



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,
Shri Ankit Kumar Chordia
M/S Rini Life Science Pvt Ltd
HPA, 120 MT Cloth Market Mahaveer Chowk,
Indore, MP-452002

No.: 3934 /SEIAA/20
Date: 19.10.20

Sub:-Case No. 7412/2020 : Prior Environment Clearance for Expansion in Production Capacity of Synthetic Organic Chemicals (API & Pharmaceutical Intermediates) at plot no. 115/2/3, R.R. Industrial Area, Behind Shivna Spinners, Tehsil. Sanwer, Distt. Indore -452 015 (MP) Land area – 8425.17 sq.m. Production Capacity- Existing: 15 MT/Anum Proposed: 585 MT/Anum Total after this expansion: 600 MT/Anum by M/S Rini Life Science Pvt Ltd through Shri Ankit Kumar Chordia HPA, 120 MT Cloth Market Mahaveer Chowk, Indore, MP-452002 Email: ankit.chordia@rinilifescience.com Env. Con.-Creative Enviro Services, Bhopal (M.P.).

Ref: Your application dtd. 10.07.20 received in SEIAA office on 05.08.2020

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 RLSPL has proposed to increase the manufacturing capacity of Bulk Drugs & Intermediates (API) with annual capacity of 585 MT. The existing capacity is 15 TPA. The total capacity after expansion will be 600 MTPA. The nature of the project falls under synthetic organic chemicals category.
- (ii) The unit will manufacture bulk drug and drug intermediates for 600 TPA.
- (iii) For existing product PP has obtained AIR and water consent order from MPPCB which is valid up to 31.05.2021.
- (iv) The Salient Features of the project is as follows:-

S.N.	Component	Status
1	Area Details in Sq Meter	
i	Total Plot Area	8425.17m ²
ii	Built up Area	3373.02 m ²
iii	Green belt Area	2,780 m ² (approx. 33 % land area)

Case No. 7412/2020

Issued vide letter no. dated

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

2	Production Details		
i	Production Capacity	Production Capacity of API & Pharmaceutical Intermediates, Existing: 15 MT/Anum Proposed: 585 MT/Anum Total after expansion: 600 MT/Annum	
3	Budgetary Allocation		
i	Project Cast	7.5 Crores in primary phase	
ii	Capital cost	97.80 Lacs	for EMS viz. ETP, MEE, APCM etc
	Annual recurring cost	16.80 Lacs	
iii	CER Activities	7.5 Lacs	
4	Power Requirement		
ii	Total Power Requirement	1600kva	
iii	Source	MPEB	
5	Fuel Requirement		
A	Existing		
i	Agro Waste for Boilers (0.65 TPH)	30 kg/hr	
ii	HSD for DG Set (125 kVA) *	24 lit./hour	
B	Proposed		
i	Briquette/Coal for Boilers (2 TPH)	6 T/day	
ii	Briquette/Coal for Boiler (1.5 TPH)	4 T/day	
iii	HSD For DG Set (500 kVA) *	96lit/hour	
6	DG Set Details		
i	DG Set (1No.)- Existing	125 kVA	
ii	D.G. Set (1No.)- Proposed	500KVA	
7	Utility Capacity		
		Capacity	Type of fuel
i	Existing Steam Boiler	0.65 TPH	Agro Waste
ii	Proposed Steam Boiler	2.0 TPH	Briquette/Coal
iii	Proposed Steam Boiler	1.5 TPH	Briquette/Coal
8	Scrubber Details		
i	Acid scrubber	1200 CMH	
ii	Alkali Scrubber	1200 CMH	

(v) The proposed & existing product and production capacities are as follows:-

Existing Products & Production Capacity			
S.N.	Name of Existing Products	Quantity*(MT/Anum)	Major Uses/ End Use
A	Anti-Diabetic Drug		
	Glipizide		Anti-diabetic
	Alendronate sodium		Osteoporosis
	Ketamine HCl		Anesthetic drug
	Glimepiride		Anti-Diabetic
	GRAND TOTAL	15	

Proposed Products & Production Capacity			
S.N.	Name of Proposed Product	Quantity** (MT/Anum)	Major Uses/ End Use
(A)	Anti-Diabetic Drug		
1	Alogliptin and Intermediates		Anti-diabetic drug
2	Canagliflozin		Treatment of diabetes
3	Empagliflozine		Treatment of type 2

4	Gliclazide		diabetes
5	Glimepiride and Intermediate		Treatment of type 2 diabetes
6	Vildagliptin and intermediate		Anti-diabetic
7	Sitagliptin		Antidiabetic agent
8	Saxagliptin		Antihyperglycemic
9	Teneligliptin		Hypoglycaemic
10	Calcium dobesilate		Antidiabetic agent
11	Dapagliflozin		Diabetic retinopathy&haemorrhoids
	Sub-Total	160	Blood sugar treatment
(B)			
1	Rosuvastatin calcium		Treatment of Hypertension
2	Chlorzoxazone		Skeletal muscle Relaxant

Proposed Products & Production Capacity			
S.N.	Name of Proposed Product	Quantity* (MT/Anum)	Major Uses/ End Use
3	Mefenemic acid		Anti-inflammatory
4	Levetiracetam		Anti-hypertensive
	Sub-Total	360	
(C)			
1	Azilsartan and Intermediate		Cardiovascular disease.
2	Chlorthalidone and intermediate		High blood pressure and enema
3	Benidipine hydrochloride		Antihypertensive
4	Cilnidipine		Antihypertensive
5	Finofibrate		Antihypertensive
6	Torsemide		High Blood Pressure
7	Perindopril		High Blood Pressure
8	Betoxolol and Intermediate		Antihistamine
9	Lercanidipine		Respiratory disease
10	Olmesartan		Bronchodilator
11	Acebrophylline		Respiratory disease
12	Ambroxol Hydrochloride		Antihistamine
13	Voriconazole		Antifungal
14	Levocetirizine		Antihistamine
15	Montelukast		Allergic, Asthma
16	Baclofen		Muscle Relaxant
17	Roflumilast		Anti-inflammatory
18	Meloxicam		Anti-inflammatory
19	Famotidine		Treat peptic ulcer disease,
20	Nitrofurantoin		Anti-bacterial
21	Nitrofurazone		Anti-bacterial
22	Moxifloxacin		Antibiotic
23	Nitazoxanide		Antiparasitic
24	Alendronate sodium		Osteoporosis
25	Allopurinol and intermediate		Treat gout
26	Apixaban and intermediate		Anticoagulant
27	Aprepitant and intermediate		Vomiting
28	Bisacodyl		Laxative
29	Dabigartan and intermediate		Anticoagulant
30	Diacerin and intermediate		Osteoarthritis
31	Luliconazole		Antifungal
32	Fabuxostat		Treat gout
33	Silver Sulfadiazine		Topical Anti-bacterial
34	Tadalafil and intermediate		Erectile dysfunction
35	Trenexamic acid and intermediate		Excessive blood loss
36	Bepotestine hydrochloride/besilate		Allergic
37	Quetiapine hemifumarate		Antipsychotic

38	Brinzolamide		Glaucoma
39	Phenylephrine Hydrochloride		Relieves a stuffy nose
40	Sodium Picosulpahte		Laxative
41	Levosulpride		Antipsychotic
42	Dorzolamide & Intermediates		Glaucoma
43	Remdesivir		Antiviral (covid-19)
	Sub-Total	60	
(D)			
1	Adapelene and its Intermediate		Treatment of acne
2	Glycopyrrolate		Anticholinergic
3	Granisetron		Antiemetic
4	Tamsulosin hydrochloride		Prostatic hyperplasia
5	Ticagrelor and intermediate		Antagonist
6	Thyroxine sodium		Treat thyroid hormone deficiency
7	Voglibose		Diabetes
8	Melatonin		Trouble sleeping
9	Rupatidine		Antagonist
10	Fingolimod		Immunomodulating drug
11	R&D Product		NA
	Sub-Total	20	
	Total Finished product	600	

- (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 (PWD letter dtd. 08.06.2020) within 05 km and no National park, Sanctuary (DFO, Indore letter dtd. 25.07.20) and Eco-sensitive areas within 05 km of the project area hence, General condition are not attracted.
- (viii) The project occupies a plot Area of 8425.17 sq m of land. PP has submitted lease deed dtd 27.06.2020 executed between M/s Shoubhagya Mercantile Pvt. Ltd & M/S Rini Life Science Pvt Ltd through Authorised Signatory Shri Rajneesh Chourdia. The Land use of the project area are as follows :-

Description	Land Area (m ²)		
	Existing	Proposed	Total
Built-up area	750.61	2622.41	3373.02
Raw Materials Storage Area	74.39	408.00	482.39
Internal Road	0.00	1414.99	1414.99
Green Belt	250.00	2530	2780
Open land	752.00	377.23	374.77
Total	1827.00	6598.17	8425.17

- (ix) 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.

- (x) The total water requirement is about 110 KLD which will be sourced through water supplier. The waste water generated from the plant will be about 63 KLD. Out of this about 35 to 42 KLD will be HTDS from Process, Boiler blow down & Scrubber System and 17 to 21 KLD LTDS from Process, Washings, R&D, QC & Cooling towers and from Domestic/ Sewage will be collected by gravity from all sources into separate collection tanks.

HTDS Effluent will be sent to Multiple Effect Evaporator (MEE) with Stripper column followed by Agitated Thin Film Dryer (ATFD). The Condensate from MEE & LTDS Effluents will be sent to Biological ETP of 75 KLD

After Pretreatment, effluent will be sent to RO System. After RO Treatment, permeate will be reused for Cooling Towers makeup and rejection will be back to the MEE System. The MEE Salts generation from ATFD, this will be collected and sent to TSDF.

- (xi) 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
- 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
- ZERO effluent discharge has been implemented, and after expansion, the same shall be maintained.

- (xii) The sources of air emission expected from the plant are gaseous emissions from Boilers, DG set and process. For control of air pollution PP has proposed as follows:-

- Stack emission from boilers will be regularly monitored by installation of on line monitoring system to ensure that given limits.
- Regular monitoring of the emission from proposed scrubber shall be carried out.
- Bag filter will be provided at boiler to control the emission below 50 mg per cubic meter.
- Alkaline Scrubber will be attached to the reactor to control process SO₂ emission.
- The work zone and surrounding areas shall be monitored for VOC also. Possibility shall be explored for on line VOC monitoring system.
- In order to control the fugitive dust emissions due to transportation activity, all the roads within the plant area shall be asphalted. All the unpaved roads as well as paved roads shall be sprinkled with water.

Controlling of Fugitive Emission:

- Installation of appropriate, adequate and efficient exhaust ventilation systems to remove and plenum ventilation system through High Efficiency Particulate Air (HEPA) filter to dilute fumes and dust concentration inside work zone area
 - Closed unloading, conveying and packing system shall be provided
 - Safety devices shall be provided to workers
 - Proper control of the operating parameters, mainly temperature, vacuums, cooling media circulation, during plant operation and solvent recovery.
 - Regular monitoring of VOC, dioxin and furan concentration in work zone
- (xiii) 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 RLSPL will take authorization Under Hazardous Waste (Management, Handling & Transboundary Movement), Rules.
- (xiv) 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 (existing 125 KVA and proposed 500 KVA) will be used as a backup power source.
- (xv) The total area of the plot is 8425.17 sq meter. Out of this PP has proposed 2780 sq. m area for the plantation and green belt development by planting 600 nos of trees Peripheral boundary, other location in plant, road side plantation and, common open area etc. At present green belt is developed around the plant site with suitable plant species.
- (xvi) PP has included Disaster Management plan in the EIA Report. For firefighting measure PP has provided Fire extinguishers and Fire Hydrants at project site.
- (xvii) 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.
- (xviii) The total estimated cost of the proposed project Rs. 7.5 Crore out of which. Rs. 97.80 Lacs (capital cost) is allocated for environmental management systems and the annual recurring cost for the same is Rs 16.80+35 Lacs
- (xix) As part of CER activity PP has proposed to provide Infrastructure development at School in nearby villagers & Covid Related Activities with budgetary provision of Rs.7.50 lacs.

S. N.	Need Identified For CER Plan	Activities	Total
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	Rs 6 .0
3	Covid Related Activities	Nearby hospitals , health centres and aganwadies	Rs 1.5
		Total	Rs 7.5

Based on the information submitted at Para i to xxiii above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 635th meeting held on 31.08.2020 and decided to accept the recommendations of 450th SEAC meeting held on dtd. 13.08.20

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 (API & Pharmaceutical Intermediates) at plot no. 115/2/3, R.R. Industrial Area, Behind Shivna Spinners, Tehsil. Sanwer, Distt. Indore -452 015 (MP) Land area – 8425.17 sq.m. Production Capacity- Existing: 15 MT/Anum Proposed: 585 MT/Anum Total after this expansion: 600 MT/Anum by M/S Rini Life Science Pvt Ltd through Shri Ankit Kumar Chordia HPA, 120 MT Cloth Market Mahaveer Chowk, Indore, MP-452002, 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. Fresh water requirement met through tanker water supply until the Narmada water supply will be available as recommended by SEAC.
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 evaporates 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 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.
 - (c) 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.
 - (d) 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.
6. **Green Belt Development:**
- (a) PP should ensure plantation as proposed 2780 sq.m. of area with 600 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 ensure installation of photovoltaic cells (solar energy) for lighting in common areas, LED light fixtures and energy efficient equipments.
 9. PP should ensure the implementation of CER activities to the extent of Rs. 7.50 as committed during presentation to the extent on regular basis in consultation with the Gram Panchayat of the receptive village or district administration of the respective project area..
 10. 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.
 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, 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. 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. 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.
- iv. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- v. The DG sets (1X125 KVA-existing, 1 X 500 KVA-Proposed) 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.
- vi. 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.
- vii. 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 (8 KLD) and RO Reject (7 KLD) will be treated through MEE/ ATFD. The MEE condensates to the tune of 13 KLD will be recycled/ reused and MEE bottom will be sent to TSDF site
- iv. The Low COD/TDS effluent, [consisting, process effluent (22 KLD), Utility blow down (5 KLD), washing (4 KLD), From Other (Scrubber + Softener/ MEE/DM Plant + R&D/QC/RO1): $1+2+1+7 = 11 + 2* = (13 \text{ KLD})$] will be treated in an on-site ETP followed by RO system.
- v. The treated effluent ($35+2=37$ KLD) will be reused/ recycled and the RO reject (7 KLD) will be sent MEE/ATFD as stated above. Total recycled water 50 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 (125 KVA and 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 1600 KVA . The power will be supplied by Madhya Pradesh Electricity Board. Furnace Oil Consumption 96lit/hours, whereas the coal consumption will be 10 TPD for both boiler of 2 TPH and 1.5 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 2780 sq. meter within plant and 600 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 600 no of plants in one year's 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. 97.80 Lakhs as capital and 16.80+35 Lakhs /year as recurring cost.
- vi. Under CER activity, Rs. 7.5 Lakhs as capital costs has proposed for different activities. PP shall comply 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, Gol 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. 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.

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.

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Endt No. / SEIAA/ 2020

Dated 19/10/20

(Tanvi Sundriyal)
Member Secretary

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 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, 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. 7412/2020

Issued vide letter no. dated

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