



Godavari Biorefineries Ltd

Ref.GBL/SMR/QA&E/MoEF-EC/2019-20/144

Sugar Division  
04.06.2020

To,  
The Additional Principal Chief Conservator of Forest (c),  
Ministry of Environment & Forest  
Regional Office (South Zone).4<sup>th</sup> Floor, E&F Wings,  
Kendriya Sadan, 17<sup>th</sup> Main road, IInd BLOCK, Koramangala.  
Bangalore - 560034.

Sub: Half Yearly Compliance report for Environmental Clearance-Reg.  
Ref: Environmental Clearance No.SEIAA:1: IND: 2007 Dated 18.11.2009

Dear Sir,

With reference to the above mentioned subject and reference, please find enclosed herewith the point wise compliance report for the period from October-2019 to March-2020 Pertaining to 15000 TCD Sugar Plant & 45.56 MW Co-generation at M/s Godavari Biorefineries Limited A/P: Sameerwadi, Tal: Mudhol, Dist: Bagalkot,

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,  
For Godavari Biorefineries Limited,

  
B R Bakshi  
Director (works)  




Works : P O Sameerwadi, Tal Mudhol, Dist Bagalkot, Karnataka State - 587 316, INDIA  
Tel : (91-08350) 260046/ 47/ 48 Fax : (91-08350) 260037 Gram : 'SUGAR MILLS' Sameerwadi

Regd. Office : Somaiya Bhavan, 45/47, Mahatma Gandhi Road, Fort, Mumbai - 400 001 INDIA.  
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CIN No U67120MH1996PLC009797 • KST No 5080083-S w.e.f. 19-09-2002 • TN No 29100043219 w.e.f. 28-04-09



GST No: 29AABCG2543C1ZZ

**Half Yearly Compliance to Environment Clearance condition given for Expansion of sugar factory capacity from 7,500 to 15,000 TCD and Co-generation capacity from 24 to 46 MW at M/s Godavari Biorefineries Limited, Sameerwadi/Saidapur village, Modhol Taluka, Bagalkot District. (For the period October-2019 March 2020)**

Environmental Clearance No.SEIAA:1: IND: 2007 Dated 18.11.2009

Sy.No	Condition	Compliance
01	Suitable Air Pollution Control System (ESP/Wet scrubber) and stacks of appropriate height as per the CPCB guidelines shall be provided to control emissions from various sources and shall ensure emissions levels below the KSPCB prescribed standards. Separate electric meters should be provided to the Air pollution Monitoring System and a separate log book maintained for the daily meter readings and monthly report submitted to concerned Regional Officer, KSPCB & Regional Director (Environment), Department of Ecology and Environment, Government of Karnataka, Belgaum. The production process should be interlocked with the Air Pollution control systems.	For Co-gen. Boilers ESP are provided & for Sugar Boilers Wet Scrubbers are provided as APC Control System. Stack heights are as per CPCB guidelines and the emissions from various sources are within stipulated norms given by KSPCB standards. Separate electrical meters are installed for air monitoring system and separate logbook maintained for meter readings. Reports being submitted to Regional Officer, KSPCB Bagalkot. We have provided alarm system in DCS for immediate action to control production. APC, Stack and Boiler details are enclosed as <b>Annexure-I</b> and the data attached as <b>Annexure-II</b>
02	ETP treated water shall not be let out of the industry's premises and should be used for farming/ gardening within.	The sugar trade effluent is treated in Sugar E.T.P and treated water is used to irrigate our own farming and gardening and also to nearby farmers. We are not letting out any effluent out of our Industry premises. <b>The agriculture management plan and Waste water generation data is enclosed as Annexure-III</b>
03	Ash generated should be mixed with press mud and composted and used or given to farmers as manure. 100% utilization of ash should be ensured from the date of operation of the plant. The project authorities shall adhere to the provision stipulated in the fly ash notification of September, 1999 and as amended in August 2003 in regard to fly ash utilization.	Daily 30 MT of Ash is utilized in Bio-compost process with 600 MT of Press mud. Also ash is sold to farmers & brick manufactures. The Industry ensures that 100% utilization of Boiler ash will be strictly followed as per Fly ash Notifications of September 1999 and amend in August 2003
04	All the conditions stipulated in CFE/CFO issued by Karnataka State Pollution Control Board shall be strictly implemented	Already implemented
05	Only bagasse / biomass should be used as fuel. Not to use wood logs, coal as fuel & no other fuels should be used.	The Industry is installed bagasse fired boilers with APC equipment and ensures that only bagasse / biomass will be used as fuel.
06	No ground water shall be drawn for the power plant at any stage. Treated effluents shall be used for sugar cane seed farm / green belt development. These should be no wastewater discharge from the plant.	We are not drawing any ground water for power plant. We are not discharging any waste water from plant and are being used for garden and green belt watering after



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		treatment.
07	For controlling fugitive dust inside and outside the plant premises and vulnerable area of the plant, dust extraction and suppression system and water sprinklers shall be ensured.	Industry has taken all the precautionary measures to control fugitive emission inside and outside the plant premises and vulnerable area. Water sprinkler system has been adopted to mitigate fugitive emission. <b>The photo graphs are enclosed as annexure-IV</b>
08	Noise level shall be limited to 75 dBA. For people working in high noise area, requisite personal protective equipment like earplugs etc. shall be provided.	The industry has provided the protective equipment like earplug etc., to all working personnel at higher noise area, both the TG and DG has been provided with acoustic enclosures. With all these protective measures noise levels are not exceeding 75 dBA at the factory premises. <b>The analysis report attached as Annexure-V</b>
09	Minimum 33% green area should be developed in the project area. Planting should done with tree density of about 1111 trees per ha. i.e. at an escapement of 3mX3m and cover with suitable local perennial tree species.	The greenbelt development is already been done in 126 acres of land out of 382.07 acres project area. We have continuously developing green belt area in and around the factory premises for perennial tree species. Recently we have done about 15 acres coconut plantation either side of factory entrance road. The total Tree population as on date is 32054. <b>The photo graphs are enclosed as annexure-VI</b>
10	The gaseous emissions (SO <sub>2</sub> & NO <sub>X</sub> ) and particulate matter from Boilers, D.G sets and other processes shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation under intimation to the Regional Officer, KSPCB & Regional Director (Environment), Department of Ecology and Environment, Government of Karnataka, Bagalkot and shall not be restarted until the desired efficiency has been achieved.	We are regularly monitoring by MOEF recognized lab. The Industry also ensures that it will not operate the unit, in case of failure of any pollution control system adopted and same will be communicated to Regional Officer, KSPCB and Regional Director (Environment), Dept. of Ecology and Environment GoK, Bagalkot. The unit will not be restarted until the rectification to the desired efficiency level. <b>The data enclosed as annexure-VII</b>
11	The Project authorities shall develop separate drain for storm and waste water so that during rains, wastewater is not mixed with the	Separate drain for storm and wastewater has been provided. There is no chances of waste water is



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	stormwater. The wastewater drains shall be provided with V-notch for monitoring the quantity of wastewater and the wastewater quantity shall be limited to the extent of permission of Karnataka State Pollution Control Board.	mixing with storm water. Industry has provided flow meters for measuring the waste water generation and the quantity of the waste water generation are well within the norms as prescribed by the KSPCB. The industry also installed Online Effluent Monitoring system to monitor BOD, COD, pH, TSS and Flow parameters. The data is connected to CPCB server. <b>The analysis and Online data enclosed annexure-VIII</b>
12	The company shall take adequate steps to avoid odour nuisance from disposal of press mud and ETP sludge. The transportation of these shall be in covered means.	Adequate measures are taken to avoid odour nuisance from press mud and ETP sludge. The transportation will be done in covered means.
13	The company shall develop covered storage areas for lime, sulphure, and Phosphoric acid to avoid mixing of the same with the rainwater for the existing sugarcane plant.	Company has already provided covered storage godowns for lime, sulphur & phosphoric acid to avoid mixing with rain water
14	Regular monitoring of the air and water quality should be carried out in and around the power plant and records be maintained. Six monthly reports shall be submitted to the SEIAA Karnataka, MOEF Regional Office, Bangalore, Department of Environment and Ecology, Government of Karnataka and Regional Director (Environment), Department of Ecology and Environment, Government of Karnataka, Belgaum.	We are regularly monitoring air and water quality in and around power plant and records are maintained. Six monthly compiled reports are submitted to all statutory Authorities as per the MoEF guidelines. <b>The data enclosed as annexure-IX</b>
15	Adequate numbers of ground water quality monitoring stations shall be set up around the green belt area. These monitoring stations will be provided with piezometers. The company shall monitor six monthly, the soil and ground water quality in the plant and green belt area to ensure that there shall not be ground water pollution and reports submitted to Ministry's Regional Office/SPCB/CPCB, Department of Environment and Ecology, Government of Karnataka, Bangalore and the Regional Director (Environment) Department of Ecology and Environment, Government of Karnataka, Bagalkot.	The industry has provided adequate numbers of ground water monitoring stations around the plant Piezometers are also provided. The reports are common for the entire complex. Six monthly compiled reports are submitted to all statutory Authorities as per the MoEF guidelines The reports are enclosed as <b>Annexure-X &amp; XI</b>
16	The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in	The industry has published in the Newspapers. The Xerox copies of the same are already submitted along



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	the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Karnataka State Pollution Control Board and Authority website at <a href="http://seina.kar.nic.in">http://seina.kar.nic.in</a>	with compliance report.
17	A separate environment and safety management cell with qualified staff shall be set up with a representative from co-generation before commission of construction activities and shall be maintained throughout the lifetime of the industry, for implementation of the stipulated environmental safeguards.	We have already having separate Environment Management cell and Safety cell with qualified & experienced staff.  1. Mr. Prakash Bondre- GM (QA&E) 2. Mr. M.N.Jambur- Manager (Env) 3. Mr. M.S. Godi, Dy. Manager (WTP) 4. Mr. R. V. Deshapande Dy.Manager (Safety) 5. Mr. K. Bandekar -Jr.Officer ( Safety) With 12 Nos. Safety Guards.
18	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to SEIAA, Karnataka / Regional Office of Ministry of Environment & Forests, Bangalore/ CPCP/KSPCB, Department of Environment and Ecology, Government of Karnataka and Regional Director (Environment), Department of Ecology and Environment, Government of Karnataka, Belgaum.	We are submitting the Half Yearly compliance report to all statutory Authorities.
19	Karnataka SEIAA / Regional Office of the Ministry of Environment and Forests located at Bangalore/Department of Environment and Ecology, Government of Karnataka and the Regional Director (Environment), Department of Ecology and Environment, Government of Karnataka, Bagalkot will monitor the implementation of the stipulated conditions. Complete set of Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office of MOEF Bangalore / SEIAA, Karnataka / Department of Ecology and Environment, Government of Karnataka and the Regional Director	Complete set of Environmental Impact Assessment report has already been submitted to the concerned authorities.



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	(Environment) Department of Ecology and Environment, Government of Karnataka, Belgaum for their use during monitoring.	
20	Separate funds should be allocated for implementation of Environmental protection measures along with item-wise break up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year wise expenditure should be reported to the, SEIAA Karnataka, MOEF regional office, Bangalore, Department of Environment and Ecology, Government of Karnataka and Regional Director, (Environment), Department of Ecology and Environment, Government of Karnataka, Belgaum.	The industry has already implemented environmental protection/control measures. The cost of the installation of the APC equipment and ETP is about 4.46 Cr. <b>The year wise expenditure is enclosed as Annexure-XII</b>
21	The project authorities should inform the SEIAA, Karnataka/ Department of Environment and Ecology, Government of Karnataka / Regional Director, (Environment), Department of Ecology and Environment, Government of Karnataka, Belgaum/ Regional office of the Ministry of Environment and Forests regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	Regarding financial closures and final approval by concerned authorities. a) Date of start of land development March 2010. b) Date of commissioning December 2011.
22	The project Authorities shall provide proper rain water harvesting and ground water recharge facilities and report be submitted.	We have already provided proper rainwater harvesting pond and facilities for ground water recharge.
23	Full cooperation should be extended to the Ministry at Bangalore/ the CPCB/ the KSPCB/ the department of Environment and Ecology, Government of Karnataka / Regional Director (Environment), Department of Ecology and Environment, Government of Karnataka, Belgaum who would be monitoring the compliance of conditions.	We are giving full co-operation to the Ministry at Bangalore/ the CPCB/ the KSPCB/ the department of Environment and Ecology, Government of Karnataka / Regional Director (Environment), Department of Ecology and Environment, Government of Karnataka, Belgaum who would be monitoring the compliance of conditions.
24	A master plan for social commitment giving details of proposed works/ activities and expenditure year wise to be prepared and submitted to SEIAA and shall be implemented strictly.	We are having separate CSR (Corporate social Responsibility) activities to take care of social welfare development and substantial expenditure is made



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25	The project proponent shall undertake the medical checkup camps in the nearby villages, provide educational facility to the students and provide library, drinking water for Hallur, Kesarakopa, Handigunda Schools etc., with a budget not less than Rs.13.25lakhs and Rs.2lakhs for establishment of theme park in the Science Centre, Dharawad towards the corporate social commitment made vide letter dated 09-11-2009 & 17-11-2009 as committed and report be submitted to the Authority.	We are conducting medical check up camp from refuted medial staff from KLE Belgaum and Mumbai and we are providing educational facility to the students under Help a child scheme from CSR.
26	The project proponent should display the conditions prominently at the entrance of the project on a big panel board for the information of the public.	Information board is displayed at the entrance of the project / factory
27	The infrastructure of transport roads linking to the nearest main road shall be improved and maintained by the proponent.	We have improved the infrastructure facility by maintaining nearest main roads and linking roads.
28	The SEIAA reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.	Agreed and abide by the condition.
29	The environmental clearance accorded shall be valid for a period of 05 years or date of commencement of operation of the power plant, whichever is earlier. In case the project authorities fail to do so within this stipulated period, this environmental clearance shall stand impaled automatically.	The Expansion of Sugar and Co-gen project is completed. a) Date of start of land development March 2010. b) Date of commissioning December 2011.
30	No further expansion or modifications in the plant shall be carried out without prior approval from the SEIAA Karnataka. In case of any deviation or alteration in the project proposed from those submitted to this SEIAA to assess the adequacy of the conditions imposed and to add additional conditions for environmental protection required if any.	Agreed
31	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollutions) Act, 1974, the Air (Prevention and Control of 3Pollution ) At 1981, the Environment (Protection ) Act, 1986 Hazardous Wasters (Management and Handling ) Rules , 1989 and its amendments, the Public Liability Insurance Act, 1991 ad its amendments, the Environment Impact Assessment Notification of January , 2006 and their subsequent manufacture, storage and Import of Hazardous Chemicals Rules, 1989 amendments	Agreed



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32	The issue of Environment Clearance doesn't confer any right to the project proponent to operate / run the project without obtaining statutory clearances / sanctions form all other concerned Authorities	Agreed
33	Concealing factual date or submission of 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.	Agreed
34	Any Appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30days as prescribed under section 11 of the National Environment Appellate Authority Act, 1997	Agreed

Date: 04.06.2020  
Place: Sameerwadi

For Godavari Biorefineries Limited

  
Director (Works)



**DETAILS OF THE COMPANY, CONTACT PERSONS & CURRENT  
STATUS OF THE PROJECT**

Contact details, address, telephone/mobile Number of Company/Executives	B R Bakshi Director (works) Godavari Biorefineries Limited A/P: Sameerwadi, Tal: Mudhol, Dist: Bagalkot, Pin-587316, Phone: 08350-260046/47
E-mail ID & Website address of the company	Company E-mail ID: director.sameerwadi@somaiya.com Website: www.somaiya.com
Name and Contact details of the Responsible person	Mallikarjun jambur, Sr. Manager (Environment) E-mail: jambur.mallikarjun@somaiya.com Contact No: 9606959873
Current status of the project	The Expansion of the Sugar & co-gen unit Has been completed and Date of commissioning: December 2011.  Capacity of the sugar cane crushing Unit is 15000 TCD and Co-gen 45.56 MW  The sugar unit will function during October to April period and the co-gen Unit will function from October to May.



**Godavari Biorefineries Limited**  
**Sameerwadi-587316**

ANNEXURE-I

Sl No	Description	Remarks
1	Name & Address of Industry	Godavari Biorefineries Limited A/p: Sameerwadi, Tal: Mudhol, Dist: Bagalkot, Karnataka State
2	Number of boilers installed with capacity (Steam generation ton/hr or electricity production MW)	Copy enclosed as Annexure No-IA
3	Type of Boiler	Water tube
4	Type & quantity of fuel used (Ton/hr)	Bagasse /Coal (supplementary fuel in case of emergency)
4.1	Characteristics of fuel	
4.2	Ash content (%)	1.5
4.3	Sulphur content (%)	Nil
5	Source of fuel	Sugarcane
6	Stack Details	
6.1	Height of stack attached to the boiler(m)	
6.2	Stack Diameter(m)	Details enclosed as Annexure No-IA
6.3	Stack gas velocity(m/s)	
7	Type of Air Pollution Control equipment installed such as cyclone, multicyclone, bag filter, ESP, FGD or any other	Details enclosed as Annexure No-IA
8	Details of emissions	
	PM(Mg/NM3)	Details enclosed as Annexure No-IA
	So <sub>2</sub> (Mg/Nm <sup>3</sup> )	NA
	Nox (Mg/Nm <sup>3</sup> )	NA
9	Emission Limit as stipulated by SPCB in the consent order ,if any	
	PM(Mg/NM3)	150 mg/NM <sup>3</sup>
	So <sub>2</sub> (Mg/Nm <sup>3</sup> )	NA
	Nox(Mg/ Nm <sup>3</sup> )	NA



**Godavari Biorefineries Limited  
Sameerwadi-587316**

**Annexure No-I**

Sl no	Boiler details	Capacity (TPH)	Stack diameter (meter)	Stack height (meter)	PM (Mg/NM3)	Stack gas velocity (m/s)	Fuel type & Qty T/hr	APC	Remarks
<b>Sugar</b>									
1	Boiler No-1 Type :Water tube Model no: MYS 1563	37.5	1.98	42	109	11.99	Bagasse 19	Wet Scrubber	Working Kept idel
2.	Boiler No-2 & 3 Type :Water tube Model no:MYS 1239 & MYS 1240	20 X2 Nos	2.5	43	125.1	10.5	Bagasse 20	Wet Scrubber	Working Kept idel
3.	Boiler No- 4 Type :Water tube Model no:MYS 1290	20	1.6	35	Kept idle		Bagasse 10	Wet Scrubber	Working Kept idel
4.	Boiler No-5 Type: Water tube Model no: MYS 1357	37.5	1.98	42	112	11.91	Bagasse 19	Wet Scrubber	Working
5.	Boiler No-7 Type : Water tube	45	2.2	45	114	11.79	Bagasse 22.5	Wet Scrubber	Working
6.	Boiler No-8 Model No : KTK -4988 Type: Water cum smoke	1.5	0.3	32	105	6.15	Bagasse 0.7	Cyclone	Working Kept idel
<b>Co-generation</b>									
6.	Boiler No-1 Type : Bydrum water tube Model No: KTK 2394	130	3.2	70	76	10.3	Bagasse 59	ESP	Working
7.	Boiler No-2 Type:Bydrum Water tube Model No KTK 3730	120	3.2	70	68	10.18	Bagasse 55	ESP	Working



**Godavari Biorefineries Limited  
Sameerwadi-587316**

**ANNEXURE-II**

**Electrical Meter Readings for ESP & ETP Units  
For the year 2019-2020**

MONTH	CANE CRUSHING MT	POWER GENERATION MWH	ESP POWER CONSUMPTION UNITS KWH					
			ESP-1			ESP-2		
			FINAL	INITIAL	TOTAL	FINAL	INITIAL	TOTAL
OCT-19	-	1649	724480	720347	4133	597234	597234	0
NOV-19	198050	12968	735660	724480	11180	606614	597234	9380
DEC-19	495050	29904	757989	735660	22329	633109	606614	26495
JAN-20	485000	29529	780172	757989	22183	659167	633109	26058
FEB-20	324680	25335	801205	780172	21033	683740	659167	24573
MAR-20	23829.89	12480	823448	801205	22243	688773	683740	5033
<b>TOTAL</b>	<b>1526609.89</b>	<b>111865</b>			<b>103101</b>			<b>91539</b>

Month & Year	ETP POWER CONSUMPTION UNITS KWH				ETP POWER CONSUMPTION UNITS KWH		
	1500 KLD				1000 KLD		
	INITIAL	FINAL	Diff	Total (Diff X 60) kwh	INITIAL	FINAL	
OCT-19	24521.88	24633.99	112.11	6726.6	459079.6	463891.8	4812.2
NOV-19	24633.99	25062.60	428.61	25716.6	463891.8	479477.9	15586.1
DEC-19	25062.60	25513.98	451.38	27082.8	479477.9	500680.4	21202.5
JAN-20	25513.98	25954.44	440.46	26427.6	500680.4	521730.2	21049.8
FEB-20	25954.44	26370.90	416.46	24987.6	521730.2	543285.1	21554.9
MAR-20	26370.90	26591.12	220.22	13213.2	543285.1	552487.5	9202.4
<b>TOTAL</b>				<b>124154.4</b>			<b>93407.9</b>



Godavari Biorefineries Limited  
Sameerwadi-587316

ANNEXURE-III

MONTHLY EXTRACT OF EFFLUENT GENERATION & TREATMENT FOR YEAR 2019-2020

MONTHS	CANE CRUSHING	EFFLUENT GENERATION	EFFLUENT TREATED & DISPOSED	EFFLUENT In Stock
	MT	M <sup>3</sup>	M <sup>3</sup>	M <sup>3</sup>
OCT -19	--	--	--	--
NOV-19	198050	5026	3054	1972
DEC-19	495050	23811	19899	5884
JAN-20	485000	27581	26741	6724
FEB-20	324680	26379	27870	5233
MAR-20	23829.89	2058	6480	811
TOTAL	1526609.89	84855	84044	811



AGRICULTURAL MANAGEMENT PLAN: 2019-20



Land owner	Land in Acres	Type of soil	Standard loading rates (m3/Ha/Day)	Loading Rates (m3/Ha/Day)	No. of Application Per Month	NOV 2019 (KL)	DEC 2019 (KL)	JAN 2020 (KL)	FEB 2020 (KL)	MAR 2020 (KL)
Hanumanth S banaj	1.0	Clay Loam	55-110	60-70	3-6	140	160	60	0	120
Shivalingappa banaj	3.30	Clay Loam	55-110	60-70	4-5	0	280	380	120	380
Shrishil Rachappa Wali	3.00	Clay Loam	55-110	60-70	4-6	80	420	180	360	280
Shankar D Wali	3.00	Clay Loam	55-110	60-70	5-6	0	320	190	130	80
Shaker G Shirol Kiran	1.00	Clay Loam	55-110	60-70	3-6	80	230	260	180	150
Manju basappps Naik	1.00	Clay Loam	55-110	60-70	2-3	0	120	40	0	80
Savitri suresh Shirol	1.00	Clay Loam	55-110	60-70	5-6	120	80	240	180	160
Hanumant H Naik	2.00	Clay Loam	55-110	60-70	5-8	0	60	0	0	120
Ashok Naik	1.00	Clay Loam	55-110	60-70	4-6	0	380	220	260	180
Prakash Gundappa Naik	2.00	Clay Loam	55-110	60-70	6-8	0	80	380	260	380

Godavari Biorefineries Limited  
Sameerwadi

Adevappa Rajappa Wali	1.00	Clay Loam	55-110	60-70	5-7	0	60	120	0	30
Mallappa Satyappa Banaj	1.00	Clay Loam	55-110	60-70	2-3	0	40	80	0	40
Shivanaik B Naik	4.00	Clay Loam	55-110	60-70	3-5	140	320	340	160	180
Kumar Adevappa Naik	1.00	Clay Loam	55-110	60-70	3-5	80	180	120	180	160
Vivak Malkapur	1.00	Clay Loam	55-110	60-70	6-8	0	180	220	0	40
Shivnaik Naik	1.00	Clay Loam	55-110	60-70	4-6	0	160	80	120	80
Parasappa Satyappa Banaj	1.00	Clay Loam	55-110	60-70	4-6	60	160	220	40	40
GSM	93.00	Clay Loam	55-110	60-70	12-15	1640	10860	14840	16680	7182
<b>Total for Irrigation</b>										
						2340	14090	17970	18670	9682
Treated water used for Gardening (KL)										
						680	4662	5720	5620	4610
Month wise treated water consumed (KL)										
						3020	18752	23690	24290	14292
Total Treated water Generated (KL)										
									84855	
Total Treated water consumed (KL)										
						Nil	Nil	Nil	811	Nil
Balanced treated water										



**Godavari Biorefineries Limited, Sameerwadi  
Annexure-IV**



**Godavari Biorefineries Limited, Sameerwadi  
Annexure-IV**



**Godavari Biorefineries Limited**  
**Sameerwadi-587316**

**ANNEXURE-V**

**Noise Level Measurement Report -2019-2020**

Location of recording sound level	Standard Limit dB (A) Leq	Time	Nov-19 dB (A) Leq	Dec-19 dB (A) Leq	Jan-20 dB (A) Leq	Feb-20 dB (A) Leq
Sugar Main Gate	75	Day	--	58.2	--	--
	70	Night	--	50.7	--	--
Cane Cutter	75	Day	--	71.4	--	--
	70	Night	--	67.6	--	--
Mill House	75	Day	--	72.9	--	--
	70	Night	--	68.1	--	--
Boiling House	75	Day	--	72.5	--	--
	70	Night	--	67.9	--	--
Sugar Bagging House	75	Day	--	71.3	--	--
	70	Night	--	66.5	--	--



**Godavari Biorefineries Limited Sameerwadi**  
**Annexure-VI**



**Godavari Biorefineries Limited Sameerwadi  
Annexure-VI**



**Godavari Biorefineries Limited Sameerwadi  
Annexure-VI**



**Godavari Biorefineries Limited**  
**Sameerwadi-587316**

**ANNEXURE- VII**

**Boiler stack monitoring results for the year 2019-2020**

MONTH AND YEAR	Stack No 1 130 TPH				Stack No 2 120 TPH				Stack No 1 TPH				Stack No 5 TPH			
	SPM mg/Nm <sup>3</sup>	SOX	NOX	Flue gas Outlet Temp Deg C	SPM mg/Nm <sup>3</sup>	SOX	NOX	Flue gas Outlet Temp Deg C	SPM mg/Nm <sup>3</sup>	SOX	NOX	Flue gas Outlet Temp Deg C	SPM mg/Nm <sup>3</sup>	SOX	NOX	Flue gas Outlet Temp Deg C
NOV-19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DEC-19	98	54	21	108	90	46	20	119	114	53	22	129	109	48	21	124
JAN-20	106	55	23	112	98	47	21	121	110	52	23	122	--	--	--	--
FEB-20	102	52	21	116	108	55	24	125	-	-	-	-	109	51	20	124
MAR-20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AVERAGE	102	--	--	112	98.6	--	--	121.6	112	--	--	125.5	109	--	--	124



**Godavari Biorefineries Limited**  
**Sameerwadi-587316**

**ANNEXURE- VIII**

**Treated Effluent Analysis Report for the Crushing season – 2019-2020**

Sr. no	Parameters	UOM	Standards As per KSPCB	OCT-19	NOV-19	DEC-19	JAN-20	FEB-20	MAR-20
1	PH		6.5-8.5	Plant not in operation	--	7.80	7.62	7.59	--
2	Color & Odor		Colorless & Odorless		--	--	--	--	--
3	Dissolved solids	Mg/l	2100		--	590	530	529	--
4	Oil & Grease	Mg/l	10		--	ND	ND	ND	--
5	B.O.D	Mg/l	100		--	49	48	41	--
6	C.O.D	Mg/l	250		--	146	140	127	--
7	Chlorides as Cl	Mg/l	600		--	160	145	134	--
8	Sulphates as So <sub>4</sub>	Mg/l	1000		--	98	90	92	--
9	Suspended solids	Mg/l	100		--	54	52	55	--



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ANNEXURE-VIII

ETP Online Monitoring Average Report-2019-2020

Parameters	PH	B.O.D (mg/l)	C.O.D (mg/l)	FLOW (m <sup>3</sup> )	TSS (mg/l)
NOV-19	--	--	--	--	--
DEC-19	7.63	38.46	116.36	23.69	27.56
JAN-20	7.50	40.27	117.91	33.67	21.04
FEB-20	8.26	27.42	80.28	37.74	19.49
MARCH-20	--	--	--	--	--



**Godavari Biorefineries Limited  
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**ANNEXURE – IX**

**Statistical Interpretation of AAQ for 2019-2020**

MONTH& YEAR	Location		Parameters			
	Sampling station	Wind direction	PM <sub>2.5</sub> µg/M <sup>3</sup>	PM <sub>10</sub> µg/M <sup>3</sup>	NO <sub>x</sub> µg/M <sup>3</sup>	SO <sub>2</sub> µg/M <sup>3</sup>
OCT-19	UNIT NOT IN OPERATION					
NOV-19	--	--	--	--	--	--
DEC-19	Near Sugar Main Gate	Easterly	33	69	09.00	12.00
	Near Switch Yard	Easterly	34	85	14.00	18.00
JAN-20	Near Sugar Main Gate	Easterly	31	68	08.00	10.00
	Shivalingeshwar Temple	Easterly	22	57	06.00	08.00
FEB-20	Near Sugar Main Gate	Easterly	32	70	12.00	10.00
	Near Switch Yard	Easterly	30	73	14.00	11.00
March-20	--	--	--	--	--	--



**Godavari Biorefineries Limited  
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**ANNEXURE-X**

**Borewell water analysis report 2019-2020**

Sr.no	Test Parameter	Units	Nov-2019	DEC-2019	JAN-2020	FEB-2020	MARCH-2020
			--	KIAAR Bore 120 Form	Hanamanth Satyappa Banaj	Hanamanth Satyappa Naik	--
1.	Color	Hazen	--	<5	<5	<5	--
2.	Odor	--	--	Agreeable	Agreeable	Agreeable	--
3.	pH	--	--	7.33	7.63	7.09	--
4.	Turbidity	NTU	--	0.1	0.1	0.1	--
5.	Total Alkalinity (as CaCO <sub>3</sub> )	Mg/l	--	184	210	250	--
6.	C.O.D	Mg/l	--	12	31	26	--
7.	B.O.D	Mg/l	--	<4	<4	<4	--
8.	Total Dissolve Solids	Mg/l	--	414	590	518	--
9.	Chlorides (as cl)	Mg/l	--	120	172	106	--
10.	Hardness (as CaCO <sub>3</sub> )	Mg/l	--	381	604	490	--
11.	Calcium (as Ca)	Mg/l	--	92	138	119	--
12.	Magnesium (as Mg)	Mg/l	--	37	63	47	--
13.	Sodium (as Na)	Mg/l	--	78.1	122.4	90.8	--
14.	Potassium (as K)	Mg/l	--	1.2	4.2	4.1	--
15.	% Na (Max)	%	--	30.7	30.41	28.49	--
16.	Sodium Absorption Ratio	---	--	1.73	2.16	1.78	--
17.	Residual Sodium Carbonate	meq/l	--	-4.0	-7.95	-4.86	--
18.	Electrical Conductivity	mhos/cm	--	610	1140	835	--



**Godavari Biorefineries Limited**  
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ANNEXURE-XI

Soil analysis Report -2019-2020

Sl.no	Parameter	Units	Nov-2019		Dec-2019		Feb-2020
			Baramappa Hanmant Sandi	Mahadev Lakappa Ajappagol	Ishwarappa Terdal	Basappa Rachyappa Wali	
1.	pH	--	7.79	6.86	8.37	7.82	8.37
2.	Conductivity	Mmhos/cm	0.248	0.634	0.348	0.336	0.214
3.	Mineralizable Nitrogen	%	0.0053	0.0041	0.0045	0.0051	0.0049
4.	Available phosphorus	Kg/ha	69	64	25	47	21
5.	Available Potassium	Kg/ha	630	790	380	510	460
6.	Organic Carbon	%	0.73	0.82	0.59	0.83	0.52
7.	Calcium (as Ca)	%	3.58	3.17	2.23	1.56	2.84
8.	Magnesium(as Mg)	%	0.42	0.29	0.15	0.19	0.15



Godavari Biorefineries Limited  
Sameerwadi

Annexure-XII  
Year Wise Expenditure for Environment Protection  
WATER POLLUTION

Cost Center/Group				
Person responsible:				
Gl.Acct.No	Cost Elements	2017-18	2018-19	2019-20
90213	CONSUMPTION - FUELS	302.99	1,007.80	1,000.06
90231	MATRL ISSUED-VENDORS			
90261	Other RM Consumption	40,070.00		38,800.00
90262	Operating Supl Cons.	304,313.37	114,404.40	118,023.96
92240	Puc Proj/Ord-Capital			
92250	PurProj/Ord-Mjr/shut	148,000.51	975,578.31	808,616.05
92260	Pur Proj/Ord-Normal			
92350	Spare Parts Cons.	52,791.72	443,076.45	1,031,866.98
92361	Store Chem.Consumptn			
92410	Transport Chrg-In.			
92430	Water Cons.-Steam	70,200.00	83,700.00	
93020	REP & MAINT-MACHINERY	3,300.00	43,200.00	161,985.00
93022	REPAIRS & MAINT-OTHR	103,300.00	194,250.00	42,150.00
93023	REPAIRS TO VEHICLES	661.00	100	700
94160	Contract /Process Ch	1,104,098.50	1,230,775.00	1,338,600.00
94490	Seminar Expenses		3,000.00	11,080.00
94580	Training Charges			
94760	Sludge Removal Exp		125,000.00	17,000.00
95150	Professional Fees	222,200.00		
95220	Analysis Fees-Others	38,602.00	72,790.00	5,500.00
95480	Fees and Stamp Duty	500.00	200	410
95490	Fines&Penalty Paid			
95650	Premium-Vehicle	1,297.00	1,246.00	1,513.00
95660	Internet Charges			
95700	LocalTravel-Officers	10,548.60	5,067.00	7,242.00
95710	LocalTravel-Others	225.92		575
95760	Misc. Exp.-Others	8,333.00		2,660.00
95770	Misc. Exp.-Photo Exp.	905.00	700	
95830	Outstat.Travel-Offcr		440	4,216.00
95850	Outstat.Trav.-O/sidr			
95900	Postage&Telegram			100
95910	Printing & Stationary	1,830.10	4,843.15	4,030.08
95960	Rts&tAXES-Rd.&Oth.Tx			
95970	Rts&tAXES-Poll.Cess.	175,724.00	150,000.00	150,000.00
96130	Tele.&Telex Charges		5,347.42	6,590.38
96182	A.M.C. CHARGES		60,000.00	
96210	Vehicle Hiring Chrgs	71,182.16		
96220	Vehicle Running Exp.	2,873.89	3,913.51	3,400.18
97550	Depreciation-Normal	2,828,136.84	4,319,842.85	2,515,453.04
	Total	5,189,396.60	7,838,481.89	6,271,511.73
<b>Cost Centre : GMPC-AIR</b>				
Gl.Acct.No	Cost Elements	2017-18	2018-19	
92410	Transport Chrg-In.			
95220	Analysis Fees-Others	155,666.00	109650	18,400.00
95910	Printing & Stationary			
95970	Rts&tAXES-Poll.Cess.	150,000.00	150,000.00	150,000.00
96210	Vehicle Hiring Chrgs			
97550	Depreciation-Normal	92,055.00	92,055.00	84,383.75
	Total	397,721.00	351,705.00	252,783.75

