State Environment Impact Assessment Authority, M.P.

(Ministry of Environment, Forest and Climate Change, Government of India)

Environmental Planning & Coordination Organization

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सत्यमेव जयते

No.: 1095 /SEIAA/ 20
Date : 18.6.2020

To,
Shri Manoj Kumar Mittal, Vice President - EHS (Corporate)
M/s IPCA Laboratries Ltd.
Post Box No.33,Village-Sejavta
District-Ratlam (MP)- 457002

Sub:- Case No. 6537/2019 : Prior Environment Clearance for Proposed in production capacity of intermediates, API, API-Oncology and R&D Products at Plot No. 19-A, 19-B, 20-A, 20-B, 21-A, 21-B & 22 Industrial Area No. 1, Dist. Dewas, MP. Total plot area ~102911 sq.m. Proposed Capacity of intermediate, API, API- Oncology and R & D Products - 5017.7 TPA. Non-EC products like Tablets and Injection - 250 Lac per Annum by M/s Ipca Laboratries Ltd. through Vice President - EHS (Corporate) Manoj Kumar Mittal, M/s IPCA Laboratries Ltd. Post Box No.33,Village-Sejavta District-Ratlam (MP)- 457002 Mobile No.: 9300036263 (M), E-mail: manojkumarmittal@ipca.com Envt. Conultant: Kadam Environmental Consultants

Ref: Your application dtd. 27.09.19 received in SEIAA office on 28.09.2019

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) IPCA is a one of the world's largest manufacturers of APIs -Atenolol(anti-hypertensive), Chloroquine Phosphate (anti-malarial), Furosemide(diuretic), HydroxychloroquineSulphate(NSAID), Metoprolol Succinate (anti-hypertensive), Metoprolol Tartrate(anti-hypertensive) and PyrantelSalts (anthelmintic) -besides being one of the largest suppliers of these APIs worldwide.

(ii) Ipca already have plants in M.P. at Ratlam, Indore & Pithampur. Two of the products proposed to be produced at the Dewas Plant will be Chlorquine Phosphate & HydroxyChloroquine & their intermediate 4-7 DCQ. These products are considered to be one of the key drugs in the fight against COVID-19.

(iii) The proposed project is a Greenfield project for Establishing plant having EC and Non-EC products at Plot No. 19-A, 19-B, 20-A, 20-B, 21-A, 21-B & 22. Industrial Area No. 1, Dist. Dewas, Madhya Pradesh.

(iv) The total production capacity is given in following table:

Details of Proposed Products Requiring EC

S. No.	T ype of Product	Name of P roducts	T otal Production Capacity (T PA)
1	Intermediate	4,7-Dichloroquinoline (4,7 DC Q), 3- A minopy razole-4- carboxamide (3 APC), 2-Buty l -4-C hloro-5-Formy l Imidazole (BC FI), OTBN, MEP, HNDA, NDA, Lasamide, DSA , M V -1 HC l, C PSP, MKI, RoBo 7, Clopi-II, AABO, 4-HOK, PTU, 4-TBD, 4-HBS, Ritanilic acid	2,200
2	A PI	A llopurinol, A mlodipine Besy late, A modiaquine Base, A modiaquine HCl, A ripiprazole, A tov aquone, Bezbromorone, Buproprion, C hloroquine phosphate, C hloroquine sulphate, C hlorothalidone, Duloxitine, Escitalopram, Etodolac, Famotodine, Flumequene, Gliclazide, Hy droxy C hloroquine sulphate, Lamotrigine, Levofloxacin, Lumefantrine, V alsartan, Metaclopramide HC l, Nifidipine, O ndensatron, Piperaquine Phosphate, Pregabline, Primaquine Phosphate, Proguanil Base, Telmisartan, Trazadole, Losartan Potassium, F ursemide	2,800
3	A PI-O ncology	Baricitinib, Muthotrexate, Tofacitinib, Upadacitinib	7.5
4	R & D Products		10
		T otal Production Capacity	**5,0 17.5**

Details of Proposed Non-EC Products

S.No.	Name of products	Total Production Capacity (T PA)
1	Tablets	200 Lac
2	Injections	50 Lac

(v) 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.

(vi) There is no interstate boundary within 10 km and no National Park / Sanctuary within the 5 km of the project area hence the general conditions are not attracted.

(vii) The project occupies a plot Area of 102911 sq.m of land. PP has submitted copy o amended lease deed dtd 17.05.2019 which is executed between District Trade & Industries Center, Dewas Ltd. and Ipca Laboratries Ltd. for the said project .

(viii) Total Water requirement will be 1188 KLD from that fresh water requirement will be 712 KLD and 476 KLD will be the recycled water. Water will be sourced through Dewas Water Project Works Private Limited (formerly known as Anjar Water Solution Pvt. Ltd.) water supply. PP has submitted copy of consent letter dtd. 30.08.19 issued by Dewas Water Project Works Private Limited.

(ix) The total wastewater generation will be 501 KLD. From that 476 KLD will be recycled back and 5KLD will be MEE salt and 20 KLD Losses in the ETP including leakages & sludge with moisture. Industrial wastewater will be treated in ETP followed by RO & MEE & treated water will be completely recycled and reused in cooling tower make up water. The domestic sewage will be treated separately in STP at site and treated sewage will be reused for gardening after quality matching with standard norms for on land irrigation given by PCB/CPCB.

(x) The main source of air pollution are Flue Gas Stack:8 Nos. (2 Boiler of 20 TPH + 2 Boiler of 6 TPH + 2 Thermic fluid heater + 2 DG Set of 1000 kVA each).PP has proposed Mitigation measures for air quality impacts are:

- In the standby stacks of boiler & thermic fluid heater PNG will be used. And for working stack of boiler and thermic fluid heater coal consumption is reduced to 50%.
- Proper air pollution control equipment will be provided which will meet the stipulated norms provided by MPPCB/CPCB.
- Multiple, sequential cyclones followed by state of the art bag filters with efficiency > 97.8% will be provided to meet SPM emission standards.
- AFBC based boiler will be installed, in which lime dosing will be done to reduce SO2 emissions (reduction efficiency > 75%).
- Effective water spraying will be done on the access roads to control re-entrained dust during dry season (if required);
- Proper operating procedures will be followed during startup and shutdown;
- Proper PPE like dust masks will be provided to workers and its use ensured;
- Regular Work place monitoring will be done;
- LDAR program will be conducted regular.

(xi) PP has proposed following mitigation measures will be implemented to reduce surface water related impacts:

- Fresh water demand will be reducing by proposing zero liquid discharge system. Treated water will be completely reused in plant.
- No discharge of untreated waste water on land to avoiding leakages;
- Separate drainage for storm water and effluent will be provided to avoid any contamination of surface water sources;
- All chemical and fuel storage and handling areas will be provided with proper bunds to avoid run-off contamination during rainy season.
- Solid Wastes will be properly handled in closed containers and properly stored in hazardous waste storage areas as per rules having suitable lining and also bunding for overflow of spillage waters which can contaminate the surroundings.
- Ash generated from the boiler will be stored properly and sold to nearest cement or brick manufacturing industries.

(xii) Hazardous waste generated from the proposed project will be in the form of used / spent oil which will be sold to authorised recyclers. MEE Sludge will be sent to TSDF, Pithampur for safe disposal and spent catalyst will be sold to actual reusers. These wastes will be collected, stored properly and will be send to relevant vendors / recyclers / reprocessors. The other solid waste like coal ash will be sent to briquette manufacturer. PP has submitted Acceptance letter for co-processing for cement kiln with J K Cement plant and agreement for co-processing with UltratechCement. Acceptance letter of TSDF, Pithampurand willingness letter for pre-processing of hazardous waste from GEPIL also submitted by PP.

(xiii) The power requirement of 3500 kVA shall be met from Madhya Pradesh Paschim Kendra Vidyut Vitaran Company Ltd. There will be two proposed DG sets of 1,000 KVA which will be operated only during power failure.For energy Conservation PP has proposed as follows:-

- Energy efficient machineries like AHU, Centrifuge, Reactor, ETP and motors will be used during operation phase.Installation of economizer & high efficiency burner on steam boilers.
- Using water cooled chillers, variable frequency drives for secondary pumps and public area and building management system for HVAC equipment with non-CFC and non-HCFC based refrigerants.
- Modification of HVAC System to re-circulation type form once through system to reduce the power consumption & Stoppage of HVAC system during no production time.
- Energy efficient lubricant oil for planetary gear boxes.
- Gravity flow will have preferred wherever possible to save pumping energy.

(xiv) For rainwater harvesting calculations, areas like process and storage, Godown, scrap yard etc. are excluded due to having chances of contamination. Runoff water generated from Roof Top (admin block, Utility, canteen, security, Warehouse) will be used to store rainwater for water conservation.

(xv) For Fire Protection PP has proposed to protect the plant by means of different fire protection facilities and consist of

- Hydrant system for exterior as well as internal protection of various buildings/areas of the plant.
- Portable extinguishers and hand appliances for extinguishing small fires in different areas of the plant.
- Water cum foam monitor to be provided in bulk fuel storage area.
- Fire water pumps. Two (2) independent motor driven pumps each of sufficient capacity and head are proposed for the hydrant systems which are capable to extinguish Fire or cooling purpose.
- Smoke & fire detection system along with water & foam sprinkler system will be provided.During installation NBC guideline willbe followed. NOC fromfire department will be obtained.
- For fire fighting adequate width road and turning is considered for movement of fire tender

(xvi) The proposed site has already 217 well developed trees of ten species but out of these, approximate 40% i.e. 87 trees are likely to be cut with prior approval from concerned authority and 130 trees will be retained.

28% greenbelt will be developed at site and additional 55,790 sq.m. or 5.579 ha area is being proposed on nearby plot for development of greenbelt. PP has submitted Allotment letter from DIC for Additional Greenbelt Area.

To fulfill the standard of 33% green area of total plot area, additional 4.3% i.e. 4425.17 m2 with a total plantation of 664 trees will be provided. However, 55,790 m2 or 5.579 Ha area (instead of 4,425.17 m2 i.e 4.3% of total plot area) is being proposed on nearby plot for development of greenbelt with a total plantation of 8369 trees Overall plantation of 12,667 trees (4298 trees at site + 8369 trees on adjoining plot) of various species is planned to reduce the overall impact in surrounding environment due to the proposed project.

(xvii) The unit will spend INR 4.875 Crore for 5 years (i.e. 1.5% of project cost ~ INR 325 Crores as per the OM dated May 1, 2018) for undertaking the Corporate Environment Responsibility (CER) activities in study area as shown in Table:

S.No.	Activities	Budget in %	Budget Amount (INR in crores)
1	Education	30%	1.462
1.1	Education and training for COVID 19		
1.2	ITI Training Program		
1.3	Infrastructure development (renovation of building, furniture, classrooms, CCTV, paver blocks, shed, library, water storage tank etc.)		
1.4	Uniforms		
1.5	Computers		
1.6	Sports Kit		
1.7	Water filter with cooler		
2.	Health and Hygiene	15%	0.7312
2.1	Community Toilets		
2.2	Medical Camps		
2.3	Veterinary Camps		
2.4	Hospitals/Clinic		
3	Safe Drinking Water	15%	0.7312
3.1	Water Tank		
3.2	Bore Well		
3.3	RO Plant		
4	Infrastructure développent /facilities	25%	1.218
4.1	Construction/ repair and maintenance of public buildings/utilities like community hall, drainage system, panchayat building, renovation of primary health centre etc		
4.2	Solar Street light		
5	Skill Development	10%	0.4875
5.1	Skill Development Programme		
6	Plantation in community areas	5%	0.2437
	Total	**100%**	**4.875**

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 in production capacity of intermediates, API, API-Oncology and R&D Products at Plot No. 19-A, 19-B, 20-A, 20-B, 21-A, 21-B & 22 Industrial Area No. 1, Dist. Dewas, MP. Total plot area ~102911 sq.m. Proposed Capacity of intermediate, API, API- Oncology and R & D Products - 5017.7 TPA. Non-EC products like Tablets and Injection - 250 Lac per Annum by M/s Ipca Laboratries Ltd. through Vice President - EHS (Corporate) Manoj Kumar Mittal, M/s IPCA Laboratries Ltd. Post Box No.33,Village-Sejavta District-Ratlam (MP)- 457002 subject to the compliance of the Standard Conditions and the following additional Specific Conditions as recommended by SEIAA & SEAC in its meetings.

A. <u>Specific Conditions as recommended by SEIAA</u>

1. The entire demand of fresh water should be met through Dewas Water Project Works Private Limited as committed in letter dtd. 30.08.19
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 renew in time to time 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.

(i) PP should ensure to implement the process as per Acceptance letter for co-processing for cement kiln with J K Cement plant and agreement for co-processing with Ultratech Cement.

6. **Green Belt Development:**

(a) It is noted that the proposed site has already 217 well developed trees of ten species but out of these, approximate 40% i.e. 87 trees are likely to be cut. PP should ensure to obtain prior approval for cutting the existing trees.

(b) PP should ensure plantation as proposed 28% greenbelt of the total area. Plantation in the project area of indigenous local varieties like Neem, Peepal, Kadam and Kachnaar.

(c) Every effort should be made to protect the existing trees on the plot.

(d) Overall plantation of 12,667 trees (4298 trees at site + 8369 trees on adjoining plot) of various species is planned to reduce the overall impact in surrounding environment due to the proposed project as propsed.

(e) 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. 4.875 Crore for 5 years 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, 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. <u>Specific Conditions as recommended by SEAC</u>

(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 monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.

ii. The project proponent shall install system to carryout 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 S02 and NOx in reference to S02 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. The project proponent shall install one continous ambient air quality monitoring system in dewas industrial area and display its results through display board for public awareness. The location of this station shall be finalized in consultation with the regional officer, M. P. Pollution Control Baord, Dews.

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 2 DG sets (2nos.X 1000 KVA = 2000kVA) 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. DG exhaust will be discharged at height stipulated by CPCB.

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 161h 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. 718 KLD water will be consumed from Dewas Water Project Works Private Limited (formerly known as Anjar Water Solution Pvt. Ltd.) water supply. The effluent shall (531 KLD) be segregated as high COD/High TDS and Low COD/Low TDS effluents and Sewage. The HCOD/HTDS shall be neutralized and sent to stripper followed by MEE and ATFD. LCOD/LTDS effluent shall be treated in ETP followed by RO / MEE system, domestic effluent shall be treated in STP. The treated effluent shall be entirely reused and recycled in cooling tower make-up /Boiler feed and treated sewage shall be used in gardening.

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 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.

vi. Total fresh water requirement shall not exceed 718 KLD and as proposed Dewas Water Project Works Private Limited shall provide the fresh water.

vii. 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.

viii. 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.

ix. 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 3500KVA. The power will be supplied by Power Generator i.e. Grid power (Madhya Pradesh Paschim Kendra VidyutVitaran Company Ltd.).

(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. Hazardous wastes such as

a) Process Residue & Waste, Spent Carbon, Date expired Products (0.5% of total production capacity), Off specification products (0.5% of total production capacity), Contaminated cotton Rugs and other cleaning material, Spent Filter media, Spent iron exchange resin, Spent / Waste Solvent from Process and ETP ZLD System, Any process or distillation residue, shall be directly sent to incineration at CHWIF atPithampur or send for co- processing at authorized cement industry or Pre-processing.

b) Sludge / MEE salt from Wastewater Treatment Plant, Asbestos Sheet shall be directly sent to MPWMP for Disposal atPithampur

c) Used Oil/ Spent oil, Process mother liquor, Corrosive waste acid / caustic lye, Spent catalyst shall be sent to authorized decontamination facility/ recyclers or reuse.

d) The Fly ash generated from boilers shall be stored in silos/ covered shed and disposed of through cement manufacturers by bulkers / closed containers and should comply with Fly Ash Utilization Notification, 1999 and as amended subsequently.

e) If any Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.

f) Automatic smoke, heat detection system should be provided in the sheds. Adequate fire fighting systems should be provided for the storage area.

g) 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.

h) 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.

i) 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.

j) 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.

k) Recent MSDS of all the chemicals used in the plant be displayed at appropriate places.

l) Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.

m) 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.

n) Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.

o) Process organic residue and spent carbon, if any, shall be sent to cement industries for co-processing or for pre-processing. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.

p) 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. Out of 1,02,911 Sq. m. area, 29,523sq meter (28%) area will be covered with the good green belt and 4,298 trees will be planted. The green belt of 5 m width will be developed mainly along the periphery and road side. Selection of plant species shall be as per the CPCB guide lines in consultation with the State Forest Department. Additionally 55,790 m^2 or 5.579 Ha area of DIC is being proposed on nearby plot for development of greenbelt.

ii. As proposed 100 treess are to be uprooted for which permission of competent authority shall be ontained and additional 10 times plantation shall be carriedout .

iii. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.

iv. PP shall explore the possibility of planting additional 1000 trees along the banks of Naghdhavan Nallah under CER with the help of local administration.

(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 Capital cost is Rs. 2157 Lakhs and 871.05 Lakhs /year as recurring cost and out of which the Environment Monitoring Cost for the project is 110 Lakhs and Rs. 12.05 Lakhs is proposed for green belt development.

vi. Under CER activity, Rs. 487.5 Lakhs in 5 years are proposed for different activities.

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, 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, SO_2, NOx (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. / SEIAA/ 2020 Dated

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 Dewas, 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). District Trade & Industries Center, Dewas Ltd.
(7). Director, I.A. Division, Monitoring Cell, MoEF, GoI, Ministry of Environment & Forest Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 110 003
(8). Director (S), Regional office of the MOEF, (Western Region), Kendriya Paryavaran Bhawan, Link Road No. 3, Ravi Shankar Nagar, Bhopal-462016.
(9). Guard file.

(Dr. Sanjeev Sachdev)
Officer-in-Charge