



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date:February 16, 2018

To,
FILTRA CATALYSTS AND CHEMICALS LTD
at PLOT NO B-52/3,MIDC LOTE PARSHURAM

Subject: Environment Clearance for EXPANSION OF PRODUCT 3,5 XYLENOL

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 th meeting and 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 115th meetings.

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

Brief Information of the project submitted by you is as below :-

1.Name of Project	Expansion and modernization of 3,5,Xylenol
2.Type of institution	Private
3.Name of Project Proponent	FILTRA CATALYSTS AND CHEMICALS LTD
4.Name of Consultant	Self
5.Type of project	Industrial
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion OF existing project.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	SEAC Recommended the case to SEIAA IN 133RD MEETING dated 24 and 25 august 2016
8.Location of the project	PLOT NO B-52/3,MIDC LOTE PARSHURAM
9.Taluka	KHED
10.Village	Lote
11.Area of the project	In a Notified Industrial Area MIDC LOTE PARSHURAM.
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable IOD/IOA/Concession/Plan Approval Number: Not applicable Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not applicable as indutry is presently in operation.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	17672 m2
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.Proposed Built-up Area (FSI & Non-FSI)	FSI area (sq. m.): Not applicable Non FSI area (sq. m.): Not applicable Total BUA area (sq. m.):
19.Total ground coverage (m2)	0
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	0
21.Estimated cost of the project	8500000

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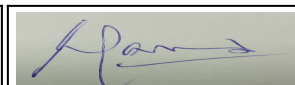
22. Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	3,5 XYLENOL	50	50	100

23. Total Water Requirement

Dry season:	Source of water	MIDC Lote Parshuram
	Fresh water (CMD):	60
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	200m3
	Fire fighting - Overhead water tank(CMD):	145m3
	Excess treated water	Not applicable
Wet season:	Source of water	MIDC Lote Parshuram
	Fresh water (CMD):	60
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	200m3
	Fire fighting - Overhead water tank(CMD):	145m3
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

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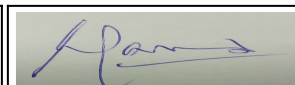
24.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	10	0	10	02	0	02	08	0	08
Industrial Process	17	0	17	1	0	1	16	0	16
Cooling tower & thermopack	31.2	0	31.2	30.2	0	30.2	1.0	0	1.0
Gardening	2.0	0	2.0	2.0	0	2.0	0	0	0
Fresh water requirement	60.2	0	60.2	35.2	0	35.2	25	0	25

25.Rain Water Harvesting (RWH)	Level of the Ground water table:	6 meter
	Size and no of RWH tank(s) and Quantity:	One tank of 10 KL
	Location of the RWH tank(s):	Near Office building
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	0.5 L
	Budgetary allocation (O & M cost) :	0.1 L
	Details of UGT tanks if any :	Underground Water storage tank of cap. 200 m3 .

26.Storm water drainage	Natural water drainage pattern:	The water drainage are constructed as per the gravity flow basis.
	Quantity of storm water:	04 nos of storm water drainage are provided.
	Size of SWD:	0.5 meter

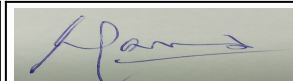
27.Sewage and Waste water	Sewage generation in KLD:	08
	STP technology:	Sequence Batch Reactor (SBR)
	Capacity of STP (CMD):	01 No. of 10KL
	Location & area of the STP:	Near Office
	Budgetary allocation (Capital cost):	9.0 Lakh
	Budgetary allocation (O & M cost):	1.5 Lakh/year



28.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	Not Applicable
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	Dry waste:	Not Applicable
	Wet waste:	Not Applicable
	Hazardous waste:	Distillation residue-30MT/A, Spent Catalyst -2.5 MT/A, Sweeping Dust-10.5MT/A, Chemical Containing Residue- 7.2MT/A, Discarded Drums- 2400 nos.
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Used For manure preparation
	Others if any:	Not Applicable
Mode of Disposal of waste:	Dry waste:	Not Applicable
	Wet waste:	Not Applicable
	Hazardous waste:	To CHWTSDF i.e. Mumbai Waste Management Limited , Taloja for scientific disposal through MPCB authorized transporter.
	Biomedical waste (If applicable):	Not Applicable.
	STP Sludge (Dry sludge):	For manure preparation
	Others if any:	Not Applicable
Area requirement:	Location(s):	Near plant
	Area for the storage of waste & other material:	10 sq.mtr dedicated area with roof is provided.
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Not Applicable
	O & M cost:	Not Applicable

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29. Effluent Characteristics

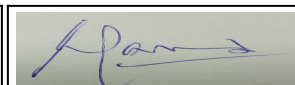
Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	NA	6.5 - 7.5	7 - 8	5.5 - 8.5
2	SS	mg/L	150-200	20-25	Not to Exceed 100
3	BOD	mg/L	1500-2000	20-40	Not to Exceed 100
4	COD	mg/L	4000-7000	120-140	Not to Exceed 250
5	O & G	mg/L	1-5	BDL - 0.5	Not to Exceed 10
6	TDS	mg/L	1500-2000	900-1000	Not to Exceed 2100
7	TDS	mg/L	1500-2000	900-1000	Not to Exceed 2100
Amount of effluent generation (CMD):		17			
Capacity of the ETP:		25 m ³			
Amount of treated effluent recycled :		0 m ³			
Amount of water send to the CETP:		17 m ³ /D			
Membership of CETP (if require):		We are member of Lote Parshuram Environment Protection Co-operative Society Limited. (CETP Lote)			
Note on ETP technology to be used		In ETP special type of 2 No. of polar resin columns of capacity 1.0 M ³ each is installed. 1 Resin column is in operation while one column is in regeneration mode. The organic content in the effluent is get adsorb on the special type of polar resin. The regeneration of the resin is done by passing alkaline water which takes up the adsorb organics on the resin and is recycled back into the plant. The treated effluent is then passed through the sand bed and carbon bed filter. The effluent below			
Disposal of the ETP sludge		As the technology is based on the adsorption of organics on the resin, no ETP sludge is generated.			

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30.Hazardous Waste Details							
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Distillation Residue	20.3	MT/Annum	30	0	30	Send to MWML for Disposal
2	Spent Catalyst	28.2	MT/Annum	2.5	0	2.5	Send to MWML for Disposal
3	Sweeping Dust	6.2	MT/Annum	10.5	0	10.5	Send to MWMLfor Disposal
4	Chemicals Containing Residue	28.1	MT/Annum	7.2	0	7.2	Send to MWML for Disposal
5	Discarded Drums	33.3	Nos	2400	0	2400	Sell to MPCB authorized dealer

31.Stacks emission Details						
Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Briquettes or coal fired boiler	Coal 3.3 MT/D / Briquettes 4.23 MT/D	S-1	25.5	0.4	225 deg C
2	2 No. of thermopack and steam boiler	Furnace oil 0.8 MT/D or Low Boilers 0.34 MT/D or High Boilers 0.28 MT/D or Methane 0.9 MT/D	S-1	25.5	0.4	225 deg C
3	Activator / Dryer / Hot Gas Generator	HSD/Low Boiler 0.5 MT/D	S-2	12	0.2	225 deg C
4	Activator / Dryer / Hot Gas Generator	HSD/Low Boiler 0.5 MT/D	S-3	12	0.2	225 deg C
5	Activator / Dryer / Hot Gas Generator	HSD/Low Boiler 0.5 MT/D	S-4	12	0.2	225 deg C
6	Activator / Dryer / Hot Gas Generator	HSD/Low Boiler 0.5 MT/D	S-5	12	0.2	225 deg C
7	D.G Set 125 KVA	Methane 12.5 Kg/Hr.	S-6	3.5	0.1	225 deg C
8	D.G Set 125 KVA	Methane 12.5 Kg/Hr.	S-7	3.5	0.1	225 deg C
9	D.G Set 140 KVA	HSD 18 Kg/Hr	S-8	3.5	0.1	225 deg C
10	D.G Set 320 KVA	HSD 25 Kg/Hr.	S-9	3.5	0.1	225 deg C

32.Details of Fuel to be used				
Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	3.3 MT/D	0	3.3 MT/D
2	Briquettes	4.23 MT/D	0	4.23 MT/D
3	Furnace Oil	0.8 MT/D	0	0.8 MT/D
4	Low Boiler used for activator/dryer	0.34 MT/D	0	0.34 MT/D
5	High Boiler Used for coal fired/thermic fluid	0.28 MT/D	0	0.28 MT/D
6	HSD used for activator /Dryer	0.5 MT/D	0	0.5 MT/D
7	Methane used for coal fired boiler/Thermic fluid	0.9 MT/D	0	0.9 MT/D
Source of Fuel		Imported		
Mode of Transportation of fuel to site		By Road		
33.Energy				



Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	417 KVA
	During Operation phase (Demand load):	750 KVA
	Transformer:	500 KVA
	DG set as Power back-up during operation phase:	320 kva, 140 KVA, AND 2 NO OF 125 KVA D.G SET
	Fuel used:	METHANE FOR 125 KVA AND DIESEL
	Details of high tension line passing through the plot if any:	NA

34. Energy saving by non-conventional method:

Solar Street light and solar water heater.

36. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Heat Recovery from stack Gases	300 kg/H LPS (Low Pressure Steam) up to 3 bar is generated and used in plat.
2	Automatic Power Factor Control System installed .	0.9999 power factor is maintained

37. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
TRADE EFFLUENT	RESIN BED 2 NOS.	0
DOMESTIC EFFLUENT1	STP 10 KL CAP.	0
BOILER	DUST COLLECTOR AND WPH	0
ACTIVATOR	SCRUBBING SYSTEM	0

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	6 LAKH
	O & M cost:	0.5 LAKH

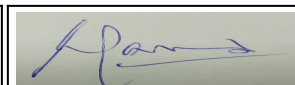
38. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	NA	NA	NA

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	AIR POLLUTION CONTROL SYSTEM	DUST COLLECTOR	16	2.5
2	WATER POLLUTION CONTROL	RESIN BEDS	19	3.5
3	HAZARDOUS WASTE AND SOLID WASTE	STORAGE AREA	4	1
4	GREEN BELT DEVELOPMENT	TREE PLANTATION	0	1



5	OCCUPATIONAL HEALTH AND SAFETY	OCCUPATIONAL HEALTH CENTER	1	1.5
6	ENVIRONMENTAL MONITORING	STACK AMBIENT NOISE MONITORING	0	1.5
7	SOCIAL WELFARE AND UPLIFTMENT	CSR ACTIVITY	0	1

39.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Isophorone	Hazardous Chemical	Tank Farm	23	23	80	Through Tanker	By Road
Caustic Soda Lye	Corrosive Chemical	Tank Farm	15	15	14	Through Tanker	By Road
Sulfuric Acid	Corrosive Chemical	Tank Farm	23	23	17	Through Tanker	By Road
Furnace oil	Flammable Liquid	Tank Farm	15	15	24	Through Tanker	By Road

40.Any Other Information

No Information Available



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	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	5 (F)
	Court cases pending if any	No
	Other Relevant Informations	We are an ISO 9001:2008 certified company.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

3. The proposal has been considered by SEIAA in its 115th meeting & 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:

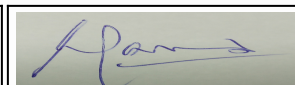
Specific Conditions:

I	Before issuing consent to operate, MPCB will ensure that the increased capacity of the facility is zero liquid discharge
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General Conditions:

I	(i)PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP.
II	73 TPH boiler should have stack height of 68m and flue gases shall be passed through an ESP of 99.9% efficiency before being led into the 68 m stack.
III	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
IV	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
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	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.

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SEIAA-EC-000000182**



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XIX	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
XX	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
XXI	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
XXII	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.
XXIII	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.
XXIV	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 , NO _x (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.
XXV	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.
XXVI	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.

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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, and amendments by MoEF&CC Notification dated 29th April, 2015.

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.



Shri Satish.M.Gavai (Member Secretary SEIAA)

Copy to:

1. SHRI ANAND. B. KULKARNI, CHAIRMAN-SEIAA
2. SHRI UMAKANT DANGAT, CHAIRMAN-SEAC-I
3. SHRI JOHNY JOSEPH, CHAIRMAN-SEAC-II
4. SHRI ANIL .D. KALE. CHAIRMAN SEAC-III
5. SECRETARY MOEF & CC
6. IA- DIVISION MOEF & CC
7. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
8. REGIONAL OFFICE MOEF & CC NAGPUR
9. REGIONAL OFFICE MIDC RATNAGIRI
10. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
11. COLLECTOR OFFICE RATNAGIRI
12. COLLECTOR OFFICE SINDHUDURG

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