



F. No. IA-J-11011/764/2007-IA II (I)
Government of India
Ministry of Environment, Forest & Climate Change
Impact Assessment Division

Speed Post/Online

Indira Paryavaran Bhavan,
Vayu Wing, 3rd Floor, Aliganj,
JorBagh Road, New Delhi-110 003

Dated: 5th January, 2021

To,

M/s A B Sugars Ltd.,
Chadha Estate, Village Randhawa,
Tehsil-Dasuya, District- Hoshiarpur,
Punjab
Email: deshraj_1971@rediffmail.com

Sub: Expansion of Sugar Mill (7000 TCD to 12,000 TCD) and Co-generation Power Plant of 33 MW to 37 MW by M/s A B Sugars Ltd. Located at Chadha Estate, Village Randhawa, Tehsil-Dasuya, District- Hoshiarpur, Punjab - Environmental Clearance regarding.

Sir,

This has reference to your online proposal No. IA/PB/IND3/183665/2017 dated 20th November, 2020 for environmental clearance to 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 Sugar Mill (7000 TCD to 12,000 TCD) and Co-generation Power Plant of 33 MW to 37 MW by M/s A B Sugars Ltd., located at Chadha Estate, Village Randhawa, Tehsil-Dasuya, District- Hoshiarpur, Punjab.

3. The project/activities are covered under category B of item 5(j) 'Sugar industry' of the Schedule to the Environment Impact Assessment Notification, 2006. Due to non-existence of SEIAA/SEAC Punjab, the project requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

4. The details of products and capacity are as under:-

A. SUGAR

S. No	PRODUCT	Existing Qty. (Tonnes/day)	Proposed Qty. (Tonnes/day)	After Expansion (Tonnes/day)
1	L Quality Sugar (31)	77	55	132
2	M Quality Sugar (31)	616	440	1056
3	S Quality Sugar (31)	77	55	132
	Total	770	550	1320

B. CO- GENERATION POWER PLANT

PRODUCT	Existing (MW)	Proposed (MW)	After Expansion (MW)
Export Power	23	-	23

EC for M/s A B Sugars Ltd.

Captive Power	10	4	14
Total Power Generation	33	4	37

5. The TOR (Terms of Reference) had been granted to the project by SEIAA/SEAC Punjab vide TOR letter number., SEIAA/2018/452 dated 09.04.2018. Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 28.09.2018. The main issues raised during the public hearing are related to odour problems, employment opportunities and traffic issues on the existing road. It is informed that no litigation is pending against the proposal.

6. The existing project has been granted environmental clearance vide letter no J-11011/764/2007-IA.II(I) dated 03.06.2010 by MoEF&CC for the capacity of 7000 TCD and cogeneration power plant of 33 MW. The unit has valid consent to operate from Punjab Pollution Control Board (PPCB) vide consent order no. R14HSPCTOW1408673 valid up to 19.09.2022 and is fully compliant and committed. Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 28.09.2018. The Public Hearing was presided over by the Additional Deputy Commissioner. The main issues raised during the public hearing are related to odour problems, employment opportunities and traffic issues on the existing road. Certified compliance report has been granted to the project on 15th June, 2020 vide letter no 5-122/2008-RO(North Zone)/247-279 by RO, MoEF&CC.

7. The project is for expansion of an existing Sugar Mill on the same plot area i.e., 6,87,966 sqm or 170 acres (Sugar Mill area-59 acre). A Distillery Unit of 24 acres is present within the 170 acre land for which separate Environmental Clearance have been taken and due considerations were taken care while carrying out baseline study and assessing impact.

8. Industry has already developed greenbelt in an area of 32.3 % i.e., 55 acres out of the total area of 170 acres for the project. The green area after expansion will be 36.4% i.e. 62 acres out of the total area of 170 acres. Moreover, 4 acres nearby land has been recently purchased by M/s AB Sugars Ltd and this land shall be utilised for green belt development.

9. The estimated cost of expansion project is Rs.170 crores and the total project including existing investment of Rs.208 crore shall be Rs.378 crores. Unit shall spend a total of Rs.656 lakhs towards capital expenses earmarked towards environmental pollution control measures and the Recurring cost towards protection of environment (operation and maintenance) will be about Rs.72 lakhs per annum. Existing unit employs 217 workers and after expansion, the total manpower will be 250. The Industry proposes to allocate 127 lakhs for the expansion part towards social activities like improvement in infrastructure of schools; medical checkup for locals etc.

10. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. However, the Drain Near Rice Mill is the nearest waterbody flowing at a distance of 0.77 km South direction.

11. Ambient air quality monitoring was carried out at 8 locations during October 2017 - December 2017 and again collected between 15th March 2018 - 15th April 2018. The baseline data indicates the ranges of concentrations as: PM₁₀ (61-120.9 µg/m³), PM_{2.5} (28.1-51.8 µg/m³), SO₂ (6.2-13.8 µg/m³) and NO₂ (15.8-33.3 µg/m³). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.605 µg/m³, 0.514 µg/m³ and 2.57 µg/m³ with respect to PM₁₀, SO₂ and NO₂. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).


EC for M/s A B Sugars Ltd.

12. PP reported that in the Existing phase, the total water requirement is 6166 m³/day out of which 859 m³/day is the freshwater demand. After Expansion, total water requirement after expansion will be 7729 m³/day, out of which fresh water requirement of 608 m³/day will be met from Bore well.

13. In Existing unit, 2034 KLD industrial wastewater will be treated through existing 3500 KLD ETP Capacity. The unit is complying zero liquid discharge (ZLD) norms After expansion, total effluent of 1114 KLD quantity will be treated through 3500 KLD ETP Capacity and the plant shall remain ZLD unit.

14. Power requirement after expansion will be 13,500 KW including existing 9,000 KW and will be met from In House Co-Generation Power Plant. For Power backup 1x500 kVA and 1x725 kVA Existing (Fuel-HSD) are used as standby during power failure. Stack (height-6 m above the shed height) has been provided as per CPCB norms to the DG sets. Existing unit has 80 TPH, 32 x 2nos TPH & 120 TPH bagasse-based boilers and no additional boilers shall be proposed.

15. Details of Process emissions generation and its management:

S. No.	Existing Air pollution sources	Type of fuel	Fuel Qty.	Pollution control measures	Chimney height AGL	MOC
1	80 TPH boiler	Bagasse	37 TPH	Wet Scrubber	Height - 50 Mts stack AGL Dia - 2.0 m	MS
2	2 x 32 TPH boiler	Bagasse	30 TPH	Wet Scrubber	Height - 50 Mts stack AGL Dia - 2.0 m	MS
3	120 TPH Boiler	Bagasse	47 TPH	ESP	Height - 65 Mts stack AGL Dia - 2.5 m	MS
4	500 kVA- Standby DG SET	HSD	100 l/hr	-	6 Mts stack AGL	MS
5	725 kVA- Standby DG SET	HSD	150 l/hr	-	6 Mts stack AGL	MS

16. Details of Solid waste & Hazardous waste generation and its management:

Solid Waste Management:

Category	Type of Waste	Colour of Bins	Disposal Method	(Existing) Total Waste (kg/day)	Additional Proposed waste (kg/day)	(After Expansion) Total Waste (kg/day)
Bio-Degradable	Organic Waste (Includes Food & Kitchen Waste, Leaves etc.)	Green	To solid waste disposal site	24	4	28

Non-Biodegradable	Recyclable Waste (Includes Poly-bags, Plastic, wood, paper, glass, containers etc.)	Blue	Approved Recycler	10	2	12
	Total			34 kg/day	6 kg/day	40 g/day

Process waste

Process Waste	Existing (Tonnes/day)	Additional Proposed (Tonnes/day)	Total after expansion (Tonnes/day)	Disposal Method
Bagasse	1960	1400	3360	Used as fuel in Boiler for producing Steam.
Ash Content	29	21	50	Ash is being given to the contractor for disposal at the farmer's field. Same shall be followed after expansion.
Molasses	315	225	540	Used in existing Distillery for Alcohol Production present in the premises.
Press Mud/Filter Cake	294	210	504	It shall be sold out to the farmers and brick manufacturers. It shall not be kept in the premises.

Hazardous Waste

Name of Process	Name of Process Waste	Existing Quantity	Additional Proposed Quantity	Total Quantity after Expansion	Disposal Method
Industrial operations using mineral/ synthetic oil as lubricant in hydraulic systems (Schedule I)	Used/spent oil	15 litre/month	-	15 litre/month	It shall be disposed in leak proof container & disposed to authorized common collection centre provided the oil meets the standards as per schedule -5 Part A rule
Purification and treatment of exhaust air, water and waste water from the processes in this schedule and CETPs	Chemical sludge from wastewater treatment	1100 kg/day	-	1100 kg/day	Horticulture Development

(Schedule I)					
--------------	--	--	--	--	--

17. PP reported that the boiler Ash is being given to the contractor for disposal at the farmer's field. Same shall be done after expansion. No major emissions are envisaged; The Process emissions are controlled by providing closed circuit for production to avoid odour of Press mud, shall directly send to the brick manufacturers & farmers without storing in the premises. The spent wash from the distillery will be taken into a multiple effect evaporator and it will be converted into a high calorific slurry which will be used in the boiler as fuel. Therefore, there will be no odour problem from the project.

18. The proposal was considered by the Expert Appraisal Committee (Industry-3) in its meetings held during **8-9 December, 2020** in the Ministry, wherein the project proponent and their accredited consultant M/s Perfect Enviro Solutions Pvt Ltd. presented the EIA/EMP report as per the ToR. The Committee found the EIA/EMP report complying with the ToR and recommended the project for grant of environmental clearance.

19. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with the report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is satisfactory for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The Committee has also deliberated on the public hearing issues, action plan and found to be addressing the issues in the study area. The Committee has also deliberated the certified compliance report of earlier EC conditions and found in order. The Committee was of the considered view that the PP should have submitted integrated project of Sugar and Distillery for appraisal. The Committee suggested that ZLD shall be achieved in letter and spirit and no treated effluent shall be discharged to the project area or for horticulture development, in turn, it shall be utilized in the Distillery unit. The Committee has found the additional information submitted by the project proponent to be satisfactory and addressing the issues raised by the Committee.

20. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

21. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-3), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **Expansion of Sugar Mill (7000 TCD to 12,000 TCD) and Co-generation Power Plant of 33 MW to 37 MW by M/s A B Sugars Ltd. Located at Chadha Estate, Village Randhawa, Tehsil-Dasuya, District- Hoshiarpur,**

Punjab, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

A. Specific Condition

- (i). 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 EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ii). As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities in the sugar unit and in the Distillery unit. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture in the project area.
- (iii). Total fresh water requirement shall not exceed 608 cum/day proposed to be met from bore well/ground water source. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- (iv). Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (v). The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of highpressure hoses for equipment clearing to reduce wastewater generation.
- (vi). The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.
- (vii). The activities and the action plan proposed by the project proponent to address the public hearing and socio-economic issues in the study area, shall be completed as per the schedule presented before the Committee and as described in the EMP report in letter and spirit. All the commitments made during public hearing shall be satisfactorily implemented. Preference shall be given to local villagers for employment in the unit.
- (viii). Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (ix). 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.
- (x). Project Proponent shall reduce the quantity of effluents generation in the unit and PP shall install the effective wastewater treatment system. Adequate system shall be in place for controlling the odour and mitigation measures to protect the contamination of ground/surface water.
- (xi). 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.

- (xii). A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

B. General Condition:

- (i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iii) 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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (iv) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (v) 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.
- (vi) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZillaParishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (vii) 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.
- (viii) 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.

- (ix) 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 and at <https://parivesh.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.
- (x) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
- (xi) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

22. 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.

23. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

24. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

25. 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 Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

26. This issues with the approval of the competent authority.


(Dr. R. B. Lal)
Scientist 'E'/Additional Director
Email: rb.lal@nic.in
Tele-fax: +91-11-24695362

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

Copy to: -

1. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (NZ), Bays No. 24-25, Sector 31 A, Dakshin Marg, Chandigarh – 160030
2. The Secretary, Department of Forest & Wild Life Preservation, Government of Punjab, Forest Complex, Kumbra Road, Sector-68, S.A.S. Nagar (Mohali), 140110

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, Vatavaran Bhawan, Nabha Road, Patiala.
5. The Member Secretary, Central Ground Water Authority, 18/11, Jamnagar House, Man Singh Road, New Delhi-110011
6. The District Collector, District Hoshiyarpur, Punjab
7. Guard File/Monitoring File/Website/Record File/Parivesh portal


(Dr. R. B. Lal)
Scientist 'E'/Additional Director

