



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

To,
Authorised Signatory
M/s Ripride Remedies Pvt. Ltd,
16/8/1, Race Course Road,
Indore (MP)

No.: 1092 /SEIAA/20
Date: 18.6.2020

Sub:-Case No 6284/2019: Prior Environment Clearance for Proposed Manufacturing of Bulk Drug and Intermediate facility at plot no. 40, Sector-3, Pithampur Industrial Area, Sagor Village, Pithampur, Dist. Dhar (MP) Plot Area – 8083 sq. m. Proposed Capacity- 600 TPA by Authorised Signatory M/s Ripride Remedies Pvt. Ltd, 16/8/1, Race Course Road, Indore, MP Email: riprideremedies@gmail.com Ph 0731-4202701 Env. Consultant: Creative Enviro Services ,Bhopal

Ref: Your application dtd. 06.05.19 received in SEIAA office on 17.05.2019

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) Ripride Remedies Pvt Limited (RRPL), is proposing new facility for manufacturing of Bulk drugs and its intermediates facility at plot no. 40, Pithampur Industrial Area, Sector-3, Sagor Village, Pithampur, Dist. Dhar (MP)
- (ii) The unit will manufacture bulk drug and drug intermediates for 600 TPA .
- (iii) 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, GoI's MoEF&CC issued a OM vide dated 13.04.2020, for considering the API & Bulk drug Projects as B-2 category.
- (iv) There is no interstate boundary within 05 km and no National park, Sanctuary and Eco-sensitive areas within 05 km of the project area hence General condition are not attracted.

Case No. 6284/2019

Issued vide letter no. dated

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

- (v) The project occupies a plot Area of 8083 sq m of land. PP has submitted copy of lease deed dtd 08.08.2018 which is executed between MD, MPAKVN (Indore) Ltd. and M/s Ripride Remedies Pvt. Ltd for the said project.
- (vi) The major facilities involved are Boiler, MEE, Reactors, Cooling Towers, Effluent Treatment Plant (ETP), and R.O Plant Facilities like administrative office, parking and greenbelt/plantation will also be developed as per plan/requirement.
- (vii) The total water requirement for the project is approx. 111.4 KLD which will be sourced from AKVN whereas after recycling and reuse total fresh water requirement will be 58 KLD. Total waste water generation will be 31 KL/day, which will be treated in ETP of 50 KLD.
- (viii) PP has proposed install Multi Effective Evaporator, with treatment capacity of 20 KL/Day. The treated water will be used for cooling towers, floor washing and gardening/green belt. Waste generated during the manufacturing process and sludge from waste water treatment process will be disposed at authorized TSDF facility.
- (ix) Power will be sourced from existing line of 'Madhya Pradesh Madhya Kshetra Vidyut Vitaran Company'. The total requirement will be 1600 KVA. In case of power failure, D.G. set (500 KVA) will be used as a backup power source.
- (x) The sources of air emission expected from the plant are gaseous emissions from Boilers, DG set and process. The emission rates of SO₂, NO_x and TPM from each stack are presented as Below :

| Stack Attached to | Stack Height m | Fuel Used | consumption rate | APC measure | Pollutant Emission Rate (mg/Nm ³) | | |
|----------------------------------|----------------|----------------|------------------|---|---|----------------------------|-----------------|
| | | | | | TPM | SO ₂ | NO _x |
| Boilers (Coal/Bio-coal/FO) 2 TPH | 30 | Briquette/Coal | 6T/day | Bag Filter Dumper, Dust Collector, Gravity Settling hamber, Green Belt, | 120 | 58 | 27 |
| Boiler 1.5 TPH Coal/FO/ 1.5 TPH | 30 Mtr | Briquette/Coal | 4T/day | Bag Filter Dumper, Dust Collector, Gravity Settling hamber, Green Belt, Natural Draft | 120 | 58 | 27 |
| DG Set 500 kVA | 30 Mtr | HSD | 96lit /hour | Stack | | | |
| Reaction Vessel | 06 mtrs | | | Scrubber | | 3.5 mg/cum HCL- 7.5 mg/cum | |

- (xi) For control of air pollution from boiler & DG sets, PP has proposed to provide suitable stack height as per CPCB norms to ensure proper dispersion of gases; Ambient air quality monitoring for PM₁₀, PM_{2.5}, SO₂, NO_x, CO, NH₃ and VOCs as stipulated by MPPCB / CPCB shall be done on regular basis. Regular stack monitoring, Maintenance of scrubbers & condensers will be also done on regular basis.
- (xii) Fugitive emissions are anticipated from equipment leakage and transfer spills. The periodic maintenance program shall ensure integrity of equipment mitigating the

equipment leakage. The spills however shall be managed by adopting the spill management scheme as mentioned in the respective MSDS. The fugitive emissions shall be reduced by closed transfer and handling of all hazardous solvents and chemicals. The ventilation system provided will reduce the health impact on the employees by way of dilution of work room air and also dispersion of contaminated air.

- (xiii) Coal as Boiler Fuel is proposed which is cleaner fuel and hence getting help for reducing fugitive emissions.
- Provision of periodical check of vehicles for pollutant emissions.
 - Development of Greenbelt (5) m all around the periphery of the plant to arrest the fugitive emissions.
 - Regular maintenance of air pollution control equipment.
 - Asphaltting of all internal road to ensure that the fugitive dust emissions due to transportation activity.
 - Enclosure for all the loading & unloading operations, if possible.
- (xiv) Noise attenuating devices like earplugs and earmuffs shall be provided to workers exposed to high noise levels. Noise barriers, silencer and enclosures shall be incorporated in the equipments, which emit high noise level. All basic equipments and various machineries should be kept well maintained. Green belts are good noise barriers and same will be developed around the plant. The sufficient green belt may be proposed to control noise levels.
- (xv) Following are the measures proposed to control the higher noise level.
- a) Provision of acoustic enclosure for STG, DG set
 - b) Provision of lining with sound absorbing materials for walls and ceilings of the concerned buildings.
 - c) Provision of insulated enclosures at area close to the high noise sources.
 - d) Provision of noise attenuating devices like ear plugs and ear muffs to the workers exposed to high noise level etc.
- (xvi) 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). M/s RRPIL will take authorization Under Hazardous Waste (Management, Handling & Transboundary Movement), Rules .
The following measures will be adopted to ensure solid and hazardous waste management.
- a) Hazardous materials shall not be stored near surface waters and shall be stored under plastic sheeting to prevent leaks and spills.
 - b) The recyclable items like metal, plastic shall be sent to recyclable industry, and rest of this scrap shall be stored in a covered area.
 - c) Wherever materials (aggregates, sand, etc.) are more likely to generate fine airborne particles during operations, nominal wetting by water shall be practiced.
 - d) Workers / labour shall be given proper air masks and helmets.
 - e) Utmost care shall be taken to store these materials at a suitable place and then disposed off at a place in consultation with and as per the guidelines of Madhya Pradesh SPCB/CPCB

- (xvii) For firefighting measure PP has proposed to provide fire extinguishers, hydrant system and fire. PP has also proposed Fire detection, heat detection, and alarm system to detect fire/heat/smoke in the vulnerable areas of the plant.
- (xviii) For green area development PP has submitted Green belt over an area of 2459 sq is proposed to be developed with 1140 number of trees around periphery of the unit.
- (xix) The total estimated cost of the proposed project Rs. 11 Crore out of which . Rs. 140.5 Lacs (capital cost) is allocated for environmental management systems and the annual re-occurring cost for the same is Rs 29 Lacs/annum. Rs. 22 Lacs is allocated for Corporate Environment Responsibility (CER) Activities.
- (xx) Under CER activities PP has proposed Skill Development Programmes for youths, Traffic Camps, Infrastructure development at School in nearby villages and accordingly with budgetary provision of Rs.27.4 lacs.

| Need Identified For CER Plan | Activities | Budgetary Provision (Capital) & Implementation Period (F.Y. 2020-21 to 2024-25) | | | | | | Budgetary Provision (Recurring) |
|--|--|---|--|--|----------------------|----------------------|--------------|---------------------------------|
| | | 1 st Year | 2 nd Year | 3 rd Year | 4 th Year | 5 th Year | Total | |
| Skill Development Programmes for youths as per the requirement of the industrial area | 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, Indore/Pithampur or other location. | Rs. 3.0 lacs, 05pers on per year @ Rs 5000/- per month | Rs. 3.0 lacs, 05pers on per year @ Rs 5000/- per month | Rs. 3.0 lacs, 05pers on per year @ Rs 5000/- per month | - | - | Rs 9.0 lacs | |
| Infrastructure development at School | Infrastructure facilities at schools of nearby villages in terms of provision of computers, teachers, facility of safe drinking water, separate toilets for girls and boys, provision of furniture, additional rooms etc. | Rs. 2 Lacs | Rs. 2 Lacs | Rs. 2 Lacs | Rs. 2 Lacs | Rs 2 lacs | Rs. 10 lacs | Rs. 2.0 lac for maintenance |
| Traffic Camps | Traffic Camps on safety aspect and helmet distribution at Pithampur, Mandiouda , | | Rs. 1 Lac | Rs. 0.50 Lac | Rs. 0.50 Lac | Rs. 0.50 Lac | Rs. 0.50 Lac | Rs. 3 lacs |

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|------------------|----------------------|
| | Methwada, Khera, Sagor, Khandwa, Betma, Silotiya, Bagoda, Tigriya Chhota | | | | | | | | |
| | Total | | | | | | | Rs. 22.0 lacs | Rs 2.0 lacs /year |

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 618nd meeting held on 11.06.2020 and decided to accept the recommendations of 434th SEAC meeting held on dtd. 20.05.20

Hence, Prior Environmental Clearance is accorded under the provisions of EIA notification dtd. 14th September 2006 & its amendments for the Proposed Manufacturing of Bulk Drug and Intermediate facility at plot no. 40, Sector-3, Pithampur Industrial Area, Sagor Village, Pithampur, Dist. Dhar (MP) Plot Area – 8083 sq. m. Proposed Capacity- 600 TPA by Authorised Signatory M/s Ripride Remedies Pvt. Ltd, 16/8/1, Race Course Road, Indore, MP 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 as committed in letter dtd. 02.01.19
2. Fresh water should not be used for Irrigation and gardening purpose.
3. **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.
4. **For Air Pollution:**
 - (a) PP should ensure install Bag house in stack for control of air pollution and stack height as proposed in the EIA/ EMP.
 - (b) The performance of air pollution control system should be regularly monitored and maintained.
 - (c) PP should ensure regular Stack monitoring & Ambient air quality monitoring and should be carried out as per the guidelines/norms of MPPCB/CPCB.
 - (d) 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.
 - (e) Dust suppression system including water sprinkler system/ fogging arrangement shall be provided at loading and unloading areas to control dust emission.
 - (f) Fugitive emission in the work zone environment, product, raw material storage areas etc. shall be regularly monitored.
 - (g) High efficient four stage ventury scrubber should be provided.
 - (h) Transportation of raw material and finished goods should be carried out in covered trucks.

- (i) Company shall carry out the HAZOP study and report shall be submitted to ministry MoEF & CC Regional Office, Bhopal.
- (j) 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.
 - Closed handling system should be provided for chemicals.
 - System of leak detection and repair of pump/pipeline should be based on preventive maintenance.
 - 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.
- 5. 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 obtain 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.
 - (e) Ensure the transportation of raw / finished material only by covered vehicles.
 - (f) Ensure the storage and handling of all the chemicals in a proper and safe manner to avoid any spillages and also to prevent runoff contamination in monsoon.
 - (g) Ensure collection & treatment of spillages, if any.
 - (h) All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of hazardous chemicals.
- 6. Green Belt Development:**
- (a) PP should ensure plantation as proposed 3927sq mt of area with 1140 number of trees Plantation in the project area of indigenous local varieties like Neem, Peepal, Kadam and Kachnaar.
 - (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.
7. PP should obtain NOC /approval from competent authority for health & safety measure, Onsite & Offsite disaster management, and Risk management plan before commencing the operation of the unit.
 8. PP should obtain fire NOC from the competent authority before commencing the operation of the unit.
 9. PP should ensure installation of photovoltaic cells (solar energy) for lighting in common areas, LED light fixtures and energy efficient equipments.
 10. PP should ensure the implementation of CER activities to the extent of Rs. 22 as committed during presentation to the extent on regular basis in consultation with the Gram Panchayat of the receptive village.

11. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
12. In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.
13. 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.
14. PP should ensure to submit half yearly compliance report and CSR 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.

B. Specific Conditions as recommended by SEAC

Proposed capacity-600 TPA for below mentioned products:

| Details of Products | | | |
|---------------------|---------------------------------|---|---|
| S. No. | Name of proposed product | Quantity in TPA | Major uses/ End use |
| (A) | AntiDiabetic Drug | | |
| 1 | Alogliptin and intermediate | | Anti diabetic drug |
| 2 | Canagliflozin | | Treatment of dibetes |
| 3 | Empagliflozine | | treatment of type 2 diabetes |
| 4 | Gliclazide | | treatment of type 2 diabetes |
| 5 | Glimepride and Intermediate | | Anti dibetic |
| 6 | Vildagliptin and intermediate | | antidiabetic agent |
| 7 | Sitagliptin | | Antihypeglycemic |
| 8 | Saxagliptin | | hypoglycemic |
| 9 | Tenlegliptin | | antidiabetic agent |
| 10 | Calcium dobesilate | | diabetic retinopathy and haemorrhoids |
| 11 | Dapagliflozin | | Blood sugar treatment |
| | Total | 160 | |
| (B) | | | |
| 1 | Diphenhydramine hydrochloride | | Treatment of Hypertension |
| 2 | Chlorzoxazone | | Treatment of hypertension |
| 3 | Mefenamic Acid | | Treatment of high blood pressure |
| 4 | Levetiracetam | | anti-hypertensive |
| | Sub Total | 360 | |
| (C) | | | |
| 1 | Azilsartan and Intermediate | Remark: Total proposed Production will be 70 MTA in this category | Cardiovascular disease. |
| 2 | Chlorthalidone and intermediate | | Used to treat high blood pressure and edema |
| 3 | Benidipine hydrochloride | | Antihypertensive |
| 4 | cilnidipine | | Antihypertensive |
| 5 | Finofibrate | | Antihypertensive |
| 6 | Torse mide | | High, Blood Pressure |
| 7 | Perindopril | | |
| 8 | Betoxolol and Intermediate | | Beta receptor blocker |
| 9 | Lercanidipine | | antihypertensive |
| 10 | Olmesar tan | | Bronchodilator |
| 11 | Acebrophylline | | Respiratory disease |
| 12 | Ambroxol Hydrochloride | | Antihistamine |

| | | | |
|-----|----------------------------------|------------|--|
| 13 | Doxylamine succinate | | Antihistamine |
| 14 | Levocetrezine | | Antihistamine |
| 15 | Montelukast | | Alergic ,Asthama |
| 16 | Baclofen | | muscle relaxer |
| 17 | Roflumilast | | phosphodiesterase-4 (PDE-4) inhibitor |
| 18 | Meloxicam | | Arthritis |
| 19 | dexketprofen | | Anti-inflammatory |
| 20 | Nitrofurantoin | | Antibiotic |
| 21 | Nitrofurazone | | Broad spectrum antibacterial |
| 22 | moxifloxacin | | Fluoroquinolone antibiotic |
| 23 | Nitazoxanide | | Broad-spectrum antiparasitic |
| 24 | Alendronate sodium | | Osteoporosis Agents |
| 25 | Allopurinol and intermediate | | Anti-Gout |
| 26 | Apixaban and intermediate | | Anticoagulant |
| 27 | Aprepitant and intermediate | | Prevent chemotherapy-induced nausea and vomiting |
| 28 | Bisacodyl | | Stimulant laxative |
| 29 | Dabigartan and intermediate | | Prevent blood clots |
| 30 | Diacerin and intermediate | | Osteoarthritis |
| 31 | Etamsylate | | Antihemorrhagic agent |
| 32 | Fabuxostat | | Anti-gout |
| 33 | Silver Sulfadiazine | | Topical antibiotic |
| 34 | Tadalafil and intermediate | | Erectile dysfunction |
| 35 | Trenexamic acid and intermediate | | Antifibrinolytics |
| 36 | Bopetestine hydrochloride | | Antihistamine |
| 37 | Quetiapine hemifumarate | | Antipsychotic medication |
| 38 | Brinzolamide | | Carbonic anhydrase inhibitor |
| 39 | Phenylephrine Hydrochloride | | Decongestant, |
| 40 | Sodium Picosulpahte | | Contact stimulant laxative |
| 41 | Levosulpride | | Antipsychotic |
| 42 | Dorzolamide & Intermediates | | Ocular hypertension |
| | Sub Total | 60 | |
| (D) | | | |
| 1 | Adapelene and its Intermediate | | Treatment of mild-moderate acne, |
| 2 | Glycopyrrolate | | Anticholinergic |
| 3 | Granisetron | | Antiemetic to treat nausea and vomiting |
| 4 | Tamsulosin hydrochloride | | alpha-Blocker |
| 5 | Ticagrelor and intermediate | | P2Y ₁₂ receptor. |
| 6 | Thyroxine sodium | | Thyroid hormone deficiency, |
| 7 | Voglibose | | alpha-glucosidase inhibitor |
| 8 | Melatonin | | Neurohormone |
| 9 | Tretinoin | | Vitamin A |
| 10 | Isotretinoin | | Acne |
| 11 | R&D Product | | |
| 12 | Sub Total | 20 | |
| | Total | 600 | |

(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. 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. The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released e.g. PM10 and PM2.5 in reference to PM emission and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each) covering upwind and downwind directions.
- iv. 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 / / Bio Briquette for use in coal// Bio Briquette 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.
- v. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- vi. 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.
- 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.

(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 effluent shall (58 KLD) be segregated as high COD/High TDS and Low COD/Low TDS effluents. The HCOD/HTDS shall be neutralized and sent to stripper followed by MEE and ATFD. LCOD/LTDS effluent shall be treated in ETP with domestic effluent followed by RO system. The treated effluent shall be entirely reused and recycled in cooling tower make-up.
- iv. 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.
- v. The industrial water requirement for the existing and proposed project is 236 KL per day sourced from surface water supply. Total cumulative waste water generation from proposed unit will be 58 KLD and treated in ETP of 10 KLD, RO and MEE of 20 KL/day respectively.
- vi. 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.
- vii. Total fresh water requirement shall not exceed 58 KLD and as proposed MPAKVN shall provide the fresh water.
- 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.

(D) Noise monitoring and prevention

- i. Acoustic enclosure shall be provided to 2 nos. X 1000 KVA = 2000kVA 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.

(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 1600 KVA . The power will be supplied by Madhya Pradesh Electricity Board. Furnace Oil Consumption 96lit/hours, whereas the coal consumption will be 6 TPD. (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 2971 sq. meter within plant and 1468 along the road 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 in the EIA 1140 no's trees (540+600 no) in four years 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 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. 140.50 Lakhs as capital and 29 Lakhs /year as recurring cost.
- vi. Under CER activity, Rs. 22.00 Lakhs and 02.0 Lakhs /year as capital and recurring costs has proposed for different activities. PP shall comply with the commitment of providing infrastructure facility at school and skill development programme.
- 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.

(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, Gol, 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, Gol, 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, Gol, 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, Gol, Bhopal and MP PCB.
12. 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
13. 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 Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
14. 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.
15. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

Case No. 6284/2019

Issued vide letter no. dated

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

16. 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.
17. 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.
18. 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.
19. 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.
20. 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.

(Tanvi Sundriyal)
Member Secretary

Endt No. 1098 / SEIAA/ 2020

Dated 18.6.2020

Copy to:-

- (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 Dhar, 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, Gol, 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

Case No. 6284/2019

Issued vide letter no. dated

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