F. No.J-11011/25/2007-IA II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA-II Section)

Indira Paryavaran Bhawan
Jor bagh Road, New Delhi - 3
Dated: 18th January, 2019

To

M/s Sona Sati Organics Pvt Ltd
Village Rajapatti Kothi, P.O. Rajapatti,
Tehsil Baikunthpur,
District **Gopalganj** (Bihar)

Sub: Expansion of molasses based distillery from 45 to 75 KLPD and setting up 125 KLPD grain based distillery by M/s Sona Sati Organics Pvt Ltd at Village Rajapatti Kothi, Tehsil Baikunthpur, District Gopalganj (Bihar) - Environmental Clearance - reg.

Sir,

This has reference to your online proposal No.IA/BR/IND2/42658/2004 dated 9th October, 2018 along with project documents namely, EIA/EMP report containing the public hearing details for the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of molasses based distillery from 45 to 75 KLPD and setting up grain based distillery of capacity 125 KLPD by M/s Sona Sati Organics Pvt Ltd in an area of 80937.1 sqm at Village Rajapatti Kothi, PO Rajapatti, Tehsil Baikunthpur, District Gopalganj (Bihar).

3. The details of plants/ products are as under :-

Unit/Plant	Existing	Proposed	Total
Molasses Based Distillery	45 KLPD	30 KLPD	75 KLPD
Grain Based Distillery	Nil	125 KLPD	125 KLPD
Co-generation Power Plant	1 MW	4 MW	5 MW

4. Total land area is 122700 m^2 (12.27 ha). The proposed expansion will be carried out within the area presently utilized by the distillery i.e. 80937.1 m^2. Industry has developed greenbelt in an area of 33% i.e. 27000 m^2 (2.7 ha) out of total area of the distillery. The estimated project cost is Rs.125 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.25 Crores and the recurring cost (operation and maintenance) will be about Rs.2 Crores per annum.

5. There are no National parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife corridors etc within 10 km from the project site. Ghoghri River flows at a distance of 3.3 km, Khar River at 4.2 km and Gandak River at 5 km.

6. After expansion, total water requirement is estimated to be 4579 cum/day, of which fresh water requirement of 1700 cum/day will be met from Ground water. Permission for ground water withdrawal of 1800 cum/day has been obtained from the Central Ground Water Authority vide letter dated 31st May, 2018.

Effluent of 1334 cum/day (688 cum/day from molasses based operation and 646 cum/day from grain based operation) estimated to be generated after the proposed expansion, will be treated through CPU with two stage RO System and MEE, and recycled/reused in the plant. There will be no discharge of treated/untreated waste water from the unit, and thus conforming to Zero Liquid Discharge.

Power requirement after expansion will be 4 MW proposed to be met from own co-generation plant. Existing unit has 1 DG set of 750 kVA capacity, three more DG sets of 62 kVA, 380 kVA & 1000 kVA will be used as standby during power failure. Stack height of 15 m will be provided as per CPCB norms to the proposed DG sets.

Existing unit has one concentrated spent wash/rice husk/bagasse fired boiler of 22 TPH capacity. To cater to the proposed expansion, one more boiler (rice husk/bagasse/coal/blended fuel fired) of 36 TPH shall be installed with electrostatic precipitator and stack of 51 m to control particulate emissions within the statutory limit of 50 mg/Nm^3.

7. Dried Distiller's Grain with Solubles (DDGS) will be used as cattle feed, poultry feed/ fisheries etc. Yeast sludge will be mixed with wet cake. Ash from the boiler is being/will be supplied to brick manufacturers or given to farmers for soil amelioration. ETP sludge is being/will be used as manure after sun drying. Used oil generated from the plant machinery/ gear boxes as hazardous waste is being /will be sold out to authorized recyclers.

8. The project/activity is covered under category A of item 5 (g) 'Distilleries' of the Schedule to the Environmental Impact Assessment Notification, 2006, and requires appraisal/approval at central level in the Ministry.

9. Terms of Reference for the project was granted on 11th May, 2016. Public hearing for the project was conducted by the Bihar State Pollution Control Board on 6th August, 2018.

10. The proposal for environmental clearance was considered by the EAC (Industry-2) in its meeting held on 29-31 October, 2018. The project proponent and their accredited consultant M/s J M EnviroNet Private Ltd presented the EIA/EMP report as per the ToR. The Committee found the EIA/EMP report to be satisfactory, complying with the ToR and recommended the project for grant of environmental clearance.

11. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **expansion of molasses based distillery from 45 to 75 KLPD and setting up grain based distillery of capacity 125 KLPD** by M/s Sona Sati Organics Pvt Ltd at Village Rajapatti Kothi, PO Rajapatti, Tehsil Baikunthpur, District Gopalganj (Bihar), under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

(a) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.

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(b) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.

(c) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.

(d) To 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.

(e) Total fresh water requirement shall not exceed 1700 m^3/day proposed to be met from ground water. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.

(f) 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.

(g) 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.

(h) 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. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

(i) The company shall undertake waste minimization measures as below:-
  (i) Metering and control of quantities of active ingredients to minimize waste.
  (ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
  (iii) Use of automated filling to minimize spillage.
  (iv) Use of Close Feed system into batch reactors.
  (v) Venting equipment through vapour recovery system.
  (vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.

(j) 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.

(k) All the commitments made regarding issues raised during the public hearing/ consultation meeting shall be satisfactorily implemented.

(l) At least 0.75% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.

(m) 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.

(n) 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.

(o) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

(p) 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.

(q) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.

(r) 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 online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

(s) CO_2 generated from the process shall be bottled/made solid ice and sold to authorized vendors.

(t) 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.

11.1 The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-

(i) The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or any other statutory authority.

(ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, 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.

(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 stations each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.

(iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.

(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 shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

(vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.

(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.

(viii) The company shall 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, risk mitigation measures and public hearing shall be implemented.

(ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.

(x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

(xi) 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 purpose.

(xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

(xiii) 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 report shall be posted on the website of the company.

(xiv) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (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.

(xv) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.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 shall be forwarded to the concerned Regional office of the Ministry.

12. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

13. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention &. Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991, read with subsequent amendments therein.

18/1/2019

(S. K. Srivastava)
Scientist E

Copy to: -

1. The Additional PCCF (C), Ministry of Environment, Forest and Climate Change, Regional Office, Ranchi Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony, **Ranchi** – 834002 (Jharkhand)
2. The Secretary, Forests & Environment Department, Government of Bihar, 1st Floor, N.H Bhawan, Vishweshwaraiya Complex, Bailey Road, **Patna** -1 (Bihar)
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, **Delhi** - 32
4. The Member Secretary, Bihar State Pollution Control Board, Beltron Bhawan, 2nd Floor, Lal Bahadur Shastri Nagar, **Patna** - 800 023 (Bihar)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, **New Delhi**
6. Guard File/Monitoring File/Record File

18/1/2019

(S. K. Srivastava)
Scientist E