



State Environment Impact Assessment Authority, M.P.
(Ministry of Environment, Forest and Climate Change, Government of India)

Environmental Planning & Coordination Organization

Paryavaran Parisar, E-5, Arera Colony

Bhopal - 462016

visit us <http://www.mpseiaa.nic.in>

Email : mpseiaa@gmail.com

Tel.: 0755 - 2466970, 2466859

Fax : 0755 - 2462136

No.: 1101 /SEIAA/20
Date: 18.6.2020

To,
Nawab Raza, Director
M/s Mahakaushal Sugar & Power Industries Limited (MSPIL),
Vill. Bachai, - Dist Narsinghpur.
MP- 487001

Sub:- Case No. 6791/2020 : Prior Environment Clearance for Molasses based Fuel Ethanol plant of 60 KLD & 2.5 MW Co generation Plant along with 25 TPH Incineration Boiler at premises of existing Sugar unit at Khasra no. 149 and 168 village Bachai, Tehsil & District- Narsinghpur, (MP) Total area for proposed project : 5 acres Total available land is : 35 Acres by Director, Nawab Raza, M/s Mahakaushal Sugar & Power Industries Limited (MSPIL), Vill. Bachai, - Dist Narsinghpur. MP- 487001 Email: mspil.acc@gmail.com 9826904655, 9575571213 Env. Consultant- Creative Enviro Services, Bhopal (M.P.)

Ref: Your application dated 28.01.20 received in SEIAA office on 30.01.2020.

With reference to above, the proposal has been appraised as per prescribed procedure & provisions under the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated 14th September 2006 and its amendment, on the basis of the mandatory documents enclosed with the application viz., Form I, pre-feasibility report, ppt and additional clarifications furnished in response to the observations by the State Expert Appraisal Committee (SEAC) and State Environment Impact Assessment Authority (SEIAA) constituted by the competent Authority.

- This is case of Prior Environment Clearance for Fuel Ethanol Plant of 60 KLD (Khasra No. 149, 168), Village - Bachai, Tehsil - Narsinghpur, Dist. Narsinghpur (MP). The site is proposed on the piece of land where sugar unit (4000 TCD) with co-generation plant of 12.8 MW is already in operation.
- PP has proposed to set up a 60 KLD fuel ethanol plant (Molasses based) with 25 TPH Incineration Boiler in same premises. It will employ fermentation, multi pressure distillation system, evaporation & slop fired incineration boiler based co-gen power plant of 2.5 MW. Sugar factory will supply molasses, while the new incineration boiler & turbine will supply steam & power to the proposed ethanol plant.
- The salient features of existing and proposed unit are as follows:-

Sr.	Details	Sugar	Co-gen	Distillery & Power
1	Status	Existing	Existing	Proposed
2	Location	Khasara No 149 and 168 Village- Sohagpur, Tehsil & District Betul MP.		

Case No. 6791/2020

Issued vide letter no. dated

Case No.: To be quoted in registered cases for correspondence

4	Capacity	4500 TCD	12.8 MW	60 KLPD & 25TPH Incineration Boiler
5	Working days	120	160	330
6	Raw material	Sugarcane	Bagasse	Molasses
7	Required quantity of raw material	4000 TCD of sugar cane	1.5 TPH of Bagasse	220 TPD of Molasses
8	Source of Water Supply	Ground Water/ Existing Water Storage Reservoir	Ground Water/ Existing Water Storage Reservoir	Ground Water/ Existing Water Storage Reservoir
9	Water Requirement	354 M3/day (only recycled water is used)	74 M3/day (recycled water)	466 M3/day

- iv. The project mainly comprises of installation of all the manufacturing and environment management equipment and necessary infrastructure development required for operating distillery unit and cogeneration power plant. As per EIA Notification dated 14th Sep., 2006 and as amended on 13th June, 2019, the project falls under Category "B", Project or Activity '5(g)' Distilleries (All Molasses based distilleries \leq 100 KLPD).
- v. There is no National park / Sanctuaries, Eco-sensitive areas (DFO letter dtd 16.10.19), critically polluted areas and inter-State boundaries (PWD letter dtd. 11.09.19) within 05 km of the proposed site, hence, general conditions are not attracted as per EIA Notification 2006.
- vi. The entire land is about 35 acres and out of that proposed unit will require 5 acres of land. PP has submitted copy of sale deed dtd. 18.07.2005. As per the sale deed the said land was purchased by M/s Mahakaushal Sugar & Power Industries Limited from Shri Shyamlal S/o Late Shri Mangal Singh Lodhi. The land use break-up of the unit is as follows:-

Particulars	Existing Sugar Unit Area Sq.m	Proposed Sugar Unit Area Sq.m
Built- up Area of main plant and machineries	8000	11000
Road Area	1250	1250
Raw Material Storage Area	250	500
Fuel Storage Area	100	200
Roof Area	2800	2800
Parking Area	Common,	Common
Green Belt	3000	5700
Open Land	1000	1000
Total Area	16400	22450
Total Area in Acres	4.05	5.50

- vii. Molasses will be sourced from parent sugar unit and group sugar factories. The fuel ethanol yield from cane molasses will be at 270 lit/ton. The per day requirement of molasses will be about 220 MT per day for 60 KLPD ethanol production per day. The total requirement of molasses for the 270 days operation of the proposed ethanol plant will be about 59400 MT (at maximum 95% utilization level from 4th year onwards).
- viii. Total start up water requirement is estimated as 1103 M3 and after recycling & reuse of water, net fresh water requirement is estimated as 466 KLD, which will be sourced through Ground Water. Application for permission to withdraw of 770 KLPD of groundwater from CGWA has been submitted vide application no. 21-4/891/MP/IND/2019 dated 4th November, 2019. The same is under process.
- ix. The proposed ethanol unit is ZLD based with provision of MEE and incineration boiler. Condensate Polishing Unit (CPU) will treat spent lees, cooling tower blow down, boiler

blow down and process condensate. The Spent wash will be treated by multi effect evaporator followed by slope fired boiler. The concentrated spent wash will be used as fuel in the boiler and generated potash rich ash will be used as manure and given to the nearby farmers. Being zero discharge operation, ground water contamination is not expected. However following are the measures proposed:

- ❖ Multi Effect Evaporator with thermal recompression followed by incineration boiler and CPU is proposed to maintain zero discharge condition.
 - ❖ The process condensate, boiler blow down, cooling tower blow down, spent lees will be cooled and will be treated in **condensate polishing unit** & after treatment, it will be recycled back to the at various stage of process again.
 - ❖ RO reject will be recycled for gardening.
 - ❖ Proper storm water drainage will be provided to avoid mixing of storm water with effluent during rainy season
 - ❖ A drain along the boundary wall shall be made, which joins the settling tank to protect the flow of contaminant outside the premises if any.
- x. PP has proposed Rainwater harvesting structures to collect and reuse the rain water for green area development and also proposed to construct a water reservoir to meet the water requirement. The capacity of water holding structure i.e. (100mtrsX 50mtrsX20 mtrs) should be more than 150 days and same will be filled with monsoon water. The size of the water body may be planned for volume of 1,00,000 M³
- xi. PP has proposed the following measures to control the fugitive emission:
- Provision of enclosure for points of loading & unloading and transfer operations.
 - Regular spraying of water over internal road and approach road to control dust
 - Provision of pucca road within the plant premises.
 - To control the vehicular pollution, control measures will be implemented such as periodical check of Vehicle for its fitness and PUC certificates.

To mitigate the impact of pollutants from boiler stack, diesel generator sets, fugitive emission and emission from vehicular traffic during the operational phase of the site, following measures are proposed for implementation:

- Provision of ESP at stack of boiler to control the emission below 150 mg per cubic meter.
 - Provision of adequate stack height of 60 mt for boiler.
 - Provision of dust collectors system at various material transfer points.
 - Provision of online continuous monitoring system for stack of boiler
 - Provision of regular monitoring of AAQM to meet out the given standards.
 - Provision of parking at inside of unit near to main gate with basic facilities.
 - Provision of cover over bagasse conveyors belt along with dust suppression system
 - Regular maintenance and water spraying arrangement over approach road of the unit meeting to SH-22 as well as internal roads
- xii. Following will be solid /hazardous waste management practice to be adopted by unit:
- Yeast sludge shall be mixed with spent wash and shall be used as manure.
 - Ash generated from spent wash incineration shall be given to framer as it contains rich potash value.. Incinerated spent wash ash (2.3 TPD) and Baggase Ash (18.93 TPD) from the boiler would be disposed to farmer

- Hazardous waste i.e. Used oil from DG set, spent resin from DM/Cooling tower and waste carbon from ACF will be given to authorized recyclers/ TSDF, Pithampur
- xiii. Odour generation is expected from molasses storage tank, bad mill sanitation, spent wash and alcohol storage tanks etc. Entire operation of unit is carried out in closed manner. It will controlled through use of efficient biocides, steaming of fermentation equipment , mill sanitation biocides etc.

- (i). Power will be taken from cogeneration power plant. Total Connected load will be - 1050 KWH and operating load will be estimated as 1360 KWH. Existing DG sets of 1000 KVAX2 shall be used as standby arrangement.
- (ii). The distillery will employs multi pressure system for achieving steam economy. The working steam pressure is 4.5 kg/cm²g. The power from turbine will be supplied to the fuel ethanol plant using 25 TPH slop fired boiler. The total steam requirement for 60 KLPD fuel ethanol plants will be 13.20 TPH.

There is one boiler capacity of 80 TPH for the Existing operation. A slop e fired boiler of 25 TPH capacities is proposed to be installed for co-generation of 2.5 MW of power other details are given in the table as below:

Sr. No.	Particular	Existing Sugar Unit	Proposed Distillery
1	Boiler Capacity	80 TPH	25 TPH
2	Fuel Consumption	Baggasse	Conc. Spent Wash Feed & Baggasse
3	Stack Height	Existing i.e. 55 mtrs	60m
4	Diameter in M	3 Meter	3 m
5	Stack Gas Exist Velocity in m/sec	16.8	18.0
6	Stack Gas Temp	155 0C	190 0C
7	Velocity in m/s	16.8	18.0
8	SO2 emission rate gm/sec	3.05	26.83
9	Nox emission rate gm/sec	-	8.19
10	PM-10 emission rate gm/sec	0.183	0.24
	APCE (Air pollution control equipment) Proposed	ESP with outlet concentration PM <50 mg / Nm3	ESP with outlet concentration PM < 50 mg / Nm3

- xiv. Green belt has been planned for 12 acres out of total acquired land inclusive of sugar unit. The proposed Fuel Ethanol plant will require approx 5 Acres of land. At present approx 3000 sq m land is covered with the green belt/Green Cover and further green belt development shall be taken up with new upcoming unit by planting 8400 numbers of trees.
- xv. PP has included disaster management plan, Fire hydrant and fire fighting system shall be provided and on site emergency plan shall be delineated. Storage of fuel Ethanol, molasses and spent wash shall be ensured as per industrial safety norms. Flammable chemical shall be stores away from source of ignition. Electrical wiring of flame proof type will be provided.
- xvi. Under CER activities PP has proposed Skill Development Programmes for Youths as per the requirement of the Unit, Infrastructure facilities at schools of nearby villages; Need base assistance to villages etc.with Rs. 60 Lakh Budgetary Provision.

S. no	Need Identified For CER Plan	Activities	Budgetary Provision (Capital) (Rs. In lacs)	Budgetary Provision (Recurring) (Rs. In lacs)
1	Skill Development Programmes for youths as per the requirement of the Unit	Facilitating self-employment skill generation vocational training programmes for creating better self employment ventures through inducing skill among the youths as per the requirements of the unit. A Apprentice type training in association with ITI,	15	3.0 Lacs 05 person per year @ Rs 5000/- per month
2.	Provision of solar lamps and Light	Facilitating solar pumps, solar lights in the nearby villages of the area.	15	Rs. 3 lakh for each villages total five villages.
3	Infrastructure development at School	Infrastructure facilities at schools of nearby villages in terms of provision of computers, teachers, separate toilets for girls and boys etc.	.21	Rs. 3 lakh for each villages total 07 villages.
4.	Need base assistance to villages/individual basis.	In consideration and with recommendation of gram Panchyat.	09	-
	Total		60 Lacs	-

Based on the information submitted at Para i to xvi above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 617th meeting held on 10.06.2020 and decided to accept the recommendations of 427th SEAC meeting held on dated 28.02.2020.

Hence, Prior Environmental Clearance is accorded under the provisions of EIA notification dtd. 14th September 2006 & its amendments to the proposed Molasses based Fuel Ethanol plant of 60 KLD & 2.5 MW Co generation Plant along with 25 TPH Incineration Boiler at premises of existing Sugar unit at Khasra no. 149 and 168 village Bachai, Tehsil & District- Narsinghpur, (MP) Total area for proposed project : 5 acres Total available land is : 35 Acres by Director, Nawab Raza, M/s Mahakaushal Sugar & Power Industries Limited (MSPIL), Vill. Bachai, - Dist Narsinghpur. MP- 487001 subject to the compliance of the Standard Conditions and the following additional Specific Conditions as recommended by SEIAA & SEAC in its meetings.

A. Specific Conditions as recommended by SEIAA

1. PP should obtain NOC from CGWA for extraction of ground water.
2. PP should ensure to construct water reservoir of water holding structure i.e. (100mtrsX 50mtrsX20 mtrs) as proposed to meet the water requirement. and to reduce the demand of ground water.

3. Waste Water Disposal:

- a. Industry shall install Multi Effective Evaporator (MEE) and adequate ETP for treatment and disposal of effluent. Zero discharge shall be maintained.
- b. The process condensate, boiler blow down, cooling tower blow down, spent lees after cooling should be treated in **condensate polishing unit**.

- c. Spent wash should be stored in MS/SS tank. The storage of spent wash shall not exceed 5 days capacity.
- d. Process effluent/any waste water should not be allowed to mix with storm water. Storm water drain should be passed through guard pond.

4. Solid & hazardous waste :-

- a. PP should obtain authorization from MPPCB regarding hazardous waste disposal. PP should ensure disposal of hazardous waste/ by products regularly through sale or in TSDF site and there should be no dumping of these materials in the premises/outside. PP should also ensure handling, disposal and management of hazardous waste as per the Hazardous waste (Management & Handling) Rules 2000.
- b. Other solid waste generated from the process shall be used as cattle-feed. Industry shall explore the possibility to make it available to the local farmers.

5. Air Pollution Control measures :

- a. PP should provide fogging system for dust suppression.
- b. PP should ensure installation of DG sets with canopy and the stack height should be as per the MPPCB norms.
- c. PP should install continuous air quality monitoring station in coordination with MPPCB.
- d. Industry shall install bag-house in boiler to maintain the emission level of particulate matter as per MPPCB/CPCB prescribed norms.
- e. Boiler ash shall be stored separately as per CPCB guidelines So that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with storm water.
- f. Bagasse ash and coal ash should be stored separately and reuse/recycle properly.

6. Noise & Odor Environment & Management

- a. Walls and ceilings of the concerned buildings should be lined with sound absorbing materials.
- b. Noise attenuating devices like ear plugs and ear muffs should be provided to the workers exposed to high noise level.
- c. Vehicles should not be allowed to queue outside the plant on the highway. Vehicle and people flow during shift changes should be regulated by allowing exits in a phased manner.
- d. D.G. Set should be enclosed in a proper acoustic enclosure to reduce the noise emanating from it.
- e. Use of efficient biocides to control bacterial contamination.
- f. Control of temperature during fermentation to avoid in-activation / killing of yeast.
- g. Avoiding storage of fermented wash.
- h. Regular use of bleaching powder in the drains to avoid growth of putrefying micro-organisms.
- i. Closed operation of the process to avoid odour nuisance.

7. Energy Conservation:

PP should ensure installation of photovoltaic cells (solar energy) for lighting in common areas, LED light fixtures, and other energy efficient plant machineries and equipments.

8. Disaster management:

- a. Prepare the onsite & offsite risk / disaster management plan, health and safety management plan and duly approved by the Competent Authority.
- b. Fire fighting system shall be as per the norms and cover all areas where alcohol is produced, handled and stored. Provision of foam system for firefighting shall be made to control fire from the alcohol storage tank. DMP shall be implemented.

9. Green Area :-

- a. PP should develop 15 m wide green belt with four rows of trees all along the periphery.
 - b. The plant species selection should be as per CPCB guidelines for plantation in industrial area.
 - c. Every effort should be made to conserve the existing trees in the project area.
 - d. Dense plantation shall be taken up in at least 33% of total plot area.
10. PP should ensure the implementation of CER activities to the extent of **Rs. 47** lakh will be used for Infrastructure facilities at schools of nearby villages in terms of provision of computers, teachers, separate toilets for girls and boys, provision of solar pumps, solar lights in the nearby villages of the area. Skill Development Programmes for youths as per the requirement of the Unit , Rain water harvesting structure etc.as proposed.
11. PP should ensure to submit half yearly compliance report and CER activity report with photographs of plantation in MP-SEIAA. If PP is failed to upload or submit two consecutive half yearly compliance reports of EC conditions to concerned authority (SEIAA and Regional Office, MoEF&CC,Gol,Bhopal) than prior environmental clearance issued to PP will automatically be treated as cancelled/ revoked as per OM No. 930/SEIAA/2019 dated 30.05.2019 issued by MPSEIAA.
12. PP should make provision for MS tank for storage of finished product.
13. PP should ensure the traffic movement plan, parking facilities and road width.
14. PP should make a Environmental Management Cell under the guidance of MPPCB to maintain the environmental condition of the project.
15. Dedicated parking facility for loading and unloading of materials shall be provided in the factory premises. Unit shall develop the implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.

B. Specific Conditions as recommended by SEAC

I Statutory Compliance

- i. The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the Madhya Pradesh Pollution Control Board (MPPCB).

- ii. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time & permission of competent authority if ant tree falling is to be carried out.
- iii. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to MPPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.
- iii. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS.
- iv. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.
- v. DG exhaust will be discharged at height stipulated by CPCB.
- vi. CO2 generated from the process shall be bottled/made solid ice and sold to authorized vendors.
- vii. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.
- viii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.

III. Water quality monitoring and preservation

- i. Total fresh water requirement shall not exceed 251 cum/day proposed to be met from ground water source. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- ii. The spent wash shall be taken to multi effect evaporators (MEE) and the concentrated spent wash shall be incinerated in the boiler along with bagasse.
- iii. Number of working/operating days for the distillery shall be 300 days as proposed. However, the same may be increased to 330/round the year subject to zero liquid discharge ensured by the SPCB, while considering the Consent to Operate
- iv. The project proponent shall provide online continuous monitoring of effluent (if applicable) , the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- v. As already committed by the project proponent Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises, for

- which PP shall provide MEE, Incineration boiler and CPU unit for making system zero discharge
- vi. Adhere to 'Zero Liquid Discharge and No industrial effluent from the unit shall be discharged outside the plant premises. PP should also install Internet Protocol PTZ camera with night vision facility along with minimum 05X zoom and data connectivity must be provided to the MPPCB's server for remote operations.
 - vii. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the Madhya Pradesh Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
 - viii. 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.
 - ix. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
 - x. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.

IV Noise monitoring and prevention

- i. Acoustic enclosure shall be provided to DG sets for controlling the noise pollution.
- ii. 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.
- iii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures

- i. The energy sources for lighting purposes shall preferably be LED based.
- ii. Possibility of installation of solar power system may be explored.

VI. Waste management

- i. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- ii. Hazardous wastes such as used oil, discarded drums, used carbon etc shall be directly sent to CTSDF, Dhar.
- iii. The Fly ash generated from boilers shall be stored in silos and disposed to farmers of the area. The ash may be mixed with available press mud
- iv. If any Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.
- v. Automatic smoke, heat detection system should be provided in the sheds. Adequate fire fighting systems should be provided for the storage area.
- vi. In order to have appropriate measures to prevent percolation of spills, leaks etc. to the soil and ground water, the storage area should be provided with concrete floor of inert material or steel sheet depending on the characteristics of waste handled and the floor must be structurally sound and chemically compatible with wastes.

- vii. Measures should be taken to prevent entry of runoff into the storage area. The Storage area shall be designed in such a way that the floor level is at least 150 mm above the maximum flood level.
- viii. The storage area floor should be provided with secondary containment such as proper slopes as well as collection pit so as to collect wash water and the leakages/spills etc.
- ix. Recent MSDS of all the chemicals used in the plant be displayed at appropriate places.
- x. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
- xi. All the storage tanks of raw materials/products shall be fitted with appropriate controls to avoid any spillage / leakage. Bund/dyke walls of suitable height shall be provided to the storage tanks. Closed handling system of chemicals shall be provided.
- xii. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.
- 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.

VII. Green Belt

- i. 12 acres will be covered with the good green belt and 8400 trees will be planted. The green belt of 5-10 m width will be developed mainly along the periphery and road side. Selection of plant species shall be as per the CPCB guide lines in consultation with the State Forest Department.
- ii. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
- iii. PP shall also develop green belt over community places in consultation with gram panchayat

VIII. Safety, Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. 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.
- iii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iv. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- v. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile

toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. 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.

IX. Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/ forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and or shareholders /stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
- v. The proposed EMP cost is Rs. 1903.0 Lakhs as capital and 29.18 Lakhs /year as recurring cost.
- vi. Under CER activity, Rs. 60 Lakhs has proposed for different activities. PP shall comply with the commitment of providing infrastructure facility at school, traffic awareness programme, solar pumps, water harvesting structures and skill development programme in surrounding areas.
- vii. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- viii. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

X. Miscellaneous

- i. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
- ii. The project authorities must strictly adhere to the stipulations made by the MP Pollution Control Board and the State Government.

Case No. 6791/2020

Issued vide letter no. dated

Case No.: To be quoted in registered cases for correspondence

- iii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- iv. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- v. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. 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 to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any
- vi. The above conditions shall 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, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.

Standard Conditions:

1. Regular monitoring of influent and effluent, surface, sub-surface and ground water should be ensured and treated waste water should meet the norms prescribed by the MPPCB or described under the Environment (Protection) Act, 1986 whichever are more stringent.
2. Project Proponent has to strictly follow the direction/guidelines issued by MoEF, CPCB and other Govt. Agencies from time to time.
3. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the MoEF & CC, Gol, and its Regional Office, Bhopal.
4. A copy of the environmental clearance shall be submitted by the Project Proponent to the Heads of the Local Bodies (Panchayat and Municipal Bodies), District Collector and DFO as applicable and responsible for controlling the proposed projects who in turn has to display the same for 30 days from the date of receipt.
5. The Project Proponent shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the MoEF & CC, Gol and State Level Environment Impact Assessment Authority (SEIAA) at www.environmentclearance.nic.in & www.mpseiaa.nic.in & and a copy of the same shall be forwarded to the Regional Office, MoEF & CC, Gol, Bhopal.
6. Full Cooperation should be extended to the Officers and staff from the Ministry and its Regional Office at Bhopal / the CPCB / the SPCB during monitoring of the project.

7. 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.
8. The Environmental Clearance shall be valid for a period of five years from the date of issue EC as per EIA Notification, 2006 Para 9.
9. Any appeal against this prior environmental clearance shall lie with the Green Tribunal, if necessary, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
10. The Project Proponent has to upload soft copy of half yearly compliance report of the stipulated prior environmental clearance terms and conditions on 1st June and 1st December of each calendar year on MoEF & CC web portal - <http://www.environmentclearance.nic.in/> or <http://www.efclearance.nic.in/> and submit hard copy of compliance report of the stipulated prior environmental clearance terms and conditions to the Regulatory Authority also
11. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 EC conditions and shall also be sent to the Regional Office of MoEF & CC, Gol.
12. 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.

(Tanvi Sundriyal)
Member Secretary

Endt No. 1100 / SEIAA/ 2020

Dated 18.6.2020

Copy to:-

- (1). Principal Secretary, Environment Deptt. 3rd Floor, Mantralaya Vallabh Bhawan, Bhopal.
- (2). Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony Bhopal-462016.
- (3). Member Secretary, MP Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal.
- (4). The Collector, District Narsinghpur -M.P.
- (5). Janpad Panchyat distirict Narsinghpur Office of Gram Panchyat, Bachai,
- (6). Deputy Secretary, Department of Commerce, Industry & Employment, Mantralaya, Bhopal.
- (7). Director, I.A. Division, Monitoring Cell, MoEF, Gol, Ministry of Environment & Forest Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110 003
- (8). Director (S), Regional office of the MOEF, (Western Region), Kendriya Paryavaran Bhawan, Link Road No. 3, Ravi Shankar Nagar, Bhopal-462016.
- (9). Guard file.

(Dr. Sanjeev Sachdev)
Officer-in-Charge

Case No. 6791/2020

Issued vide letter no. dated

Case No.: To be quoted in registered cases for correspondence