

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Consent No: Format 1.0/ BO/CAC-Cell/EIC No:-NK-15451-13/CAC/CC-2980

Date-27/03/2014

To,

M/s. Godavari Biorefineries Ltd
PO- Sakarwadi, Taluka- Kopergaon,
Dist. Ahmednagar- 413 708

Subject: Renewal of Consent along with amalgamation of Chemical & R & D unit
Consents under RED category.

- Ref:- 1) BO/RO NASHIK/PCI-I/EIC-NK- 2745-09/O/CC-147 dtd. 21.07.2009
2) BO /JD(WPC)/EIC No. NK-9843- 11/CAC-6268 dtd. 26.07.2013
3) BO/RO Nashik/PCI-I/EIC-896-07/O/CC- 307 dtd. 07.02.2007
4) MPCB/WPAE/Amendment/A Nagar/CC-512 dtd. 07.07.2006
5) Minutes of CAC meeting held on 16.01.2014

Your application: CO1310000406.

Dated: 19.08.2013.

For: Renewal of Consent alongwith amalgamation of Chemical & R & D unit
Consents.

under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under
Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and
Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is
considered and the consent is hereby granted subject to the following terms and
conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The consent is granted for a period 31/08/2014.
2. The actual capital investment of the industry is Rs. 114.90 Crs. (As per CA Certificate submitted by industry)
3. The Consent is valid for the manufacture of-

S. No	Product Name	UOM	Consented
1	Industrial Alcohol	MT/M	1800.00
2	Fusel Oil	MT/M	2.5
3	Acetaldehyde	MT/M	1500.0
4	Acetic Acid	MT/M	1500.0
5	Dilute Acetic Acid	MT/M	110.0
6	Ethyl Acetate	MT/M	5400.0
<i>Chemical Plant Products:</i>			
7	Crotonaldehyde	MT/M	500
8	Paraldehyde	MT/M	60
<i>R & D Activity (Products) - only one product manufacture at a time</i>			
9	Acetaldehyde Diethyl Acetal	MT/M	20.00
10	Ethyl Crotonate	MT/M	7.5
11	Tri- Ethoxy Butane (Somsal -65%)	MT/M	21.0
12	Herbal Extract	MT/M	0.3
13	Methyl Crotonate	MT/M	9.0
14	Methyl Beta- Amino Crotonate	MT/M	15.0
15	Ethyl Beta- Amino Crotonate	MT/M	30.0

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	784	As per Schedule -I	On land for gardening
2.	Domestic effluent	100	As per Schedule -I	On land for gardening

5. Conditions under Air (P&CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Boiler (18 TPH)	1	As per Schedule -II
2.	Boiler (12 TPH)	1	As per Schedule -II
3.	Boiler (18 TPH)	1	As per Schedule -II
4.	DG set of 590 KVA.	1	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Boiler Ash	28 MT/D	—	Sent to brick manufacturers
2	Dust	3 MT/D	—	Sent to brick manufacturers

7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Cat.	Quantity	UOM	Treatment	Disposal
1	Used/ Spent Oil	5.1	50	Litrs./M	—	CHWTSDF/Sent to authorised recycler/ reprocessor
2	Process Residue	19.1	192	Kg/day	—	CHWTSDF

8. The Board reserves the right to review, amend, suspend, revoke etc. this Consent and the same shall be binding on the industry.

9. Industry shall not operate the distillery unit till CPCB issues restart directions.

10. Industry shall comply with the directions issued by the Board vide dtd 11.02.2014 & CPCB vide dtd 15.10.2013

11. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

For and on behalf of the
Maharashtra Pollution Control Board

(Rajeev Kumar Mital, IAS)
Member Secretary

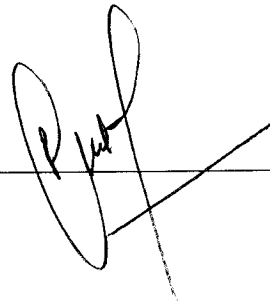
Received Consent fee of-

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	457417/-	011023	13.08.2013	Bank of Baroda
2	286669/-	011139	12.03.2014	Bank of Baroda

Copy to:

1. **Regional Officer – Nasik**
 2. **Sub-Regional Officer- Ahmednagar, MPCB. SRO SRO shall carry out monthly monitoring of Godavari Bio-refineries and submit report to HQ.**
- They are directed to ensure the compliance of the consent conditions.**
3. **Chief Accounts Officer, MPCB, Mumbai.**
 4. **CC/CAC desk- for record & website updation purposes.**

Maharashtra Pollution Control Board



Schedule-I

Terms & conditions for compliance of Water Pollution Control (Chemical & R & D Unit):

- 1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) with Reverse Osmosis (2 nos).
B] The treated effluent shall be 100% recycled in the process to achieve zero discharge. In no case effluent shall not find its way to any water body directly or indirectly.

2) Terms & Conditions for compliance of Water Pollution Control (Molasses Based Distillery Unit):

A] You have provided comprehensive treatment for volume reduction consisting of Bio digester followed by DTRO for Zero Discharge of spent wash generated from molasses base distillery. Industry shall achieve zero discharge

C] The Spent Wash shall be 100% utilized for bio composting to achieve zero discharge.

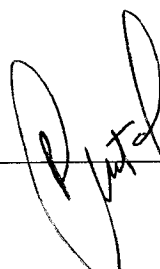
D] Conditions for Aerobic Composting:

- i. The spent wash should be stored in impervious tanks. The spent wash tanks should have proper lining with HDPE and should be kept in proper condition to prevent ground water pollution. As per the CPCB recommendation and undertaking given by the company, storage should not exceed 30 days capacity.
- ii. Applicant shall ensure availability of adequate filler material such as press mud, bagasses, agricultural, biological waste as required for effective composting system.
- iii. Composted material shall meet the following specifications—

Moisture	...	30 to 35%
C/N	...	Below 17
Nitrogen	...	1.5 to 2%
Phosphorous	...	1.5 to 2%
Potassium	...	3 to 4%
- iv. The composting site shall be prepared as per the guideline enclosed. Composting shall be such that it includes mechanical mixing and spraying of spent wash along with mechanical aeration to ensure thorough composting. Hand/ manual spraying of spent wash shall not be permitted.
- v. The compost leachate (1 gr. of compost mixed with 100 ml. of distilled water and filtered) Filtrate shall conform to the following limit.

pH	Between	7.5 to 8.0
BOD 3 days 27 Deg. C.	Not to exceed	30 mg/l.
- vi. A pucca leak proof guard pond of 30 days holding capacity as per (i) above shall cope up with the effluent discharge during short term process disturbances. In case of prolonged disturbance in effluent treatment and disposal system, distillery shall be shut down and shall not be restarted without rectifying the system.
- vii. The composting site/pits shall be made leak proof by proper lining. A catch drain shall be provided around the composting site to collect the storage pond for application on compost depots. Arrangements for overturning of compost material in windrows and spraying of spent wash shall be made to ensure appropriate aeration and uniform distribution of spent wash.
- viii. In case of composting in open fields, the application of spent wash shall stop by end of April, so that compost is ready and the site is cleared of the composted manure before monsoon (i.e. 31st May). The manure shall be collected and stored on a raised platform with suitable rain cover so that the compost manure is not washed away by rain/runoff.
- ix. Characteristic of soil, ground water and effect on crop yield should be monitored in the area where compost is used as manure and results thereof shall be compiled and reported in the Environment statement to be submitted every year.

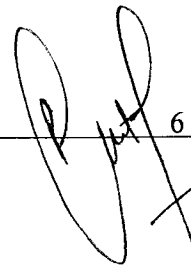
- x. The test wells shall be provided around the compost site for ground water monitoring. The well water quality has to be maintained at 2006 level.
- xi. Top pullover impervious sheets shall be provided for entire compost yard, press mud and compost storage so as to cover the same during untimely rains and idles period.
- xii. The operation of distillery should be restricted to 270 days in a year and that it will not operate during rainy season.
- 3) A.] As per your consent application, you have provided sewage treatment system with the design capacity of 100 CMD.
- B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.
- | | | | |
|-----------------------|---------------|-----|-------|
| (1) Suspended Solids. | Not to exceed | 100 | mg/l. |
| (2) BOD 3 days 27oC. | Not to exceed | 100 | mg/l. |
- C] The treated sewage 100 CMD shall be disposed on land of 192.74 acres for gardening.
- 3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.
- 4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.


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- 5) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	744
2.	Domestic purpose	200
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	722
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	Nil

- 6) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act,1986 and rule made there under.


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Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
1	Thermax Boiler (18 TPH)	ESP	30	Coal	948 kg/hr.	0.5%	227.52
				Bio -gas	28,000NM ³ /day	Nil	Nil
2	FBC Boiler (12 TPH)	In built multiple cyclone with dust collection system	30	Coal	634 kg/ hr.	0.5%	152.16
3	ISGEC Boiler (18 TPH)	ESP	30	Coal	948 kg/ hr.	0.5%	227.52
4	D.G. Set (590 KVA)	Self supporting stack with acoustic enclosure	9.0* (Above roof of acoustic enclosure)	HSD	65 Litrs/ hr.	1%	31.2

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under.
3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm ³ .
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4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

Schedule-III

Forfeited BG History

Sr. No	Forfeiture Details	BG amount	Order dtd
1	Conditional Directions issued by the Board	Eleven Lakhs	11.02.2014

BGs to be submitted as per BG Regime

Sr. No	CODE	Consent conditions	BG amount	Time for compliance
1	D2A	Zero Discharge to be achieved by MEE/Incineration as per the directions of CPCB	Ten Lakhs	31.05.2014
2	D 4 B	Industry shall provide H2S scrubber in case of gaseous fuel for treatment at the point of generation with adequate stack height	Five lacs	30.09.2014
3	D 5	O & M Compliance of consent conditions for achieving consented standards.	Five lacs	Monthly Monitoring

Industry shall submit the above bank guarantees to the Regional Office, Nashik up to 15.04.2014 valid upto 31.12.2014.

BGs as per Directions Issued by MPCB on 11.02.2014

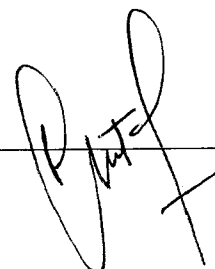
Sr. No	Consent conditions	BG amount	Time for compliance
1	Industry shall scrap & fully level to ground all the emptied solar pits in remaining areas of 54 Ha	Five Lakhs	30.04.2014
2	Industry shall empty, scrap & fully level to ground 2 lined lagoons alongwith effluent carrying channel which are adjacent to the complainants site	Five Lakhs	30.04.2014
3	Industry shall send HW (effl. 8 CMD) generated from Crotonaldehyde plant to CHWTSDF regularly	Five Lakhs	Monthly Monitoring
4	Industry shall erect 10'-15' height tin sheet compound wall around the compost yard so as to avoid dust emission & problem of smell nuisance	Five Lakhs	30.04.2014
5	Industry shall provide ESP/Bag Filters/Wet Scrubber as per CREP condition with adequate stack height for one remaining boiler to obviate air pollution complaint	Five Lakhs	30.04.2014

As per the Directions issued by the Board vide dtd 11.02.2014 the validity of the above BG's shall be 31.12.2014.

Industry shall comply with the following Directions issued by CPCB on 15.10.2014:

1. Industry shall install concentration & incineration system as per the action plan submitted by industry for management of spent wash by 31.05.2014
2. Industry shall utilize the accumulated spent wash in lagoons & maintain its records & report accordingly.
3. Industry shall seek specific permission of CPCB & MPCB to resume their manufacturing activities.
4. Industry shall restrict total storage capacity of lined lagoons to 6750 m³. i.e., 30 days storage of spent wash generated for composting & to discard & level extra lagoons beyond 30 days capacity.
5. Industry shall establish ground water monitoring network & undertake ground water quality monitoring & submit report thereof to CPCB & MPCB.

Maharashtra Pollution Control Board

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Schedule-IV

General Conditions:

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 3) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 6) The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW (MH&TM) Rules 2008, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/ environment.
- 8) The industry should comply with the Hazardous Waste (M, H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Waste (M, H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 11) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
- 12) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 13) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 14) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control

system. A register showing consumption of chemicals used for treatment shall be maintained.

- 15) Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
- 16) The industry should not cause any nuisance in surrounding area.
- 17) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 18) The applicant shall maintain good housekeeping.
- 19) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
- 20) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
- 21) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 22) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 23) The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
- 24) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 25) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.

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