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.: 4605 /SEIAA/ 20
Date : 29.10.20

To,

Shri Suresh Kumar Golla
Deputy General Manager
M/s Sun Pharmaceutical Industries Ltd,
Industrial Area, 3, AB Road,
Dist. Dewas, MP - 455001

Sub:- Case No. 7865/2020: Prior Environment Clearance for the proposed project Expansion of Active Pharmaceutical Ingredient (API)/ Bulk Drugs & Intermediates at Industrial Area 3, A.B. Road, Dewas MP- 455001 Total Plant area – 112 Acres Expansion Area :0.151 Acres wihin the existing plant area Production Capacity: 1372 TPA by M/S. SUN PHARMACEUTICAL INDUSTRIES LTD through Deputy General Manager Shri Suresh Kumar Golla Industrial Area 3, A.B. Road, Dewas, Madhya Pradesh-455001 Email : sunpharma.dewas@gmail.com Ph:- 07272-496100 Envt. Consultant :Green C India, New Delhi

Ref: Your application dtd.29.09.2020 received in SEIAA office on 29.09.2020.

With reference to 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 amendment, on the basis of the mandatory documents enclosed with the application viz., Form I, Form IA, Conceptual Plan, drawings and subsequently submission of PPT & the additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) and State Environment Impact Assessment Authority (SEIAA) constituted by the competent Authority.

i. The Plant had started its operations since 1992 with name M/s Ranbaxy Laboratories Limited for production of bulk drugs with valid EC granted in 2005 for expansion to increase the capacity from 282 TPA to 805 TPA with the production capacity approval of 805 TPA. Later at 2015 M/s Ranbaxy limited amalgamated with M/s Sun Pharmaceuticals Industries Limited. Now the plant desires to expand its capacity to 1372 TPA for API & Intermediates.

ii. This is case of Prior Environment Clearance for Expansion of Active Pharmaceutical Ingradient (API)/Bulk Drugs & Intermediates at Industrial Area, 3, AB Road, Dist. Dewas, (MP) from 805 TPA to 1372 TPA at Plot No. 2 and 2A, Dewas Industrial Area 3, A.B. Road, Dewas, Madhya Pradesh

iii. SPIL is currently situated over an area of 112 acres within which expansion will be taking place in area of 0.151 acres. SPIL involve in business of manufacturing of APIs & Intermediate having a capacity of manufacturing of 805 TPA and after proposed expansion capacity will be increase up to 1372 TPA. The cost of the project is INR. 62.9 Cr.

iv. The Co-ordinates of the project site are latitude from 22°92' to 22°93' N and longitude 76°02' to 76°03' E with ground level 532 m above MSL.

v. The Dewas unit, one of the units of Sun Pharma, is engaged in the manufacture of Active Pharmaceutical Ingredients (APIs) & Intermediates. It is a multi-product manufacturing site engaged in manufacturing of APIs & Intermediates. These products are manufactured in campaigns through multi-step organic synthesis using batch processes.

vi. The company has taken the 'Consent to Operate' for the production capacity of 805 TPA for Air and Water from Madhya Pradesh Pollution Control Board with consent no. AW-50636 validity up to. 31/10/2020.

vii. PP has submitted capacity of existing and proposed products are as follows:-

Sl. No	Product Name	Existing Capacity TPA(As per the CTO)	Additional Capacity TPA	After expansion total Capacity TPA
1	Antibiotic Cilastatin	10	10	20
2	Antibiotic Imipenem	10	10	20
3	Anti-viral: Aciclovir & Salts Gancyclovir/ Valacyclovir valgyancyclovir	50	-20	30
4	Ciprofloxacin & Salts	250	0	250
5	Macrolide (Clarithromycin)	100	0	100
6	Antiepilliptic gabapentene	80	-80	0
7	Antiviral Acyclovir and salts	70	-70	0
8	Azhithromycin	10	-10	0
9	Citalopram	50	-50	0
10	Entrofloxacin	06	-06	0
11	Etadolac	36	-36	0
12	Intermediate	36	-36	0
13	Lamuvidine	10	-10	0
14	Oflaxacin and salts	50	-50	0
15	Simvastatin/ Rosuvastatin/ Fluvastatin	37	-37	0
16	Pentoxifylline	0	50	50
17	Piroxicam Betacyclodextrin	0	5	5
18	Orlistat	0	30	30
19	Sodium bicarbonate sterile	0	2	2
20	Sodium carbonate sterile	0	5	5
21	Metadoxin	0	15	15
22	Mephentermine	0	15	15
23	Oxetacaine	0	70	70
24	Esmoprozole	0	10	10
25	Sodium Valporate	0	30	30
26	Sodium Valporate	0	30	30
27	T-3811 A03 Toyama	0	20	20
28	Levitracetam	0	240	240
29	Meropenem	0	26	26
30	Doripenem	0	2	2
31	Penem blend	0	0	0

32	4,7 Di Chloro Quinoline	0	40	40
33	Ertapenem	0	2	2
34	Anti-hypertension Sartans (Irbesartan, Valsartan, Cande saratan, Telmesartan, Losartan)	0	240	240
35	Dipropyl Diethyl Malonate	0	100	100
36	R & D Product validation	0	20	20
	Total	**805**	**567**	**1372**

viii. As per EIA Notification dated 14th September 2006 and its amendment, the project is located under the Notified Industrial area of Dewas, District-Dewas (M.P.) so the project falls under activity '5(f)' of schedule 'B' (i.e. for Synthetic Organic Chemicals) and as per the Notification S.O. 1223 (E) dated 27.03.2020 in which it is clearly mentioned that "*All proposals for projects or activities in respect of Active Pharmaceutical Ingredients (API), received up to the 30th September 2020, shall be appraised, as Category 'B2' projects, provided that any subsequent amendment or expansion or change in product mix, after the 30th September 2020, shall be considered as per the provisions in force at that time.*"

ix. There is no interstate boundary (PWD letter dtd. 23.09.2020) within 05 km and no National park, Sanctuary and Eco-sensitive areas within 05 km of the project area hence General condition are not attracted.

x. During presentation in SEAC PP submitted that they have applied for expansion only by adding shift from one and half shift working to three shifts. Earlier EC was obtained in 2005 and have applied for compliance of EC condition but due to COVID-19 compliance inspection could not be done by the authority. However, we are regularly submitting half yearly compliance report and requesting that this case shall be recommended to SEIAA and will submit compliance report shortest possible time.

xi. The case was discussed in SEAC meetings 464th dated 03.10.2020, and recommended for grant of prior EC.

xii. Salient Feature of Proposed Project:(Existing & Proposed):-

Project Name	Expansion of Active Pharmaceutical Ingredient (API) Manufacturing Unit from 805 TPA To 1372 TPA at Village Dewas, District – Dewas, Madhya Pradesh		
Production Capacity	**Existing Capacity**	**Proposed Capacity**	
	805 TPA	1372 TPA	
Land Requirement	SPIL is currently situated over an area of 112 acres within which expansion will be take place in area of 0.151 acres.		
Water Requirement/Sources	**Existing Plant**	**Additional**	**After Expansion**
	1210 KLD	240 KLD	1450 KLD
	Dewas Water-Projects Works Private Limited		
Power Requirement /Sources	**Existing Plant**	**Additional**	**After Expansion**
	4800 kVA	900 kVA	5700 kVA
	Madhya Pradesh Paschim Kshetra Vidyut Vitaran Company (MPPKVVC)		
Area for Greenbelt/Plantation	66.4 acres (59%)		
Project Cost	INR 62.9 Crores		

xiii. The Land is taken on lease by M/s Sun Pharmaceuticals Industries Limited from the Govt. of Madhya Pradesh AKVN. The project is for the expansion of API & Intermediate

manufacturing facilities within the existing plant. SPIL is currently situated over an area of 112 acres within which expansion will be take place in area of 0.151 acres.

Sl.No	Area Description	Area in m^2	Area in acres	% of Total Plot Area
1	Manufacturing Area API	14546.11	3.6	3.21
2	Manufacturing Area Formulations	145553.58	36.0	32.11
3	Green belt	268965.0	66.4	59.34
4	Road Area	24183.22	6.0	5.34
Total Area		**453247.91**	**112.0**	**100**

xiv. The major facilities involved are MEE, ATFD, Solvent recovery Plant, Solvent storage area, reactors, Cooling towers, DG set, Effluent treatment plant (ETP), and R.O Plant. Facilities like parking & plantation also developed as per plant requirement.

xv. The total water requirement for the project after the proposed expansion will be 1450 KLD which will be sourced from surface water supplied by Dewas Water-projects Works Private Limited.

xvi. There is no discharge of effluents outside the plant premises as the unit is based on **"Zero Liquid Discharge".** The total wastewater generation from the project at present is 460 KLD. After proposed expansion of production the total wastewater generation will be 700 KLD. The wastewater (Industrial) is treated in an ETP of capacity 1000 KLD. The domestic sewerage system existing within the plant receives sewage from only domestic points. Industrial and domestic sewerage systems are properly segregated and are ensured that they do not mix. The domestic sewage arising within the plant would be treated in an STP and the recycled water would be reused for flushing, and horticultural purposes thereby reducing the overall freshwater requirement

xvii. There will be two types of Solid wastes generated from the project.

Non Hazardous Solid waste:

(1) Municipal Solid Waste: The Municipal solid waste includes the paper waster from Office as well as other domestic wastes. Paper wastes would be sold to scrap vendors, while other wastes would be disposed off as per Solid Waste Management Rules, 2016.

(2) Sludge: Horticulture waste and sludge from STP are dried and used as manure.

(3) Fly Ash: The fly ash generated from the boiler and will be send for Brick making.

(b) Hazardous Solid waste: All the hazardous waste generated at the manufacturing facility is to be disposed as per the legal requirement. For Hazardous Waste, Dewas unit has taken the authorization under Hazardous and Other Waste (Management & Trans boundary Movement) Rules, 2016 as amended, from MPPCB.

(Sludge: Sludge from Effluent Treatment Plant (ETP) which would Collection, storage and disposed at TSDF Site as the company is having the membership under Madhya Pradesh Waste Management Project (division of RAMKY Enviro Engineers Ltd.) with membership valid till 29.01.2025.

xviii. 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 & Trans boundary Movement) Rules, 2016 as amendment. The Company is having the membership of TSDF from 'RAMKY ENVIRO ENGINEERS LTD' with membership valid till. 29.01.2025.

xix. SPIL using LNG in 5 TPH and 10 TPH Boilers, which are clean fuel. Only in 14 TPH Boiler, Agro based Biomass is used as a fuel. SPIL will switch over to LNG in this boiler

also after making alterations in next 3 years. For all DG Sets, SPIL will use low sulphur HSD.

xx. Power requirement will be sourced from existing line of 'Madhya Pradesh Madhya Kshetra Vidyut Vitaran Company'. The company is already authorized to use power load of 4800 kVA & 900 kVA additional power load will be required for proposed expansion. In case of power failure, D.G. set will be used as a backup power source.

xxi. For control of air pollution PP has adopted following measures:

- The process emissions contain Carbon dioxide, Hydrogen, Nitrogen & solvent emission which will be sent to scrubber and the waste scrubbing medium to be sent to effluent treatment system. SO_2 will be sent to scrubber and the resultant medium containing Sodium Bi-sulfite to be sent to effluent treatment system. The process emissions contain Carbon dioxide, Hydrogen, Nitrogen & solvent emission which will be sent to scrubber and the waste scrubbing medium to be sent to effluent treatment system. SO_2 will be sent to scrubber and the resultant medium containing Sodium Bi-sulfite to be sent to effluent treatment system.
- Condensers and Heat Exchangers to control solvent emissions/losses from manufacturing processes. Where practicable, liquids are handled in closed systems to eliminate any chances of fugitive emissions. All solvents/liquids are charged mechanically in the closed loop to avoid solvent losses thus eliminating chances of air pollution also due to fugitive emissions.
- All the solvent recovery systems are attached with double stage chilled water/chilled brine condensers to control solvent vapour emissions. Additionally, closed loop auto heating cut-off system in solvent recovery columns to arrest fugitive emissions of solvents.
- Breather Valves on storage tanks and process equipment to arrest fugitive emissions.
- Stacks of adequate heights have been provided for effective dispersion of the air pollutants in the atmosphere from emission sources, namely, boilers, and DG sets.

xxii. Noise attenuating devices like earplugs and earmuffs shall be provided to workers exposed to high noise levels. Noise barriers, silencer and enclosures shall be incorporated in the equipments, which emit high noise level. All basic equipments and various machineries should be kept well maintained. Green belts are good noise barriers and same will be developed around the plant. The sufficient green belt may be proposed to control noise levels.

xxiii. Particulate matters & other gaseous emission are envisaged as pollutant from boiler and other sources apart from other sources of fugitive emission .Depending on quality of emission from different sources, suitable air pollution control system will be provided.

xxiv. PP has proposed 268965.0 sq.m. (approx. 59% of total area) by planting trees around the periphery and within the premises of the project area.

xxv. PP has submitted on site and of site emergency plan including Disaster Management, Risk Assessment and Fire Fighting.

xxvi. The proposed project has planned extensive pollution control and environmental conservation measures. Under the CER PP has proposed following activities with 62.0 Lakh budgetary provision as per OM of MOEF & CC dated 1st May, 2018:-

Sl. No.	Activity	Year wise implementation and Budgetary provision during operation phase					Total budgetary provision (Rs.)
		1st year	2nd year	3rd year	4th year	5th year	
1	Construction of sanitation facilities (toilet) in schools and villages	3,00,000	3,00,000	3,00,000	3,00,000	3,00,000	15,00,000
2	Infrastructure for Periodic medical check-up camp by appointing specialist doctor for eyes, skin, heart and dental in a year	50,000	50,000	50,000	50,000	50,000	2,50,000
3	Facilities for solid waste management	50,000	50,000	50,000	50,000	50,000	2,50,000
4	Training to the farmers related to healthcare and crop production	50,000	50,000	50,000	50,000	50,000	2,50,000
5	Infrastructure for development of technical skills and training to the local persons	2,00,000	2,00,000	2,00,000	2,00,000	2,00,000	10,00,000
6	Assistance in providing study materials, uniform, books to the poor students located nearby area	50,000	50,000	50,000	50,000	50,000	2,50,000
7	Construction of roads and storm water drainage facility in nearby village	3,00,000	3,00,000	3,00,000	3,00,000	3,00,000	15,00,000
8	Provision of solar lanterns in villagers	40,000	40,000	40,000	40,000	40,000	2,00,000
9	Distribution of saplings among villagers to be planted in the open and degraded areas	1,00,000	1,00,000	1,00,000	1,00,000	1,00,000	5,00,000
10	Facility for rain water harvesting by desilting nearby ponds	1,00,000	1,00,000	1,00,000	1,00,000	1,00,000	5,00,000
						Total	62,000,00

Based on the information submitted at Para i to xxvi above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 644th meeting held on 07.10.2020 decided to accept the recommendations of 464th dtd. SEAC meeting held on dtd. 03.10.2020.

Hence It is decided to accept the recommendations of 464th SEAC meeting dtd 03.10.2020 and accord Prior Environment Clearance for Proposed Expansion of Active Pharmaceutical Ingredient (API)/ Bulk Drugs & Intermediates at Industrial Area 3, A.B. Road, Dewas MP- 455001 Total Plant area – 112 Acres Expansion Area :0.151 Acres wihin the existing plant area Production Capacity: 1372 TPA by M/S. SUN PHARMACEUTICAL INDUSTRIES LTD through Deputy General Manager Shri Suresh Kumar Golla Industrial Area 3, A.B. Road, Dewas, Madhya Pradesh-455001.

A. Specific Conditions as recommended by SEIAA:-

1. PP should ensure to submit the certified compliance report in MP SEIAA at the earliest.

2. The entire demand of fresh water should be met through Dewas Water-projects Works Private Limited. and there should be no extraction of ground water.

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) 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.
   b) Dust suppression system including water sprinkler system/ foaming arrangement shall be provided at loading and unloading areas to control dust emission.
   c) Fugitive emission in the work zone environment, product, raw material storage areas etc. shall be regularly monitored.
   d) Transportation of raw material and finished goods should be carried out in covered trucks.
   e) 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 will not be less than 98%.
      - Reactor and solvent handling pump shall be provided with mechanical seal to prevent leakage.
      - Closed handling system should be provided for chemicals.
      - System of leak detection and repair of pump/pipeline should be based on preventive maintenance.
      - Solvent shall be taken from underground storage tank to reactor through closed pipeline. Storage tank shall be vented through trap receiver and condenser operated on chilled water.
5. **Hazardous Waste Management:**
   (a) As proposed above, PP should ensure disposal of hazardous waste regularly and there should be no dumping of these materials in the premises/outside.
   (b) PP should ensure handling, disposal and management of hazardous waste as per the related prescribed rules.
   (c) PP should obtain Renewal of authorization regularly from MPPCB for collection storage and disposal of hazardous waste (Management, handling & transboundary Movement) Rules 2008 and its amendments. Membership of the TSDF should be obtain for hazardous waste disposal.

(d) Hazardous chemicals should be stored in sealed tanks, drums etc. Flame arrestors shall be provided on tanks. To avoid the spillage from processing unit, Industry shall provide fully mechanized filling and packaging operation unit.

6. 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.

7. PP should ensure installation of photovoltaic cells (solar energy) for lighting in common areas, LED light fixtures and energy efficient equipments.

8. **Green Belt:**
   (a) PP should ensure plantation as proposed in 268965.0 m2 (approx. 59% of total area) by planting trees at the propsed locations and Plantation in the project area of indigenous local varieties like Neem, Peepal, Kadam, Kachnaar etc.
   (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 the plot area to mitigate the effect of fugitive emissions all around the project area in consultation with the forest department as per the guidelines of CPCB.

9. PP should ensure the implementation of CER activities to the extent of 62lakh will be used 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 administrationDewas. Execution of need base activities in coordination with district administration Dewas

10. 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.

11. All other conditions as laid in the consents of MPPCB shall be applicable.

12. 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.

13. 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. <u>Specific Conditions as recommended by SEAC</u>

A. Statutory compliance:

1. 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).
2. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

3. 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

1. 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.
2. 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.
3. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions from the boiler, DG set and scrubber shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
4. Storage of raw materials etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
5. The DG sets (2 X 1250 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.
6. 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.
7. 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

1. 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.
2. As already committed by the project proponent Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.
3. The High COD/TDS process effluent and RO Reject will be treated through MEE/ ATFD. The MEE condensates to the tune of will be recycled/ reused and MEE bottom will be sent to TSDF site .
4. The Low COD/TDS effluent, [consisting, process effluent, Utility blow down, washing, From Other (Scrubber + Softener/ MEE/DM Plant + R&D/QC/RO1)] will be treated in an on-site ETP followed by RO system.
5. The treated effluent (700 KLD) will be reused/ recycled and the RO reject will be sent MEE/ATFD as stated above. Total recycled water will be 700 KLD
6. 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.

7. 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.
8. Total fresh water requirement shall not exceed 1450 KLD and Dewas Water-Projects Works Private Limited supply shall be used
9. 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.
10. 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.
11. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.

(D) Noise monitoring and prevention

1. Acoustic enclosure shall be provided to DG (2*1250 KVA-Proposed) set for controlling the noise pollution.
2. 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.
3. 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

1. The energy sources for lighting purposes shall preferably be LED based.
2. The total power requirements for project will be 5700 kVA. The power will be supplied by Madhya Pradesh Paschim Kshetra Vidyut Vitaran Company (MPPKVVC).

(F) Waste management

1. 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.
2. As proposed, minimum 95% solvent recovery shall be achieved and recovered solvent shall be reused in the process.
3. 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.
4. 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.
5. If any Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.
6. Automatic smoke, heat detection system should be provided in the sheds. Adequate firefighting systems should be provided for the storage area.
7. 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.

8. 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.
9. 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.
10. 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.
11. Recent MSDS of all the chemicals used in the plant be displayed at appropriate places.
12. Proper firefighting arrangements in consultation with the fire department should be provided against fire incident.
13. 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.
14. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.
15. 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.
16. 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

1. The green belt of 5-10 m width shall be developed and 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.
2. 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 500 no. of plants 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

1. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
2. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.
3. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
4. 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.

5. 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.
6. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
7. 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

1. 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.
2. 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.
3. 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.
4. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
5. The EMP cost is Rs. 630 Lakhs as capital and 150.88 Lakhs /year as recurring cost.
6. Under CER activity, Rs. 62 Lakhs as capital costs has proposed for different activities. PP shall complied with the commitment of providing infrastructure facility at school, mobile educational vehicle, covid related activities etc.
7. 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.
8. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

J. Miscellaneous

1. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
2. The project authorities must strictly adhere to the stipulations made by the MP Pollution Control Board and the State Government.

3. 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.
4. 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).
5. 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. All activities / mitigative measures proposed by PP in Environmental Impact Assessment (if applicable) and approved by SEAC must be ensured.
2. All activities / mitigative measures proposed by PP in Environmental Management Plan and approved by SEAC must be ensured.
3. Project Proponent has to strictly follow the direction/guidelines issued by MoEF, CPCB and other Govt. agencies from time to time.
4. The Ministry or any other competent authority may alter/modify the conditions or stipulate any further condition in the interest of environment protection.
5. The Environmental Clearance shall be valid for a period of seven years from the date of issue of this letter.
6. 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
7. The Regional Office, MoEF, GoI, Bhopal and MPPCB shall monitor compliance of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report. Environmental Management Plan and other documents information should be given to Regional Office of the MoEF, GoI at Bhopal and MPPCB.
8. The Project Proponent shall inform to the Regional Office, MoEF, GoI, Bhopal and MP PCB regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
9. In the case of expansion or any change(s) in the scope of the project, the project shall again require prior Environmental Clearance as per EIA notification, 2006.
10. 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.

11. 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.

12. 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, 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 and in the public domain.

13. 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.

14. 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 relevant officers of the Government who in turn has to display the same for 30 days from the date of receipt.

15. 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 website of the State Level Environment Impact Assessment Authority (SEIAA) at www.mpseiaa.nic.in and a copy of the same shall be forwarded to the Regional Office, MoEF, GoI, Bhopal.

16. 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.

4606

(Tanvi Sundriyal)
Member Secretary

Endt No. / SEIAA/ 2020 Dated 29.10.20

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. The Commissioner, Municipal Corporation, Indore, MP
6. 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).
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, I.A. Division, Monitoring Cell, MoEF, GoI, Ministry of Environment & Forest Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 110 003
9. Director (S), Regional office of the MOEF, (Western Region), Kendriya Paryavaran Bhawan, Link Road No. 3, Ravi Shankar Nagar, Bhopal-462016.
10. Guard file.

(Dr. Sanjeev Sachdev)
Officer-in-Charge