

**BIHAR STATE POLLUTION CONTROL BOARD**Parivesh Bhawan, NSB-2, Patliputra Industrial Area
Patliputra, Patna - 800 010

Ref.no-

1764

Patna, dated-

12/12/2021

DISCHARGE CONSENT ORDER

With reference to the Online Application ID.4726559, dated 01.05.2021 of M/s Sona Sati Organics Pvt. Ltd., At-Rajapatti Kothi, P.O.-Rajapatti, P.S.-Baikunthpur, Dist.-Gopalganj-841420 for the consent u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974, for he/they is/are granted consent to bring into use his/their new/alterd/existing outlet (s) for discharge of trade effluent and/or domestic sewage plant of Molasses based as well as grain based Ethanol (Distillery) units for Molasses based Existing unit with Capacity of Ethanol-75 KLPD and Grain based unit with Capacity of Ethanol-125 KLPD At-Rajapatti Kothi, P.O.-Rajapatti, P.S.-Baikunthpur, Dist.-Gopalganj-841420 for the period of five years from the date of issue subject to the following conditions:-

- 1 That, he/they shall not make any alteration, addition, deletion or modification in the plant without the prior clearance from the Board and shall also abide by the obligations under sections 24,31 and 33A of the Water (Prevention & Control of Pollution) Act, 1974 and further shall extend co-operation to the Board in performing its functions entrusted under sections 20,21,23,30 and 32 of the Act ;
- 2 That, he /they shall comply with the requirements of rule 14 of the Environment Protection Rules, 1986; provisions (whichever applicable of the Hazardous and Others Wastes (Management, Handling & Transboundary Movement), Rules 2016; rules 4,5,7,8,10,11,12,13,15 and 18 of the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989; and the provisions of the Public Liability Insurance Act, 1991, whichever is applicable;
- 3 That, he/they shall monitor his/their effluent(s) regularly and maintain its quality in conformity with Board's standards and shall produce its proof, as and when asked for;
- 4 That, he/they shall submit application for consent again 30 days before the expiration of the period of consent or within 30 days from the date of receipt of this order, whichever is applicable.
- 5 That, with reference to the Online Application no-4823925, dated 06.07.2021, the unit shall comply with the conditions imposed in the time extension of Consent-to-Establish (CTE) for the period up to 12-months vide ref. no.-1056, dated 08.07.2021.
- 6 That, the consent-to-operate (CTO) is valid for the manufacture/ to maintain effluent and maintain zero liquid discharge (ZLD) as under;

Industrial water consumption	Molasses required for fermentation	Fermented wash subject to the distillation	Ethanol produced	Spent wash gen.
375 m3 per day	375 TDP	750 m3 per day	75 m3 per day	675 m3 per day

Concentrated slope from MEE	Condensate generated from MEE	Concentrated slope directly firing in existing boiler	Concentrated slope blended with rie husk in ratio of 1:2 then firing to boiler as fuel.
223 TDP	452 m3 per day shall be re-used after treatment in CPU	122 m3 per day	101 m per day

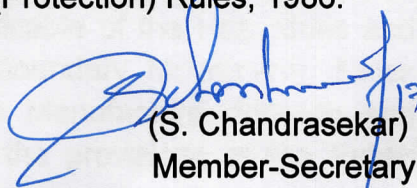
Industrial water consumption	Grain (Broken rice) required for Ethanol production	Fermented wash subject to the distillation	Ethanol produced	Spent wash gen.
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660 KLD	7,800 MT/D	890 m3 per day	125 m3 per day	765 m3 per day
Concentrated Syrup from MEE	Condensate generated from MEE in process	Concentrated syrup (In dryer)	Concentrated solid from dryer	
175 m3 per day	490 m3 per day for treatment in CPU	175 m3 per day	50 MT per day Sold for poultry/hatchery feed.	

- 7 The domestic effluent shall be treated by STP unit for the use of irrigation and other purposes as required inside the campus as per management plan submitted of dated 24.04.2019 with previous application no.-2548310 dated 23.04.2019.
- 8 That, the unit shall restrict the maximum effluent generation of 676 m³/day from molasses based ethanol plant and 785 m³/day from grain based ethanol plant for the production capacity of Ethanol, 75 KLPD & 125 KLPD respectively.
- 9 That, the unit shall maintain zero liquid discharge (ZLD) by concentrating and incinerating the concentrated spent wash through MEE, rotary drier for blending the rice husk with concentrated spent wash, incineration boiler and CPU for treatment and re-use of condensate and other non-process effluents.
- 10 That, the unit shall maintain ground water abstraction data monthly and shall be recorded in a log-book. The ground water shall be monitored through piezo meters fixed with digital water level recorder.
- 11 That, the unit shall monitor quality of ground water once a year during pre-monsoon.
- 12 That, in no case the unit shall mix its storm water and industrial effluents. Separate storm water and industrial effluents drains shall be constructed for their treatment separately and shall be reported to the Board with evidence within one month.
- 13 That, the unit shall seal all outlets and shall not be re-opened without the permission of the State Board. If they fail to comply with and re-opened the sealed outlets without the permission from the Board, the unit shall be liable to pay levy under Environmental (Protection) Act, 1986 and as per the direction of National Green Tribunal (NGT) regarding Environmental compensation.
- 14 That, the unit shall operate is complete ETP system regularly during the operation of the unit with installing separate Energy Meter for CPU system and maintain a log-book.
- 15 That, the unit shall ensure the connectivity of Mass Flow Meter and Web-camera (25x7) with BSPCB and CPCB server.
- 16 That, the unit shall have to achieve ZERO LIQUID DISCHARGE (ZLD) and water consumption shall be reduced by adopting "3-R" (Reduced, Re-use and Re-cycle) concept in the process.
- 17 That, the unit shall not discharge its any industrial or domestic effluents out side the campus and ensure zero liquid discharge. In case of any un even situation, plant shall be shut-down to maintain ZLD as well as the operation of distillery shall be as recommended in environmental clearance order issued from MoEF & CC on dated 18.01.2019.

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- 18 That, the spent wash generation from grain wastes operation shall not exceed six KL by KL of ethanol. The spent wash shall be treated through decanter and concentrated in multi-effect evaporator (MEE) to form Distiller's wet grains with soluble (DWGS) shall be dried to form distiller's dry grains with soluble DDGS. The condensate from MEE will be recycled back to the process. Yeast sludge shall be utilized for bio-composting. The DWGS/DDGS shall be sold as cattle feed.
- 19 That, the unit shall ensure stack emission from the boiler with emission of Particulate Matter (PM) within 50mg/NM³.
- 20 That, the unit shall comply with the provisions and conditions imposed in the E C issued under the Environmental (Protection) Act, 1986 and directions issued either by BSPCB/CPCB and submit compliance report to the Board.
- 21 That, the unit shall adopt Rainwater harvesting measures to recharge the ground water. They shall also maintain records for the rainwater harvesting and shall be maintained.
- 22 That, the unit shall ensure flow measuring devices to asses water consumption, spent wash generation and quantity before and after measured. It shall be maintained and recorded in separate log-book.
- 23 That, the unit shall submit Environmental statement for the each financial year in the 31st March every year under the Environmental (Protection) Rules, 1986.


(S. Chandrasekar)
Member-Secretary