seven No. low sures Boiler. The ESP is provided in place of hanical dust collector for boiler TPH The photograph of ESP and its attached as Annexure —III the 140 TPH is operating only.
xi	capit	ronmental Manag al cost will be ring cost will be Rs	Rs. 4 cro		mar and The	capital cost For Environmental nagement plan is Rs. 4.77 Crores recurring cost per year is Rs. 30.20 detail of EMP expenditure cost is ched as Annexure IV.
3	in its 2009	proposal has been c s 16 th meeting date and decide to ac rance to the said	ed on 7 th N cord Enviro	ovember onmental		ed.



	provisions of Environment Impact Notification, 2006 subject to implementation of the following terms and conditions.	
i	"Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.	The consent for establishment is obtained from Maharashtra Pollution Control Board.
ii	No land development/construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities	Noted the condition and agreed.
ii	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.	The project is established and operated within the factory premises and there is no additional land is used for implementation of the project.
Iv	No fuel other then mentioned above including coal shall be used without obtaining proper permission	Only bagasse is used as fuel. No other fuels are used.
V	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.	The water spray tanker is being operated on the roads and open area to avoid fugitive and natural dust emission.
vi	Regular monitoring of the air quality, including SPM & SO2 levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.	The four location of the monitoring station are provided for monitoring the AAQ. The monitoring is being carried out regularly from the empanelled laboratory and same is being submitted to MPCB office regularly. During this period our plant not in operation & this is off season for sugar plant.
vii	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	We are in process for rain water harvesting to recharge the ground water.
viii	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	The ground water is analyzed regularly. During this period our plant not in operation & this is off season for sugar plant.



	Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.	The earplugs and ear muffs are provided to workers those are working in high noise area.
х	The overall noise levels in and around the plant 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 confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989	The high noise equipments like turbine, DG sets are provided with acoustic enclosures and these area are separated with other working area. The ambient Noise level is being monitored regularly. During this period our plant not in operation & this is off season for sugar plant.
xi	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/Agriculture Dept.	The total area is 59.4 hectare, out of that for green belt 23% (13.66 hectare) area is provided for development of plantation. Out of 33% green belt area about 23% is planted and proposed for green belt is 10 % which will be completed within two year. The existing and year wise proposed plantation detail with laypout map is attached as an Annexure V
xii	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places early detection and warning.	The Fire hydrant system is installed at manufacturing process and wherever necessary like bagasse yard, Boiler area etc. The fire extinguisher and sand buckets are kept in fire sensitive zones. The First aid are provided at each section.
xiii	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.	The occupational health surveillance
xiv	Project Proponent shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	The Fire hydrant system is installed at manufacturing process and wherever necessary like bagasse yard, Boiler area etc. The fire extinguisher and sand buckets are kept in fire sensitive zones.
xv	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and	The Hazardous waste authorization is obtained from MPCB. the hazardous waste waste oil and residue conataing oil are being stored and disposed as
		CANGE TO SUCCESSION OF THE PROPERTY OF THE PRO

	Handling) Rules, 2003. Authorization from the MPCB shall be obtained for collections /treatment/storage/disposal of hazardous wastes.	((trianagoment and manding) Rules.
xvi	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes I improvements required, if any, in the on-site management plan shall be ensured.	The regular mock drills for the on-site emergency management plan is carried out regularly.
xvii	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	The separate environment management cell with qualified staff is established. The list of environment management staff is attached as Annexure – VI
xviii	Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.	The ash transportation is being done trough tractor and is covered with HDPE sheet.
xix	Separate silos will be provided for collecting and storing bottom ash and fly ash.	silos are provided for collecting and storing of bottom ash and fly ash.
xx	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with itemwise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and yearwise expenditure should reported to the MPCB & this department	The capital cost For Environmental management plan is Rs. 4.77 Crores and recurring cost per year is Rs. 30.20 The detail of EMP expenditure cost is attached as Annexure VII
xxi	The project management shall advertise at least in two local newspapers widely circulated in the re ion around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://envis.maharashtra.gov.in	The advertise for accorded Environmental Clearance is published in two local paper one Marathi and other one is in English language.



xxii	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1 st June and 1 st December of each calendar year.	The half yearly compliance report for EC conditions will be submitted to your good office and MPCB office with hard and soft copies.
xxiii	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	The copy of the clearance is provided to the concerned authorities and also uploaded on company website. Website 'http://www.renukasugars.com/en/e nvironmental-compliance.html'
xxiv	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely, SPM,RSPM,SO2 and NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the factory in the public domain.	The EC stipulated conditions compliance and results of monitored has been updated in our website. Website 'http://www.renukasugars.com/en/e nvironmental-compliance.html' and simultaneously sent to the Regional Office of the SPCB.
xxv	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	results of monitored data is being submitted half yearly to the respective Regional Office of MoEF (by e-mail), the respective Zonal Office of CPCB and the SPCB.



xxvi	The environmental statement for each financial year ending 31 March in Form-V as is mandated to be submitted by the	for each financial year ending 31 st March in Form V is being submitted to
	project proponent 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 EC conditions and shall also be sent to the Respective Regional offices of MoEF by e-mail.	nvironmental-compliance.html' and sent to respective regional offices of MoEF by e-mail.
xxvi i	The environmental clearance is being issued without prejudice to the court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.	Noted the condition and agreed.
4	The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.	Noted the condition and agreed.
5	Validity of Environ ment Clearance: The environmental clearance accorded shall be valid for a period of 5 years to start of production operations by the power plant.	Noted the condition. The Cogeneration plant is established in 2009 year.
6	In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequate of the condition(s) imposed and to incorporate additional environmental protection measures required, if any	Noted the condition and agreed.
7	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection)	Noted.



	Act, 1986 and rules there under, Hazardous
H	Wastes (Management and Handling)
2	Rules, 1989 and its amendments, the
1	bublic Liability Insurance Act, 1991 and
	ts amendments.



Sheet1

Annexure 1 a WATER BALANCE - PANCHAGANGA UNIT

Sugar Crushing Capacity 5000 TCD Water balance and Effluent generation and Utilization

Water available from Sugar cane

Sr. No	Water In	Qty cum/day	Water Out	Qty Cum/day
1	Water available from Sugar cane 68% for Sugar	3400	Loss of Water through Bagasse 15 % on cane	750
	plant 5000 TCD		Loss of Water through Press mud 2.8 % on cane	140
			Loss of Water through F.M. 0.4% on cane	20
			Loss of Water through Lime Grit 0.24% on cane	12
			Loss of Water through Vapour vent of Evap.& Pans 0.5%	25
			Loss of Water through Clarifier flash vapour 0.75% on cane	38
			Loss of Water through Spray pond evaporation 24% on cane	1200
		2.51	Surplus condensate water	1215
	Total	3400		3400

Condensate utilization -1215 cum/day

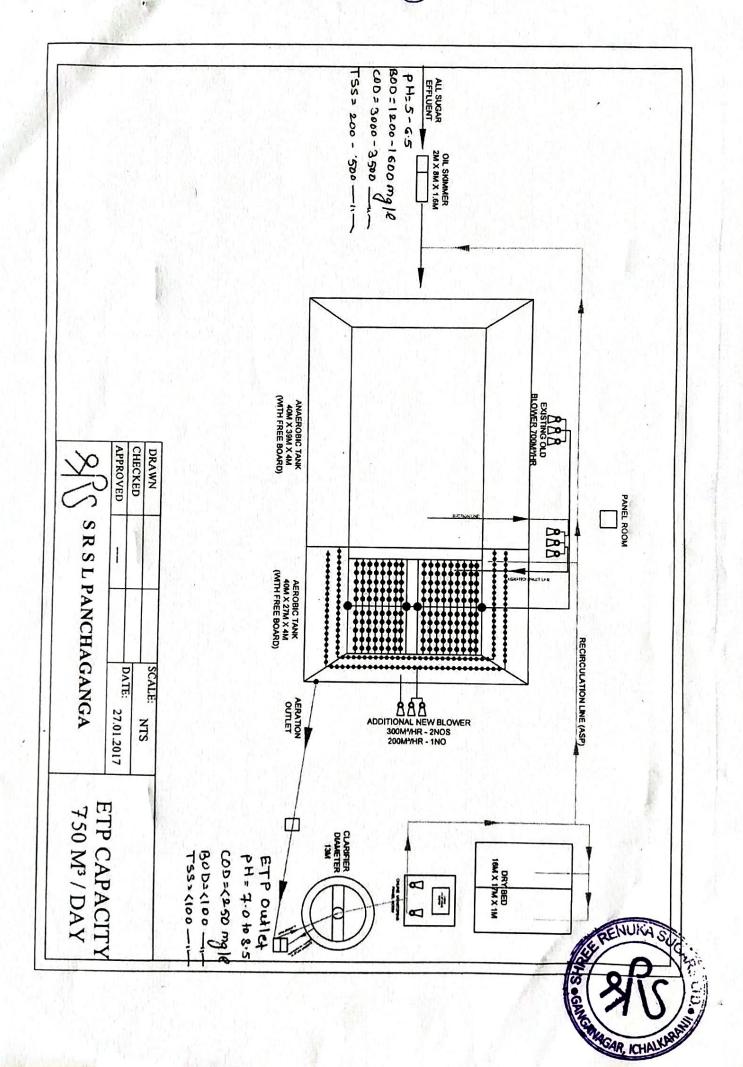
After Cooling, surplus condensate -1215-65 = 1150cum/day (Condesnate temperature decreases from 75°C to 35°C)

Water Consumption and Effluent generation in cum/day

Sr. No	Particu lars	Water Consumption	Effluent generation
A.	River water		
1	Domestic (Fresh water)	50	45
	Total	50	45
В.	Water reuse from Cane		
2	Sugar Lab	10	10
3	Sugar Plant	110	110
5	Steam vent and drain	10	10
6	Cooling tower (Cogen) make up	1092 (Fresh water -72 + resue -1020	50
	Total	1150	180
1	Fresh water for Boiler make up and D M back wash	400	400
	Grand Total	400	580

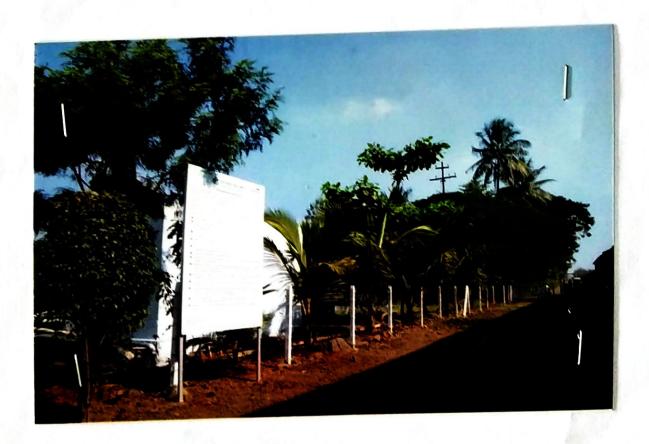
Note: Total fresh water requirement is =522 cum/day















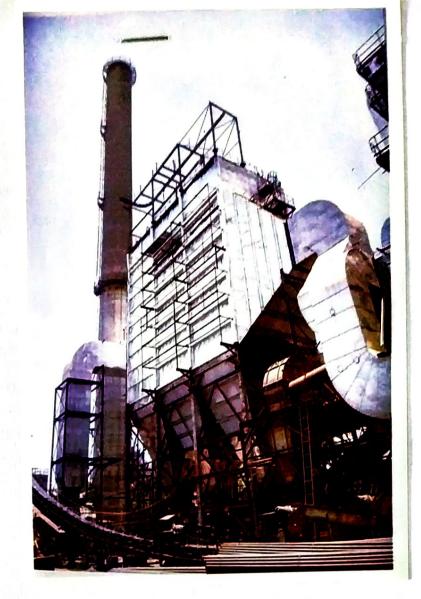






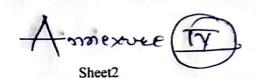






Annexuze (III)





Annexure IV

ENVIRONMENT MANAGEMENT PLAN (EMP)

Industry has Environment Management Cell comprising of qualified & experienced people EMC consists of MD, Env. & Safety Officer, Lab Analyst, Env. Consultant, ETP Operators. The Capital as well as O & M Costs towards Environmental Management Plan

as per following.

Sr.No	Particular	Capital in Rs Lakhs	O & M/Year in Rs Lakhs
1	The Capital as well as O & M Costs towards Environmental Management will be –	Rs.324.00	Rs.9.35
2	Water Pollution Control – ETP, Online monitoring system to ETP	Rs.95.54	Rs.9.99
3	Solid Waste Disposal	Rs.23.00	Rs.5.36
4	Green Belt Development	Rs.35.00	Rs.5.50
Total		Rs.477.54	Rs.30.20



Amexice V

M/S Desh Bhakt Ratnappa Kumbhar SSK Ltd, Inchalkaranji leased by Shree Renuka Suagars Ltd. Detail of Green Belt Development

1. Land utilization of Industry

a. Total plot area : 59.41 Hectares

b. Green belt development area : 19.60 Hectares .i.e 33 % of total plotarea

i. Existing green belt developed area : 13.66 Hectare .i.e 23% of total plot area.

ii. Proposed Green belt development area : 05.94 Hectares i.e 10% pf total plot area.

iii. Layout map for existing and proposed Green belt development

i. Details of Existing Green Belt Development:

The sugar factory was established in the year 1958 and the green belt developed is having very old and big trees of mix population and species. Only coconut plantation is organized plantation. Other plantation area is mainly having mix population comprising of local ornamental and fruit trees. As the trees are old and more in height with dense canopy, the area occupied by the trees are very large.

- 1. Criteria For selection of tree species for green belt development.
- 2. Detail area of Green belt.
- 3. List of tree species used for the Green Belt Development.



1. For green belt development the tree species are selected on the basis of following criteria.

- ▲ Tolerance to the salt and high TDS water.
- A Efficiency to control fugitive emission.
- A Bioremediation
- A Difference in height and growth habits
- Aesthetic and pleasing appearance
- ♣ Provide shade
- A Ability to efficiently fixing carbon and nitrogen.
- ▲ Improving waste land
- ▲ To suit subtropical climate and loamy soil characteristics.
- ▲ Sustainability with minimum maintenance
- ▲ Tolerance to water stress and extreme climatic conditions particularly during summer

2. Detail area of Existing Green belt.

Plot Numbers	Location	Area in Hectares
1	Admin Office surrounding area	1.55
2	Sugar Godown back &Front side	3.41
3	Cane yard and cane account	1.53
4	Bagasse yard	2.02
5	Quarters &School	5.15
	Total	13.66



r.N s	pecies Name	English Name	No. Of Trees	Height M	Age of tree	Canopy/Area ocupied inM	Туре
-	nona squamosa	Custard apple	54	10	20	1.06	Evergreen
-	zadirachta indica	Neem	45	20	35	0.7	Evergreen
1000	Cassia fistula	Golden Shower	15	12	20	0.31	Evergreen
Contract of the Contract of th	Casurina equisetifolia	Coluction	250	10	5	0.45	Evergreen
	Ficus Benghalensis	Banyan	32	20	40	1.31	Evergreen
_	Ficus religiosa	peepal	45	25	40	0.81	Evergreen
-	Ficus Benjamin	Benjamin tree	25	10	6	0.31	Evergreen
_	Ficus hispida	Umbar	32	15	30	0.7	Evergreen
-	Mangifera indica	Mango	150	20	40	3.81	Evergreen
$\overline{}$	Phyllanthus emblica	Gooseberry	10	5	20	0.9	Evergreen
_	Salix triandra	Almond	31	10	30	0.79	Evergreen
	Tamarindus indica	Tamarind	52	20	40	1.31	Evergreen
	Achras sapota	Sapota Chikoo	15	6	25	0.55	Evergreen
14	Cocus Nucifera	Coconut	200	20	30	4.06	Evergreen
15	Polyalthia Longifolia	Ashok	150	16	25	0.56	Evergreen
16	Samanea saman	Rain tree	110	20	40	4.61	Evergreen
17	Grevillea robusta	Silver oak	45	15	25	1.36	Evergreer
	Psidium guajava	Guava	59	10	25	1.56	Evergreen
18 19	Hyophorbe legenicaulis	Bottle Palm	70	15	20	1.06	Evergreen
20	Alstonia scholaris	Devill tree	10	16	25	0.81	Evergreen
21	Bahuahinia racemosa	Apta	12	5	20	0.47	Evergreen
22	Tectona Grandis	Teak	40	10	20	0.95	Decidious
23	Acacia nilotica	Bhabul	25	10	40	1.06	Evergreen
24	Bambusa vulgaris	Bamboo	25	25	20	1.33	Evergreen
25	Syzygium cumini	Jamun	42	20	30	1.5	Evergreen
	Butea monosperma	Palas	7	15	25	0.52	Evergreen
27		Nerium	140	3	5	0.45	Evergreen
11.500	Calllistemon citrinus	Bottle brush	20	6	. 20	0.45	Evergreer
20	Total Green Belt Area Acre						
1.72	T		13.66				



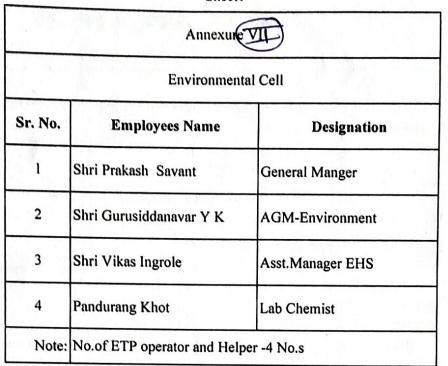
ii. Details of proposed plan for Green belt development.

The proposed Green belt development area is 5.94 Hectares. This proposed area will be completed within next three year. The location, type of tree & number of trees are considered for proposed green belt to be completed within next three is as shown in below table.

Sr. N	Location	Area in Hector	No. of trees	Type of trees	Year of Completion of activity	
1.	ETP surrounding, Back side of ETP and Spray pond area	1.955	3510	Grevillea robusta Silver oak), Casurina equisetifolia, Saraca ashoka, Salix triandra (Almond) etc.	20-21	
2	Karochi Mala	Grevillea robusta Silver		21-22		
3	Cane Office north,back side and Petrol pump area	1.555	2941	Azadirachta idica (Neem),Samanea saman(Rain tree),Salix triandra (Almond),Ficus religiosa (Peepal) etc.	22-23	
4	Cane yard (Water tank)	0.415	1941	Grevillea robusta Silver oak),Casurina equisetifolia, etc.		
117	Total	5.94	13917			



Sheetl







Maharashtra Pollution Control Board

Amexuce(

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2019

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000015931

Company Information

Company Name

Shree Renuka Sugars Ltd.,(Unit DB.R.K.Panchaganga SSK

Address

A/P- Ganganagar , Tal- Hatkanangle, Dist-

Kolhapur

Plot no

Capital Investment (In lakhs)

210.70

Pincode

416116

Telephone Number 09423869501

Region

SRO-Kolhapur

Last Environmental statement submitted

31/07/2019

online

yes

228000

262800

LSI

Application UAN number

Scale

Taluka

Hatkanangle

000051296

Person Name

Shri, Prakash Shrapati Sawant

Fax Number (0230)2441777-80

Industry Category

Red

Consent Number

1.0/BO/CAC/UAN

NO.0000051296/R/CAC-1901002384

Submitted Date

06-05-2019

Village Kabnoor

City

Ichalkaranji

Designation General Manager

Email

vikas.ingrole@renukasugars.com

Industry Type

R12 Sugar (excluding Khandsari)

Consent Issue Date

31/01/2019

Product Information

Consent Valid Upto

Product Name SUGAR

Power Generation

Consent Quantity

Actual Quantity

97869 76366

UOM MT/A

Mwh

By-product Information

By Product Name Pressmud

Molasses

Baggase

Consent Quantity

84000

72000

564000

34786 210530

Actual Quantity 21986

MT/A

MT/A

UOM

MT/A

1) Water Consumption in m3/day

Water Consumption for

Process

Cooling

Consent Quantity in m3/day

600

1042

397

495



Domestic			80		50			
All others			0		0			
			1722		942			
Total			1722					
ı) Effluent Gene ral	tion in CMD / MLD)						
Particulars			Consent Q	uantity	Actual Qua	ntity	UOM	
Sugar Effluent			500		450		CMD	
Cogen Effluent			80		22		CMD	
2) Product Wise Pi	rocess Water Con	sump	tion (cubic meter of			Tarak pinkerak		
rocess water per		Jun. p				1 10 10	11014	
Name of Products	(Production)		Durin	ng the Previous cial Year	During t Financia	he current	UOM	
				ciai Year	1.58	ı year	Ton/Ton	
Sugar & E P			1.5	kanti (t	1.50	A	mby 70.5	
		sumpt	ion of raw material					
per unit of produc			During t	he Previous	Durina th	e current	иом	
Name of Raw Mat	eriais		financia		During the current Financial year			
Sugar Cane			7.68		7.69		Ton/Ton	
4) Fuel Consumpt	ion		and peloko a la lak	an instance of the	l Quantity		иом	
Fuel Name			Consent quantity				MT/A	
Baggase			564000	20302.	203022			
Pollution dischare	ned to environme	nt/uni	t of output (Parameter as spe	cified in the cor	nsent issued)			
	yeu to entri cinico							
[A] Water		(1)						
	Quantity of		Concentration of Pollutants	Percentage	e of			
[A] Water	Quantity of Pollutants		Concentration of Pollutants discharged(Mg/Lit) Except	Percentage variation f	e of			
[A] Water	Quantity of		Concentration of Pollutants	Percentage variation for prescribed with reaso	e of rom I standards ns			
[A] Water	Quantity of Pollutants discharged		Concentration of Pollutants discharged(Mg/Lit) Except	Percentage variation for prescribed	e of rom I standards ns	Standard		
[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day)		Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage variation for prescribed with reaso	e of rom I standards ns		Good O & M of	
[A] Water	Quantity of Pollutants discharged (kL/day) Quantity		Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage variation f prescribed with reaso %variation	e of rom I standards ns	Standard		
[A] Water Pollutants Detail Chemical Oxygen Demand	Quantity of Pollutants discharged (kL/day) Quantity 7.2		Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage variation f prescribed with reaso %variation	e of rom I standards ns	Standard	Good O & M of ETP	
[A] Water Pollutants Detail Chemical Oxygen	Quantity of Pollutants discharged (kL/day) Quantity		Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration 16	Percentage variation for prescribed with reaso %variation 93	e of rom I standards ns	Standard 250	Good O & M of ETP	
[A] Water Pollutants Detail Chemical Oxygen Demand Biological Oxygen Demand	Quantity of Pollutants discharged (kL/day) Quantity 7.2		Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration 16	Percentage variation for prescribed with reaso %variation 93	e of rom I standards ns	Standard 250	Good O & M of ETP	
[A] Water Pollutants Detail Chemical Oxygen Demand Biological Oxygen Demand [B] Air (Stack)	Quantity of Pollutants discharged (kL/day) Quantity 7.2		Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration 16	Percentage variation f prescribed with reaso %variation 93	e of rom I standards ns of variation	Standard 250	Good O & M of ETP	
[A] Water Pollutants Detail Chemical Oxygen Demand Biological Oxygen Demand	Quantity of Pollutants discharged (kL/day) Quantity 7.2 2.7		Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration 16	Percentage variation for prescribed with reaso %variation 93 94 Percentage from prescri	e of rom I standards ns of variation ibed	Standard 250	Good O & M of ETP	
[A] Water Pollutants Detail Chemical Oxygen Demand Biological Oxygen Demand [B] Air (Stack) Pollutants	Quantity of Pollutants discharged (kL/day) Quantity 7.2 2.7	fay)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration 16 6 Concentration of Pollutants discharged(Mg/NM3)	Percentage variation for prescribed with reaso %variation 93 94 Percentage from prescript standards with reaso with reason with rea	e of rom I standards ns of variation	Standard 250 100	Good O & M of ETP Good O & M of ETP	
[A] Water Pollutants Detail Chemical Oxygen Demand Biological Oxygen Demand [B] Air (Stack) Pollutants	Quantity of Pollutants discharged (kL/day) Quantity 7.2 2.7	fay)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration 16 6 Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage variation for prescribed with reaso %variation 93 94 Percentage from prescript standards www.	e of rom I standards ns of variation ibed	Standard 250 100 Standard	Good O & M of ETP Good O & M of ETP	
[A] Water Pollutants Detail Chemical Oxygen Demand Biological Oxygen Demand [B] Air (Stack) Pollutants	Quantity of Pollutants discharged (kL/day) Quantity 7.2 2.7 Quantity of Pollutants discharged (kL/day)	fay)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration 16 6 Concentration of Pollutants discharged(Mg/NM3)	Percentage variation for prescribed with reaso %variation 93 94 Percentage from prescript standards with reaso with reason with rea	e of rom I standards ns of variation ibed	Standard 250 100	Good O & M of ETP Good O & M of ETP	
[A] Water Pollutants Detail Chemical Oxygen Demand Biological Oxygen Demand [B] Air (Stack) Pollutants Detail SPM HAZARDOUS WAS	Quantity of Pollutants discharged (kL/day) Quantity 7.2 2.7 Quantity of Pollutants discharged (kL/day)	fay)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration 16 6 Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage variation for prescribed with reaso %variation 93 94 Percentage from prescript standards www.	e of rom I standards ns of variation ibed	Standard 250 100 Standard	Good O & M o ETP Good O & M o ETP Reason Good O & M of ESP &	
[A] Water Pollutants Detail Chemical Oxygen Demand Biological Oxygen Demand [B] Air (Stack) Pollutants Detail SPM HAZARDOUS WAS 1) From Process	Quantity of Pollutants discharged (kL/day) Quantity 7.2 2.7 Quantity of Pollutants discharged (kL/day) Quantity 560	(ay)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration 16 6 Concentration of Pollutants discharged(Mg/NM3) Concentration 45.73	Percentage variation for prescribed with reaso %variation 93 94 Percentage from prescribed from prescribed with reaso %variation 70	e of rom standards ns of variation ibed with reasons	Standard 250 100 Standard 150	Good O & M o ETP Good O & M o ETP Reason Good O & M of ESP & STACK	
[A] Water Pollutants Detail Chemical Oxygen Demand Biological Oxygen Demand [B] Air (Stack) Pollutants Detail SPM HAZARDOUS WAS 1) From Process Hazardous Waste	Quantity of Pollutants discharged (kL/day) Quantity 7.2 2.7 Quantity of Pollutants discharged (kL/day) Quantity 560	fay)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration 16 6 Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage variation for prescribed with reaso %variation 93 94 Percentage from prescribed from prescribed from prescribed with reaso %variation 70	e of rom I standards ns of variation ibed	Standard 250 100 Standard 150	Good O & M of ETP Good O & M of ETP Reason Good O & M of ESP & STACK	
[A] Water Pollutants Detail Chemical Oxygen Demand Biological Oxygen Demand [B] Air (Stack) Pollutants Detail SPM HAZARDOUS WAS 1) From Process Hazardous Waste 5.2 Wastes or resid	Quantity of Pollutants discharged (kL/day) Quantity 7.2 2.7 Quantity of Pollutants discharged (kL/day) Quantity 560 STES Type lues containing oil	Total 2.5	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration 16 6 Concentration of Pollutants discharged(Mg/NM3) Concentration 45.73	Percentage variation for prescribed with reaso %variation 93 94 Percentage from prescribed from prescribed from prescribed with reaso %variation 70 Total Du 2.5	e of rom standards ns of variation ibed with reasons	Standard 250 100 Standard 150	Good O & M of ETP Good O & M of ETP Reason Good O & M of ESP & STACK	
[A] Water Pollutants Detail Chemical Oxygen Demand Biological Oxygen Demand [B] Air (Stack) Pollutants Detail SPM HAZARDOUS WAS 1) From Process Hazardous Waste	Quantity of Pollutants discharged (kL/day) Quantity 7.2 2.7 Quantity of Pollutants discharged (kL/day) Quantity 560 STES Type lues containing oil	fay)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration 16 6 Concentration of Pollutants discharged(Mg/NM3) Concentration 45.73	Percentage variation for prescribed with reaso %variation 93 94 Percentage from prescribed from prescribed from prescribed with reaso %variation 70	e of rom standards ns of variation ibed with reasons	Standard 250 100 Standard 150	Good O & M of ETP Good O & M of ETP Reason Good O & M of ESP & STACK	

2) From Pollution Control Facilities Hazardous Waste Type Total During Previous Financial year

Total During Current Financial y

UOM

conservation of natural resources & consequently on the cost of prodction

SOLID WASTES 1) From Process Non Hazardous Waste Type Boiler Ash ETP SLUDGE 2.5				Durin	g Current Financial year	UOM MT/A
			2233 2.7			MT/A
2) From Pollution Control Fa Non Hazardous Waste Type NA	cilities	Total During Previous Financial year NA		otal D	uring Current Financial year	UOM CMD
3) Quantity Recycled or Re- unit Waste Type	utilized	within the Total During Previous F year	inand	J	Total During Current Financial year	иом
0		NA		1	NA AV	CMD

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste							
Type of Hazardous Waste Generate	ed Qty of Hazard Waste			Concentration of Hazardous Waste			
5.2 Wastes or residues containing oil	2.5		MT/A	Residue containing Oil is burned with baggase as fuel for our own boiler.			
5.1 Used or spent oil	2.5		MT/A	Used oil is burned with baggase as fuel for our own boiler.			
2) Solid Waste							
Type of Solid Waste Generated Q	ty of Solid Waste	UOM	Conce	ntration of Solid Waste			
	233	MT/A	Cent p	ercent of ash sold to brick mfg. Used as manure with compost			

production. Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of

production. Reduction in Reduction Reduction in Capital Reduction in Reduction in Description Maintenance(in in Raw **Power** Investment(in Fuel & Solvent Water Lacs) Consumption Lacs) Consumption Material Consumption (KWH) (KL/day) (Kg) (M3/day) 110000 21822 100 127750 230 The company has 280 given prior attention to taken on

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution. [A] Investment made during the period of Environmental Statement

The design capacity of ETP is 750 M3/d is provided to treat industrial effluent. ETP comprises with screen chamber, Equalisation cum anaerobic tank, aerobic tank, Sec. Clarifier, SDB.The

Detail of measures for Environmental Protection

The ETP is operated by qualified staff to control water pollution. The final treated water is

Environmental Protection Measures

disposed to on land for irrigation on 130 acre land & neighboring farmers.

Capital

Investment (Lacks)

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection Environmental Protection Measures Capital Investment (Lacks)

Pri. Clarifier, Tertiary Treatment

Pri. Clarifier, Tertiary Treatment

Any other particulars in respect of environmental protection and abatement of pollution.

Particulars

The industry files regular water cess returns as per the cess act on monthly basis. The industry shall carried out noise level survey within featory area. The industry provides fire fighting training to its own staff. There are no industrial accidents, fier or spillages etc. in season 2018-19. The industry is particular in aboving laws related to protection of opinion month. 2018-19. The industry is particular in obeying laws related to protection of environment.

Name & Designation

Prakash S.Sawant General Manager

