

Compliance Report

of

Consent to Operate issue by Maharashtra Pollution Control Board

For 30 KLPD Molasses based Distillery unit to

M/s. Shreenath Mhaskoba Sakar Karkhana Ltd.

Shreenathnagar, Pathethan, Post – Rahu, Tal: Daund, Dist: Pune, Maharashtra

Address: MPB Chamber, 2nd floor, Above Hariom Super Market, Pune-Solapur Road, Hadapsar,
Pune -411028, Maharashtra

Site address: Shreenathnagar, Patethan, Tal: Daund, Dist: Pune, Maharashtra

Contact Person: Mr. D.M. Raskar (Chief Executive Officer)

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Consent No: Format- 1.0/BO/CAC-CELL/EIC/NO. PN-23902-14/CO/CAC-1032

Sr. No.	Description				Compliance	
1	The consent is granted from a period 01.09.2015m to 31.08.2016				---	
2	The Capital investment of proposed distillery Unit is Rs 31.30 Cr. & total capital investment of the industry including sugar & Co-gen is Rs. 96.72 Cr. As per CA certificate submitted by industry				Refer CA Certificate (Annexure I) of EC Compliance report.	
3	The consent is valid for the manufacture of				Complied. Production reports for 2014-15 and 2015-16 are attached as Annexure III of EC Compliance	
	Sr. No.	Product/By-product name	Maximum quantity	UoM		
	1	Rectified Spirit or ENA	900	KL/M		
	2	Ethanol	900	KL/M		
3	Fusel Oil	15	KL/M			
4	Conditions under water (P&CP) 1974 Act for discharge of effluent				Complied. Zero Liquid Discharge is followed for distillery effluent as per consent.	
	Sr. No.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved		Disposal
	1	Trade effluent	240 (After volume reduction 160)	As per schedule - I		Biometahnation followed by multiple effect evaporation followed by bio composting.
	2	Domestic	16	As per		On land

		effluent		schedule - I	irrigation.	
5	conditions under air (P&CP) act1981 for air emission					Complied
	Sr. No.	Description of stack/source	Number of stack	Standards to be achieved		
	1	DG set of 200 KVA	1	As per schedule II		
	2	Steam will be taken from existing sugar unit.				
6	Conditions under Hazardous waste (M,H& T M)Rules 2008 for treatment and disposal of hazardous waste					Not Applicable
	Sr. No.	Types o waste	Category	Quantity	UOM	Disposal
	Not Applicable					
7	Non Hazardous solid wastes					Complied
	Sr. No.	Types of waste	Quantity	UOM	Treatment	Disposal
	1	Distillation Residue	2.0	Ton/D	--	Mixed with compost & used as Manure.
8	Board reserves rights to review, amend, suspend, revoke this consent and the same shall be on the industry					Noted
9	This consent should not be construed an exemption from obtaining necessary NOC/ permission from any other agencies					Noted
10	Industry shall install online monitoring system and connect or upload the online monitoring data at MPCB and CPCB server before 30 th April 2016					Complied. Online monitoring system installed on April 2016.
11	Consent is issued without prejudice to the direction issued and being issued by CPCB					Noted
	Schedule I					
	Terms and condition for compliance of water pollution control					
1 (A)	Spent wash from molasses base distillery treated in Bio digester. The treated spent wash shall be concentrated in multiple effect evaporators. The concentrated spent wash shall be bio composted on 6 acres compost yard with press mud to achieve zero discharge. Condensate water shall be recycled / reused for the cooling tower make up water effluent generated from the utilities shall be treated in the effluent treatment plant.					Complied Please refer to Images 3, 4, 6A & 6B for Biogas, MEE and Bio composting from EC compliance. Condensate is recycled/reused in process
(B)	In no case effluent shall find its way for grading/outside factory premises.					Complied Industry has implemented ZLD scheme
(C)	Conditions for Aerobic composting					
i	The spent wash should be stored in impervious tanks. The spent wash					Complied

	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 exceeds 30 days capacity.	Storage lagoon has constructed as per CPCB guidelines Images 5A&5B from EC compliance report shows storage lagoon having Capacity 6000 m ³ Please refer to layout of lagoon in Annexure VI of EC compliance report
ii	Applicant shall ensure availability of adequate filler material such as press mud bagasse, agricultural, biological waste as required for effective composting system.	Noted
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 %	Complied. Please refer to Annexure IV F of EC compliance report for analysis report of compost.
iv	The composting site shall be prepared as per the guideline enclosed. Composting shall be such that it included mechanical mixing and spraying of spent wash along with mechanical aeration to ensure through composting. Hand/ manual spraying of spent wash shall not be permitted.	Complied
v	The compost leachete (1 gm of compost mixed with 100 ml of distilled water and filtered) filtrate shall conform the following limit pH Between 7.5 to 8.0 BOD 3 days 27 Deg. C Not to exceed 30 mg/l	Complied. Please refer to Annexure IV G of EC compliance for analysis report of lechate.
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 disturbance in case of prolonged disturbances in effluent treatment and disposal system distillery shall be shut down and shall not be restarted without rectifying the system.	Complied
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 pound for the 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.	Complied
viii	In case of composing 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. 31 st 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.	Noted and Complied

ix	Characteristics of soil, ground water and effects on crop yield should be monitored in the area where compost is used as manure and result thereof shall be complied and reported in the Environmental Statement every year.		Complied. Please Refer to Annexure IV H of EC compliance for analysis report of soil.	
x	The test well shall be provided around the compost site for ground water monitoring. The well water quality has to be maintained at 2006 level		Complied. Monitoring reports of ground water attached in Annexure IV D of EC compliance report.	
xi	Top pull over impervious sheets shall be provided for entire compost yard, pressmud and compost storage so as to cover the same during untimely rains and idles period.		Noted	
xii	The operation of distillery should be restricted to 270 days in a year and that it will not operate during rainy season.		Complied. Please refer to production report in Annexure III of EC compliance for no of operating days.	
2	The industry shall create environmental cell by appointing an environmental engineer, chemist and agriculture expert for looking after day to day activities related to environment and irrigation field where treated effluent is used for irrigation		Complied. Details of Environmental Management Cell attached in Annexure XIX of EC compliance report	
3	The applicant shall provide specific water pollution control system as per the conditions of EP act 1986 and rule made there under from time to time/ environmental clearance/CREP guidelines if applicable		Complied. Effluent treatment system comprising of biomethanation followed by MEE followed by composting to achieve ZLD has been installed as per consent.	
4	The applicant shall comply with the provisions of the water (prevention and 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		Complied. Please refer to Annexure XXV for copy of cess return 2016-17 of EC compliance report	
	Sr. no	Purpose for water consumed		Water consumption quantity (CMD)
	1	Industrial cooling boiler feed etc.		50
	2	Domestic purpose		20
	3	Processing whereby water gets polluted & pollutants are easily biodegradable	230	

	4	Processing whereby water gets polluted & polluted are not easily biodegradable and are toxic		--						
Schedule II										
Terms and condition 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) to observe following fuel pattern								Noted and complied	
	Sr. No.	Stack Attached to	APC system	Height in meter	Type of fuel	Quantity	UoM	S %	SO2 kg/day	
	1	Steam will be taken from existing sugar unit.								
	2	DG set of 200 KVA	--	2.5	HSD	20	Ltr/Hr	1	9.6	
2	The applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation there of or alteration or replacement / alteration well before its life come to an end or erection of new pollution control equipment.								Noted	
3	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)								Noted	
4	The applicant shall operate and maintain above mentioned air pollution control system so as to achieve the level of pollutants to the following standards								Complied. Stack monitoring reports are attached in Annexure IV A which shows that parameters are within given limit.	
	Particulate matter		Not to exceed			150 mg/Nm3				
Schedule III										
Details of Bank Guarantees										
	Sr. No	Consent (C to E/O/R	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Dates	Refer to Annexure XXVI for details of Bank Guarantee		
	1	C to O	Rs. 5 lakhs	To be extended	Towards Operation and Maintaince of pollution control system and compliance of Consent Condition	31.08.2016	31.12.2016			
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.								Complied	
2	Industry should monitor effluent quality, stack emissions and ambient air								Complied. Please	

	quality monthly/quarterly.	refer to Annexure IV A for Stack monitoring & Annexure IV C for ambient air monitoring report.
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 emissions shall be designated by numbers such as S-1, S-2, etc. and this shall be painted /displayed to facilitate identification.	Complied
4	Whenever due to any accident or other unforeseen act or even, such emissions occur or is approached 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.	Noted
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.	DG set is provided for alternate electric power source Detailed specification of DG set attached in Annexure X.
6	The firm shall submit to this office, the 30 th 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 the rule 14 of the Environment (Protection) (Second Amendment) Rules,1992.	Complied Copy of ESR acknowledgement receipt attached in Annexure XXIII.
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 incineration and landfill site/environment.	NA
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 30 th June of every year	NA
9	An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.	Noted
10	The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/Activity	Complied
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	Complied

	www.mpcb.gov.in	
12	Separate drainage system shall be provided for the 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.	Complied
13	Neither stream water nor discharge from other premises shall be allowed to mix with the effluents from the factory	Complied
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.	Not complied.
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.	Complied
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.	Complied
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.	DG set has acoustic enclosure. Green belt has also been developed. Noise monitoring report attached in Annexure IV E.
d	Installation of the DG set must be strictly in compliance with recommendation of DG set manufacturer	Complied
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.	Complied
F	D.G. set shall be operated only in case of power failure.	Noted
g	The applicant should not cause any nuisance in the surrounding area due to operation of D.G. set.	Noted
f	The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator set run with diesel.	Complied
16	The industry should not cause any nuisance in surrounding area.	Noted
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.	Noise monitoring reports attached in Annexure IV E

18	The applicant shall maintain good housekeeping.	Complied
19	The applicant shall bring minimum 33% of available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30 th 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.	Plant layout for greenbelt attached in Annexure IX A Detail information of greenbelt attached in Annexure IX B Image 21 A, 21B, 21C, 21D, 21E, 21F, 21G, 21H, 21I, 21J shows greenbelt in campus.
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.	Not complied
21	The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of effluent/ emissions of 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.	Noted
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.	For work zone air monitoring please refer Annexure IV B.
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 downloaded from MPCB official site).	Not complied
24	The industry shall submit official e-mail address and any change will be duly informed to the MPCB.	Noted
25	The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt.16.11.2009 as amended.	Complied
26	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 an extension or addition thereto.	Noted
27	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.	Noted
28	The applicant shall comply with the conditions stipulated in Environmental Clearance granted by MoEF/GoM vide No. F. No. J-11011/19/2012-IA II (I) dated. 15.12.2014	Noted