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F. No. J-11011/316/2011-IA-II(I)

Government of India

Ministry of Environment, Forest & Climate Change

Impact Assessment Division

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

Dated: 23rd September, 2020

To,

M/s Asha Cellulose (I) Pvt Ltd.
Village Abrama, Taluka-Valsad,
District-Valsad, Gujarat

Sub: Expansion of Ethyl Chloride (From Ethyl Alcohol), Ethyl Chloride (From Mixed Solvent of Existing Process), Methyl Chloride (From Methyl Alcohol) & Hydroxy Propyl Methyl Cellulose (HPMC) manufacturing unit from 96.54 TPM to 1028.54 TPM by M/s Asha Cellulose (I) Pvt Ltd. located at S. No. 303/2, 303/P, 273/2, 275/1 Village Abrama, Taluka Valsad, District Valsad, Gujarat - Environmental Clearance regarding

Sir,

This has reference to your online proposal No. IA/GJ/IND2/118582/2019 dated 11th December 2019 and 16th June 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 Ethyl Chloride (From Ethyl Alcohol), Ethyl Chloride (From Mixed Solvent of Existing Process), Methyl Chloride (From Methyl Alcohol) & Hydroxy Propyl Methyl Cellulose (HPMC) manufacturing unit from 96.54 TPM to 1028.54 TPM by M/s Asha Cellulose (I) Pvt Ltd. in an area of 31,874 sqm., located at S. No. 303/2, 303/P, 273/2, 275/1 Village Abrama, Taluka Valsad, District Valsad, Gujarat

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

S. No.	Product	CAS No.	Capacity, TPM			End-Use
			Existing	Proposed	Total	
1.	Ethyl Cellulose (Aqua Process)	9004-57-3	20.0	0	20.0	Used in the manufacture of printing inks, solar paste, specialty paints, in electronic applications, as a binder and coating agent in pharma
2.	Ethyl Cellulose (Solvent Process)	9004-57-3	31.72	0	31.72	
3.	Ethyl Cellulose Aqueous Dispersion-Non Plasticized	9004-57-3	20.124	0	20.124	

EC for M/s Asha Cellulose (I) Pvt. Ltd.

4.	Ethyl Cellulose Aqueous Dispersion-Plasticized	9004-57-3	24.70	0	24.70	industry besides defense purposes. Used for coating application in Pharmaceutical Industries
5.	Ethyl Chloride (From Alcohol)	75-00-3	0	322.0	322.0	Used as a raw material in the manufacture of Ethyl cellulose and other chemical synthesis.
6.	Ethyl Chloride (From existing mix solvent)	75-00-3	0	160.0	160.0	
7.	Methyl Chloride	74-87-3	0	250.0	250.0	Used as a raw material in the manufacture of HPMC and other chemical synthesis.
8.	Hydroxy propyl methyl cellulose (HPMC)	9004-65-3	0	200.0	200.0	Used in pharmaceutical coating applications
Total		---	96.544	932.000	1028.544	

4. Total land area for the proposed project is 31,874 sqm.. Industry has already developed/ will develop greenbelt in an area of 32 % i.e. 10,125 sqm out of total area of the project The estimated project cost is Rs.3054.27 lacs including existing investment of Rs.1516.27 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs.402.5 Lakhs and the recurring cost (operation & maintenance) will be about Rs.214 Lakhs per annum. Total Employment will be of 65 persons after expansion. There are no National Parks, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. within 10 km.

5. Total water requirement is 244.9 cum/day (Fresh: 37.48 cum/day + Recycled from RO/MEE is 207.5 cum/day) of which fresh water requirement of 37.48 cum/day will be met from own Bore Well. Effluent (Industrial) of quantity 218.015 KLD will be treated through ETP followed by RO &MEE. The plant will be based on Zero Liquid discharge system. There will be no discharge of industrial effluent on land.

6. Power requirement after expansion will be 1000 kVA including existing 650 kVA and will be met from Dakshin Gujarat Veej Co. Ltd. Existing unit has 02 DG sets of 110 kVA capacity and another of 35 kVA. No additional DG set will be installed. DG sets will be used as standby during power failure. Stack (height 11 m) will be provided as per CPCB norms. Existing unit has one number of natural gas/FO fired boiler of 3 TPH capacity. Existing three numbers of 800 kg/h capacity of boiler will be discontinued. Existing two numbers of hot air generator will be continued. Additional one number of coal fired boiler of 3.5 TPH capacity and one number of FO/natural gas fired 6 lakhs k cal/h capacity of thermospack and one number of natural gas/LDO fired hot air generator of 6 lakhs k cal/h capacity will be installed. 30 meters height of chimney with SMF provided to 3 TPH boiler, 15 meters common chimney provided for three HAG. 30 meters chimney with ESP will be provided to 3.5 TPH coal fired boiler. 11 m height of chimney will be provided to 6 lakhs k cal/h capacity of thermo pack.

- 7.** All Synthetic Organic Chemicals Industry (Dyes & Dye Intermediates; Bulk Drugs and Intermediates Excluding Drug Formulations; Synthetic Rubbers; Basic Organic Chemicals, Other Synthetic Organic Chemicals and Chemical Intermediates) are listed in S.N. 5(f) of Schedule of Environment Impact Assessment (EIA) Notification under category 'A' and require appraisal/approval at central level in the ministry.
- 8.** The ToR was granted by the Ministry vide letter dated 18th March, 2019. Public hearing was conducted by Gujrat Pollution Control Board on 20th August, 2019. The Public hearing was presided by the Collector & District Magistrate.
- 9.** The proposal was earlier considered by the EAC in its meeting held during 21-23 January, 2020 wherein the Committee deferred the proposal and based on the information submitted by PP, the proposal of EC was again appraised by the Expert Appraisal Committee (Industry-2), in its meeting held on **17-19 August, 2020** in the Ministry, wherein the project proponent and their consultant M/s Eco Chem Sales & Services (ECSS) 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.
- 10.** 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.
- 11.** 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 and incremental GLC due to the proposed project within NAAQ standards. The Committee has also deliberated on the public hearing issues, action plan and CER plan and found to be addressing the issues in the study area and the issues raised during the public hearing. The certified compliance report also found to be satisfactory. Additional information submitted by the project proponent found to be satisfactory and addressing the concerns of the Committee. 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.
- 12.** 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.

13. 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 Ethyl Chloride (From Ethyl Alcohol), Ethyl Chloride (From Mixed Solvent of Existing Process), Methyl Chloride (From Methyl Alcohol) & Hydroxy Propyl Methyl Cellulose (HPMC) manufacturing unit from 96.54 TPM to 1028.54 TPM by M/s Asha Cellulose (I) Pvt. Ltd., located at S. No. 303/2, 303/P, 273/2, 275/1 Village Abrama, Taluka Valsad, District Valsad, Gujarat**, 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). No construction will be carried out during the proposed expansion of the project in the No Development Zone (NDZ) area as per CRZ Notification.
- (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). Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (iv). 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. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture.
- (v). 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.
- (vi). 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.
- (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). Total fresh water requirement shall not exceed 37.48 cum/day, proposed to be met from bore well. Prior permission in this regard shall be obtained from the concerned regulatory authority/CGWA.
- (ix). Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system. All the vent pipes should be above the roof level.
- (x). 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 ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

- (xi). Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xii). 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.
- (xiii). 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.
- (xiv). 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.
- (xv). As proposed 1% of the total project cost shall be allocated towards Corporate Environment Responsibility (CER). As proposed, the CER allocation shall be spent mainly for addressing the issues raised during public consultation/hearing including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR.
- (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.

13.1. : 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.

14. 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.

15. 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.

16. 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.

17. 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.

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

23/09/2020
(Dr. R. B. Lal)

Scientist 'E'/Additional Director

(डा. आर. बी. लाल)

(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. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar - 382 010 (Gujarat)
2. The Chief Conservator of Forests (Western Zone), Ministry of Environment & Forests, Regional Office, E-5, Arera Colony, Link Road -3, Bhopal - 462 016 (M P)
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
4. The Member Secretary, Gujarat State Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhi Nagar-382 043 (Gujarat)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh road, New Delhi
6. District Magistrate, Valsad, Gujarat
7. Guard File/Monitoring File/Parivesh portal/Record File

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