



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

Environmental Planning & Coordination Organization

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No.: 4415 /SEIAA 26

Date: 27/10/20

To,

Technical Director

M/s MP DYECHEM INDUSTRIES PVT. LTD.

Plot No 59-63, Sanwar Rd Industrial Area,

Sector A, Indore, MP- 452015

Sub:-Case No. 7602/2020: Prior Environment Clearance for Proposed Expansion in Production Capacity of Synthetic Organic Chemicals including the API (Active Pharmaceutical Ingredient) at Plot No. Plot No. 59 & 63, Sanwar Road Industrial Area, Sector A, Indore, Madhya Pradesh, Indore, M.P. -452015 Total Area: 7,729sq.m. Production Capacity : Existing synthetic Resins:-1800 MT/anum, Proposed Synthetic Resin:- 18000 MT/anum & API Products: 2.4 MT/anum by M/s M.P.DYECHEM INDUSTRIES PVT. LTD.. through Technical Director Plot No 59-63, Sanwar Rd Industrial Area, Sector A, Indore, MP, -452015 Email: gmoperation@mpdin.com Mob:- 6263696632

Ref: Your application dtd. 01.08.20 received in SEIAA office on 09.09.2020

With reference to the 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 amendments, on the basis of the mandatory documents enclosed with the application viz., Form I, pre-feasibility report, ToR, EIA Report, ppt. and additional clarifications furnished in response to observations by the State Expert Appraisal Committee (SEAC) and State Environment Impact Assessment Authority (SEIAA) constituted by the competent Authority.

- (i) M/s M.P.DYECHEM INDUSTRIES PVT. LTD. is doing business of manufacturing and sales of various types of Synthetic Resins and Fatty Acids. The project is located in plot no. 59 and 63 of Sector 'A', Industrial Area, Sanwar Road, Indore, in Indore District. The company has taken the 'Consent to Operate' for Air and Water from Madhya Pradesh Pollution Control Board. The company has also taken the Authorization under the Hazardous and Other Waste (Management & Transboundary Movement) Rule, 2016.
- (ii) The geographical coordinates of the site Latitude 22° 45' 28.69" N and Longitude 75° 50' 36.9" E
- (iii) The unit is having a capacity of manufacturing of 1800 MT per year of various types of Synthetic Resins 18000 MT and 2000 MT per year of Vegetable oil Fatty Acids, Dehydrated castor oil 700 MT per year Refined veg oil 6000 MT per year with annual turnover of MPD Industries Pvt. Ltd. of approx. Rs. 70 Cr. Per Year

Case No. 7602/2020

Issued vide letter no. dated

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

- (iv) The existing production capacity and proposed product and production capacity of bulk drug and drug intermediates are as follows:-

| Details of Existing and Proposed Project | | |
|--|---------------------------|---|
| Products | Existing Capacity MT/Year | Proposed Expansion Capacity (Total) MT/Year |
| Dehydrated Castor Oil | 700 | Remain Same |
| Refined Veg Oil Like Linseed Soyabean Rapeseed Cotton seed Coconut Musture | 6000 | Remain Same |
| Synthetic Resins | 1800 | 18000 |
| Veg Oil Fatty Acid | 2000 | Remain Same |
| Losartan Pottasium (API Product) | Nil | 1.2 |
| Candesaran Cilxetil (API Products) | Nil | 1.2 |

- (v) Details of product and production capacity:-

| | | Proposed product |
|------|--|---------------------|
| S.No | Name of Existing Products | Quantity in MT/Anum |
| A. | Synthetic Resin | 18000 |
| 1 | Alkyd Resin | 3200 |
| 2 | Phenolic Resin, | 1700 |
| 3 | Alkyl Phenolic Resin | 300 |
| 4 | Rosin Modified Maleic Resin | 70 |
| 5 | Ester Gum | 25 |
| 6 | Polyurethane Resin | 10 |
| 7 | Polyamide Resin | 1200 |
| 8 | Amino Resin | 16 |
| 9 | Ketonic Resain | 80 |
| 10 | Adhesion Promoters | 3 |
| 11 | Polyester Resin | 0 |
| 12 | Amine Synergyst | 12 |
| 13 | Ultraviolet Monomers | 20 |
| 14 | Ultraviolet Oligomers | 120 |
| 15 | Ultraviolet Varnish | 200 |
| 16 | Modified Epoxy Resin | 400 |
| 17 | Water Based Emulsion | 5 |
| B | Vagetable Oil Fatty Acid & Esterified Oil | |
| 1 | Dco Fatty Acid (Dehydrated Castor Oil Fatty Acid) | 450 |
| 2 | Soybean oil Fatty Acid | 750 |
| 3 | Dimer Fatty Acid | 300 |
| 4 | Esterified Oil | 40 |
| | Name of Proposed Product | |
| 1 | Alkyd Resin | 4800 |
| 2 | Phenolic Resin, | 4000 |
| 3 | Alkyl Phenolic Resin | 720 |
| 4 | Rosin Modified Maleic Resin | 70 |
| 5 | Ester Gum | 50 |

| | | |
|----------|--|------|
| 6 | Polyurethane Resin | 48 |
| 7 | Polyamide Resin | 2000 |
| 8 | Amino Resin | 100 |
| 9 | Ketonic Resin | 600 |
| 10 | Adhesion Promoters | 6 |
| 11 | Polyester Resin | 3800 |
| 12 | Amine Synergyst | 25 |
| 13 | Ultraviolet Monomers | 50 |
| 14 | Ultraviolet Oligomers | 240 |
| 15 | Ultraviolet Varnish | 360 |
| 16 | Modified Epoxy Resin | 500 |
| 17 | Water Based Emulsion | 631 |
| 18 | Losartan Pottasium | 1.2 |
| 19 | Candesaran Cilexetil | 1.2 |
| B | Vegetable Oil Fatty Acid & Esterified Oil | |
| 1 | Dco Fatty Acid (Dehydrated Castor Oil Fatty Acid) | 450 |
| 2 | Soybeanoil Fatty Acid | 750 |
| 3 | Dimer Fatty Acid | 300 |
| 4 | Esterified Oil | 40 |

- (vi) The proposed project is covered under 5 (f) category (B) of the schedule of EIA Notification issued by the Ministry of Environment & Forests vide S.O.1533 (E), dtd. 14.09.2006 and its amendments, hence is required to obtain prior EC. In the context of pandemic COVID -19; Gol's MoEF&CC issued a OM vide dated 13.04.2020, for considering the API & Bulk drug Projects as B-2 category.
- (vii) There is no interstate boundary within 05 km and no National park, Sanctuary (DFO letter dtd 30.01.19) and Eco-sensitive areas within 05 km of the project area hence General condition are not attracted.
- (viii) The case was discussed in SEAC meetings 460th dated 24.09.2020 and recommended for grant of prior EC.
- (ix) The project occupies total area of 0.7725 ha (1.909 acre). PP has submitted amended lease deed dtd 08.04.13 executed between GM, District Trade and Industries Centre, Indore & M.P.DYECHEM INDUSTRIES PVT. LTD through Director Shri Pranav Patel. The land use breakup is as follows:-

| Particular | Land Area (m2) | |
|----------------------------------|---------------------------|--|
| | Area in (sq. m.) Existing | Area in (sq. m.) Total After Expansion |
| Built up Area | 2545 | 5368 (Expanded mezzanine floors) |
| Raw Material Storage | 438 | 918 (Includes Mezzanine floors) |
| Internal road/paved Area | 1781 | 1781 |
| Plantation/Green Belt /Open Land | 1068+2335= 3403 | 1068+2335= 3403 |
| Total Land Area | 7729.07 | 7729.07 |

- (x) The major facilities involved are Steam Boiler, Thermopacks, Reactors, Cooling Towers, Chilling plant, Palletizer machines, and Effluent Treatment Plant. Facilities like Administrative office, Occupational Health Centre, parking and greenbelt also developed at the site.
- (xi) The total water requirement for the project will be approx. 190.5 KLD and after recycling/reuse, the net fresh water consumption will be 153.5 KLD which will be sourced from AKVN water supply.
- (xii) **Domestic Effluent:** Domestic Effluent (9.6 KLD) will be treated in STP and treated water will be reused for gardening purposes within premises.
Industrial Effluent: Total Industrial Effluent (29.75 KLD) will be treated in ETP / MEE and treated water will be reused for industrial purposes (washing, cooling domestic etc)
- (xiii) Total treated effluent 37 KLD (domestic & industrial treated water) will be recycled/reused. Company is having ETP of capacity 50 KLPD for the treatment of effluents. The entire treated effluent is recycled in plant processes (i.e. cooling towers, floor washing, cleaning etc.) and the sludge is sent to the disposal at approved TSDF facility thus Zero Discharge facility is achieved.
- (xiv) Power requirement for the project to be sourced from existing line of Madhya Pradesh Paschim Kshetra Vidyut Vitran Company Limited (MPPKVVCL). Presently company is having the permission to withdraw the required power from MPPKVVCL. In case of power failure, D.G. set will be used as a backup power source. Company is having one 500 KVA D.G. set of Jakson Cummins make.
- (xv) Depending upon the product and type of emissions, common reactors will be used which may also connected to common scrubber/ vent.
- (xvi) For dealing with process emissions like acid fumes and other evaporation losses from process activity 1 alkali scrubber of capacity 1200 CFM & 1 acidic scrubber of capacity 1200 CFM is provided. Scrubbed gases will be neutralized and converted into salts. The scrubber effluent will be treated in ETP for further treatment. Certain measures can be established to reduce the VOC emission in the plant premises, design changes, operation and maintenance controls as leak prevention. Control measures for dust emission control
- (xvii) Use of raw materials will have VOC emissions, which will be controlled by taking the following measures:
- Provision for immediate isolation of such equipment, in case of a leakage will be made. All the mechanical seals of pumps and reactor will be monitored and maintain periodically as per preventive maintenance schedule.
 - Monitor VOC's through portable VOC's meter.
 - Closed handling and charging system shall be provided for chemicals.
 - Pumps shall be provided with mechanical seals to prevent leakages.
 - Flammable gas detectors shall be installed in the appropriate locations.
 - Venting equipment having toxic / flammable material shall have vapor recovery/scrubbing system. Measuring Instruments with sound alarm and having strategically placed sensing elements shall be provided for alerting the personnel in case of any escape of gases. Interlock with blower shall be provided.

- In addition, other attendant efforts like water spraying, tree plantations and covered storage etc. shall be adopted, wherever feasible and needed.
- (xviii) Following are the EMP planned for existing and proposed activities of the plant.
- Various mitigation measures shall be adopted for water and wastewater management is mentioned below:
 - Storm water drainage system shall be developed and shall be maintained preciously to prevent the flow of silt and other contaminant outside of the site
 - The entire trade effluent will be divided into two streams i.e. Stream-I (high concentrated streams) and Stream-II (low concentrated stream). Both the streams will be treated in well-designed ETP, RO and MEE.
 - Low COD /TDS wastewater (including process effluent, washing, blow downs from cooling towers, boiler, scrubber, Softener regeneration) will be sent to ETP followed by RO. Treated water will be reused.
 - High COD / TDS wastewater (consisting process effluent & RO reject) will be sent to MEE/ATFD. Condensate will be reused and bottom salt will be sent to a common TSDF site.
 - Utilization of treated wastewater in toilet flushing, greenbelt development and dust suppression
 - A drain along the boundary wall shall be made, which will be connected proposed settling tank to protect the flow of contaminant towards nearby area
 - Recycling of 50 KLD (- 50 % of total fresh demand) water is proposed which ultimately reduces the fresh water demand.
 - MPDIL will install Multi Effective Evaporator, with treatment capacity of 02 KL/Hr. The treated water will be used for cooling towers, floor washing and gardening/green belt.
 - Storm water drainage system will be developed for unit and shall be maintained preciously to prevent the flow of silt and other contaminant outside of the site.
 - Blow downs from cooling towers, boiler, ACF/MGF Cleaning, Softener regeneration, Vacuum pump will go to ETP
 - Water harvesting structure need to provide further strength with proper maintenance
- (xix) The unit will provide solvent recovery system/distillation for the recovery of solvent. The solvent will be recovered and reuse back in the manufacturing process. The solvent will be recovered through distillation process.
- (xx) Haz. waste, solid & other waste will be segregated and properly stored prior to its final disposal and its managed would be carried out as per HW Rules, SW Rules & CPCB/GPCB guideline
- (xxi) Solid waste generated during the manufacturing process and wastewater treatment process is mainly sludge and will be disposed at authorized TSDF facility as per Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2008 (Amendment 2016).
- Disposal of hazardous waste on regular basis shall be ensured and there should be no dumping of these materials in the premises/outside.
 - Hazardous chemicals shall be stored in sealed tanks, drums etc. Flame arrestors shall be provided on tanks. To avoid the spillage from processing unit, Industry shall provide fully mechanized filling and packaging operation unit.
 - RCC layer and double layered HDPE lining for primary and secondary leachate collection shall be provided.
 - Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.

- 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.
 - 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.
- (xxii) To mitigate the impact of pollutants from boiler stack, diesel generator sets, sources of fugitive emission and vehicular traffic during the operational phase of the site, following measures are proposed for implementation:
- Height of all the stacks will be as per statutory requirement. All the stacks will have Stack Monitoring Facility (SMF) consisting of sampling port-hole, platform and access ladder.
 - Bag Filters and venturi scrubber are proposed as per the requirement and nature of pollutant.
 - Online monitoring system for the pollutants from the stacks with an arrangement to reflect gaseous emission parameters on company's server shall be provided.
 - Transport vehicles will be properly maintained to reduce air emissions. Vehicles will be periodically checked for pollutant emissions against stipulated norms.
 - Development of green belt in time bound manner in consultation with forest department.
 - Provision of enclosure for all the loading & unloading operations, if possible.
 - Regular maintenance of air pollution control equipment.
 - Regular monitoring of VOC, concentration in work zone
 - Better process control shall also help to keep the emission within the limit
 - Alkaline Scrubber will be attached to the reactor vent to control process SO₂ emission.
 - In order to control the fugitive dust emissions due to transportation activity, all the operational roads within the plant area shall be asphalted.
 - Regular maintenance of vehicles and machinery in order to control emissions
 - A good housekeeping and proper maintenance will be practiced in the industry
- (xxiii) The plantation and green belt is developed in 3403 sq. mtr area by planting 610 nos. of plants. Additional 200 number of plants shall be around the periphery at outside of the unit.
- (xxiv) PP has included Disaster Management plan in the EIA Report. For firefighting measure PP has provided Fire extinguishers and Fire Hydrants at project site.
- (xxv) PP has proposed the rain water from the building roof will be directed through the drainage to the covered storm water drainage line. All drainage system will be concreted lined and located along the roads up to rain water harvesting pit. Roof top rain water will be collected in tanks and reused after filtration as per requirements.
- (xxvi) MPDIL is proposing to introduce API manufacturing in the existing facility. The existing investment in plant & machineries / project cost is approx. Rs. 26,06,28,850/- and the proposed additional investment in plant & machineries for project cost will be approx. Rs. 50,00,00,00/-. Thus, total investment in plant & machineries / project cost would be approx. 26.6 Crores

- (xxvii) As part of CER activity PP has proposed to provide Infrastructure development at School in nearby villagers with Budgetary Provision of 02 lakh.

| Need Based CER activities alongwith Budgetary Allocation and it's Implementation Schedule | | | |
|---|--------------------------------------|--|---|
| S. N. | Need Identified For CER Plan | Activities | Budgetary Provision In Lacs (Capital) & Implementation Period |
| | | | 1 st Year |
| 1 | Infrastructure development at School | Infrastructure facilities at schools in terms of provision of computers, teachers, facility of safe drinking water, separate toilets for girls and boys, provision of furniture, additional rooms etc. In consultation with district administration (School dally business school, Musakhedi) | Rs. 2 Lacs |
| | Total | | Rs 2 Lacs |
| Project Cost : 50,00,000/-CER Budget @1% : Rs 50,000/- Provision made Rs : 2,00,000/- | | | |

Based on the information submitted at Para i to xxvii above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 642nd meeting held on 05.10.2020 and decided to accept the recommendations of 460th SEAC meeting held on dtd. 24.09.20

Hence, Prior Environmental Clearance is accorded under the provisions of EIA notification dtd. 14th September 2006 & its amendments for the Proposed Expansion in Production Capacity of Synthetic Organic Chemicals including the API (Active Pharmaceutical Ingredient) at Plot No. Plot No. 59 & 63, Sanwer Rd Industrial Area, Sector A, Indore, Madhya Pradesh, Indore, M.P. -452015 Total Area: 7,729sq.m. Production Capacity : Existing synthetic Resins;-1800 MT/anum, Propsed Synthetic Resin:- 18000 MT/anum & API Products: 2.4 MT/anum by M/s M.P.DYECHEM INDUSTRIES PVT. LTD. through Technical Director Plot No 59-63, Sanwar Rd Industrial Area, Sector A, Indore, MP, -452015, 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. The entire demand of fresh water should be met through MPAKVN. Fresh water should not be used for Irrigation and gardening purpose.
2. **Waste water:**
 - (a) PP should ensure "Zero effluent discharge" from the unit by 100% recycling. The water softening reject, boiler blow down reject and cooling blow down will be treated in ETP. Further treated waste water will go through the RO and finally re used/recycled in the process and unused waste water evaporate in MEE.
 - (b) RO and MEE should be provided for treatment of high COD waste streams and only in case of emergency/breakdown high COD wastes should be disposed off through CTSDf, Pithampur, Dhar.

3. For Air Pollution:

- (a) PP should ensure regular Stack monitoring & Ambient air quality monitoring and should be carried out as per the guidelines/norms of MPPCB/CPCB.
- (b) In plant control measures for checking fugitive emission from all the vulnerable sources shall be provided. Fugitive emission shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator/bag filters and water sprinkling system.
- (c) Company shall carry out the HAZOP study and report shall be submitted to ministry MoEF & CC Regional Office, Bhopal.
- (d) For control of fugitive emission and VOCs following steps should be followed:-
 - Chilled brine circulation system shall be provided and it should be ensured that the solvent recovery efficiency is not be less than 95%.
 - Reactor and solvent handling pump shall be provided with mechanical seal to prevent leakage.
 - Solvent shall be taken from underground storage tank to reactor through closed pipeline. Storage tank shall be vented through trap receiver and condenser operated on chilled water.

4. Hazardous Waste Management:

- (a) As proposed above, PP should ensure disposal of hazardous waste regularly and there should be no dumping of these materials in the premises/outside.
- (b) PP should ensure handling, disposal and management of hazardous waste as per the related prescribed rules.
- (c) PP should obtain Renewal of authorization regularly from MPPCB for collection storage and disposal of hazardous waste (Management, handling & transboundary Movement) Rules 2008 and its amendments. Membership of the TSDF should be obtained for hazardous waste disposal.
- (d) Hazardous chemicals should be stored in sealed tanks, drums etc. Flame arrestors shall be provided on tanks. To avoid the spillage from processing unit, Industry shall provide fully mechanized filling and packaging operation unit.

5. Green Belt Development:

- (a) PP should ensure plantation as proposed 3403 sq. m of area by planting 610 number of trees. Plantation in the project area of indigenous local varieties like Neem, Peepal, Kadam and Kachnaar. Additional 200 number of plants shall be around the periphery at outside of the unit.
- (b) Every effort should be made to protect the existing trees on the plot.
- (c) Green area including thick green-belt shall be developed in at least 33% of the plot area to mitigate the effect of fugitive emissions all around the plant in consultation with the forest department as per the guidelines of CPCB.

- 6. PP should ensure the implementation of CER activities to the extent of Rs. 2.0 lakh as committed during presentation on regular basis for Infrastructure facilities at schools in terms of provision of computers, teachers, facility of safe drinking water, separate toilets for girls and boys, provision of furniture, additional rooms etc In consultation with district administration (School dally business school, Musakhedi) in consultation with Collector, Indore
- 7. Total quantity of runoff water generated and green belt area should be collected in underground tank & used for process in plant to minimize fresh water requirement.
- 8. All other conditions as laid in the consents of MPPCB shall be applicable.

9. 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, GoI, 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.

B. Specific Conditions as recommended by SEAC

(A) 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.

(B) Air quality monitoring and preservation

- i. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions from the boiler, DG set and scrubber shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- ii. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- iii. The DG sets (1 X 500 KVA) 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.
- iv. 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.
- v. 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.

(C) Water quality monitoring and preservation

- i. The project proponent shall provide 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.
- ii. As already committed by the project proponent Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.

- iii. The High COD/TDS process effluent and RO Reject will be treated through MEE/ATFD. The MEE condensates will be recycled/ reused and MEE bottom will be sent to TSDF site.
- iv. The Low COD/TDS effluent, will be treated in an on-site ETP followed by RO system.
- v. The treated effluent will be reused/ recycled and the RO reject will be sent MEE/ATFD as stated above. Total recycled water will be 37 KLD.
- 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. Total fresh water requirement shall not exceed 60 KLD and tanker water supply shall be used till the Narmada water supply will be available.
- 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.
- x. 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.
- xi. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.

(D) Noise monitoring and prevention

- i. Acoustic enclosure shall be provided to DG (500 KVA) set 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.

(E) Energy Conservation measures

- i. The energy sources for lighting purposes shall preferably be LED based.
- ii. The total power requirements for project will be 475 KVA . The power will be supplied by Madhya Pradesh Electricity Board. Hytherm Oil Consumption 2.98 KL, whereas the Biofuel/Agro Waste consumption will be 58.70 MT for boiler of 5 TPH. (Source Indigeneous)

(F) 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. As proposed, 95% solvent recovery shall be achieved and recovered solvent shall be reused in the process.
- iii. Hazardous wastes such as spent solvents, organic incinerable wastes/residues, used filter bags, packaging materials, rejected/expired raw materials and off specification/

- rejected finished products from the manufacturing plants shall be directly sent to CTSDf, Dhar.
- iv. The Fly ash generated from boilers shall be stored in silos and disposed of through cement manufacturers by bulkers / closed containers and should comply with Fly Ash Utilization Notification, 1999 and as amended subsequently.
 - v. If any Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.
 - vi. Automatic smoke, heat detection system should be provided in the sheds. Adequate fire fighting systems should be provided for the storage area.
 - vii. 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.
 - viii. 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.
 - ix. 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.
 - x. Storage areas should be provided with adequate number of spill kits at suitable locations. The spill kits should be provided with compatible sorbent material in adequate quantity.
 - xi. Recent MSDS of all the chemicals used in the plant be displayed at appropriate places.
 - xii. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
 - xiii. 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.
 - xiv. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.
 - xv. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
 - xvi. 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.
- (G) Green Belt**
- i. The green belt of 5-10 m width shall be developed 2335 sq. meter within plant and vacant plots of industrial area in the project area, mainly along the plant periphery, in downward wind direction and along road sides etc. 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. As proposed 610 + 200 no of plants in one year shall be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
- (H) 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.
- (I) 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 approve 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. 141.25 Lakhs as capital and 20+35 Lakhs /year as recurring cost.
 - vi. Under CER activity, Rs. 2 Lakhs as capital costs has proposed for different activities apart from the existing CER budget which apporx Rs 1 Lac per month. . PP shall complied with the commitment of providing infrastructure facility at school.

- 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.
- (J) 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.
 - 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. 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. The company shall carry out the HAZOP study and the report shall be submitted to Regional Office of MoEF, GoI at Bhopal.
2. The company shall comply with the CREP guidelines prepared by MPPCB for Bulk Drug Plants.
3. During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixings of accidental spillages with domestic waste and storm drains.
4. Industry should get the Emergency Disaster Management Plan approved by DTHS and should also comply with the provisions made in Public Liability Insurance Act, 1991.
5. All parameters listed in Environmental Monitoring Plan approved by SEAC must be monitored at approved locations and frequencies.
6. 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 Regional office of the Ministry of Environment and Forest, Bhopal and MP PCB.
7. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained (as

and when applicable), by the project proponent from the respective competent authorities.

8. The Regional Office, MoEF, GoI, Bhopal and MP PCB shall monitor compliance of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report, Environmental Management Plan, should be given to Regional Office, MoEF, GoI, Bhopal and MP PCB.
9. A copy of the environmental clearance shall be submitted by the Project Proponent to the Heads of the Local Bodies, Panchayat and Municipal Bodies as applicable in addition to the concerned Government Departments / organization responsible for controlling the proposed projects who in turn has to display the same for 30 days from the date of receipt.
10. The project proponent has to strictly follow directions/guideline issued by the MoEF, GoI, CPCB and other Govt. agencies from time to time.
11. 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 State Level Environment Impact Assessment Authority (SEIAA) website at www.mpseiaa.nic.in and a copy of the same shall be forwarded to the Regional Office, MoEF, GoI, Bhopal and MP PCB.
12. Any change in the correspondence address be duly intimated to all the regulatory authority within 30 days of such change.
13. 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
14. The SEIAA of M.P. reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
15. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
16. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
17. 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.

18. 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.
19. The prior Environmental Clearance granted for the project is valid for a period of seven years as per EIA notification dtd. 14.09.2006 & its amendments.
20. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
21. 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.

4416
Endt No. / SEIAA/ 2020
Copy to:-

Dated 27/10/20

(Tanvi Sundriyal)
Member Secretary

- (1). Principal Secretary, Urban Development & 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, Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016.
- (4). The Collector, District Indore, M.P.
- (5). Managing Director, M.P. Audyogik Kendra Vikas Nigam (Indore) Limited, Free Press House First Floor, 3/54 Press Complex, Agra-Mumbai Highway Indore (M.P).
- (6). Director, I.A. Division, Monitoring Cell, MoEF, GoI, Ministry of Environment & Forest Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110 003
- (7). Director (S), Regional office of the MOEF, (Western Region), Kendriya Paryavaran Bhawan, Link Road No. 3, Ravi Shankar Nagar, Bhopal-462016.
- (8). Guard file.

(Dr. Sanjeev Sachdev)
Officer-in-Charge