



Government of India  
Ministry of Environment, Forest and Climate Change  
(Issued by the State Environment Impact Assessment  
Authority(SEIAA), Madhya Pradesh)

To,

The Vice President - EHS (Corporate)  
M/s Ipca Laboratories Ltd.  
Village Sejavta, Tehsil & District Ratlam, Madhya Pradesh -457002

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/MP/IND3/247014/2021 dated 25 Dec 2021. The particulars of the environmental clearance granted to the project are as below.

- |  |  |
|--|--|
| 1. EC Identification No.                   | EC22B021MP135943   |
| 2. File No.                                | 8880/2021  |
| 3. Project Type                            | Expansion  |
| 4. Category                                | B2   |
| 5. Project/Activity including Schedule No. | 5(f) Synthetic organic chemicals industry (dyes & dye intermediates; bulk  |
| 6. Name of Project                         | Proposed expansion project for manufacturing of API by Ipca Laboratories Limited at Village Sejavta Tehsil, District Ratlam, Madhya Pradesh. |
| 7. Name of Company/Organization            | M/s Ipca Laboratories Ltd.   |
| 8. Location of Project                     | Madhya Pradesh   |
| 9. TOR Date                                | N/A  |

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

Date: 29/04/2022

(e-signed)  
Shriman Shukla  
Member Secretary  
SEIAA - (Madhya Pradesh)

*Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.*

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**Ref: Proposal No. SIA/MP/IND3/247014/2021, Case No 8880/2021:** Prior Environment Clearance for Proposed expansion project for manufacturing of API at **Khasra No.98, 98/1, 99/1, 99/2, 99/3, 99/4, 99/5, 99/6, 99/7, 99/8, 99/9, 99/10, 99/11, 100, 101, 102, 102/1, 102/2, 103, 104/1, 115/3, 120/1, 121/1, 123, 73, 74/1, 74/2, 76, 77/2, 77/3, 77/6, 77/7, 80/3, 80/6, 80/8, 80/9, 80/10/1, 80/8/2, 80/3/1, 77/6, 80/9/1, 80/15/2, 121/1, 123, 120/1, 165/3, 122/1, 122/2, 163/6, 163/8, 163/3/1, 163/3/2, 165/4/1, 165/4/2, 165/19, 165/14, 128/6, 128/9** village - Sejavta, Tehsil & Dist. Ratlam, (MP) Total production capacity after expansion of API will be 5078 TPA (Existing 3222 TPA & Additional proposed: 1856 TPA) plot Area of 45.94 Ha. (459400 m<sup>2</sup>) of land by M/s. Ipca Laboratories Ltd, Shri Manoj Kumar Mittal, Vice President - EHS (Corporate), C-89 to C-95 MIDC Area, MIDC Mahad, Dist. Raigad (Maharashtra) - 457002 Env. Consultant: Goldfinch Engineering System Private Limited

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 14<sup>th</sup> September 2006 and its amendments, on the basis of the mandatory documents enclosed with the application viz., Form 2, pre-feasibility 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. IPCA Laboratories Ltd. has set up a fully-fledged manufacturing complex with all off sites, utilities & auxiliaries at Village Sejavta in Ratlam district of Madhya Pradesh & it has been successfully operating since 1984. After establishment in 1984, Ipca obtained EC for expansion in 2008 and subsequently in 2015 from Government of India, Ministry of Environment, Forest and Climate Change (Impact Assessment Division).
- ii. Certified compliance report for the recent EC conditions to RO, MoEF&CC dated 17<sup>th</sup> September 2018 has been submitted by PP.
- iii. Ipca is now proposing further expansion of existing API products with additions of new API products. For proposed expansion additional land is acquired which is located just adjacent of existing area & same land is already converted for industrial use. Existing unit is for manufacturing of Synthetic API, Formulations of Tablets, Injections, Liquids Orals, Dry Syrup, Ointment, Production of Steroid & Hormonal products and R&D Products. Now, unit is going for expansion exclusively for the Synthetic API and production of all other products remains as per current valid CTO. Executive Summary of Ipca Laboratories Ltd. Village Sejavta, Tehsil & District Ratlam, Madhya Pradesh.
- iv. As per EIA Notification, 2006 and subsequent amendments, proposed expansion project falls under Category 5 (f) "Synthetic organic chemicals industry (bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates) and required prior Environmental Clearance.
- v. Project is located in outside notified industrial area so that categorized under category 'A' project requires environmental clearance from Ministry of Environment, Forests and Climate Change (MoEFCC), New Delhi.
- vi. Earlier the Project was categorized under "A" Category but considering the recent MoEFCC, SO No. 1223 (E) dated 27<sup>th</sup> March, 2020 stated "All proposals for projects or activities in respect of Active Pharmaceutical Ingredients (API), received up to the 30<sup>th</sup> September 2020 & its amendments 16.07.2021 shall be appraised, as Category 'B2' projects.
- vii. There are no Forest, Biosphere Reserve, National Park, Wild Life Sanctuary, and Wild Life Corridor present within 10 km Influence Zone.
- viii. The case was considered in 549<sup>th</sup> SEAC meeting dated. 15.02.2022 and recommended for environmental clearance.

- ix. Total area of plot is 45.94 Ha. (459400 m<sup>2</sup>). Regarding land documents PP has submitted Khara panchsal 2016-17 & Rin Pustika. As per the land documents the said land is in possession of M/s. Ipca Laboratories Ltd.
- x. Existing capacity of the Synthetic Drug API is 3222 TPA, after expansion total capacity of Synthetic Drug API will become 5078 TPA.
- xi. **Project Detail:**

Sr. No	Parameters	Description																
1.	Project Name & location	Expansion project for manufacturing of API by Ipca Laboratories Limited at Village Sejavta Tehsil, District Ratlam, Madhya Pradesh.																
2.	Latitude	23° 23' 3.12" N – 23° 23' 39.32" N																
3.	Longitude	75° 3' 5.81" E – 75° 4' 5.81" E																
4.	Total Production Capacity	Existing capacity: Synthetic Drug API: 3222 TPA, Additional proposed capacity: Synthetic Drug API: 1856 TPA, Total capacity: Synthetic Drug API: 5078 TPA.																
5.	Total Area	Existing: 40.47 Ha. (404700 m <sup>2</sup> ), Additional proposed: 5.47 Ha. (54700 m <sup>2</sup> ), Total: 45.94 Ha. (459400 m <sup>2</sup> ).																
6.	Green Belt Area	15.1602 Ha (151602 m <sup>2</sup> ) (33% of total plot area).																
7.	Water Requirement, Source & approval	Existing: 1475 CMD, Additional proposed: 1095 CMD, Total: 2570 CMD. Source of Water is from Municipal Authority, Ratlam & CGWA. Total recycle water will be 1380 CMD, so fresh water requirement will be 1190 CMD. Water permission from CGWA & Municipal Authority, Ratlam is available.																
8.	Wastewater Generation	Existing: Trade: 620 CMD & Domestic: 140 CMD, Additional proposed: Trade: 589 CMD & Domestic: 00 CMD, Total: Trade: 1209 CMD & Domestic: 140 CMD.																
9.	Details of utilities	<table border="1"> <thead> <tr> <th>Equipment &amp; Fuel</th> <th>Existing Fuel Quantity</th> <th>Additional Proposed Fuel Quantity</th> <th>Total Fuel Quantity</th> </tr> </thead> <tbody> <tr> <td>For Boilers</td> <td>Coal: 1 T/hr. (For 6 TPH boiler – 1 number), Coal: 1.20 T/hr. (For 8 TPH boiler – 1 number), Petroleum Coke / Coal: 1 T/hr. (For 6 TPH boiler – 1 number), Furnace Oil: 450 Lit/hr., (For 6 TPH boiler – 1 number), Petroleum Coke: 1.10 T/hr., (For 8 TPH boiler – 1 number).</td> <td>Coal: 10 T/hr. (For 20 TPH boiler – 1 number &amp; 30 TPH Boiler – 1 number),</td> <td>Coal: 13.2 T/hr., (For 6 TPH boiler – 2 numbers, 8 TPH boiler, 20 TPH boiler &amp; 30 TPH boiler – 1 number each), Furnace Oil: 450 Lit/hr., (For 6 TPH boiler – 1 number), Petroleum Coke: 1.10 T/hr., (For 6 TPH boiler – 1 number &amp; 8 TPH boiler – 1 number).</td> </tr> <tr> <td>For Thermo pack</td> <td>LDO: 125 Litrs/hr., (For 4 Lac kcal/hr., 2 Lac kcal/hr. &amp; 1 Lac kcal/hr.)</td> <td>-</td> <td>LDO: 125 Litrs/hr., (For 4 Lac kcal/hr., 2 Lac kcal/hr. &amp; 1 Lac kcal/hr.)</td> </tr> <tr> <td>For DG sets HSD</td> <td>655 Litrs/hr. (For DG Sets.: 1000 KVA – 3 numbers, 1010 KVA – 2 numbers, 395 KVA</td> <td>355 Litrs./hr., (For DG Set: 1500 KVA – 1 number</td> <td>1010 Litrs./hr. (For DG Sets.: 1000 KVA – 3 numbers, 1010</td> </tr> </tbody> </table>	Equipment & Fuel	Existing Fuel Quantity	Additional Proposed Fuel Quantity	Total Fuel Quantity	For Boilers	Coal: 1 T/hr. (For 6 TPH boiler – 1 number), Coal: 1.20 T/hr. (For 8 TPH boiler – 1 number), Petroleum Coke / Coal: 1 T/hr. (For 6 TPH boiler – 1 number), Furnace Oil: 450 Lit/hr., (For 6 TPH boiler – 1 number), Petroleum Coke: 1.10 T/hr., (For 8 TPH boiler – 1 number).	Coal: 10 T/hr. (For 20 TPH boiler – 1 number & 30 TPH Boiler – 1 number),	Coal: 13.2 T/hr., (For 6 TPH boiler – 2 numbers, 8 TPH boiler, 20 TPH boiler & 30 TPH boiler – 1 number each), Furnace Oil: 450 Lit/hr., (For 6 TPH boiler – 1 number), Petroleum Coke: 1.10 T/hr., (For 6 TPH boiler – 1 number & 8 TPH boiler – 1 number).	For Thermo pack	LDO: 125 Litrs/hr., (For 4 Lac kcal/hr., 2 Lac kcal/hr. & 1 Lac kcal/hr.)	-	LDO: 125 Litrs/hr., (For 4 Lac kcal/hr., 2 Lac kcal/hr. & 1 Lac kcal/hr.)	For DG sets HSD	655 Litrs/hr. (For DG Sets.: 1000 KVA – 3 numbers, 1010 KVA – 2 numbers, 395 KVA	355 Litrs./hr., (For DG Set: 1500 KVA – 1 number	1010 Litrs./hr. (For DG Sets.: 1000 KVA – 3 numbers, 1010
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		- 1 number & 260 KVA - 1 number) KVA - 2 numbers, 395 KVA - 1 number, 260 KVA - 1 number, 1500 KVA - 1 number)
10	Treatment of Wastewater (Trade + Domestic)	Trade effluent: Trade effluent generated from process, floor washing, vessel washing etc., and utility blowdown will be treated in Multiple Effect Evaporator (MEE), Full fledged Effluent Treatment Plant (ETP), Reverse Osmosis (RO), Mechanical/VaporRecompressor Evaporator (MVRE). This will be complete Zero Liquid Discharge (ZLD) Unit. Domestic waste: Domestic waste water will be treated in existing STP of capacity 140 CMD
11	Energy Consumption and its source	Existing: Connected Load: 28902 KW & Operational Load: 10000 KW, Additional proposed: Connected Load: 4992 KW & Operational Load: 1660 KW, Total: Connected Load: 33894 KW & Operational Load: 11660 KW, Source: MPPK VidyutVitaran Company Limited Ujjain Region
12	Manpower Requirement	Existing: 2650 Nos. & Additional proposed: 00 Nos. Total: 2650 Nos.
13	Estimated Project Cost	Existing: 702.20 Cr., & Additional proposed: 292.80 Cr. Total capital Cost: 995.00 Cr.
14	EMP Budget	Capital Cost: Existing: 48.02 Cr., & Additional proposed: 125.423 Cr., Total 173.443 Cr. (including CER cost of 2.196 Cr), Operation and Maintenance: Existing: 14.68 Cr., & Additional proposed: 29.2675 Cr., Total: 43.9475 Cr/A
15	Corporate Environmental Responsibility (CER)	CER Cost: Rs.2.196 Cr(0.75 % of the expansion cost i.e. 292.80 Cr)
16	Solvent recovery	Solvents are being recovered upto of 99% and reused in the process
17	Worst scenario case Pollution load	As per OM from MoEF&CC dated 28.01.2021, the appraisal for prior environmental clearance for API & API Intermediates as single category instead of individual product in order to provide flexibility to industry to change raw material mix and / or product mix within sanctioned pollution load. Based on the said OM and also as per earlier issued EC, PP has provided combined production capacity for APIs instead of providing individual production capacity. However, the total of water consumption & all polluting parameters is calculated based on highest pollution load scenario.

xii. The types of Hazardous wastes generated from the project, method of disposal is shown in below table:

Category No.	Type of Waste	Total Quantity			Disposal
		Existing MT/A	Additional Proposed MT/A	Total MT/A	
5.1	Used Oil / Spent oil	08.00	02.00	10.00	Disposed to authorized re-processors / recycler registered with SPCB.
28.1	Process Residue & Waste	960.00	540.00	1500.00	Collect in drum, mixed with other wastes and incinerated / Hazardous waste disposed to cement manufacturing industry/ Preprocessor / TDSF.

28.3	Spent Carbon from process	780.00	720.00	1500.00	Collect in drum, mixed with other wastes and incinerated / Hazardous waste disposed to cement manufacturing industry/ Preprocessor / TDSF.
28.5	Date-expired products	25.00	10.00	35.00	Collect in drum, mixed with other wastes and incinerated in in-house incineration/ Preprocessor / TDSF.
28.4	Off specification Product	25.00	10.00	35.00	Collect in drum, mixed with other wastes and incinerated in in-house incineration/ Preprocessor / TDSF.
33.2	Contaminated cotton rags or other cleaning materials	15.00	05.00	20.00	Collect in drum, mixed with other wastes and incinerated in in-house incineration
34.1	Chemical containing Residue From Decontamination & Disposal	04.00	02.00	06.00	Collect in drum, mixed with other wastes and incinerated in in-house incineration
35.1	Exhaust Air or Flue gas cleaning residue	03.00	01.00	04.00	Treatment at existing ETP
35.4	Oil and grease skimming Residues	04.00	02.00	06.00	Collect in drum, mixed with other wastes and incinerated in in-house incineration
36.2	Spent Carbon or Filter Medium	10.00	05.00	15.00	TDSF, Pithampur
28.6	Spent Solvent	1200.00	1300.00	2500.00	Disposed to authorized Re-processors / recyclers registered with SPCB/incinerated as fuel in own Incinerator.
33.1	Empty Barrels/Containers / Linerscontaminated with Hazardous Wastes/Chemicals	175.40	124.60	300.00	Decontaminated / Reuse / Sale to authorized parties
36.1	Any Process or Distillation Residues	400.00	220.00	620.00	Collect in drum, mixed with other wastes and incinerated in in-house incineration /Cement Plant/ Preprocessor / TDSF.
35.3	Chemical Sludge From Waste Water Treatment	3000.00	2000.00	5000.00	TDSF, Pithampur//Cement Plant/ Preprocessor
35.3	MEE Salts	1000.00	3200.00	4200.00	TDSF, Pithampur/Preprocessor
37.2	Ash From Incineration Of Hazardous Waste, Flue Gas Cleaning Residues	50.00	25.00	75.00	TDSF, Pithampur

35.2	Spent ion exchange resin containing toxic chemicals	02.00	01.00	03.00	Incineration at Ratlam/Cement Plant/ Preprocessor/TSDF
28.2	Spent Catalyst	10.00	05.00	15.00	Disposed to authorized Re-processors / recyclers registered with SPCB.
II-C2	Corrosive (Spent acid, caustic etc.)	350.00	00.00	350.00	Reuse in house / Sale to authorised vendor / Disposed to authorized Re-processors

**xiii. Green belt Development :**

- Green belt to the tune of 13.10 ha is well developed at the site and around 19000 Nos. of native and pollution resistant species are available. However, area of 1.64 ha has been recently been developed and 14000 nos. of trees are planted. Additional greenbelt area of 0.42 ha will be developed on extended land of Ipca (already is possession of Ipca)
- Total 5000 Nos. of additional trees will be planted at site. Some will be planted at available open spaces in exiting greenbelt to make it more denser and some will be planted on new land to meet the criteria of 2500 Nos. of trees/ ha.
- Thus, total greenbelt area will be 15.16 Ha. (33% of total plot area). Total no. of trees will be 38000 numbers.

xiv. IPCA have total 166 numbers of fire fighters. Fire NOC also available and have its own fire brigade.

Based on the information submitted at Para i to xiv above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 716<sup>th</sup> meeting held on 07.04.2022 and decided to accept the recommendations of 549<sup>th</sup> SEAC meeting held on dated 15.02.2022.

Hence, Prior Environmental Clearance is accorded under the provisions of EIA Notification dtd. 14<sup>th</sup> September 2006 & its amendments to the proposed expansion project for manufacturing of API at Khasra No.98, 98/1, 99/1, 99/2, 99/3, 99/4, 99/5, 99/6, 99/7, 99/8, 99/9, 99/10, 99/11, 100, 101, 102, 102/1, 102/2, 103, 104/1, 115/3, 120/1, 121/1, 123, 73, 74/1, 74/2, 76, 77/2, 77/3, 77/6, 77/7, 80/3, 80/6, 80/8, 80/9, 80/10/1, 80/8/2, 80/3/1, 77/6, 80/9/1, 80/15/2, 121/1, 123, 120/1, 165/3, 122/1, 122/2, 163/6, 163/8, 163/3/1, 163/3/2, 165/4/1, 165/4/2, 165/19, 165/14, 128/6, 128/9 village - Sejavta, Tehsil & Dist. Ratlam, (MP) Total production capacity after expansion of API will be 5078 TPA (Existing 3222 TPA & Additional proposed: 1856 TPA) plot Area of 45.94 Ha. (459400 m<sup>2</sup>) of land by M/s. Ipca Laboratories Ltd, Shri Manoj Kumar Mittal, Vice President - EHS (Corporate), C-89 to C-95 MIDC Area, MIDC Mahad, Dist. Raigad (Maharashtra) - 457002 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 Municipal Authority, Ratlam & from the existing bore wells as permitted by CGWA (Existing 6 nos. Bore wells at site). Fresh water should not be used for Irrigation and gardening purpose.
2. Total quantity of runoff water generated and green belt area should be collected in underground tank & used for process in plant to minimize ground water extraction. A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
3. **Green Belt Development:**
  - (a) PP should ensure plantation as proposed total greenbelt area 15.16 ha. (33% of total plot area) with total 38000 numbers of trees of indigenous local varieties like Neem, Peepal, Kadam and Kachnaar.
  - (b) Total 5000 Nos. of additional trees should be planted at site to make it denser.

- (c) Every effort should be made to protect the existing trees on the plot.
4. PP should ensure the implementation of CER activities to the extent of Rs. 2.196 Cr committed as follows:

Sr. No	CER Activities proposed	Budget (Rs in Cr.)
1.	Provision of drinking water, waste management and health center facility to Sejavta Village.	0.50
2.	Provision of emergency medical service and facility in Sejavta Village.	0.40
3.	Skill development in Amletha, Bangrod, Ghatla and Sejavta Village, Ratlam City	0.40
4.	Greenbelt plantations in nearby areas.	0.30
5.	Provision of Solar system in surrounding villages.	0.396
6	Allotment to Anganwadi of tribal area of District Ratlam	0.05
7	Awareness about the environment to people by publishing books	0.15
	Total	2.196

5. PP should prepare off-site and on-site emergency plans and carry out mock drills in consultations and coordination with the District Administration and as per safety rules of the Industrial Health and Safety.
6. Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
7. **Odour Management:**
- Nozzles, sprayers and atomizers that spray ultra-fine particles of water or chemicals should be used along the boundary lines of area sources to suppress odours
  - Odorous air streams frequently contain high concentration of moisture. PP should ensure to use Mist filters for this purpose so that mist filter can remove solids and liquids from gas stream.
  - Regular transportation of Sludge and other odor producing material to CHWTSDF
  - Proper storage of chemical, solvent to avoid direct contact of sunlight
  - Personal Protective Equipment should be provided to the workers while handling of chemical and raw material
  - Thick green belt including small fragrance tree/shrubs should be planted around the odor generating component of the project.
8. This environmental clearance is issued subject to implementation of online air monitoring facility equipment, waste water management odour management and noise management system. PP should ensure to efficiency of the pollution control measurement should not be less than 99%.
9. PP to include carbon foot print in the Environmental Monitoring and set targets for reduction of their footprint in the management systems.
10. PP should ensure to submit half yearly compliance 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**

### **I Statutory Compliance**

- 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).
- The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to

time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

## **II Air quality monitoring and preservation**

- i. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.
- ii. 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 (if applicable). The gaseous emissions from the boiler, DG set and scrubber shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines
- iii. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- iv. The DG sets (1500 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.
- v. 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.
- vi. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.

## **III Water quality monitoring and preservation**

- i. 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 Stripper, MEE, ATFD. The MEE-1 condensates will be send to ETP for further treatment and MEE-2 condensate shall be recycled / reutilized back in plant utility, MEE bottom will be sent to TSDF site
- iv. The Low COD/TDS effluent along with blowdown from utility and washing activity will be treated in an on-site ETP followed by MVRE, RO& MEE. The treated effluent will be reused/recycled.
- v. 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.
- 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 2570 KLD.
- viii. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
- ix. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
- x. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.

## **IV Noise monitoring and prevention**

- i. Acoustic enclosure shall be provided to DG sets (1500 kVA) for controlling the noise pollution.



- ii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
- iii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

#### **V Energy Conservation measures**

- i. The energy sources for lighting purposes shall preferably be LED based.
- ii. The total power requirements for project will be 33894 KW. The power will be supplied by MPPK Vidyut Vitaran Company Limited Ujjain Region.

#### **VI Waste management**

- i. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- ii. As proposed, 92-95% 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 TSDF, Pithampur/ Recyclers / Pre or coprocessors
- iv. The Fly ash generated from boilers shall be stored in Covered shed and disposed of through cement manufacturers or brick 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 firefighting 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 atleast 150mm 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 firefighting 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/ Preprocessor.
- 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.

#### **VII Green Belt**

- i. The additional green belt of 5-10 m width shall be developed 4200 sq. meter within and periphery of plant (5000 nos.), along road sides and at open spaces at existing green belt etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- ii. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2.5 feet height of species which are fast growing with thick canopy cover preferably of perennial green nature and species as suggested by the committee. As proposed 5000 nos. of plants shall be planted green belt mainly along the periphery of new plot and at open spaces at existing green belt at a distance of 2 m x 2 m to achieve 2500 Nos of trees/ Ha. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.

#### **VIII Safety, Public hearing and Human health issues**

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- iii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iv. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- v. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.

#### **IX EMP & CER**

- i. 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 shareholders/s take holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- ii. 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.
- iii. The proposed EMP cost is Rs. 173.443 Cr. as capital and 43.9475 Cr./year as recurring

- cost.
- iv. 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.
  - v. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

#### **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, 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](http://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.
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, SO<sub>2</sub>, NO<sub>x</sub> (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 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF & CC, Gol.

  
(Shriman Shukla)  
Member Secretary

Copy to:-

- (1). Principal Secretary, Department of Environment., Government of MP, Mantralaya Vallabh Bhawan, Bhopal.
- (2). Member Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, ParyavaranParisar, E-5, Arera Colony Bhopal-462016.
- (3). Member Secretary, Madhya Pradesh Pollution Control Board, ParyavaranParisar, E-5, Arera Colony, Bhopal-462016.
- (4). The Collector, Distt-Ratlam (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, JorBagh 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.

  
(Alok Nayak)  
Officer-in-Charge

