



## STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,  
Room No. 217, 2nd floor,  
Mantralaya, Annexe,  
Mumbai- 400 032.  
Date: August 9, 2017

To,  
**Mr. Kirat Patel**  
at Plot No. A-7 & 25, MIDC Industrial Area, Patalganga

**Subject:** Environment Clearance for Additional Facility  
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 112th 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	"30000 KLPY Anhydrous (Absolute) Alcohol Manufacturing Plant at Patalganga MIDC"
2.Type of institution	Private
3.Name of Project Proponent	Mr. Kirat Patel
4.Name of Consultant	Ultra-Tech (Environment Consultancy & Laboratory)
5.Type of project	Industry
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project and modernization
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Patalganga Plant was commissioned in 1982, no EC applicable under EIA Notification 1994
8.Location of the project	Plot No. A-7 & 25, MIDC Industrial Area, Patalganga
9.Taluka	Khalapur
10.Village	Kaire
11.Whether in Corporation / Municipal / other area	Patalganga MIDC
12.IOD/IOA/Concession/Plan Approval Number	Registration No. - Raigad 310.2 & Raigad 2(m)(i)-24119, dated Apr 1, 2013 <b>IOD/IOA/Concession/Plan Approval Number:</b> Raigad 310.2 & Raigad 2(m)(i)-24119 <b>Approved Built-up Area:</b> 9500
13.Note on the initiated work (If applicable)	Work not initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	34,182 m <sup>2</sup>
16.Deductions	Not applicable
17.Net Plot area	34,182 m <sup>2</sup>
18 (a).Proposed Built-up Area (FSI & Non-FSI)	<b>FSI area (sq. m.):</b> Not applicable <b>Non FSI area (sq. m.):</b> Not applicable <b>Total BUA area (sq. m.):</b> Not applicable
18 (b).Approved Built up area as per DCR	<b>Approved FSI area (sq. m.):</b> <b>Approved Non FSI area (sq. m.):</b> <b>Date of Approval:</b>
19.Total ground coverage (m <sup>2</sup> )	8025 m <sup>2</sup>

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20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	23.48 % of Net plot area
21.Estimated cost of the project	42800000



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## 22. Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Anhydrous Alcohol	Not applicable	3000m3/ month	3000m3/ month

## 23. Total Water Requirement

<b>Dry season:</b>	Source of water	Patalganga MIDC
	Fresh water (CMD):	917
	Recycled water - Flushing (CMD):	NIL
	Recycled water - Gardening (CMD):	NIL
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	917
	Fire fighting - Underground water tank(CMD):	615
	Fire fighting - Overhead water tank(CMD):	676
	Excess treated water	Not applicable
<b>Wet season:</b>	Source of water	Patalganga MIDC
	Fresh water (CMD):	917
	Recycled water - Flushing (CMD):	NIL
	Recycled water - Gardening (CMD):	NIL
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	917
	Fire fighting - Underground water tank(CMD):	615
	Fire fighting - Overhead water tank(CMD):	676
	Excess treated water	Not applicable
<b>Details of Swimming pool (If any)</b>	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
Fresh water requirement	917	00	917	00	00	00	917	00	917
Domestic	30	00	30	10	00	10	20	00	20
Gardening	02	00	02	02	00	02	00	00	00
Industrial Process	885	06	891	653	00	653	297	06*	297

<b>25.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	Not applicable
	<b>Size and no of RWH tank(s) and Quantity:</b>	Not applicable
	<b>Location of the RWH tank(s):</b>	Not applicable
	<b>Quantity of recharge pits:</b>	Not applicable
	<b>Size of recharge pits :</b>	Not applicable
	<b>Budgetary allocation (Capital cost) :</b>	Not applicable
	<b>Budgetary allocation (O &amp; M cost) :</b>	Not applicable
	<b>Details of UGT tanks if any :</b>	Not applicable

<b>26.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	Sloping from South to North
	<b>Quantity of storm water:</b>	0.125 cum/sec
	<b>Size of SWD:</b>	Ø 500mm having slope 1:10

<b>27.Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	20 cum/day
	<b>STP technology:</b>	Conventional Soak pit and over flow connected to MIDC sewage line.
	<b>Capacity of STP (CMD):</b>	Not applicable
	<b>Location &amp; area of the STP:</b>	Not applicable
	<b>Budgetary allocation (Capital cost):</b>	Not applicable
	<b>Budgetary allocation (O &amp; M cost):</b>	Not applicable

## 28.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Negligible
	<b>Disposal of the construction waste debris:</b>	Not applicable
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Not applicable
	<b>Wet waste:</b>	Not applicable
	<b>Hazardous waste:</b>	2500 kg/month
	<b>Biomedical waste (If applicable):</b>	Not applicable
	<b>STP Sludge (Dry sludge):</b>	Negligible
	<b>Others if any:</b>	Not applicable
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Not applicable
	<b>Wet waste:</b>	Not applicable
	<b>Hazardous waste:</b>	Sale to authorized party approved by MPCB and CHWTSDF
	<b>Biomedical waste (If applicable):</b>	Not applicable
	<b>STP Sludge (Dry sludge):</b>	Used as manure
	<b>Others if any:</b>	Not applicable
<b>Area requirement:</b>	<b>Location(s):</b>	Not applicable
	<b>Area for the storage of waste &amp; other material:</b>	Not applicable
	<b>Area for machinery:</b>	Not applicable
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Not applicable
	<b>O &amp; M cost:</b>	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	--	7 - 9	6.5 - 8.5	6.5-8.5
2	B.O.D	mg/lit	1000 - 1500	44 - 60	Max. 100
3	C.O.D	mg/lit	2000 - 3000	160 - 206	Max. 250
4	T.S.S.	mg/lit	100 - 250	22 - 36	Max. 100
5	Oil & grease	mg/lit	3 - 5	0 - 3	Max. 10
6	Ammonical Nitrogen (TAN)	mg/lit	30 - 120	40 - 50	Max. 50
7	Nitrate Nitrogen	mg/lit	3 - 5	<10	Max. 10
Amount of effluent generation (CMD):		297 m3			
Capacity of the ETP:		120 m3			
Amount of treated effluent recycled :		NA			
Amount of water send to the CETP:		297 m3			
Membership of CETP (if require):		CETP is operated by MIDC and our ETP O/L is connected to CETP.			
Note on ETP technology to be used		Effluents are treated in ETP by process such as equalization and neutralization followed by biological oxidation. The treated degasified mixed liquor enters the secondary clarifier to separate biomass. Biomass is sent to sludge drying bed. Clarified waste water is treated with tertiary treatment with sand filter and activated carbon. Finally treated water is diluted with cooling tower blow down and released into CETP.			
Disposal of the ETP sludge		Handed over to authorised recycler			

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30.Hazardous Waste Details							
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used/ Spent Oil	5.1	MTA	2.4	00	2.4	Sale to authorized party approved by PCB
2	Wastes/ Residues Containing Oil	5.2	MTA	2.0	00	2.0	CHWTSDF
3	Distillation Residues	20.3	MTA	10	30	40	CHWTSDF
4	Chemical Containing Residue From Decontamination	33.1	KLA	20	00	20	Treated in EMP
5	Toxic Metal - Containing Residue From Water Purification	34.2	MTA	2	00	2	CHWTSDF
6	Chemical Sludge From Waste Water Treatment	34.3	MTA	4.8	00	4.8	CHWTSDF
7	Spent Catalyst	35.2	MTA	10	00	10	Sale to authorized party approved by PCB

### 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	Boiler 1	FO - 44.16 Ltr	1	21.5	0.688	200-300
2	Boiler 1	LSHS - 355.42 Ltr	1	21.5	0.688	200-300
3	Boiler 2	FO - 89.17 Ltr	1	33	0.988	200-300
4	Boiler 2	LSHS - 711.25 Ltr	1	33	0.988	200-300
5	Boiler 3	Coal Imported - 4000 MT	1	55	1.4	120-170
6	Boiler 3	Coal Indian - 5833 MT	1	55	1.4	120-170
7	DG1 - 515KVA	HSD - 750 Ltr	1	8	0.2	150
8	DG2 - 750 KVA	HSD - 1500 Ltr	1	8	0.2	150
9	Plant 1 Seal pot Vent	NA	1	15	0.2	Ambient
10	Plant 2 Seal pot Vent	NA	1	22.5	0.2	Ambient

### 32.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	FO	133.33	00	133.33
2	LSHS	1,066.67	00	1,066.67
3	Coal Imported	4,000	00	4,000
4	Coal Indian	5,833	00	5,833
5	HSD	2,250	00	2,250
Source of Fuel		Imported Coal and other fuels from refineries		
Mode of Transportation of fuel to site		Coal - dumpers from Port ; FO, LSHS, HSD - road tankers		

### 33.Energy

<b>Power requirement:</b>	<b>Source of power supply :</b>	MSEDCL
	<b>During Construction Phase: (Demand Load)</b>	50 KW
	<b>DG set as Power back-up during construction phase</b>	NA
	<b>During Operation phase (Connected load):</b>	3,622 KW (Total plant)
	<b>During Operation phase (Demand load):</b>	1860 KW (Total plant)
	<b>Transformer:</b>	750 KVA(3 No)
	<b>DG set as Power back-up during operation phase:</b>	515KVA, 750KVA
	<b>Fuel used:</b>	HSD
	<b>Details of high tension line passing through the plot if any:</b>	NA

### 34. Energy saving by non-conventional method:

Use of wind mill power through open access  
Solar energy is used in housing colony

### 36. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use of wind mill power through open access	50 paisa /unit
2	Solar energy is used in housing colony	35%

### 37. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Soak Pit	Conventional Soak pit and connected to MIDC sewage line	NA
CETP	ETP O/L connected to CETP line. CETP operation control by MIDC.	NA
DG Set (550KVA & 250KVA)	Stack	NA
Boiler 1	Stack	NA
Boiler 2	Stack	NA
Boiler (Coal Fired)	Bagfilter, Cyclomax, Blower	NA
Plant 1 Seal Pot Vent	Two stage scrubbing system	NA
Plant 2 Seal Pot Vent	Two stage scrubbing system	NA

<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	NA
	<b>O &amp; M cost:</b>	NA

### 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>b) Operation Phase (with Break-up):</b>				
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air	Scrubber & Vent absorber	178.00	2.00
2	Water	Soak Pit, CETP	99.45	53.74
3	Socio-Economy	Occupational Health Centre & ECC	14.00	2.72
4	Waste	Hazardous Waste Disposal & Transportation	--	4.26
5	Land	Gardening	1.50	0.25

### **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
Specially Denatured Spirit (SDS)	Constructed	Plot Center	300 KL	300 KL	3000 KL/Month	Distillery	Tankers
Absolute Alcohol (Ethanol)	Constructed	Plot Center	1000 KL	1000 KL	3000 KL/Month	Product	Tankers

### **40.Any Other Information**

No Information Available

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	<b>CRZ/ RRZ clearance obtain, if any:</b>	NA
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	Karnala bird sanctuary is situated at 5.8km however Patalganga MIDC is located outside the declared Eco-Sensitive zone of the sanctuary.
	<b>Category as per schedule of EIA Notification sheet</b>	5(f)
	<b>Court cases pending if any</b>	NA
	<b>Other Relevant Informations</b>	AACL propose to use Molecular Sieve method for the dehydration. Molecular sieves are synthetic adsorbents and for vapour phase ethanol dehydration the sieve developed is metal aluminosilicates with effective pore size opening 3 angstrom (3x10-8cm). Molecular sieves of type 3A has chemical formula (K <sub>2</sub> O, Na <sub>2</sub> O). Al <sub>2</sub> O <sub>3</sub> . SiO <sub>2</sub> . XH <sub>2</sub> O During dehydration of ethanol, the water of hydrolysis fills the cavities or pores in the molecular sieves. The potassium form of molecular sieves has pore size of 3 angstrom. The diameter of water molecule is 2.8 angstrom and the diameter of ethanol molecule is 4.4 angstrom. The water vapour molecules are having strong dipoles and elastic. They are drawn into the pores and condensed at the wall of the pores, Ethanol vapour bigger in size passes through the bed without getting in to the pores of the molecular sieves.
	<b>Have you previously submitted Application online on MOEF Website.</b>	Yes
	<b>Date of online submission</b>	30-01-2016

**3. The proposal has been considered by SEIAA in its 112th 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:**

**General Conditions:**

<b>I</b>	(i)PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP.
<b>II</b>	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.
<b>III</b>	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
<b>IV</b>	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
<b>V</b>	Proper Housekeeping programmers shall be implemented.
<b>VI</b>	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.
<b>VII</b>	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
<b>VIII</b>	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
<b>IX</b>	Arrangement shall be made that effluent and storm water does not get mixed.
<b>X</b>	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.
<b>XI</b>	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.
<b>XII</b>	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.
<b>XIII</b>	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.
<b>XIV</b>	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.
<b>XV</b>	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.

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<b>XVI</b>	(The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
<b>XVII</b>	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.
<b>XVIII</b>	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.
<b>XIX</b>	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
<b>XX</b>	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
<b>XXI</b>	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 <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a>
<b>XXII</b>	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.
<b>XXIII</b>	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.
<b>XXIV</b>	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 <sub>2</sub> , NO <sub>x</sub> (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.
<b>XXV</b>	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.
<b>XXVI</b>	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. Anil Diggikar (Member Secretary SEIAA)

**Copy to:**

1. SECRETARY MOEF & CC
2. IA- DIVISION MOEF & CC
3. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
4. REGIONAL OFFICE MOEF & CC NAGPUR
5. REGIONAL OFFICE MPCB RAIGAD
6. REGIONAL OFFICE MIDC RAIGAD
7. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
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