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STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

SEAC-2011/CR-202/TC-2
Environment department,
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai- 400 032.
Date: 3 December, 2016.

To,
M/s. Emcure Pharmaceuticals Ltd.
Plot No. D-24, MIDC, Kurkumbh,
Tal- Daund, Dist- Pune- 413 802.

EC SEIAA -Item No-11 Meeting No-103

Subject: Environment clearance for proposed expansion of existing project at Plot No. D-24/24-1, MIDC, Kurkukmbh, Tal.Daund, Dist.Pune by M/s. Emcure Pharmaceuticals Ltd.

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification, 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 112th meeting and decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 96th & 103rd meetings.

2. It is noted that the proposal is considered by SEAC-I under screening category 5(f) B1 as per EIA Notification 2006.

Brief Information of the project submitted by Project Proponent is as:

1.	Name of Project	"Emcure Pharmaceuticals Ltd."
2	Project Proponent	M/s Emcure Pharmaceuticals Ltd
3.	Consultant	Green Circle INC
4	Accreditation of consultant (NABET Accreditation)	Sr. No. 129 in List ' A' of O.M. of MoEF, GoI , New Delhi Dated 05/12/2015/ Sr. No.72, Dated 08/01/2015
5	New Project / Expansion in existing project/ Modernization/ Diversification in exiting	Industrial Project (Expansion)

	project	
6	If expansion/ Diversification, whether environmental clearance has been obtained for existing project (If yes, enclose a copy with compliance table)	Yes, copy enclosed as annexure IV
7	Activity schedule in the EIA Notification	5 (f)
8	Area Details	• Total plot area (sq. m.): 1,52,212.0m^2 • Built up area (Sq. m.): Existing:- 17066.22m^2 Proposed:- 45630.765m^2
9	Name of the Notified Industrial area / MIDC area	Plot No. D-24/24-1 MIDC – Kurkumbh, Dist – Pune
10	TOR given by SEAC? (If yeas then specify the meeting)	SEAC –I 67th Agenda 27/02/2013
11	Estimated capital cost of the Project (including cost for land, building, plant and machinery separately)	195.55 Crores (Existing) 350.00 Crores (Proposed)
12	Location details of the project :	• Latitude:-18^O 23' 58.75"N • Longitude :- 74^O 31' 51.78"E • Location: - Plot No. D-24/24-1 MIDC – Kurkumbh, Dist – Pune. • Elevation above Mean Sea Level (meters):
13	Distance from Protected Areas / Critically	Not Applicable

	Polluted areas / Eco-sensitive areas / inter-State boundaries	

14	Raw materials (including process chemicals, catalysts, & additives).	List of raw materials to be used	'Physical and chemical nature of raw material '	'Quantity (tonnes/ year) full production capacity	Source of materials	Means of transportation (Source to storage site) with justification
		Enclosed as annexure I				

15	Production details	Name of Products, By products and Intermediate Products	Existing (T/Year)	Proposed activity (new/ modernization / expansion)	Total (T/Year) (T/Year)
		Main Products			
		By-Products Intermediate Products			
		Enclosed as annexure II			

16	Process details / manufacturing details	Enclosed as annexure III
17	Rain Water Harvesting (RWH)	• Level of the Ground water table = 100 to 150 ft • Size and no of RWH tank(s) and Quantity- NA • Location of the RWH tank(s) - NA • Size, nos of recharge pits and Quantity – 4" X11 • Budgetary allocation (Capital cost and O&M cost)-10 lacs & 1.0 Lacs
18	Total Water Requirement	Total water requirement: • Fresh water (CMD): & Source: 612, MIDC • Recycled water (CMD): 292 as a treated effluent for green belt Use of the water: • Process (CMD): 225.00 • Cooling water (CMD): 170.00 • Boiler (CMD): 147.00 • Cleaning & washing (CMD): 10.00 • DM Water (CMD): 10.00 • Dust Suppression (CMD):0.00 • Drinking (CMD): 5.00 • Green belt (CMD):00.00 • Fire service (CMD):00.00 • Others (Domestic) (CMD): 45.00
19	Storm water drainage	• Natural water drainage pattern • quantity of storm water • Size of SWD-6"
20	Sewage generation	• Amount of sewage generation (CMD) : 42 • Proposed treatment for the sewage

	and treatment	• Capacity of the STP (CMD) (If applicable): N A

21	Effluent characteristic	Sr. No.	Parameters (pH, BOD, COD, heavy metal, etc)	Inlet effluent Characteristic	Outlet effluent Characte ristic	Effluent discharge standards (CPCB / MPCB)
		1	pH	1.00-14.00	5.5 – 9.0	5.5-9.0
		2	Suspended solids	300-700	< 100	<100
		3	Total Dissolved solids	3000-5000	< 2100	<2100
		4	Chemical oxygen Demand	4000-6000	< 250	<250
		5	Biochemical Oxygen demand	3000-4000	< 100	<100
		6	Chlorides	NS(Not Standard)	<600	< 600
		7	Sulphates	NS (Not Standard)	<1000	< 1000
		8	Phosphate	NS (Not Standard)	<5	<5
		9	Oil & Grease	NS (Not Standard)	<10	<10

22	ETP details	Amount of effluent generation (CMD) 292 • Capacity of the ETP (CMD) : -300.0 m^3/day • Amount of treated effluent recycled (CMD): 292 • Amount of water send to the CETP (CMD): NA • Membership of the CETP (If require): NA If yes then attach the letter submit the letter

23	Note on ETP technology to be used	Treatment facility:	
		a) Domestic:	Treated along with industrial effluent In secondary treatment of ETP
		b) Industrial:	Treated in ETP & Thermal evaporator system.

24	Disposal of the ETP sludge (If applicable)	1250.0 MT/Year

25	Disposal of other hazardous wastes (If applicable)	Sr. No	Source	Type of waste	Qty (TPM)	Disposal	Compositio n
		1	Productio n	Contaminate d aromatic, aliphatic or naphthenic solvents may or may not be fit for reuse. (20.1)	50MT/Y	CHWTSDF	

		2	Production	Distillation Residue (20.3)	25MT/Y	CHWTSDF	
		3	Production	Process Residues and wastes (28.1)	25MT/Y	CHWTSDF	
		4	Production	Spent Carbon (28.2)	60.00MT/Y	CHWTSDF	
		5	Production	Date expired discarded & off specification drugs (28.4)	Occasionally (max.10.5 Mt/Y)	CHWTSDF	
		6	RM Store	Off specification products (28.3)	52MT/Y	CHWTSDF	
		7	Production	Spent Organic Solvent (28.5)	7700 MT/Y	Sale to MPCB authorized reprocessor	
		8	Production	Spent Oil (5.1)	9600 L/Y	Sale to MPCB authorized reprocessor	
		9	Others like Battery waste, e waste etc (Pl. Specify)	Non Hazardous waste like 1.Papers, empty boxes & Plastic garbage, wood Cleaned drums, carboys, etc. 2. Briquette boiler ash	60MT/M 75MT/M	Sale to authorized re-processor Sale to bricks manufacturers	

- If waste(s) contain any hazardous/toxic substance/radioactive materials or heavy metals then provide quantity, disposal data and proposed precautionary measures.
- What are the possibilities of recovery and recycling of wastes?
- Possible users of solid waste
- Method of disposal of solid waste

26	Atmospheric Emissions (Flue gas characteristic	Sr. No	Pollutant	Source of Emission	Emission rate (kg/hr)	Concentration in flue gas (g/m3)

	s SPM, SO2, NOx, CO, etc.)	1	SPM			
		2	SO2			
		3	NOx			
		4	CO 5			
		5	Others			

27 Stack emission Details: (All the stacks attached to process units, Boilers, captive power plant, D.G. Sets, Incinerator both for existing and proposed activity). Please indicate the specific section to which the stack is attached. e.g.: Process section, D.G. Set, Boiler, Power Plant, incinerator etc. Emission rate (kg/hr.) for each pollutant (SPM, SO2, NOx etc. should be specified

Plant Section & units	Stack No.	Height from ground level (m)	Internal Diameter (Top)(m)	Emission Rate	Temp. of Exhaust Gases
1	Boiler 02 numbers (one stand by)	32 meter			
2	DG set 08 numbers	6.5 From building roof			
3	Scrubber 24 numbers	10 meter			
4	Dust collector 25 numbers	10 meter			

28 Emission Standard

Pollutants (SPM, SO2, etc)	Emission Standard Limit (mg/Nm3)	Proposed Limit (mg/Nm3)	MPCB Consent (mg/Nm3)

29 Ambient Air Quality Data

Pollutant	Permissible Standard	Proposed Concentration (in µg/m3)	Remarks
SPM (PM_{10})	≤ 100	≤ 100	
RPM($PM_{2.5}$)	≤ 60	≤ 60	
SO2	≤ 80	≤ 80	
NOx	≤ 80	≤ 80	
CO	≤ 04	≤ 04	

30 Details of Fuel to be used:

Sr. No	Fuel	Daily Consumption (TPD/KLD)		Calorific value (Kcals /kg	% Ash	% Sulphur
		Existing	Proposed			
1	Ga					
2	Naphtha					
3	HSD	500LPH	800LPH			
4	Fuel Oil					
5	Coal					
6	Lignite					
7	Other (Pl. specify)	FO-500LPH	Briquette-750KGH			

- Source of fuel:
- Mode of transportation of fuel to site:

31 Energy

Power supply:

- Existing power requirement:2477KW
- Proposed power requirement: 3927KW

DG sets:

- Number and capacity DG sets to be used (existing and proposed):-500 KVA - 04 nos. , (1010 KVA) – 02 no & (1500KVA)-02 Nos

Details of the non-conventional renewable energy proposed to be used :

32 Green Belt Development

Existing Green Area – 18867.00m^2
Proposed Green Area – 24505.00m^2
Total Green Belt Area – 43372.00m^2

- Number and species of trees to be planted :- 3000 No
- Number, size, age and species of trees to be cut, trees to be transplanted: A

Sr.No.	Vernacular Name	No. of Species	Sr.No.	Vernacular Name	No. of Species
1.	Ficus	390	19	Petrofarma	150
2.	Nagamali	60	20	Greenseedia	150
3.	Sunari	70	21	Putranjiva	105
4.	Jacaranda	80	22	Rain tree	120
5.	Kanchan	60	23	Butea monosperma (palas)	50

6.	Karanja	300	24	Bhava	158
7.	Neem	300	25	Shitashok	134
8.	Mahudo	140	26	Wad	170
9.	Paladhua	142	27	Kadamba	180
10.	Pink cassia	185	28	Chinch	140
11.	Sisam	265	30	Bakul	80
12.	Pimple	200	31	Pangara	140
13.	Suru	150	32	Booch	140
14.	Lagestoniya	140	33	Bhawa	150
15.	Gulmohar	100	34	Umbar	15
16.	Poonam	80	35	Coconut	10
17.	Arjun	116	36	Bamboo	170
18.	Akesha	160	37	Petrofarma	150

33 Details of Pollution Control Systems:

Sr. No.		Existing pollution control system	Proposed to be installed
1	Air	scrubbers, dust collectors & ventilation system	scrubbers, dust collectors & ventilation system
2	Water	ETP	ETP
3	Noise	Adequate measures for control of noise levels will be implemented to maintain noise levels	Adequate measures for control of noise levels will be implemented to maintain noise levels.
4	Solid Waste		

34 Environmental Management plan Budgetary Allocation

- Capital cost (With break up):
- O&M cost (With break up):

Sr.No.	Investment	Capital (Rs. Lakh)		O & M cost (Rs. Lakh)		Total (Existing + Additional)	
		Existing	Additional proposed	Existing	Additional proposed	Capital (Rs. Lakh)	O & M cost (Rs. Lakh)
1	Air Pollution Control Facilites	60.00	300	15.00	50.00	360.00	65
2	Green Belt	15.00	25.00	6.00	10.00	40.00	16.00

		3	Laboratory Facility for Monitoring	06.00	2.00	2.00	1.0	08.00	3.00
		4	ETP	250.00	100	--	--	350	--
		5	Evaporator	200	300	60	60	500	120.00
		6	Occupational Health	04.50	1.5	04.00	01.00	6.00	05.00
		7	HWFCOST	10.00	35.00	20.00	50.00	45.00	70.00
			Total	545.5	763.5	107	172	1309	279
35	EIA Submitted (If yes then submit the salient features)	• Period of data collected: March 2013 to May 2013 • Details of the primary data collection (i.e. location of the sample collection, number of visit, etc) Project Site • Details of the secondary data collection (i.e. Source and year of data): of data) : Indian Meteorological Department, ---------- • Potential hazard and mitigation measures No potential hazards • Conclusion of the EIA study							
36	Public hearing report (If public hearing conducted then submit the salient features)	• Date of the public hearing:- • Name of the newspaper in which the advertisement appeared (Please attach the copy) • Location of the public hearing • Number of people attended the hearing • Objection(s) / Suggestion(s) if any							
37	Air pollution, water pollution issues in the project area, If any								

3. The proposal has been considered by SEIAA in its 96th & 103rd meetings & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:

General Conditions for Pre- construction phase: -

(i) This environment clearance is issued subject to achieving Zero Liquid Discharge (ZLD).

(ii) Project Proponent to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.

(iii) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.

(iv) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.

(v) Proper Housekeeping programmers shall be implemented.

(vi) In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.

(vii) A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).

(viii) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.

(ix) Arrangement shall be made that effluent and storm water does not get mixed.

(x) Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.

(xi) Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.

(xii) The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.

(xiii) Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.

(xiv) Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.

(xv) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.

(xvi) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.

(xvii) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.

(xviii) The company shall undertake following Waste Minimization Measures:

- Metering of quantities of active ingredients to minimize waste.
- Reuse of by- products from the process as raw materials or as raw material substitutes in other process.

- Maximizing Recoveries.
- Use of automated material transfer system to minimize spillage.

(xix) 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.

(xx) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.

(xxi) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department

(xxii) The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in

(xxiii) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.

(xxiv) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.

(xxv) 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 sectorai 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.

(xxvi) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.

(xxvii) 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 respective Regional Offices of MoEF by e-mail.

4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project

proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

6. **Validity of Environment Clearance**: The environmental clearance accorded shall be valid for a period of 7 years as per MoEF & CC Notification dated 29th April, 2015 to start of production operations.

7. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

8. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

9. Any appeal against this environmental clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D-, Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

(S. M Gavai)
Member Secretary, SEIAA.

Copy to:

1. Shri T. C. Benjamin, IAS (Retired), Chairman, SEAC-I, 602, PECAN, Marigold, Behind Gold Adlabs, Kalyani Nagar, Pune – 411014. .
2. Additional Secretary, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
3. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
4. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
5. Regional Office, MPCB, Pune.
6. Collector, Pune
7. IA- Division, Monitoring Cell, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
8. Select file (TC-3)

(EC uploaded on)