



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The Addl General Manager
DCM SHRIRAM LIMITED

5th Floor, Kanchenjunga Building, 18 Barakhamba Road, New Delhi,,New
Delhi,Delhi-110001

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)
in respect of project submitted to the Ministry vide proposal number
IA/UP/IND2/225320/2021 dated 24 Aug 2021. The particulars of the environmental
clearance granted to the project are as below.

- | | |
|---|---|
| 1. EC Identification No. | EC21A022UP139038 |
| 2. File No. | J-11011/137/2018-IA II (I) |
| 3. Project Type | Expansion7 |
| 4. Category | A |
| 5. Project/Activity including
Schedule No. | 5(g) Distilleries |
| 6. Name of Project | Expansion of Distillery from 300 KLPD to
500 KLPD & Co-Generation Power Plant
from 12 MW to 22.0 MW by installation of
new 200 KLPD Multi-feed-based Ethanol
Plant along with 10.0 MW Co-Generation
Power Plant at Village Ajbapur, Tehsil
Mohammadi, District Lakhimpur Kheri,
Uttar Pradesh by DCM Shriram Limited
Distillery Unit: Ajbapur |
| 7. Name of Company/Organization | DCM SHRIRAM LIMITED |
| 8. Location of Project | Uttar Pradesh |
| 9. TOR Date | N/A |

The project details along with terms and conditions are appended herewith from page
no 2 onwards.

Date: 07/12/2021

(e-signed)
A.K Pateshwary
Director
IA - (Industrial Projects - 2 sector)

*Note: A valid environmental clearance shall be one that has EC identification
number & E-Sign generated from PARIVESH. Please quote identification
number in all future correspondence.*

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This has reference to your online proposal No. IA/UP/IND2/225320/2021, dated 24th August, 2021 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 proposed project expansion of Distillery from 300 KLPD to 500 KLPD & Co-Generation Power Plant from 12 MW to 22.0 MW by installation of new 200 KLPD Multi-feed-based Ethanol Plant along with 10.0 MW Co-Generation Power Plant at Village Ajbapur, Tehsil Mohammadi, District Lakhimpur Kheri, Uttar Pradesh by M/s DCM Shriram Limited Distillery.

3. The project/activities are covered under category A of item 5 (g) 'Distilleries' of the Schedule to the EIA, 2006 and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC). The proposal has been submitted under the Ministry's EIA Notification, 2006 amendments vide Notification no. S.O. 345(E) dated 17th January 2019 & extension of notification S.O. 750(E) dated 17th February 2020, S.O 980(E) dated 2nd March, 2021. Accordingly, the proposal has been appraised as category 'B2' project.

4. The project proposal is exempted from obtaining ToR & conducting Public Hearing as per EIA notification, 2006 amendment vide S.O 980(E) dated 2nd March, 2021. It was informed that no litigation is pending against the project.

5. Ministry had issued EC earlier vide letter No. F. No. J-11011/137/2018-IA-II(I) dated 12.02.2019 for 225 KLPD Molasses based distillery along with 12 MW Co-generation power plant at Village Ajbapur, Tehsil Mohammadi, District LakhimpurKheri, Uttar Pradesh. The company applied for expansion and obtained Certificate of "No Increase in Pollution Load" from Uttar Pradesh Pollution Control Board vide letter no. H-62123/C-5/NOC-123 dated 05.06.2021 for distillery capacity expansion from 225 KLPD to 300 KLPD for use of alternative feedstock and raw material mix (B-Heavy Molasses/Sugar Syrup).

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

Units	Existing Capacity	Additional Capacity	Total Capacity after expansion
Distillery	300 KLPD (Molasses/Sugar Syrup)	200 KLPD (Molasses/Sugar	500 KLPD

	Based)	Syrup/Grain Based)	
Product	Absolute Alcohol- Ethanol /Extra Neutral Alcohol/Rectified Spirit	Ethanol (Bio-fuel) Only	
Co- generation power plant	12.0 MW	10.0 MW	22.0 MW

7. Existing land area is 10.52 ha (26 acres). Additional adjacent company's own land of 4.46 Ha (11 acres) is required for proposed expansion. Total plant area after expansion will be 14.98 ha (37 acres). Industry has already developed greenbelt in an area of 33% i.e. 3.47 hectares (8.58 acres) out of total existing area of the project and the additional 1.48 ha will be developed under greenbelt. Thus, total greenbelt area will be 4.95 ha (12.23 acre) after adding additional area.

8. The estimated expansion project cost is Rs. 225 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 50.0 Crores and the Recurring cost (operation and maintenance) will be about Rs. 4.0 Crores / annum. Total Employment will be 150 persons (100 permanent & 50 temporary) during operational phase after expansion. Industry proposes to allocate Rs. 4.49 Crores for 5 years from 2019-20 onwards as a part of the existing EC obtained from MoEFCC vide F. No. J-11011/137/2018-IA-II(I) dated 12.02.2019 for 225 KLPD Molasses based distillery along with 12 MW Co-generation power plant.

9. There are no National Park, Wildlife Sanctuary, Biosphere Reserve etc. exists within 10 km radius study area. Reserve Forest (8.5 km in ENE direction) & Bari Reserved Forest (9.0 km in SW direction). Water body i.e. Chhuha Nala (0.5 km in ENE Direction), Sarda Canal (1.5 Km in WSW direction), Rabha Distributary (2.5 km in SSW direction), Bhainsta Nala (4.0 km in SW direction), Sadatanagar Distributary (6.0 km in SW direction) & Gomati River (6.0 km in East direction) are found within 10 km radius.

10. Existing freshwater requirement for the distillery is 1800 KLPD. Additional requirement of freshwater for proposed Ethanol Plant will be 1400 KLPD for Molasses based operations or 1338 KLPD for Grain based operations which will be sourced from Groundwater. Hence, the total water requirement will be 3200 KLPD. After expansion, Effluent of 4803 m³/day will be treated through state of art CPU/Effluent Treatment Plant (Aerobic,

Anaerobic ICX Reactor) of 5000 KLPD capacity. The plant will be based on Zero Liquid discharge system.

11. The existing power requirement for the existing plant is 6.0 MW. Additional power requirement for expansion project will be 6.0 MW. Total requirement after expansion will be 12.0 MW which will be sourced from existing 12 MW & proposed 10.0 MW Co-Generation Power Plant. Unit will be having D.G. Sets of 2x1500 KVA which will be used as standby during power failure. Adequate Stack height (12 m) will be provided as per CPCB norms. The unit has existing boiler of capacity 80 TPH with Bag filter as Air Pollution Control Equipment. As a part of the expansion, a new 80 TPH boiler is proposed within the existing plant premises. Bag filter with a stack height of 89 m for both 80 TPH boilers has been/will be installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm³.

12. Details of Process emissions generation and its management:
CO₂ generated (136 TPD) during the fermentation process will be recovered by CO₂ Scrubbers and sold to authorized vendors.

13. Details of Solid waste/Hazardous waste generation and its management:

- Concentrated spent wash (1165 TPD) during molasses/sugar syrup based operation of Multi-feed based Ethanol Plant is being/will be burnt in boiler along with bagasse.
- Solid waste from the Grain based operations of Multi-feed Ethanol Plant generally comprises of fibres and proteins in the form of DDGS (45 TPD), which will be ideally used as Cattle, poultry and fish feed ingredients.
- Total Ash (250 TPD) from proposed boiler will be used for soil amelioration due to rich potash content.
- Used oil & grease (1.5 KL/Annum) generated from plant machinery/gear boxes as hazardous waste is being/ will be sold out to the CPCB authorized recyclers

14. IRO, Lucknow has issued certified compliance report for the project vide File No. IV/ENV/Ind-162/523/2019/164 dated 02.08.2021. The report states that PA have complied or are in the process of complying the EC conditions stipulated for the project EC letter No. F. No. J-11011/137/2018-IA-II(I) dated 12.02.2019.

15. As per OM dated 16th June, 2021, PP has submitted self-certification in the form of affidavit declaring that the proposed expansion of 200 KLPD will be for manufacturing of fuel ethanol only.

16. During deliberations EAC sought the ratio of fresh water used for ethanol produced. In this regard PP informed that ratio of fresh water used per kL Ethanol produced is 3.5 kL/kL and total fresh water requirement is

3200 KLPD. In this regard EAC pointed that the consultant has been considering only water utilized in fermentation only and left out the details of water utilized in boiler, domestic usage and others for determining the calculation of the same. A detailed deliberation was done and it was decided that utilities and miscellaneous usage of whatsoever nature shall be included for determining ratio of fresh water used per kL Ethanol produced and it should be in the range of 3-4 kL fresh water/ kL ethanol used irrespective of raw material used. In this regard EAC asked PP to resubmit water balance reducing requirement of fresh water. Further EAC noted that Rs. 4.49 Crores has already been earmarked for 5 years as a part of the EC obtained from MoEFCC vide. No. J-11011/137/2018-IA-II(I) dated 12.02.2019 for women empowerment and for providing solar energy to nearby villages. In this regard, EAC desired that PP shall increase the amount by one more crore apart from the funds ear marked in the previous EC. Further, EAC sought the details of fly ash management. Accordingly, EAC directed PP to submit:

- Break up of water balance reducing fresh water requirement.
- Plan for fly ash management.
- Undertaking that PP shall spend 1 crore for initiatives for women empowerment and for providing solar energy to nearby villages

PP has agreed to all the suggestions made by EAC and submitted an undertaking in compliance of the same. Accordingly, total fresh water requirement for the integrated industry shall not exceed 2500 KLPD.

17. The proposal was considered by the EAC in its 40th EAC meeting held during 14th- 16th August, 2021 and was reconsidered in 43rd EAC meeting held during 08th – 09th November, 2021 in the Ministry, wherein the project proponent and their consultant M/s J.M. EnviroNet Pvt. Ltd presented the EMP report as per the PFR. The Committee found the EMP report complying with the PFR and recommended the project for grant of environmental clearance.

18. 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.

19. 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.

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-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance for to the proposed project expansion of Distillery from 300 KLPD to 500 KLPD & Co-Generation Power Plant from 12 MW to 22.0 MW by installation of new 200 KLPD Multi-feed-based Ethanol Plant along with 10.0 MW Co-Generation Power Plant at Village Ajbapur, Tehsil Mohammadi, District Lakhimpur Kheri, Uttar Pradesh by M/s DCM Shriram Limited under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under: -

A. Specific Conditions:

(i) As per OM dated 16th June, 2021, project falls in category B2 and the proposed additional capacity of 200 KLPD shall be only be used for fuel ethanol manufacturing as per self-certification in form of an affidavit by the Project Proponent. Provided that subsequently if it is found that the ethanol, produced based on the EC granted as per this dispensation, is not being used completely for EBP Programme, or if ethanol is not being produced, or if the said distillery is not fulfilling the requirements based on which the project has been appraised as category B2 project, the EC shall stand cancelled.

(ii) 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.

(iii) The project proponent will treat and reuse the treated water within the integrated industry and no waste or treated water shall be discharged outside the premises.

(iv) Total fresh water requirement for the integrated industry shall not exceed be 2500 KLD which shall be met from ground water. Prior permission shall be obtained from the concerned regulatory authority/Irrigation division in this regard, and renewed from time to time. No ground water recharge shall be permitted within the premises. Rainwater shall be collected in storage ponds and utilized for plant activities. Ground water monitoring shall be done regularly and report is to be submitted to concerned authorities regularly.

(v) Effluent shall be treated through CPU/Effluent Treatment Plant (Aerobic, Anaerobic ICX Reactor).

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

(vii) 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.

(viii) 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.

(ix) 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.

(x) 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.

(xi) 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.

(xii) 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.

(xiii) As committed PP shall spend Rs. 1.0 crore towards CER for initiatives of women empowerment and for providing solar energy to nearby villages.

(xiv) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products as per CPCB norms and no parking to be allowed outside on public places.

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

(xvi) 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.

(xvii) 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 Conditions:

(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.

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.

(Ashok Kumar Pateshwary)
Director

Copy to: -

1. The Secretary, Department of Environment, Government of Uttar Pradesh, 601, Bapu Bhawan, Secretariat, Vidhan Sabha Marg, Lucknow (UP) – 1
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Kendriya Bhawan, 5th Floor, Sector "H", Aliganj, Lucknow - 226020

3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
4. The Member Secretary, Uttar Pradesh Pollution Control Board, Building No. TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow – 10
5. The Member Secretary, Central Ground Water Authority, 18/11, Jamnagar House, Mansingh Road, New Delhi – 11
6. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
7. The District Collector, Lakhimpur Kheri, Uttar Pradesh
8. Guard File/Monitoring File/Parivesh portal/Record File.

(Ashok Kumar Pateshwary)
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