



File No. J-11011/300/2007-IA-II(I)
Government of India
Ministry of Environment, Forest & Climate Change
Impact Assessment Division

Indira Paryavaran Bhawan,
Jal Wing, 3rd Floor, Aliganj,
Jor Bagh Road, New Delhi-110 003

Dated: 15th February, 2021

To,

Shri Shivprakasam V
MD
M/s Jamkhandi Sugars Ltd,
Hirepadasalgi village,
Jamkhandi Taluk, Bagalkot District,
Karnataka-587301

Sub: Expansion of Sugar Plant from 5000 TCD to 11500 TCD, Co-generation from 27 MW to 34 MW and Distillery from 60 KLD to 150 KLD using multi feed stock of C-Heavy molasses/ B-Heavy molasses and Sugar Syrup with captive power plant from 2.2 MW to 4.7 MW in distillery by M/s. Jamkhandi Sugars Ltd., (JSL) located at Survey Nos. 66, 72, 73, 74, 78, 79, 80 and 88, Hirepadasalgi Village, Jamkhandi Taluk, Bagalkot District, Karnataka – Consideration of Environmental Clearance regarding.

Sir,

This has reference to your online proposal No. IA/KA/IND2/188524/2008, dated 21st December, 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 Plant from 5000 TCD to 11500 TCD, Co-generation from 27 MW to 34 MW and Distillery from 60 KLD to 150 KLD using multi feed stock of C-Heavy molasses/ B-Heavy molasses and Sugar Syrup with captive power plant from 2.2 MW to 4.7 MW in distillery by M/s. Jamkhandi Sugars Ltd., (JSL) located at Survey Nos. 66, 72, 73, 74, 78, 79, 80 and 88, Hirepadasalgi Village, Jamkhandi Taluk, Bagalkot District, Karnataka.

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

Sl. No.	Product details	Existing quantity	Proposed quantity	Total quantity
1	Sugar cane crushing capacity, TCD	5000	6500	11500
2	Co-generation power plant, MW	27	7	34
3	Distillery KLD with Captive power plant MW	60 2.2	90 2.5	150 4.7

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4. Existing land area is 6,04,317.07 m² (149.33 acres) and the proposed expansion activities will be within the existing land area. Industry has already developed greenbelt in an area of 34.26 % i.e., 204872.106m² (50.624 acres) out of total area of the project. The estimated project cost is Rs. 547.16 Crores including existing investment of Rs. 347.77 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 41.74 Crores and the Recurring cost (operation and maintenance) will be about Rs. 59.5 Lakhs per annum. Total Employment will be 608 persons after expansion. Industry proposes to allocate Rs. 50 Lakhs towards Corporate Environmental Responsibility.

5. Total water requirement is as under;

- a. Sugar & co-gen – 8720 KLD of which fresh water requirement is 900 KLD and the condensate water generation from the sugar cane crushing is 7820 KLD.
- b. Domestic use – 85 KLD fresh water.
- c. Distillery water requirement is as in the table below:

Sl. No.	Particulars	Existing 60 KLD			Proposed expansion 90 KLD		
		C Heavy	B Heavy	Cane syrup	C Heavy	B Heavy	Cane syrup
1	Fresh water	360	360	156	540	540	234
2	Reuse from distillery CPU	580	382	463	865	568	559
3	Total water requirement	940	742	619	1405	1108	793

Fresh water will be met from Krishna River located at about 3 km from the site. Effluent from the sugar plant is 1030 KLD and from the co-generation plant is 575 KLD. Effluent will be treated through Effluent Treatment Plant comprising of primary treatment in the anaerobic digester followed by two stage extended aeration system and collected in polishing pond and used on land for irrigation. The spent wash is concentrated in MEE and concentrate is incinerated in incineration boiler. The MEE condensate, spent lees, boiler blow down, washings are treated in three stage RO plant and reused in the process and cooling tower. The distillery plant will be based on Zero Liquid discharge system.

6. All the project proposals are listed at S.N. 5(g) and 5(j) of Schedule of Environment Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

7. The Standard ToRs has been issued by Ministry vide letter No. J-11011/300/2007-IA-II(I) dated 29.7.2019. Public hearing for the proposed project has been conducted by the Karnataka State Pollution Control Board on 03.11.2020 at plant premises chaired by the Additional Deputy Commissioner, Bagalkot. All the participants supported the expansion project. There were no issues raised during the public hearing. It was informed that no litigation is pending against the proposal.

8. The proposal was considered by the EAC in its 28th meeting held on 18th January, 2021 in the Ministry, wherein the project proponent and their consultant M/s Samrakshan Center 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.

9. 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 EIA/EMP 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 EIA/EMP 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.

10. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data is within NAAQ standards. The Committee has deliberated the action plan proposed by the project proponent to arrest the incremental GLC due to the project. The committee directed PP to ensure that waste water generated from Sugar and distillery complex shall be treated and re-used within the plant and no treated or untreated waste water shall be discharged out from the premises of Sugar and distillery complex. Also ethanol will be used for blending bio-ethanol with petrol under EBP programme for additional proposed capacity. The EAC directed that ash from the incineration boiler shall be handled in a closed system. The Committee has also deliberated on the CER plan and found to be addressing the issues in the study area. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have **recommended** for grant of environmental clearance.

11. 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.

12. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for expansion of Sugar Plant from 5000 TCD to 11500 TCD, Co-generation from 27 MW to 34 MW and Distillery from 60 KLD to 150 KLD using multi feed stock of C-Heavy molasses/ B-Heavy molasses and Sugar Syrup with captive power plant from 2.2 MW to 4.7 MW in distillery by M/s Jamkhandi Sugars Ltd., (JSL) located at Survey Nos. 66, 72, 73, 74, 78, 79, 80 and 88, Hirepadasalagi Village, Jamkhandi Taluk, Bagalkot District, Karnataka, 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 EIA/EMP in respect of environmental



management, and risk mitigation measures relating to the project shall be implemented.

- (ii). The project proponent will treat and reuse the treated water within the factory and no waste or treated water shall be discharged outside the premises.
- (iii). Total fresh water requirement shall not exceed 985 m³/day and it will be met from River Krishna. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard, and renewed from time to time. No ground water recharge shall be permitted within the premises.
- (iv). Spent wash shall be treated using concentration and drying to form potash rich manure.
- (v). CO₂ generated from the process shall be bottled/made solid ice and utilized/sold to authorized vendors.
- (vi). 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.
- (vii). Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (viii). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.
- (ix). Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (x). 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 high pressure hoses for equipment clearing to reduce wastewater generation.
- (xi). 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.

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- (xii). As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall to be completed within time as proposed.
- (xiii). 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.
- (xiv). Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- (xv). 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.
- (xvi). 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.

12.1 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, Zilla Parishad/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.



13. 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.

14. 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.

15. 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.

16. 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.

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

Ashok Kumar Pateshwary
15/02/2021

(Ashok Kumar Pateshwary)
Director

Copy to: -

1. The Secretary, Department of Forest, Environment & Ecology, Government of Karnataka, Room No. 708, Gate 2, Multi Storey Building, Dr. Ambedkar Veedhi, Bangalore - 1
2. The Deputy DGF (C), MoEF&CC Regional Office (SZ), Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore - 34
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 32
4. The Member Secretary, Karnataka State Pollution Control Board, Parisara Bhavan, #49, 4th& 5th Floor, Church Street, Bangalore -1
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
6. The District Collector, District Bagalkot, Karnataka
7. Guard File/Monitoring File/Parivesh portal/Record File

Ashok Kumar Pateshwary
15/02/2021

(Ashok Kumar Pateshwary)
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