

VSPL/GNGP/MOEF/2021-22/

Date: 12.11.2021

To
The Director,
Ministry of Environment Forest &
Climate Change, (MoEF&CC)
Regional Office (South zone),
Kendria Sadana, 4th Floor,
E & F Wing, 17th Main Road, 2nd Block,
Koramangal – Bangalore.

Dear Sir,

Sub: Submission of Half Yearly Compliance Report to the conditions mentioned in the Environment Clearance Granted to Integrated Sugar Complex of 5000 TCD Sugar Plant, 33.5 MW Co-generation Plant and 120 KLPD Ethyl Alcohol (RS/ENA) 300 KLPD Ethanol at Gangapur & Shiranahalli Village, Mundargi Taluka, Gadag District, Karnataka by M/s Vijayanagar Sugar Pvt. Ltd.

Ref: MoEF & CC Letter No. J-11011/366/2007-IA II (I) dated: 18.04.2008.
MoEF & CC Letter No. J-11011/366/2007- IA II (1) dated: 30.07.2020

With reference to the above subject, we are submitting the half yearly compliance report **for the period of April - 2021 to September – 2021** to the conditions mentioned in the Environment Clearance granted to Integrated Sugar Complex of 5000 TCD Sugar plant, 42 MW Co-generation unit and 120 KLPD Ethyl Alcohol (RS/ENA) 300 KLPD Ethanol at Gangapur & Shiranahalli Village, Mundargi Taluka, Gadag District, Karnataka. This is for your kind perusal.

Thanking you

Yours faithfully

For Vijayanagar sugar Pvt. Ltd,



Authorized Signatory



**HALF YEARLY COMPLIANCE REPORT TO THE
CONDITIONS OF ENVIRONMENTAL CLEAENCE**



VIJAYANAGAR SUGAR PRIVATE LIMITED,
(5000 TCD SUGAR, 33.5 MW CO GEN & 120 KLPD DISTILLERY UNITS) ...
GANGAPUR – VILLAGE, MUNDARGI – TALUKA,
GADAG - DIST.KARNATAKA.



**Ministry of Environment, Forest & Climate Change
Regional Office (South Zone) Kendria Sadan
Koramangal – BANGALORE.**

The detailed half yearly compliance report of the following specific conditions and general conditions are mentioned in the Environmental clearance are as given below,

S.NO	A. SPECIFIC CONDITIONS OF ENVIRONMENTAL CLEARANCE	COMPLIANCE STATUS
i	<p>The industry shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shutdown and shall not be restarted until the control measures are rectified to achieve the desired efficiency</p>	<ul style="list-style-type: none"> • Treated Effluent: We have installed and commissioned the modern effluent treatment plant having a treatment capacity of 1000 m³/day. We have reduced the effluent quantity from sugar plant and ETP is working satisfactorily. The parameters of the each unit are within the norms stipulated by Board and also regularly we are conducting and submitting the third party laboratory analysis reports to KSPCB/CPCB as per the consent conditions. (Analysis reports are attached for your kind perusal) • On 5th November 2016 we have installed and commissioned the online water analyzer for monitoring of the following parameters (pH, TSS, COD, BOD and Flow) at the out let of the effluent treatment plant and the same has been connected to CPCB server. • Stack Emissions: We have installed and commissioned the high efficiency ESP for controlling the stack emission from the 120 TPH cogeneration boiler and also we have installed and commissioned the high venture wet scrubber and ESP for controlling the stack emission from for 32 TPH incineration boiler. Stack emissions are well within the norms stipulated by the Board. (Analysis reports are attached for your kind perusal) • As per the CPCB guidelines on 3rd March 2016, we have installed and commissioned the online stack

	basis and report submitted to SPCB and this Ministry.	<p>piezometers around the spent wash storage lagoons and regularly monitoring the ground water quality and the same has been submitted to SPCB and MoEF&CC.</p> <ul style="list-style-type: none"> • However, ground water (Bore wells) analysis is being conducted regularly in and around the factory premises. <p>The analysis reports are enclosed for your kind reference.</p>
v	Particulate emission from the 120 TPH bagasse/coal fired boiler and 32 TPH concentrated spent wash and coal fired boiler shall be controlled by installation of ESP & Bag filters respectively. Particulate emission shall be discharged into atmosphere through stack of suitable height as per CPCB norms.	<ul style="list-style-type: none"> • 120 TPH Bagasse/Coal fired boiler: We have installed high efficiency Electrostatic Precipitator (ESP) to control the particulate emission from 120 TPH Bagasse/Coal fired boiler as air pollution control equipment. 32TPH incineration boiler: We have installed ESP and high venture wet scrubber to control the emission level. The emission limits are not exceeding beyond the permissible limits, and also we have constructed the suitable stack height as per the CPCB norms. <p>Analysis reports are attached for your kind reference.</p>
vi	As reflected in the EIA/EMP, green belt in an area of 75 acres shall be provided to mitigate the effects of fugitive emission all around the plant as per the CPCB guide lines in consultation with the local DFO.	<ul style="list-style-type: none"> • We have developed greenery in and around the factory premises and we have maintained the green belt area. Yearly we have taken up massive program of plantation of trees and it was found that in total we have planted 40020 numbers of trees in the campus so far covering the 75 Acres land and further we are bringing up 2200Nos. of additional plants in the premises.
vii	Occupational health surveillance program shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee shall be maintained separately	<ul style="list-style-type: none"> • We are undertaking necessary occupational health surveillance regularly for the employees and the records are kept. We have maintained the first aid facilities in our occupational health centre and also we have maintained the medical records of

		<p>monitoring equipment to incineration boiler and the same has been connected to CPCB server. And also regularly we are submitting the third party laboratory analysis reports to KSPCB as per the consent conditions.</p> <ul style="list-style-type: none"> • In case of process disturbances/ failure of pollution control equipments immediately there will be an alarm through DCS system and DCS operators are alert, also they have to arrange the temporary solutions to control the pollutions, if it is severe damage of the pollution immediately they will stop the unit till rectification of the equipment.
ii	<p>The spent wash generated shall be concentrated in the multiple effect evaporators. The concentrated spent wash shall be incinerated in the coal fired boiler of 32 TPH capacities to achieve zero discharge.</p>	<ul style="list-style-type: none"> • We have installed HIFERM fermentation technology and also adopted Multi pressure distillation system which will generate less quantity of spent wash. The spent wash will be generated from the system is not more than 650 m³/day. The entire quantity of spent wash will be concentrated by MEE and incinerated in 32 TPH boiler. We have achieved Zero Liquid Discharge (ZLD)
iii	<p>The spent wash shall be stored in impervious pucca lagoons. The spent wash lagoons shall have proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. As per the CPCB recommendation, storage shall not exceed 30 days capacity.</p>	<ul style="list-style-type: none"> • We are not having any lagoon for storage of spent wash, since commissioning of the plant. As per the CPCB norms we are having MS tank and RCC tanks for five days slop (concentrated spent wash) storage capacity.
iv	<p>Adequate numbers of ground water quality monitoring stations by providing piezometers around the spent wash storage lagoons and the project area shall be set up. Sampling and trend analysis monitoring must be made on monthly a</p>	<ul style="list-style-type: none"> • Ground water quality monitoring stations are not required, because we are not having any spent wash storage lagoons. Once we construct the bio-composting yard, as per the CPCB guidelines we will provide the

		employees. Few employees' reports are attached for your kind perusal.
S.NO	B. GENERAL CONDITIONS OF ENVIRONMENTAL CLEARANCE	COMPLIANCE STATUS
i	The project authorities must strictly adhere to the stipulations made by the concerned State Pollution Control Board & the State Government	<ul style="list-style-type: none"> We are strictly following the stipulations of the KSPCB & State Government, which was confirmed by the regional officer of KSPCB who was present during the monitoring visit. We have provided the compliance to the conditions of the consents of KSPCB.
ii	No further expansion or modification in the plant should be carried out without prior approval of the Ministry of Environment and forests.	<ul style="list-style-type: none"> It was assured that we will do any expansion or modification in the plant only with prior approval of MoEF&CC & the State Government. We have already approached the Ministry for amendment in the EC for dual treatment route for treating spent wash.
iii	Ambient Air quality Monitoring should be set up in the downwind direction as well as where maximum ground level concentration of SPM, SO ₂ , Nox, are anticipated in consultation with state pollution control board.	<ul style="list-style-type: none"> The ambient air quality monitoring stations have been identified in consultation with KSPCB officers in the downwind direction, as well as where maximum ground level concentration of SPM, SO₂, Nox, are anticipated. Regular monthly monitoring is being carried out and the monitored results are submitted to KSPCB. Ambient Air Quality Monitoring results show that the parameters are well within permissible limits. The industry monitors the Ambient Air Quality twice in a week during the production period and KSPCB also monitoring the AAQ during the crushing season. Monitoring reports are attached for your kind perusal.
iv	Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the State Pollution	<ul style="list-style-type: none"> We have established influent and effluent quality monitoring stations in consultation with the KSPCB and they

	Control board. Regular monitoring should be carried out for relevant parameters.	are regularly monitoring influent & effluent quality for the following parameters pH, BOD, COD, Total Suspended Solids, and Flow. We have installed Online monitoring equipments for the analysis of above parameters which are connected to the CPCB servers.
v	The overall noise levels in and around the plant area shall be kept well within the standards(85dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz.75 dBA (daytime) and 70dBA (night time)	<ul style="list-style-type: none"> We are regularly monitoring the overall noise levels from three different locations around the plant. The monitored results are found to be well within the standard limits as prescribed under EPA Rules 1989 and reports are submitting to Regional office regularly. Analysis reports are attached for your kind perusal.
vi	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report and suggestions made during the public hearing	<ul style="list-style-type: none"> We are following the recommendations/suggestions of their EIA/ EMP reports. Major recommendations include regular monitoring of Environmental quality, Corporate social responsibility, setting up of Environmental Management cell, control of fugitive emissions, developing green belt and maintaining the CPCB guidelines for Environmental quality standards, such as Emissions, effluent quality and Ambient and Noise standards.
vii	A separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions. The project authorities will provide separate funds both recurring and nonrecurring to implement the conditions stipulated by the Ministry of environment and Forests as well as the state Government along with the implementation schedule for all the conditions stipulated here in. The funds so	<ul style="list-style-type: none"> A separate Environment Management cell with qualified staff has already been functioning for the purpose and also we have set up of an environmental laboratory to carry out the Environmental management & monitoring functions. We have spent an amount of Rs. 6.0 Crores so far, for the environment and pollution control measures with a recurring expenditure of Rs. 50 Lakh per year. The details of the funds spent

	provided shall not be diverted for any other purpose.	are submitted by the project authorities. Members list of environmental management cell attached for your information.
viii	The implantation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional office at Bangalore/ State Pollution control board / Central Pollution control Board. A six monthly compliance status report along with the monitored data shall be submitted to the monitoring agencies.	<ul style="list-style-type: none"> We are regularly submitting the half yearly reports along with monitoring reports. We have submitted the latest half yearly report to the regional office of the Ministry.
ix	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and the copies of the clearance letter are available with the state Pollution Control Board/committee and may also be seen at website of the Ministry of Environment and Forests at http://envfor.nic.in . This 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 should be forwarded to the Regional office.	<ul style="list-style-type: none"> We have given advertisement with respect to the above in Vernacular news paper in "Prajavani" On 5th December 2009 and in English News paper "The Hindu" on 05 December 2009 and the same have been submitted to the Regional Office Bangalore.
X	The project Authorities shall inform the Regional Office as well as the ministry the date of financial approval of the project by the concerned authorities and the date of start of land development work.	<ul style="list-style-type: none"> We have informed to Regional office Bangalore, as well as MoEF & CC office New Delhi, while the construction of the "Integrated Sugar Complex". Sugar plant, and Cogeneration power plant are commissioned in the year 2010 and Distillery unit are commissioned in the year 2011.

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VIJAYANAGAR SUGAR PRIVATE LIMITED,
(5000 TCD SUGAR, 42 MW CO GEN & 300 KLPD DISTILLERY UNITS)
GANGAPUR – VILLAGE, MUNDARGI – TALUKA,
GADAG - DIST. KARNATAKA.

**Ministry of Environment, Forest & Climate Change
Regional Office (South Zone) Kendria Sadan
Koramangal – BANGALORE.**

The detailed compliance report of the following specific conditions and general conditions are mentioned in the Environmental clearance are as given below,

S. NO	A. SPECIFIC CONDITIONS OF ENVIRONMENTAL CLEARANCE	COMPLIANCE STATUS
i	The EC granted to the project/activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc. required to be obtained or standards/ conditions to be followed under other any Acts/ Rules/ Subordinate Legislations, etc, as may be applicable to the project	<ul style="list-style-type: none"> Noted, we follow all the conditions and standards which were applicable to this project.
ii	This EC is subject to obtaining certificate from the Ministry of Petroleum and Natural Gas.	<ul style="list-style-type: none"> We have applied to the Ministry of Petroleum and Natural Gas for the certificate.
iii	Grain unfit for human consumption shall only be used for industrial operations.	<ul style="list-style-type: none"> We will follow after grain system installation
iv	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. The reuse of treated effluent in gardening/horticulture shall not be considered as ZLD.	<ul style="list-style-type: none"> We have installed 1800 m3/d capacity of Condensate Polishing Unit for treating the condensates which is coming from process and the same was treated and reuse in the process
v	.Concentrated spent wash shall be incinerated and not to be released in open space.	<ul style="list-style-type: none"> Entire quantity of concentrated spent wash is incinerated in the incineration Boiler.
vi	The control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	<ul style="list-style-type: none"> Already installed for the existing system and further required devices will be installed for the expansion as per CPCB/SPCB guidelines.

vii	Odour shall be prevented at the source and effective odour management scheme shall be implemented.	<ul style="list-style-type: none"> We have implemented odour management system.
viii	Total fresh water requirement shall not exceed 1800 cum/day (@6kl/kl of production of ethanol) proposed to be met from River Tungabhadra reservoir. Prior permission shall be obtained from the concerned regulatory authority.	<ul style="list-style-type: none"> After expansion we will follow this condition.
ix	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.	<ul style="list-style-type: none"> Hazardous chemicals are stored in carboys only.
x	Process organic residue and spent carbon, if any, shall be sent to cement industries, ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	<ul style="list-style-type: none"> Only organic solids waste generated is yeast sludge and ETP sludge from secondary clarifier of CPU. It is composted along with press mud from the sugar factory. Spent carbon is not generated. The spent wash concentrate from MEE is incinerated.
xi	The company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time.	<ul style="list-style-type: none"> We are following the rules and guidelines of MSIHC.
xii	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	<ul style="list-style-type: none"> All the waste minimization measures are followed.

	<p>automated filling 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 cleaning to reduce wastewater generation.</p>	
xiii	<p>The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.</p>	<ul style="list-style-type: none"> • We have developed green belt area of more than 33 % of the total project area.
xiv	<p>As committed, funds allocation for the Corporate Environment Responsibilities (CER) shall be Rs. 3 crore and the same will be used for education of nearby area. Item-wise details along with time bound action plan shall be implemented and submitted to the Ministry's Regional Office.</p>	<ul style="list-style-type: none"> • Industry has kept separate CER budget and is strictly implementing the same.
xv	<p>For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.</p>	<ul style="list-style-type: none"> • No further new DG sets considered for the expansion.
xvi	<p>Solar Power shall be generated within the premises @30% of the total power requirement.</p>	<ul style="list-style-type: none"> • We got amendment for this point in EC.

xvii	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.	<ul style="list-style-type: none"> • Fire fighting system will be as per the norms for the expansion.
xviii	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	<ul style="list-style-type: none"> • We are following as per the Factories Act.
xix	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.	<ul style="list-style-type: none"> • We have allocated sufficient spaces for vehicle parking inside the factory premises.
xx	Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	<ul style="list-style-type: none"> • After expansion we will follow this condition.
xxi	CO ₂ generated from the process shall be bottled/made solid ice and sold to authorized vendors.	<ul style="list-style-type: none"> • CO₂ generated is liquefied, bottled and sold to authorized dealers.
xxii	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 ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises. For continuous discharge the unit shall install	<ul style="list-style-type: none"> • For the existing we have installed the online monitoring system and connected to CPCB/SPCB servers and the same will be followed after the expansion.

	PH, TSS, BOD, COD and flow meter at the ETP outlet.	
S. NO	B. GENERAL CONDITIONS OF ENVIRONMENTAL CLEARANCE	COMPLIANCE STATUS
i	No further expansion or modification 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, and Forest and Climate Change. 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 to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	<ul style="list-style-type: none"> It was assured that we will do any expansion or modification in the plant only with prior approval of MoEF&CC and the State Government.
ii	The energy source for lighting purpose shall be preferably LED based, or advance having preference in energy conservation and environment betterment.	<ul style="list-style-type: none"> We have installed LED lights only.
iii	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	<ul style="list-style-type: none"> The Ambient Air Quality monitoring stations have been identified in consultation with KSPCB officers in the downwind direction, as well as where maximum ground level concentration of SPM, SO₂, Nox, are anticipated.
iv	The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826(E) dated 16 th November, 2009 shall be followed.	<ul style="list-style-type: none"> We are following the National Ambient Air Quality Emission Standards issued by the Ministry.
v	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	<ul style="list-style-type: none"> We are regularly monitoring the overall noise levels from three different locations around the plant. The monitored results are found to be well within the standard limits as prescribed under EPA Rules 1989 and reports are

	shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz.75 dBA (daytime) and 70dBA (night time)	submitting to Regional office regularly.
vi	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and to utilize the same for process requirements.	<ul style="list-style-type: none"> Two rainwater collection tanks capacity of 600 m³ each with dimensions 30 m x 8 m x 2.5 m have been constructed for collection of rainwater.
vii	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	<ul style="list-style-type: none"> We have given training to all the employees related to safety and health aspects of chemical handling. Also conducted periodical medical examinations to all the employees.
viii	The company shall also 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.	<ul style="list-style-type: none"> We are following the recommendations/suggestions of our EIA/EMP reports. Major recommendations include regular monitoring of Environmental quality, Corporate Social responsibility, Setting up of Environment management cell, Control of fugitive emissions, developing green belt and maintaining the CPCB guidelines for Environmental quality standards, such as Emissions, Effluent quality and Ambient and Noise standards.
ix	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.	<ul style="list-style-type: none"> All measures have been taken to improve the socio-economic conditions of the surrounding area. CER activities carried along with local villages and administration.
x	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	<ul style="list-style-type: none"> We have undertaken the eco-development measures in the project area.
xi	A separate environmental management cell (having qualified person with	<ul style="list-style-type: none"> A separate Environment Management cell with qualified staff has already

	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.	been functioning for the purpose and also we have set up of an environmental laboratory to carry out the Environmental management & monitoring functions.
xii	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 purposes.	<ul style="list-style-type: none"> Funds allocated and utilized only for pollution control measures.
xiii	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.	<ul style="list-style-type: none"> We have sent our EC copy to local Panchayat and Mandal parishat offices and didn't receive any query or suggestions from them.
xiv	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.	<ul style="list-style-type: none"> We are regularly submitting the half yearly reports along with monitoring reports. We have submitted the latest half yearly report to the regional office of the Ministry.
xv	The Environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment	<ul style="list-style-type: none"> Every financial year we are submitting the Environmental Statement in FORM-V before 30th of September to the State Pollution Control Board Office, and also we are sending the

	(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&CC by e-mail.	Environmental Clearance conditions compliances to MoEF&CC Regional Office, Bangalore by mail.
xvi	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and the copies of the clearance letter are available with the state Pollution Control Board/committee and may also be seen at website of the Ministry of Environment and Forests at 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 should be forwarded to the concerned Regional office of the Ministry.	<ul style="list-style-type: none"> We have given advertisement with respect to the above in Vernacular news paper in "Prajavani" On 13th October 2020 and in English News paper "The Deccan Chronicle" on 13th October 2020 and the same have been submitted to the Regional Office Bangalore.
xvii	The project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and financial approval of the project by the concerned authorities and the date of start of the project.	<ul style="list-style-type: none"> We have informed to Regional office Bangalore, as well as MoEF&CC office New Delhi.
xviii	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.	<ul style="list-style-type: none"> No cases is there in the Court related to this project.

VIJAYANAGAR SUGAR PVT. LIMITED, GANGAPUR - Village

Half yearly report for the period of Apr - 2021 to Sep - 2021

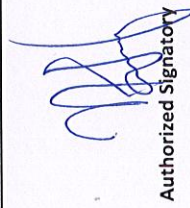
Statement on Ambient Air Quality analysis report

Sl. No	Parameters	UOM	06.04.2021 (32 TPH)				10.04.2021 (32 TPH)				13.04.2021 (32 TPH)				16.04.2021 (32 TPH)				19.04.2021 (32 TPH)			
			NAO	NMG	NC	TC72072	NAO	NMG	NC	TC72072	NAO	NMG	NC	TC72072	NAO	NMG	NC	TC72072	NAO	NMG	NC	TC72072
	Report No		002F	003F	004F	004F	219F	220F	440F	441F	442F	618F	619F	620F	740F	741F	742F					
1	PM 10	µg/Nm3	49.28	54.62	52.15	45.34	48.78	55.18	37.21	50.25	42.47	33.78	45.71	53.10	38.11	48.62	45.94					
2	PM 2.5	µg/Nm3	28.37	35.93	33.74	21.38	25.24	36.29	20.13	28.93	24.62	19.27	25.38	28.96	21.83	29.57	26.30					
3	Sulphur Di Oxide	µg/Nm3	4.13	4.17	4.21	4.02	4.11	4.14	4.28	4.35	4.31	4.18	4.34	4.37	4.16	4.18	4.22					
4	Nitrogen Di Oxide	µg/Nm3	9.20	9.58	9.37	9.29	9.66	9.54	9.43	9.17	9.09	9.70	9.10	9.20	9.50	9.20	9.88					
	Report No		904F	905F	906F	149F	150F	151F	325F	326F	327F	505F	506F	507F	671F	672F	673F					
1	PM 10	µg/Nm3	47.82	51.36	55.29	48.27	57.18	55.72	45.47	49.53	52.68	32.48	54.62	52.15	45.34	48.78	55.18					
2	PM 2.5	µg/Nm3	30.29	34.91	36.88	29.04	38.81	35.98	23.92	28.26	34.73	19.16	35.93	33.74	21.58	25.24	36.29					
3	Sulphur Di Oxide	µg/Nm3	4.14	4.19	4.23	4.18	4.37	4.32	4.12	4.21	4.30	4.09	4.17	4.21	4.07	4.11	4.14					
4	Nitrogen Di Oxide	µg/Nm3	9.10	9.24	9.38	9.48	9.39	9.30	9.19	9.27	9.34	9.72	9.28	9.37	9.09	9.16	9.24					
	Report No		TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072					
	Report No		1000005	1000005	1000005	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006					
	Report No		904F	905F	906F	149F	150F	151F	325F	326F	327F	505F	506F	507F	671F	672F	673F					
	Report No		TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072					
	Report No		1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006					
	Report No		849F	850F	851F	926F	927F	928F	976F	977F	978F	033F	034F	035F	178F	179F	180F					
1	PM 10	µg/Nm3	37.21	50.25	42.47	33.78	45.71	53.10	38.15	48.62	45.94	47.82	51.36	55.29	48.27	57.18	55.72					
2	PM 2.5	µg/Nm3	20.13	28.93	24.62	19.27	25.38	28.96	21.80	29.57	26.38	30.29	34.91	36.88	29.84	38.81	35.98					
3	Sulphur Di Oxide	µg/Nm3	4.28	4.35	4.31	4.01	4.34	4.37	4.13	4.18	4.22	4.14	4.19	4.23	4.18	4.37	4.32					
4	Nitrogen Di Oxide	µg/Nm3	9.03	9.17	9.09	9.10	9.14	9.20	9.11	9.20	9.28	9.03	9.24	9.32	9.22	9.39	9.30					
	Report No		TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072					
	Report No		1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006					
	Report No		849F	850F	851F	926F	927F	928F	976F	977F	978F	033F	034F	035F	178F	179F	180F					
	Report No		TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072					
	Report No		1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006	1000006					
	Report No		849F	850F	851F	926F	927F	928F	976F	977F	978F	033F	034F	035F	178F	179F	180F					

SI.No	Parameters	UOM	01.06.2021(32 TPH)			05.06.2021(32 TPH)			08.06.2021(32 TPH)			15.06.2021(32 TPH)			19.06.2021(32 TPH)		
			NAO	NMG	NC	NAO	NMG	NC	NAO	NMG	NC	NAO	NMG	NC	NAO	NMG	NC
	Report No		TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	
1	PM 10	µg/Nm3	1000007	1000007	1000007	1000007	1000007	1000007	1000007	1000007	1000007	1000007	1000007	1000007	1000007	1000007	
2	PM 2.5	µg/Nm3	280F	281F	282F	340F	341F	342F	462F	463F	464F	788F	789F	973F	974F	975F	
3	Sulphur Di Oxide	µg/Nm3	45.47	49.53	52.68	42.61	51.15	52.22	39.47	54.34	53.92	42.33	44.29	39.26	44.68	47.08	
4	Nitrogen Di Oxide	µg/Nm3	23.92	28.26	34.73	28.84	35.49	34.96	20.22	37.40	37.05	25.78	29.10	20.29	28.92	22.31	
			4.12	4.21	4.30	4.26	4.13	4.85	4.08	4.29	4.63	4.52	4.16	4.10	4.27	4.30	
			9.19	9.27	9.34	9.72	10.24	9.61	9.11	9.16	9.22	9.44	9.74	9.71	9.53	9.20	

SI.No	Parameters	UOM	22.06.2021(32 TPH)			25.06.2021(32 TPH)			29.06.2021(32 TPH)			02.07.2021(32 TPH)			06.07.2021(32 TPH)		
			NAO	NMG	NC	NAO	NMG	NC	NAO	NMG	NC	NAO	NMG	NC	NAO	NMG	NC
	Report No		TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	TC72072	
1	PM 10	µg/Nm3	1000007	1000007	1000007	1000007	1000007	1000007	1000008	1000008	1000008	1000008	1000008	1000008	1000008	1000008	
2	PM 2.5	µg/Nm3	882F	883F	884F	893F	894F	895F	102F	103F	104F	389F	390F	536F	537F	538F	
3	Sulphur Di Oxide	µg/Nm3	33.86	50.43	44.39	30.59	54.57	46.88	36.12	57.42	42.43	34.60	49.12	40.38	48.26	51.29	
4	Nitrogen Di Oxide	µg/Nm3	18.29	33.81	24.33	11.37	28.73	25.74	21.58	34.68	17.77	18.18	24.63	22.57	20.65	22.40	
			4.15	4.52	4.61	4.02	4.27	4.42	4.19	4.83	4.28	4.20	4.17	4.16	4.32	4.51	
			9.09	9.94	9.20	9.17	9.21	9.28	9.51	9.70	9.31	9.16	9.20	9.20	9.74	9.86	

SI.No	Parameters	UOM	10.07.2021(32 TPH)		
			NAO	NMG	NC
	Report No		TC72072	TC72072	TC72072
1	PM 10	µg/Nm3	1000008	1000008	1000008
2	PM 2.5	µg/Nm3	792F	793F	794F
3	Sulphur Di Oxide	µg/Nm3	45.50	50.39	54.22
4	Nitrogen Di Oxide	µg/Nm3	16.19	24.71	26.81
			4.16	4.23	4.71
			9.19	9.60	9.90



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NC - Near Chimney
NMC - Near Maingate
NAO - Near Admin Office

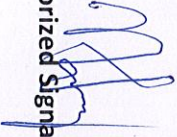
VIJAYANAGAR SUGAR PVT. LIMITED, GANGAPUR - Village

Half yearly report for the period of Apr - 2021 to Sep - 2021

Statement on 32 TPH chimney stack emission analysis report

Sl No	Parameters	UOM	24.04.21	22.05.21	22.06.21	10.07.21
	Report No		TC7207210 00005907F	TC72072100 0007283F	TC720721000 007938F	TC720721000 008795F
1	Particulate matter	mg/Nm3	37.86	43.86	41.76	39.62
2	Sulphur Di Oxide	mg/Nm3	13.67	13.67	12.02	11.48
3	Nitrogen Di Oxide	mg/Nm3	25.2	25.2	19.83	20.34

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VIJAYANAGAR SUGAR PVT. LIMITED, GANGAPUR - Village

Half yearly report for the period of Apr - 2021 to Sep - 2021

Statement on Noise level monitoring report

SI No	Parameters	UOM	24.04.21 (32TPH)					22.05.21 (32TPH)					22.06.21 (32 TPH)				
			NMG	Canteen	NAO	NC	NSQ	NMG	Canteen	NAO	NC	NSQ	NMG	Canteen	NAO	NC	NSQ
	Report No		TC720721000005908F														
1	Sound min	dB	69.4	66.3	68.1	64.1	71.1	69.4	66.3	68.1	64.1	71.1	67.1	66.5	60.9	65.1	66.9
2	Sound Max	dB	71.8	67.7	71	70.3	73.1	71.8	67.7	71	70.3	73.1	72.6	70	65.7	68.3	69
3	Sound Avg.	dB	70.6	67	69.5	67.2	72.1	70.6	67	69.5	67.2	72.1	69.9	68.3	63.3	66.7	68

SI No	Parameters	UOM	10.07.21 (32TPH)				
			NMG	Canteen	NAO	NC	NSQ
	Report No		TC720721000008796F				
1	Sound min	dB	69.8	65.8	63.9	60.1	65.6
2	Sound Max	dB	72.8	69.4	65.2	64.5	68.9
3	Sound Avg.	dB	71.3	67.5	64.6	62.3	67.3

NC - Near Chimney
NMC - Near Maingate
NAO - Near Admin Office
Canteen - Near Canteen
NSQ - Near Staff Quarters



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VIJAYANAGAR SUGAR PVT. LIMITED, GANGAPUR - Village

Half yearly report for the period of Apr - 2021 to Sep - 2021

Statement on Borewell water analysis report for the month of June '21

SI .No	Report No	UOM	12.06.2021	12.06.2021	12.06.2021	12.06.2021
			Borewell No -1 (Karibasappa Hanchinal land)	Borewell No -2 (Executive Quarters area)	Borewell No -3 (Factory main gate)	Borewell No -4 (Rangappa Dasar land)
1	Colour	Hazen Units	BDL	BDL	BDL	BDL
2	TDS	mg/Lit	1860	1740	1570	1390
3	pH at 25 Deg C	-----	7.54	7.82	7.2	7.46
4	Total Hardness	mg/Lit	580.2	570.6	436.2	438.9
5	Chloride (as Cl)	mg/Lit	274.9	266.8	241.8	228.2
6	Iron (as Fe)	mg/Lit	BDL	BDL	BDL	0.14


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VIJAYANAGAR SUGAR PVT. LIMITED, GANGAPUR - Village

Half yearly report for the period of Apr - 2021 to Sep - 2021

Statement on Peizo meter water analysis report for the month of July '21

Sl.No	Parameters	UOM	13.07.2021		13.07.2021		13.07.2021		13.07.2021	
			Piezometer no- 1	Piezometer no- 2	Piezometer no- 3	Piezometer no- 4	Piezometer no- 5	Piezometer no- 6		
1	Colour	Hazen Units	<5	<5	<5	<5	<5	<5	<5	
2	TDS	mg/Lit	1690	580	1210	920	820	650	650	
3	pH at 25 Deg C	----	7.19	7.32	7.69	7.62	7.4	7.39	7.39	
4	Chemical Oxygen Demand	mg/Lit	28	24	20	18	14	16	16	
5	Chloride (as Cl)	mg/Lit	298.5	36.9	174.5	70.6	74.5	91.4	91.4	
6	Total Hardness as CaCO3	mg/Lit	412.8	190.4	386	234.8	840.2	204.7	204.7	
7	Iron (as Fe)	mg/Lit	0.1	0.05	0.1	BDL	BDL	0.06	0.06	

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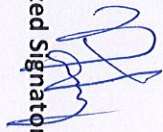
VJAYANAGAR SUGAR PVT LTD, GANGAPUR.
HALF YEARLY REPORTS FOR CO-GENERATION (APR - 2021 TO SEP - 2021)

We are furnishing details of Power Production, Power export to grid, Coal and Bagasse consumption, Ash generation, Monthly monitoring of Stack & Water consumption Reports from Apr - 2021 to Sep - 2021.

S.NO	Month & Year	Power Production (kwh)	Power Export to Grid (kwh)	Coal Consumption (MT)	Bagasse Consumption (MT)	Ash Generation (MT)	Water consumption (in m3)		Stack emission SPM Mg / Nm ³	Effluent discharge m ³
							Industrial Cooling	Boiler feed water		
1	Apr-21	405745	0	1806.5	0	54.195	1361	2473	37.86	0
2	May-21	0	0	1761.8	0	52.854	1482	2866	43.86	0
3	Jun-21	0	0	1113	0	33.39	1869	2051	41.76	0
4	Jul-21	0	0	310	0	9.3	988	359	39.62	0
5	Aug-21	0	0	0	0	0	0	0	0	0
6	Sep-21	0	0	0	0	0	0	0	0	0
	TOTAL	405745	0	4991.3	0	149.73	5700	7749	40.77	0

Note: Ash we are given to local brick manufactures on free of cost.

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VIJAYANAGAR SUGAR PVT. LIMITED, GANGAPUR - Village

Half yearly report for the period of Apr - 2021 - Sep - 2021

Health Inspection Report:

Name & Address of the Doctor : Dr. Laxman Pujar, Registered medical practioner, Taluk Hospital, Mundargi, Gadag District.

S.No	Name of the Employee	Age	Date of Examination	details (BP & PR)	Findings of TB, Jaundice	Contagious diseases	Skin diseases	Other (Eye)	Remarks
1	Goriparthi Krishna swamy	47	14.07.2021	130/80	Nil	Nil	Nil	R - 6/6 L - 6/6	Normal
2	Kumara Gamappa	49	14.07.2021	130/80	Nil	Nil	Nil	R - 6/6 L - 6/6	Normal
3	Hanumanthappa	44	14.07.2021	120/80	Nil	Nil	Nil	R - 6/6 L - 6/6	Normal
4	Gaddigeppa. K	38	14.07.2021	130/80	Nil	Nil	Nil	R - 6/6 L - 6/6	Normal
5	Nagaraja Hunisikaya	30	14.07.2021	130/80	Nil	Nil	Nil	R - 6/6 L - 6/6	Normal
6	Kasi Ganeswarao	41	14.07.2021	130/80	Nil	Nil	Nil	R - 6/6 L - 6/6	Normal
7	Manjunatha Meti	46	14.07.2021	130/80	Nil	Nil	Nil	R - 6/6 L - 6/6	Normal
8	S. Anand	42	14.07.2021	130/80	Nil	Nil	Nil	R - 6/6 L - 6/6	Normal
9	Maltesh Mugin	41	14.07.2021	120/80	Nil	Nil	Nil	R - 6/6 L - 6/6	Normal
10	Venkateswara Rao	44	14.07.2021	130/80	Nil	Nil	Nil	R - 6/6 L - 6/6	Normal
11	S. Poongavanam	41	14.07.2021	130/80	Nil	Nil	Nil	R - 6/6 L - 6/6	Normal
12	Sandeep Kumar	32	14.07.2021	120/80	Nil	Nil	Nil	R - 6/6 L - 6/6	Normal
13	Siddappa Bevinamarad	46	14.07.2021	120/80	Nil	Nil	Nil	R - 6/6 L - 6/6	Normal
14	Shivappa	38	14.07.2021	130/80	Nil	Nil	Nil	R - 6/6 L - 6/6	Normal
15	Nalluri Prasanna Kumar	49	14.07.2021	130/80	Nil	Nil	Nil	R - 6/6 L - 6/6	Normal


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ENVIRONMENT MANAGEMENT CELL

The project authorities have established an environmental management cell with have an environmental laboratory to carry out the Environmental management & monitoring functions. Our environment management cell comprises of,

- (1) Sir. B.Sivarami Reddy. Director (Operations)
- (2) Mr. Ramachandra Rao. DGM – Mechanical
- (3) Mr. Yuvaraj, AGM - Distillery
- (4) Mr. Tamilselven – AGM - Sugar Process
- (5) Mr. Phani Kumar, Manager- Sugar Engineering.
- (6) Mr. Tirumala Reddy. Manager – Water & Environment
- (7) Mr. Sunil Joshi, Dy. Manager. – WTP
- (8) Mr. H.Padmaraja, Env. Chemist.
- (9) Mr.Y.V. Badakappanavar Safety officer
- (10) Mr. K.Satish, Asst Manager (Civil)
- (11) Mr.Laxman. kulkarni. First AID.

For Vijayanagar Sugar Pvt. Ltd.,


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