STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

No. SIA/MH/IND2/196158/2021
Environment & Climate Change Department
Room No. 217, 2nd Floor,
Mantralaya, Mumbai- 400032.
Date: 23-07-21

To
M/s Harman Finochem Limited,
Plot No. B-6, MIDC Shendra,
Aurangabad.

Subject : Environment Clearance for Proposed new API's unit at Plot No. B-6, MIDC Shendra, Aurangabad by M/s Harman Finochem Limited

Reference : Application no. SIA/MH/IND2/196158/2021

This has reference to your communication on the above mentioned subject. The proposal was considered by the SEAC-1 in its 198th meeting under screening category 5(f) as per EIA Notification, 2006 and recommend to SEIAA. Proposal then considered in 224th meeting of State Level Environment Impact Assessment Authority (SEIAA).

2. Brief Information of the project submitted by you is as below:-
PP presented the following products will be manufactured-

Sr. No.	Name of Product	Quantity (Capacity) MT/M
1.	Dextromethorphan Hydro bromide	20.830
2.	Propofol	4.166
3.	Bisoprolol Hemifumerate	4.166
4.	Ritanilic Acid	3
5.	Nicotine	25
6.	Nicotine Bitartrate Dihydrate	1
7.	Nicotine Polacrilex	1
8.	Albendazole	6
9.	Phenylephirine Hydrochloride	5
10.	Chlorthalidone	0.666
11.	Guanfacine Hydrochloride	0.083
12.	Diphenhydramine Hydrochloride	5
13.	Atenelol	8
14.	Hydrochlorothiazide	8.330
	TOTAL	**92.241**

Estimated cost of Project(in Rs. Lakhs)	9228
Area of project (in Sq.m.)	33120
Whether 33% green belt is provided (yes/no)	Yes
Area of Green Belt & No. of trees in the	Area of greenbelt: 10926 sq.m.

proposed project in Sq.m. (pl. provide 2000 trees per hectare of green belt area)	No. of trees: 2190	
Width of internal roads and turning radius	Width: 6m Turning radius: 9m	
Details of proposed construction	**Total Built –up area (in Sq.m.)**	10614 sq.m.
	No.of Buildings & its height in mtrs.	4 Height: ~15-20 m

List of Raw materials & Storage Details (pl. add on in the list if necessary)-to be stored in tanks

Sr. no	Name of Raw material	Consumption	Maximum Storage Details (MT)	Hazard category	Proposed precautions to prevent accident	Remarks
1.	Methanol	15	15	Fire	To avoid ignition by any source and provide external cooling arrangement to the storage tanks, fire hydrant line, fire extinguishers, sprinkling system, work permit system, flame proof fittings, level indicators, safety valve, flame arrestors, periodic inspection, PPEs to workers	--
2.	Toluene	15	15	Fire		--
3.	Acetone	15	15	Fire		--
4.	Iso propyl alcohol	15	15	Fire		--
5.	Chloro sulphonic Acid	5	5	Toxic, corrosive	Periodic inspection, PPEs to workers	--

Water Consumption & Effluent Generation (All units in CMD)

Source & quantity of water requirement (in CMD): MIDC, Total Water Requirement -1240 CMD

Water supply permission obtained (Yes/No) & approving authority: Shall be obtained from MIDC

Particulars	Consumption (CMD)	Loss (CMD)	Effluent generation (CMD)
Industrial Process	85	10	75
Industrial cooling	350	315	35
Boiler	525	475	50
Domestic Purpose	25	2	23
Green Belt	55	55	0
Other	200	60	140
Total	**1240**	**917**	**323**

Quantity of sewage generation (in CMD):	23
Details of Sewage Treatment and Disposal of treated sewage:	Separate STP (Capacity: 25 CMD) shall be installed based on MBBR. Recycled treated water shall be used for gardening and other

	domestic purposes.

Detail of Effluent Generation (unit CMD)-Total

Particulars	**Proposed**
a)Qty. of effluent generation(CMD)	Industrial: 300 Domestic: 23
B)Qty. of high TDS/COD effluent(CMD)	75
C) Qty. of low TDS/COD effluent: (CMD)	225

Whether Zero liquid discharge effluent treatment is proposed (Yes/No)	Yes
Brief description of effluent treatment scheme	Treatment based on ZLD Concept. Industrial Effluent will be treated through evaporation system (having capacity 150 CMD) consisting of stripper column, quadruple multiple effect evaporator (calendrias) and agitated thin film dryer (ATFD) followed by ETP consist of Primary, Secondary and Tertiary treatment units (Capacity 350 CMD). Followed by RO of capacity 350 CMD, permeate from RO will reused for the cooling & washing and reject will be sent to MEE. MEE Condensate will be reused. Industry shall be Zero Liquid Discharge (ZLD).
Quantity of treated effluent proposed to be sent to CETP (pl. mention name of CETP and its membership details)	No any effluent to be sent to CETP.
Brief note on proposed rainwater harvesting scheme along with budget allocation:	As below:

S. No.	Particular	Area (Sq. m)	Average Rainfall* (m)	Runoff Coefficient	Quantum of Runoff available (Cum/Year)
1	Roof Top of building / Shed	13914	0.710	0.85	8397.10
2	Road / Paved area	8280	0.710	0.65	3821.22
3	Green Belt	10926	0.710	0.15	1163.62
	Total (sqm)	**33120**			**13381.94**

It is proposed to Catch Roof water Rainfall to 30% extent and store the same in a Collection Tank. A network of Pipeline shall be constructed along the roofs and the pipe lines shall be led to a collection tank and from there it will be passed through a sand filter and the filtered water shall be added to main raw water tank.

It is assumed that the water collection efficiency shall be @ 90%. Hence the total water collected shall be 7557.39 cum in a year. The company proposes to Capture 30% of this total water. Hence 2267.22 cum of roof water shall be captures during rainy days (50 days).

Tank having capacity of 60 cum shall be provided for this purpose. The tank dimensions shall be 5.0mx5.0mx2.5m Depth

Budget allocated for Rain water harvesting : Rs. 10 Lakh

Solid Waste Management:

Sr. No.	Type of waste	Quantity (MT/M)	Source of generation	Disposal methods	Pl. mention plan to reduce solid waste generation if any
1.	Canteen Waste	1.5	From canteen	Send to Corporation / Use as manure after OWC	--
2.	Corrugated boxes	3	From entire premises	Sales	--
3.	Office Waste	1.5	From admin/office	Sales	--
4.	STP Sludge	0.3	From STP	Dispose through Corporation	--

Hazardous Waste Generation & Disposal (As per HW Rule 2016)

Sr. No.	Category	Particulars	Source of generation (please include name of product)	Quantity (MT/M)	Method & Disposal as per HW Rules 2016
1.	5.1/5.2	Spent Oil/waste & process residue containing oil	From machinery	0.3	Sale to Authorized Recycler/ Re-processor
2.	20.2	Spent solvents	From manufacturing process	75	Sale to Authorized Recycler/ Re-processor
3.	20.3	Distillation Residue	From manufacturing process	90	Co-processing/CHWTSDF
4.	28.2	Spent Catalyst	From manufacturing process	12	Co-processing/CHWTSDF
5.	28.2	Spent Carbon	From manufacturing process	30	Co-processing/CHWTSDF
6.	33.1	Discarded Containers/Barrels/ Liners	From entire premises	300 Nos./Month	Sale to authorized vendor
7.	35.3	Sludge from Waste Water Treatment	From ETP	90	Co-processing/CHWTSDF
8.	35.3	Inorganic and MEE Sludge	From ETP, MEE	600	Co-processing/CHWTSDF
9.	--	Plastic Waste	From entire premises	3	Send to authorized Recycler
10.	--	E Waste	From entire premises	100 Nos./Month	Send to authorized Recycler

11.	--	Battery Waste	From entire premises	500 Nos./Month	Buy back/Sale to authorized recyclers
12.	--	Biomedical Waste	From entire premises	As per Generation	CBMWTSDF

Fuel Consumption:

Sr. No.	Type of Fuel	Consumption Qty	Used for (Boiler / DG set etc)	Ash %	SO2%	Air pollution control/ equipment provided(Yes/No)
1.	Furnace Oil	2332 kg/hr	Boiler 14 TPH- 2 Nos. (one will remain stand by)	--	--	stack of adequate height wet scrubber (FGD) to scrub the SO2 @ 90% removal
2.	Furnace Oil	1332 kg/hr	Boiler 8 TPH- 2 Nos. (one will remain stand by)	--	--	stack of adequate height wet scrubber (FGD) to scrub the SO2 @ 90% removal
3.	Furnace Oil	50 kg/hr	Thermic fluid heater – 8 lakhs Kcal/hr (1 No.)	--	--	stack of adequate height wet scrubber (FGD) to scrub the SO2 @ 90% removal
4.	HSD	300 Lit/hr	D.G. Set (2000 KVA)- 1 No.	--	--	Self-supporting stack with acoustic enclosure
5.	HSD/ Electricity	2 Lit/ day	Fire Hydrant Pump Set- 1 No	--	--	Self-supporting stack
Brief note on air pollution control equipment's					Stack of adequate stack height shall be provided	

Stack Details (Also include process vent details)

Sr. No.	**Section/ Unit**	**Source pollutions**	**Stack No.**	**Stack height**	**Height from ground**	**Internal Diameter (inch)**	**Temperature of exhaust gas**
1.	Utility	Boiler 14 TPH- 2 Nos. (one will remain stand by)	1	43 m combine	44 m	0.8 m	104
2.		Boiler 8 TPH- 2 Nos. (one will remain stand by)					
3.		Thermic fluid heaters – 8 lakhs Kcal/hr (1 No.)					
4.		D.G.Set	2	30 m	31 m	0.4 m	128

		(2000 KVA)- 1 No.					
5.	Process	Acid Scrubber (2 No.)	1	25 m	26 m	0.4 m	--
6.		SO2 Scrubber (2 No.)	2	25 m	26 m	0.4 m	--
7.		H2S Scrubber (2 Nos.)	3	25 m	26 m	0.4 m	--

Energy

a)Source of power supply: Electricity from State Electricity Board- {Source- MSEDCL}

b)Maximum Demand (KVA): 3125 KVA

c)Whether DG sets will be provided (Yes/No): Yes

if yes:

Sr.No.	No. of DG Sets	Capacity
1	1	2000 KVA

d)Please mention if high tension line is passing through the plot: NA

If yes, pl. give details of safety measures adopted: NA

Details of use of renewable energy with budget allocation

Total Energy Demand: 3125 KVA

Proposed renewable energy source capacity: 31.5 kW

Proposed Budget(in Rs. Lakhs): 300 lakhs

Timeline for implementation: 12 months

EMP (Please mention specific items proposed in EMP along with specific timeline for its implementation)

Construction Phase

Sr. No.	Attribute	Specific measure	Budget in (Rs lakh)	Remark
1	Air	Stack monitoring system, acoustic enclosure	1090	--
2	Water	STP, ETP, RO & MEE	1200	--
3	Noise	Acoustic Enclosures & PPE's	15	--
4	Soil	NA		--
5	Solid Waste	Agreement, transportation, Disposal.		--
6	Hazardous Waste			--
7	Fuel and Energy	Energy-efficient Electric Motors, LED Bulbs, solar panel installation	300	--
8	Safety and Health	Fire Hydrant Arrangement & Installation	200	--

Operation Phase

Sr.No.	Attribute	Specific measures	Budget in Rs. lakh	Time line for 1/5 implement	Responsibility	Remarks
Above 1 to				1 Year after	Managing	Shall be completed

8 column				receipt of relevant permission	Director/ Project Manager	before commissioning of plant
9	Rain water harvesting	Periodic Maintenance	10	--	Factory Manager	--
10	Implementation of recommendation of LCA	NA	NA	NA	NA	--
11	Implementation recommendation HAZOP/Risk Assessment	Periodic Maintenance, PPE kits, Trainings, Mock Drills etc.	10	Regular Activity	Factory Manager	--
12	Greenbelt	Periodic Maintenance	20	Regular Activity	Executive EHS	--
13	Environment monitoring and management	Environment monitoring	15	As per given guidelines	Factory Manager	--
Details of court cases if pending in any Hon'ble court				NA		

3. The proposal has been considered by SEIAA in its 224th meeting and decided to accord Environment Clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implantation of following terms and conditions-

Specific Conditions:

SEAC Conditions-

1. PP to provide separate exit as entry and exit should not be common.
2. PP to plant indigenous trees as exotic trees will not survive in chemical industries.
3. PP to submit Debris management plan. PP to provide Online monitoring system for effluent management & to ensure ZLD.
4. PP has agreed to spend the CER cost in consultation with District administration on Covid related activities considering the present scenario, within 6 months of getting the environmental Clearance.

SEIAA Conditions

1. As per the MoEF&CC guidelines PP has to provide 33% green belt of the total plot area. But PP has developed green belt of 6005.00 m2 i.e. 18.13 % of total plot area and also obtained NOC from MIDC dated 14.06.2021 for tree plantation on MIDC open plot no OS -08 having area of 13200.00 m2. PP to subsequently get their own land (by the way of purchase/ long lease) for developing deficit of about 4925.00 m2 (14.87 %) green belt within 6 months.

2. PP to undertake Meyawaki plantation of native and indigenous trees in the proposed green belt on MIDC open land (OS-08) and also on 4925.00 m2 (14.87 %) green balance green area as per the Forest Department, Govt. of Maharashtra circular no SaVaVi-2019/C.R.3/F-11, dated 25th June, 2019. The said plantation to be completed in the first year of operation of Environmental Clearance under expert guidance of Miyawaki experts / arborist.
3. PP to ensure that, proposed expansion will be ZLD.
4. PP to strictly observe the Solid Waste Management Rules, 2016 as amended time to time.
5. PP to strictly observe the Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016 as amended time to time.
6. PP to identify all sources of fugitive air pollution on site and provide pollution control measures to mitigate pollution and meet the standard parameters stipulated in the Environment (Protection) Rules, 1986 amended time to time & Air (Prevention and Control of Pollution) Act, 1981 amended time to time.
7. PP to ensure storage of chemicals as per the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 amended time to time to ensure no release of any chemical to the atmosphere and leakage to the soil.
8. PP to ensure transport, storage, handling and use of the flammable/toxic chemicals as per conditions stipulated in license/approval of the Petroleum & Explosive Safety Organization (PESO).
9. PP to obtain approval and License from the Directorate of Industrial Health & Safety (DIHS) for proposed project and implement all condition stipulated therein. PP to carry out Safety Audit as stipulated in the Maharashtra Factories Rules, 1963 and ensure compliance of recommendation of the Audit.
10. PP to provide solar energy for illumination of Administrative Building, Street Lights and parking Area.
11. PP to ensure use of briquette /bio coal/ pellets/ or any such suitable product derived from scientific processing of appropriate stream of dry waste/agricultural waste , not less than 50 % of the total fuel requirement to the boiler.
12. PP to provide roof top Rain Water Harvesting facility.

General Conditions:

I. The project proponent 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 Environmental Clearance letter are available with the Maharashtra Pollution Control Board, website of the company and may also be seen at Website at http://parivesh.nic.in

II. The project Proponent shall upload the status of compliance (soft copies) of the conditions stipulated Environmental Clearance letter including monitoring data of air, water, soil, noise etc. on their website and shall update the same periodically. The half

yearly compliance report shall simultaneously be submitted to the Maharashtra Pollution Controls Board, SEIAA and the Regional Office off MoEF&CC at Nagpur, on 1st June & 1sr December of each calendar year.

III. Separate fund shall be allocated for the implementation of Environmental Management Plan along with item wise break up and specific time line for its completion. The cost shall be included as part of the project cost. The funds earmarked for the environmental protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to the MPCB and the SEIAA.

IV. A separate Environmental Management Cell with qualified personnel shall be set up for implementation of the stipulated environmental safeguards.

V. In the event of failure of any pollution control equipment, the manufacturing activity shall be immediately stopped safely till the effective functioning of pollution control equipment's is regained.

VI. PP to strictly follow conditions stipulated in the Consent to Establish/Operate issued by the Maharashtra Pollution Control Board.

VII. PP to provide separate drains for storm water and effluent, and ensure that, the storm water drains are dry all the time and in no case the effluent shall mix with the storm water drain.

VIII. Periodic Monitoring of ground water in the study area as marked in the Environmental Impact Assessment Report shall be undertaken and results analysed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.

IX. The overall noise levels in and around the factory premises shall be kept within the prescribed standard under the Environment (Protection) Act, 1986 and Rule, 1989 as amended from time to time by providing adequate noise control measures and protective equipment's like ear muff and ear plug etc.

X. Adequate safety measures shall be ensured to limit the risk zone within the factory premises. Leak detection system shall be installed for early detection and mitigation purpose.

XI. PP to scrupulously follow the requirements of Maharashtra Factories Act, 1948 & Rules 1963 as amended from time to time.

XII. The Environmental Statement for each financial year ending on 31st March in Form-V as is mandated to be submitted by the Project Proponent to the concerned Pollution Control Board as prescribed under the Environment (Protection) Rule, 1989 as amended from time to time, it shall also be put on the website of the company along with the status of the compliance of the conditions stipulated in the Environmental Clearance letter.

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. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

6. The Environment department reserves the right to add any stringent condition or 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.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, amended time to time.

8. 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.

9. 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.

10. Any appeal against this Environment 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.

Manisha Patankar-Mhaiskar
(Member Secretary, SEIAA)

Copy to:

1. Chairman, SEIAA (Maharashtra), Mumbai.
2. Secretary, MoEF & CC
3. IA- Division MOEF & CC
4. Member Secretary, Maharashtra Pollution Control Board, Mumbai.
5. Regional Office MoEF & CC, Nagpur
6. District Collector, Aurangabad.
7. Regional Officer, Maharashtra Pollution Control Board, Aurangabad.