



File No: IA-J-11011/160/2021-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Dated 16/08/2024



To,

Sh. Lokesh Mittal
M/s MG PETROCHEM PRIVATE LIMITED
MG House, Plot No 376, Industrial Area, Phase 1, Panchkula, Haryana , PANCHKULA, HARYANA, ,
134113
lokesh@mgcpl.com

Subject: **Expansion of Grain based Ethanol Plant from 215 KLPD to 300 KLPD along with 6.0 MW Cogeneration Power Plant at Village Firozpur, Tehsil Raipur Rani, District Panchkula, Haryana by M/s. MG Petrochem Private Limited – Consideration of Environment Clearance reg.**

Sir/Madam,

This is in reference to your application for Grant of EC under the provision of the EIA Notification 2006-regarding in respect of project Expansion of Grain based Ethanol Plant from 215 KLPD to 300 KLPD along with 6.0 MW Cogeneration Power Plant at Village Firozpur, Tehsil Raipur Rani, District Panchkula, Haryana by M/s. MG Petrochem Private Limited submitted to Ministry vide proposal number IA/HR/IND2/480974/2024 dated 14/06/2024.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24C2504HR5546508N
(ii) File No.	IA-J-11011/160/2021-IA-II(I)
(iii) Clearance Type	EC
(iv) Category	B2
(v) Project/Activity Included Schedule No.	5(g) Distilleries
(vi) Sector	Industrial Projects - 2
(vii) Name of Project	Expansion of Grain based Ethanol Plant from 215 KLPD to 300 KLPD along with 6.0 MW Cogeneration Power Plant at Village Firozpur, Tehsil Raipur Rani, District Panchkula, Haryana by M/s. MG Petrochem Private Limited
(viii) Name of Company/Organization	MG PETROCHEM PRIVATE LIMITED
(ix) Location of Project (District, State)	PANCHKULA, HARYANA
(x) Issuing Authority	MoEF&CC
(xii) Applicability of General Conditions	no

3. The Ministry of Environment, Forest and Climate Change has examined the proposal seeking environmental clearance for the expansion of Grain based Ethanol Plant from 215 KLPD to 300 KLPD along with 6.0 MW Cogeneration Power Plant at Village Firozpur, Tehsil Raipur Rani, District Panchkula, Haryana by M/s. MG Petrochem Private Limited.

4. As per EIA Notification 2006 (Schedule 5 (g) Category A); however, as per in the MoEFCC Notification S.O. 345(E), dated 17th January 2019, notification number S.O. 750(E), dated 17th February 2020, S.O. 980 (E) dated 02nd March 2021 & S. No. 2339(E) 16th June 2021, a special provision in the EIA Notification, 2006 "Expansion of sugar manufacturing units or distilleries for production of ethanol, having Prior Environment Clearance (EC) for existing unit, to be used completely for Ethanol Blended Petrol (EBP) Programme only, as per self-certification in form of an affidavit by the Project Proponent, shall be appraised as category 'B2' projects.

5. The details of products and capacity are placed in Annexure II.

6. Ministry has issued Environmental Clearance to the existing industry for 215 KLPD Grain based Ethanol Plant along with 6 MW Co-generation Plant at Village Firozpur, Tehsil Raipur Rani, District Panchkula, Haryana vide F. no. IA-J-11011/160/2021-IA II (I) dated 26th October 2021 in a total project area of 7.76 ha (19.18 acres). Certified Compliance report of Existing EC has been obtained from Integrated Regional Office, MoEFCC, Chandigarh vide File no. 5-06/2021/IRO/Env. dated 31.03.2023. Action Taken Report for partial compliances has been submitted to MoEFCC, New Delhi on 12.08.2023. Subsequently, Closure Report has been obtained after inspecting the site on 04.04.2024 from the Regional Office, MoEFCC, Chandigarh dated 16.04.2024. EAC found compliance status satisfactory.

7. Standard ToR and Public Hearing is not applicable as the project falls under category B2 as per OM dated 16th June 2021. It was informed that there is no litigation pending against the project.

8. Total land area after expansion will be 7.76 Ha. No additional land will be required for the expansion project as the same will be done within existing plant premises. Out of the total plant area, 2.56 hectares i.e., ~33% of the plant area is being/will be developed as greenbelt & plantation. As per granted EC dated 26.10.2021, the company has planted 4273 trees @2000 trees/ha. Now, the company will plant additional 2127 trees for achieving 2500 trees/ha. The estimated project cost of expansion is Rs. 30.0 Crores. Capital cost of EMP for proposed expansion project would be Rs. 3.0 Crores and the recurring cost for EMP for the proposed expansion project would be Rs. 0.18 Crores per annum. Industry proposes to allocate Rs 45 lakhs towards extended EMP (Corporate Environment Responsibility). Total Employment after expansion will be 240 persons during the operation phase.

9. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors etc. lies within 10 km radius. Rajpura PF is at a distance of ~4.5 km in the NE direction, Gumti Sambhalwa RF is at a distance of ~7.5 km in the East direction & Kadana PF is at a distance of ~8.5 km in the NNE direction are present. Water Bodies: Balrali Nadi is at a distance of ~1.0 km in the SSE direction, Thathar ki Nadi is at a distance of ~3.5 km in the North direction, Baliali Nala is at a distance of ~4.5 km in the South direction, Dangri Nadi is at a distance of ~4.5 km in the NW direction, Sangrel Nadi is at a distance of ~5.5 km in the NE direction, Begna Nadi is at a distance of ~5.5 km in the ESE direction, Dhandiyon ka Nala is at a distance ~7.0 km in the ENE direction, Naura Nala is at a distance ~7.0 km in the ENE direction, Ujjal ki Nadi is at a distance of ~7.5 km in the SE direction & Dudhgarh ki Nadi is at a distance ~8.5 km in the NW direction.

10. 50 TPH boiler along with 6 MW turbine is already installed which will be sufficient to cater to the steam and power requirement needs after expansion. No new boiler is proposed as part of this expansion project.

11. Total freshwater requirement after expansion will be 1542 CMD (1462 Process & 80 CMD Domestic+ Greenbelt) which will be sourced from Groundwater. The company has obtained permission from the Haryana Water Resources Authority, Government of Haryana for groundwater abstraction of 1097 CMD vide NOC no. HWRA/NOC/IND/R/2024/547 valid from 18.09.2023 to 18.09.2024. The company will apply for the abstraction of the rest water. Existing effluent generation is 854 CMD which is treated through CPU/ETP of capacity 1366 CMD and total effluent generation after expansion will be 1141 CMD which will be treated through existing CPU/ETP of capacity 1366

CMD. In grain-based operation, raw stillage (1447 TPD) will be sent to decanter followed by MEE followed by dryer to produce DDGS. Domestic wastewater is being/will be treated in STP of capacity 30 KLPD. The plant is being/will be based on Zero Effluent discharge system and treated effluent/water is being/will not be discharged outside the factory premises.

12. The total power requirement of the Grain-based Ethanol Plant after expansion will be 6.0 MW which will be sourced from the existing 6.0 MW Co-generation Power Plant. The existing Grain based Ethanol plant has 50 TPH Rice Husk/Bagasse/Biomass/Paddy straw-fired boiler. No new boiler will be proposed as part of the expansion project. APCE ESP with stack height of 50 m is already installed with the existing boiler for controlling the particulate matter emissions within the statutory limit of 50 mg/Nm³. Industry has 3x625 kVA DG sets which is being/will be used as standby during power failure and stack height (8 m) has been provided as per CPCB norms to the existing DG sets.

13. Details of Process emissions generation and its management:

- APCE Electrostatic Precipitator (ESP) with stack height of 50 m has been installed with the existing 50 TPH boiler for controlling the particulate matter emissions within the statutory limit of 50 mg/Nm³.
- Online stack monitoring system has been provided to keep a check on emissions and the data is being/shall be transmitted to CPCB and SPCB servers.
- CO₂ (160 TPD) is being/will be generated during the fermentation process is being/will be collected and sold to authorized vendors.

14. Details of solid waste/Hazardous waste generation and its management:

- DDGS (133 TPD), which is being/will be ideally used as Cattle, poultry and fish feed ingredients
- Ash (60 TPD) is being/will be used for soil amelioration due to rich potash content or given to brick manufacturers.
- Used oil (0.5 KL/annum) generated from the plant machinery/gearboxes as hazardous waste is being/will be sold out to the CPCB-authorized recycler.
- ETP/CPU sludge and STP Sludge is being/will be used as manure.

15. As per Notification S.O 2339(E), dated 16th June 2021, PP has submitted a Self-certification in the form of notarized affidavit declaring that the expanded capacity of 300 KLPD will be used for manufacturing fuel ethanol only.

16. Total land of 7.76 Ha is under possession of the company and land use is already industrial in nature due to existing operational activities.

17. During deliberations, EAC discussed the following issues:

- PP informed that out of the total plant area, 2.56 hectares i.e., ~33% of the plant area is being/will be developed as greenbelt & plantation. The company has already planted 4273 trees. As part of the expansion, the company will plant additional 2127 trees for densification of the greenbelt @ 2500 trees/ha which will be completed by October 2024.
- As suggested by EAC, PP increased the budget allocated for socio-economic developmental activities from 30 lakhs to 45 lakhs. Accordingly, PP submitted revised list of activities proposed in CER with enhanced budget.
- PP informed that Industry is already be maintaining the approach road to the plant which shall be continued and there is no direct entry from SH-1.

The committee was satisfied with the response provided by PP on the above information. Further, the Committee desired to submit the above information in writing. Accordingly, PP has submitted the desired information and EAC found the information/commitments satisfactory.

18. The proposal was considered by the EAC (Meeting ID: EC/AGENDA/EAC/134190/6/2024) held on 02nd July 2024 in the Ministry, wherein the project proponent and the accredited Consultant M/s. J.M. EnviroNet Pvt. Ltd. (NABET certificate no. NABET/EIA/2326/RA 0308 and validity till 7th August 2026), presented the case. The Committee 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 the desired form along with the 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 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.

20. The Committee noted that the EMP report is in compliance of the PFR. The Committee deliberated on the CER plan and found to be addressing the issues in the study area. The EAC has deliberated on 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.

21. 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.

22. 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 establishment of Expansion of Grain based Ethanol Plant from 215 KLPD to 300 KLPD along with 6.0 MW Cogeneration Power Plant at Village Firozpur, Tehsil Raipur Rani, District Panchkula, Haryana by M/s. MG Petrochem Private Limited, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions.

23. 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.

24. 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 the Environment (Protection) Act, 1986.

25. 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.

26. 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.

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

Copy To

1. The Principal Secretary, Department of Environment, Government of Haryana, SCO 1-2-3, Sector 17 (D), 2nd Floor, Chandigarh, Haryana.
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Regional Office, Bays No.24-25, Sector 31-A, Dakshin Marg, Chandigarh - 160030.
3. The Member Secretary, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32.
4. The Member Secretary, Central Ground Water Authority, 18/11, Jamnagar House, Mansingh Road, New Delhi – 11.
5. The Member Secretary, Haryana State Pollution Control Board, C-11, Sector-6, Panchkula, Haryana - 134109.
6. Compliance and Monitoring Division, MoEF&CC, Indira Paryavaran Bhawan, Jor Bagh Road, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
7. District Collector, Panchkula, Haryana.
8. Guard File /Monitoring File /Parivesh Portal / Record File.

Specific EC Conditions for (Distilleries)

1. Distilleries

S. No	EC Conditions
1.1	As per the Notification S.O. 2339(E), dated 16th June 2021, the project falls in category B2 and the total capacity of 300 KLPD shall only be used for fuel ethanol manufacturing as per self-certification in the form of a notarized 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 the 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.
1.2	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 (Annexure-III).
1.3	EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of the project. Conversion of land use (CLU) certificate shall be obtained before the start of construction activities.
1.4	NOC from the Concerned Local authority shall be obtained before the start of the construction of the plant and abstraction of Groundwater. State Pollution Control Board shall not issue Consent to Operate (CTO) under The Air (Prevention and Control of Pollution) Act, 1981 and The Water (Prevention and Control of Pollution) Act, 1974 till the project proponent obtains such permission.
1.5	Total Fresh water requirement shall not exceed 1542 m ³ /day which will be met from Ground water (Bore-wells). No ground water recharge shall be permitted within the premises. Industry shall construct a rainwater storage pond and the accumulated water to be used as fresh water thereby reducing fresh water consumption.
1.6	Spent Wash/stillage shall be sent to the decanter followed by the Multiple Effect Evaporator and dryer to form DDGS. DDGS is to be used as cattle feed. The MEE & Drier condensate, spent lees, WTP Rejects, Boiler & Cooling tower blowdowns, washings etc. shall be treated in the 'Condensate Polishing Unit' (CPU). STP shall be installed to treat domestic wastewater. The plant will be based on 'Zero Liquid Discharge' system and no effluent/treated water will be discharged outside the factory premises.
1.7	APCE ESP with stack height of 50 m is already installed with the existing boiler for controlling the particulate matter emissions within the statutory limit of 50 mg/Nm ³ . At no time, the emission levels shall exceed the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Performance assessment of pollution control devices/ systems will be conducted annually.
1.8	Boiler ash (60 TPD) is being/will be used for soil amelioration due to rich potash content or given to brick manufacturers. PP shall install 10% of the total power requirement in the form of solar power inside plant premises/adjacent/nearby areas.

S. No	EC Conditions
1.9	CO ₂ (160 TPD) generated during the fermentation process will be collected by utilizing CO ₂ scrubbers and it shall be sold to authorized vendors/collected in installed bottling plant.
1.10	PP shall allocate at least Rs. 0.50 Crore as capital cost and Rs. 0.20 Crore as recurring cost for Occupational Health Safety. 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/masks for personal protection.
1.11	Training shall be imparted to all employees on the safety and health aspects of chemical handling. Safety and visual reality training shall be provided to employees.
1.12	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. The firefighting system shall be as per the norms. PESO certificate shall be obtained. No additional storage capacity for ethanol will be created. PP shall ensure that in the event of any fire, accident, explosion or any unforeseen conditions the impact of such event should not go beyond the boundary of the plant i.e., the risk should be tolerable (acceptable) at the boundary.
1.13	The company shall maintain an Emergency Response Decision support system in such a way so that identification of the detector's network for the location of the leak source and the probable leaked quantity in real-time, followed by modelling of the dispersion of the plume and consequences as forecast is done in advance and thus, no leak accident may go unattended. Accordingly, Risk Mitigation plan shall be in place.
1.14	The company shall determine the distance of fire hydrant while finalizing its location from ethanol storage tanks or any other hazardous storage substance shall be based on the dispersion of Thermal Radiation so that during any unforeseen situation fire hydrant is always available to operate manually.
1.15	Process organic residue and spent carbon, if any, shall be sent to Cement and other suitable industries for their incineration. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
1.16	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.
1.17	The greenbelt of at least 5-10 m width is already developed in nearly 2.56 hectares i.e., 33 % of the total project area which shall be densified @ 2500 trees per hectare, mainly along the plant periphery by October 2024. Indigenous species shall only be developed as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall develop at least 20 varieties of species as a part of the greenbelt. Saplings 4-6 feet high shall be planted. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. Records of tree canopy shall be monitored through remote sensing map. Greenbelt development shall be completed before the commissioning of the plant. Trees shall be planted in the Green Belt under the campaign #Plant4Mother #एक पेड़ माँ के नाम and uploaded on the MeriLiFE

S. No	EC Conditions
	portal (https://merilife.nic.in/).
1.18	PP proposed to allocate Rs. 0.45 Crores towards extended EMP (CER) which shall be spent as submitted in the CER plan (Annexure-IV). Further, all the proposed activities under CER shall be completed before the commissioning of the plant in consultation with the District Administration.
1.19	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. At least 15% of the total project area shall be allotted solely for parking purposes with facilities like restrooms etc. The parking area will be relocated to the South of the drain as per the revised layout plan submitted by the PP.
1.20	Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland drains with catch pits to trap runoff material shall be provided. Biomass shall be stored in covered sheds and wind-breaking walls/curtains shall be provided around the biomass storage area to prevent its suspension during high wind speed. All Internal roads shall be paved. Industrial vacuum cleaner shall be provided to sweep the internal roads. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment.
1.21	Continuous online (24x7) monitoring system for stack emissions/effluent 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.
1.22	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. EMC head shall report directly to the Head of Organization/ Director/CEO as per company hierarchy.
1.23	PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of single-use plastic in order to ensure compliance of the Notification published by MOEFCC on 12th August 2021. A report along with photographs of the measures taken shall also be included in the six-monthly compliance report being submitted to the concerned authority.

Standard EC Conditions for (Distilleries)

1. General Conditions

S. No	EC Conditions
1.1	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

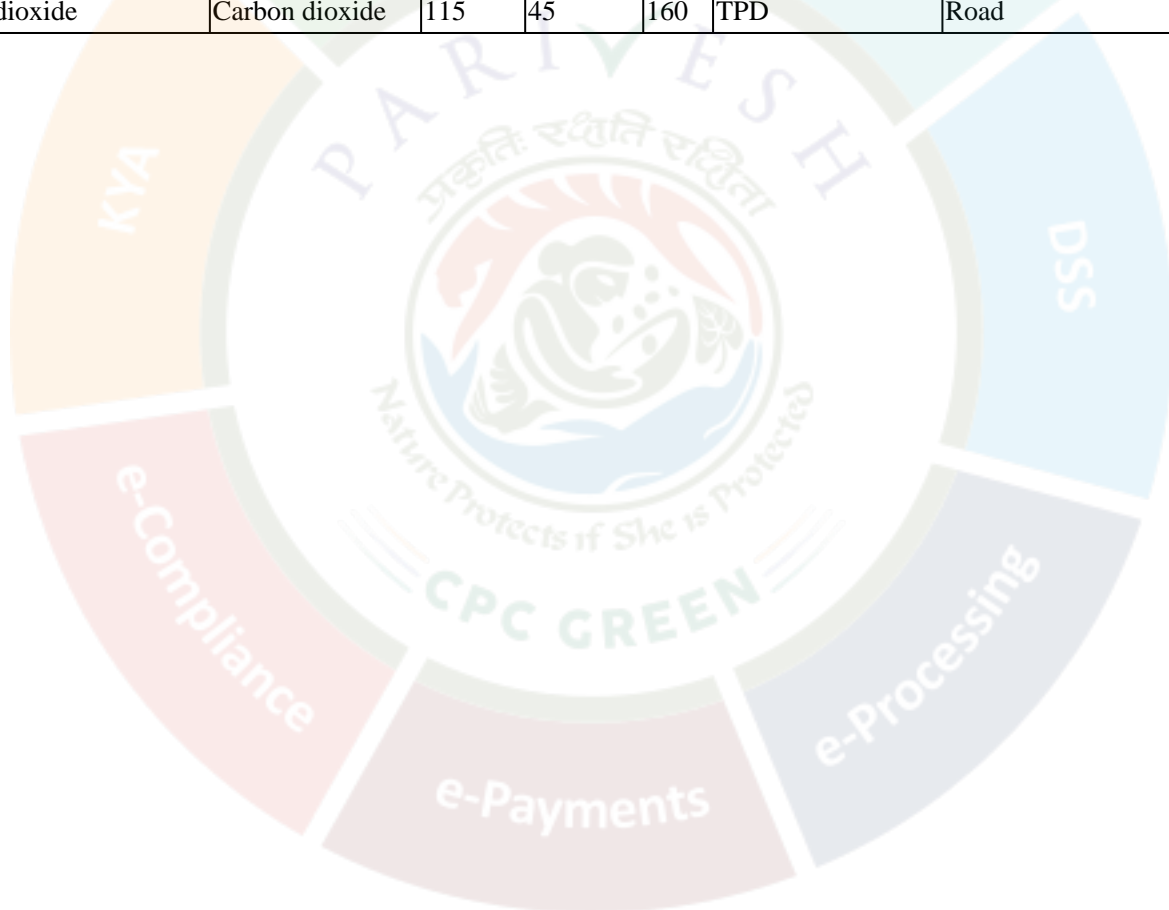
S. No	EC Conditions
	add additional environmental protection measures required, if any.
1.2	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
1.3	The overall noise levels in and around the plant area 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).
1.4	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.
1.5	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.
1.6	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.
1.7	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.
1.8	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.
1.9	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.
1.10	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.

S. No	EC Conditions
1.11	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.

Annexure 2

Details of Products & By-products

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
Ethanol	Ethanol	215	85	300	Kilo Litre per Day (KLD)	Road
Power	Power	6	0	6	Mega Watt (MW)	cables
DDGS	DDGS	95	38	133	TPD	Road
Carbon dioxide	Carbon dioxide	115	45	160	TPD	Road



Annexure –II

The details of products and capacity are as under:

S. No.	Name of Units	Name of product/by-product	Existing Capacity	Additional production Capacity	Total production Capacity
1.	Grain based Ethanol Plant	Ethanol (Bio-fuel)	215 KLPD	85 KLPD	300 KLPD
2.	Co-Generation Power Plant	Power	6.0 MW	-	6.0 MW
3.	DWGS Dryer	DDGS	95 TPD	38 TPD	133 TPD
4.	Fermentation unit	Carbon di-oxide	115 TPD	45 TPD	160 TPD

Annexure –III

Capital cost and recurring cost of EMP are given below:

S. No.	Description	Capital Cost for proposed expansion project (Crores)	Recurring Cost/annum for proposed expansion project (Crores)
1	Air Pollution management ESP + stack CO2 Scrubber Fugitive emission control	0.5	0.03
2	Effluent Treatment CPU + RO Plant (ETP/WTP) STP	0.2	0.02
3	Spent wash treatment Decanters, MEE & Dryers	0.2	0.02
4	Environment monitoring Lab instrument	0.9	0.02
	Online monitoring of stack, ambient air and water	0.5	0.02
	Third party investment for monitoring, compliance audit	0.2	
5	Solid waste management Ash handling & management	0.1	0.02
	DDGS Handling System	0.2	

S. No.	Description		Capital Cost for proposed expansion project (Crores)	Recurring Cost/annum for proposed expansion project (Crores)
6	Greenbelt & plantation development in & around premises	Plantation for greenbelt	0.2	0.05
	Total		Rs. 3.0 Crores	Rs. 0.18 Crores/annum

Annexure - IV

Details of extended EMP (CER) with proposed activities and budgetary allocation:

REVISED BUDGET FOR SOCIO ECONOMIC & DEVELOPMENTAL ACTIVITIES			
S. No.	Proposed Activities	Proposed budget for Expansion	
		1 st Year	2 nd Year
1	Skill development activities for youth & women (Training to women & girls for sewing, stitching, Dress making, Computer, Beautician courses etc.; Industrial training to youth, Trainings to farmers regarding New Technologies & Techniques in Irrigation, conservation of water & Soil, etc.)	Rs. 20 lakhs (Village Firozpur)	Rs. 20 lakhs (Village Dandlawar)
2	Plantation (Plantation/ Avenue plantation along roadside, tree plantation in nearby vacant land etc.)	Rs. 2.5 lakhs (Village Dandlawar) 500 no. of plants to be planted)	Rs. 2.5 lakhs (Village Firozpur) 500 no. of plants to be planted)
	Total	22.5 lakhs	22.5 lakhs
		45 lakhs	



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

To,

The Director

MG PETROCHEM PRIVATE LIMITED

MG House, Plot No 376, Industrial Area, Phase 1, Panchkula,
Haryana,,Panchkula,Haryana-134109

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/HR/IND2/227212/2021 dated 01 Sep 2021. The particulars of the environmental clearance granted to the project are as below.

- | | |
|---|--|
| 1. EC Identification No. | EC21A060HR177311 |
| 2. File No. | IA-J-11011/160/2021-IA-II(I) |
| 3. Project Type | New |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 5g(a)-Grain Based distilleries for Ethanol Blended Petrol |
| 6. Name of Project | Proposed 215 KLPD Grain based Ethanol Plant along with 6.0 MW Cogeneration Power Plant at Village Firozpur, Tehsil Raipur Rani, District Panchkula, Haryana by M/s. MG Petrochem Private Limited |
| 7. Name of Company/Organization | MG PETROCHEM PRIVATE LIMITED |
| 8. Location of Project | Haryana |
| 9. TOR Date | N/A |

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

Date: 26/10/2021

(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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PARIVESH

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This has reference to your online proposal No. IA/HR/IND2/227212/2021, dated 01st September, 2021 for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for proposed 215 KLPD Grain based Ethanol plant along with 6.0 MW Co-generation Power Plant at Village Firozpur, Tehsil Raipur Rani, District Panchkula, Haryana by M/s MG Petrochem Private Limited.

3. All grain based fuel ethanol plants are listed at S.N. 5(ga) of Schedule of Environmental Impact Assessment (EIA) Notification, 2006 amendment vide S.O 2339 dated 16th June 2021 under category 'B-2' and appraised at Central Level by Expert Appraisal Committee (EAC). It was informed that no litigation is pending against the proposal.

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

Unit	Capacity	Product
Grain Based Ethanol Plant	215 KLPD	Product- Ethanol (Bio-fuel) By-product- DDGS &CO ₂
Co-generation Power Plant	6.0 MW	Power

5. Total land required for the project is 7.76 hectares (77600 m²). Industry will develop greenbelt in an area of 33% i.e. 2.56 ha (25600 m²) out of total area of the project.

6. The estimated project cost is Rs. 205 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 24.0 Crores and the Recurring cost (operation and maintenance) will be about Rs. 1.5 Crores / annum. Total Employment will be 120 persons (Permanent 72 & temporary 48) during operation phase. Industry proposes to allocate Rs. 1.0 Crores of total project cost towards Social developmental activities.

7. There are No National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors, lies within 10 km radius of the project site. PF like Rajpura PF (~4.5 km in NE direction), Gumti Sambhalwa RF (~7.5 km in East direction) & Kadana PF (~8.5 km in NNE direction), River/Nala i.e. Balrali Nadi (~1.0 km in SSE direction), Thathar ki Nadi (~3.5 km in North direction), Baliali Nala (~4.5 km in South direction), Dangri Nadi (~4.5 km in NW direction), Sangrel Nadi (~5.5 km in NE direction), Begna Nadi (~5.5 km in ESE direction), Ujjal ki Nadi (~7.5 km in SE direction) and Dudhgarh ki Nadi (~8.5 km in NW direction); Baliali Nala

(4.5 km in South direction), Dhandiyon ka Nala (~7.0 km in ENE direction) and Naura Nala (~7.0 km in ENE direction) are found within 10 km radius.

8. Total water requirement for the Grain based Ethanol Plant will be 3439 KLPD out of which 2372 KLPD will be recycled in plant operations. Hence, the fresh water requirement for the project will be 1097 KLPD (Ethanol Plant & Co-generation Power Plant and Utilities 1067 m³/day + Domestic: 30 m³/day) which will be sourced from groundwater. Effluent of 1212 m³/day will be treated through state of art CPU/Effluent Treatment Plant (Reverse Osmosis technology) of 1500 KLPD capacity. The plant will be based on Zero Liquid discharge system.

9. Power requirement for Ethanol plant will be 4.0 MW, which will be sourced from the 6.0 MW Co-generation Power Plant. Construction power / standby power connection shall be taken from Haryana Bijli Vitran Nigam Limited. Unit will be having D.G. Sets of 2 x 1500 KVA which will be used as standby during power failure. Adequate Stack height (8 m) will be provided as per CPCB norms. Boiler of 50 TPH capacity with ESP as Air Pollution Control Equipment will be installed. ESP with a stack height of 60 m for 50 TPH boiler will be installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm³.

10. Details of Process emissions generation and its management:

CO₂ (164 TPD) generated during the fermentation process will be recovered by CO₂ Scrubbers and sold to authorized vendors.

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

- Solid waste from the Grain based operations generally comprises of fibres and proteins in the form of DDGS (94 TPD), which will be ideally used as Cattle, poultry & fish feed ingredients.
- Used oil & grease (0.5 KL/Annum) generated from plant machinery/gear boxes as hazardous waste will be sold out to the CPCB authorized recyclers.

12. As per OM dated 16th June, 2021, PP has submitted self-certification in the form of affidavit declaring that the proposed capacity of 215 KLPD will be for manufacturing of fuel ethanol only.

13. During the appraisal EAC noted that proposed parking area of 10 % shall be increased to 15% of the total project area and PP obliged to it.

14. The proposal was considered by the EAC in its 40th meeting held during 14th- 16th September, 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.

15. 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.

16. 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.

17. 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.

18. 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 establishment of proposed 215 KLPD Grain based Ethanol plant along with 6.0 MW Co-generation Power Plant at Village Firozpur, Tehsil Raipur Rani, District Panchkula, Haryana by M/s MG Petrochem Private 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 215 KLPD shall be only 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 factory and no waste or treated water shall be discharged outside the premises.

(iv) Total fresh water requirement shall be 1097 KLPD which will be met ground water. Extraction of ground water shall not be done without obtaining prior permission of CGWA/concerned authority. No ground water recharge shall be permitted within the premises.

(v) The spent wash shall be concentrated and dried to form DDGS to be used as cattle feed.

(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 5 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 allocate Rs. 1.0 Crore for CER and shall be used for implementing energy conservation measures and skill development for women/girls in nearby villages.

(xiv) There shall be 15% 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.

19. 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.

20. 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.

21. 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.

22. 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.

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

(Ashok Kumar Pateshwary)
Director

Copy to: -

1. The Principal Secretary, Department of Environment, Government of Haryana, SCO 1-2-3, Sector 17 (D), 2nd Floor, Chandigarh, Haryana
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Bays No.24-25, Sector 31-A, Dakshin Marg, Chandigarh - 160030
3. The Member Secretary, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Haryana State Pollution Control Board, C-11, Sector-6, Panchkula, Haryana - 134109.
5. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhawan, Jor Bagh Road, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi

6. District Collector, Panchkula (Haryana)
7. Guard File /Monitoring File /Parivesh Portal / Record File.

(Ashok Kumar Pateshwary)
Director
E-mail: ak.pateshwary@gov.in
Tel. No. 24695290

Signature Not Verified
Digitally signed by A.K Pateshwary
Director
Date: 10/26/2021 2:33:54 PM