

F. No.J-11011/175/2017-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: 1st March, 2019

To,

M/s Rana Sugar Ltd
Village Laukha,
District Tarn Taran (Punjab)

Sub: Expansion of grain/molasses based distillery from 60 KLPD to 150 KLPD by M/s Rana Sugars Limited (Distillery Division) at Village Laukha, District Tarn Taran (Punjab) - Environmental Clearance - reg.

Sir,

This has reference to your online proposal No.IA/PB/IND2/63809/2017 dated 1st August, 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 grain/molasses based distillery from 60 KLPD to 150 KLPD by M/s Rana Sugars Limited (Distillery Division) in a total area of 161874 sqm at Village Laukha, District Tarn Taran (Punjab). The project involves expansion from 60 to 90 KLPD through process modification, and from 90-150 KLPD by setting up new plant of capacity 60 KLPD.

3. Existing land area is 161874 sqm. No additional land will be required for the proposed expansion. Green belt has been developed in an area of 53418 sqm of the total project area. The estimated project cost is Rs.145 crores including existing investment of Rs.75 crores. Total capital cost earmarked towards environmental pollution control measures is Rs.10 crores and the recurring cost (O&M) will be about Rs.80 Lakhs per annum.

4. There are no National parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife corridors etc within 10 km of the project site.

5. Total fresh water requirement after the proposed expansion is estimated to be 900 cum/day, of which 540 cum/day is proposed to be met from surface water resources and the remaining 360 cum/day through existing borewells. The project proponent has obtained the clearance from Central Ground Water Authority for ground water withdrawal of 588 cum/day.

Effluent will be treated through ETP and treated water will be reused to meet the process requirement of the plant. Spent wash from grain based operations shall be taken through centrifuge decanter for separation of suspended solids separated as wet cake (DWGS) which is sold as cattle feed. Spent wash from molasses based operations will be treated through multi effect evaporators (MEE) followed by incineration in slop fired boiler. Other effluents will be treated in Condensate Polishing Unit. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.

Power requirement after expansion will be 4.4 MW proposed to be met from in-house generation. Existing unit has two DG sets of 500 kVA capacity each.

Existing unit has 14 TPH capacity boiler. To cater to the proposed expansion, one more boiler of 15 TPH shall be installed with ESP to control particulate emissions within the statutory limit of 50 mg/Nm³. Boiler ash will be sold to brick manufactures.

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

7. The ToR for the project was granted on 30th May, 2017. Public hearing was conducted by the Punjab Pollution Control Board on 30th May, 2018.

8. The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 24-26 September, 2018 & 26-27 November, 2018. The project proponent and their accredited Consultant M/s Chandigarh Pollution Testing Laboratory presented the EIA/EMP report as per the ToR. The Committee found the EIA/ EMP Report to be satisfactory, in consonance with the presented ToR, and recommended the project for grant of environmental clearance.

9. 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 grain/molasses based distillery from 60 KLPD to 150 KLPD** by M/s Rana Sugars Limited (Distillery Division) in an area of 161874 sqm at Village Laukha, District Tarn Taran (Punjab), 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.

(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 900 cum/day proposed to be met from ground water source (360 cum/day) and surface water (540 cum/day). Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.

(f) The spent wash (during Molasses based operation) shall be taken to multi effect evaporators (MEE) and the concentrated spent wash shall be incinerated in the boiler along with bagasse.

(g) Number of working/operating days for the distillery shall be 330 days as proposed.

- (h) 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.
- (i) 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.
- (j) 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.
- (k) 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.
- (l) 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.
- (m) All the commitments made regarding issues raised during the public hearing/consultation meeting shall be satisfactorily implemented.
- (n) At least 5% 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.
- (o) 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.
- (p) 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.
- (q) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (r) 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.
- (s) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- (t) 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.

(u) CO₂ generated from the process shall be bottled/made solid ice and sold to authorized vendors.

(v) 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.

9.1 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 to recharge ground water, and to 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.

10. 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.

11. 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.

SK
11/3/2019
(S. K. Srivastava)
Scientist E

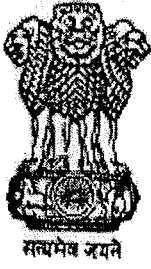
Copy to: -

1. The Additional Principal Chief Conservator of Forests (C), MoEF&CC, Regional Office (NZ), Bays No.24-25, Sector 31-A, Dakshin Marg, Chandigarh - 160030
2. The Secretary, Department of Science, Technology & Environment, Government of Punjab, Chandigarh (Punjab)

3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala, 147001 (Punjab)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, New Delhi
6. Guard File/Monitoring File/Record File

SK
11/3/2019

(S. K. Srivastava)
Scientist E



By Speed Post/Online

**F.No. J-11011/175/2017- IA II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA- II Section)**

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 3

Dated: 20th May, 2020

To

M/s Rana Sugars Limited
Village Lauhka
District Tarn Taran, Punjab

Sub: Expansion of Grain/Molasses based distillery at Village Lauhka, Tehsil and District Tarn Taran, Punjab by M/s Rana Sugars Limited (Distillery Division) - Amendment in Environmental Clearance - reg.

Sir,

This has reference to your proposal No. IA/PB/IND2/145622/2020 dated 27th February, 2020 on the subject matter.

2. The Ministry has granted environmental clearance vide letter dated 1st March, 2019 to the project for Expansion of Grain/Molasses based distillery from 60 KLPD to 150 KLPD located at Village Lauhka, Tehsil and District Tarn Taran, Punjab in favour of M/s Rana Sugars Limited (Distillery Division).
3. Now, amendment in the said environmental clearance (EC) has been sought in respect of fresh water source and quantity.
4. The proposal for amendment in the environmental clearance was considered by the Expert Appraisal Committee (Industry-2) in its meeting held on 13-15 April, 2020 in the Ministry. The Committee, after detailed deliberations, has suggested that the project proponent shall explore the option for utilization of surface water for the project. However, considering the prevailing situation and permission for ground water extraction available from CGWA, the Committee has recommended for amendment in the EC as proposed by the project proponent [ground water source (540 cum/day) and surface water (360 cum/day)] during the validity period of CGWA permission for ground water. However, in case the CGWA permission is not renewed the project shall operate with surface water or with reduced capacity. All other terms and conditions shall remain unchanged.
5. Based on the proposal submitted by the project proponent and recommendations of the EAC, Ministry of Environment, Forest and Climate Change hereby accords approval for amendment in the environmental clearance dated 1st March, 2019, as per para 4 above.

6. This issues with approval of the competent authority.

(डा. आर. बी. लाल)
(Dr. R. B. Lal)
वैज्ञानिक ई/Scientist E (Dr. R. B. Lal)
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi
Scientist E

Copy to:-

1. The Deputy DGF (C), Ministry of Environment, Forest and Climate Change, Regional Office(NZ), Bays No. 24-25, Sector 31 A, Dakshin Marg, Chandigarh - 30
2. The Secretary, Department of Science, Technology and Environment, Government of Punjab, Chandigarh
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Punjab Pollution Control Board, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala
5. Guard File/Monitoring File/Website/Record File