STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date:November 10, 2020

To,
Mr.Kirat Patel
at D-6/1 & D-6/2, MIDC Industrial Area, Kurkumbh

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 210th 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	45000 KLPY Anhydrous (Absolute) Alcohol Manufacturing Plant at Kurkhumbh MIDC
2.Type of institution	Private
3.Name of Project Proponent	Mr.Kirat Patel
4.Name of Consultant	Ultrat-Tech (Environment Consultancy & Laboratory)
5.Type of project	Industry
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Maharashtra SEIAA vide letter no. SEAC-2014/CR-387/TC-2 dated 31st March 2015
8.Location of the project	D-6/1 & D-6/2, MIDC Industrial Area, Kurkumbh
9.Taluka	Daund
10.Village	Kurkumbh
11.Whether in Corporation / Municipal / other area	Kurkumbh MIDC
12.IOD/IOA/Concession/Plan Approval Number	Registration No. - 100824, Dated 26th September 1995
	IOD/IOA/Concession/Plan Approval Number: 100824
	Approved Built-up Area: 80000
13.Note on the initiated work (If applicable)	Not initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	100824
15.Total Plot Area (sq. m.)	276498 m2
16.Deductions	Not applicable
17.Net Plot area	276498 m2

18 (a).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.): Not applicable
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	80000 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	28.93% OF Net plot area
21.Estimated cost of the project	70000000

22.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Anhydrous Alcohol	0	4500 m3 / month	4500 m3 / month

23.Total Water Requirement

Dry season:	**Source of water**	Kurkumbh MIDC
	Fresh water (CMD):	1841 m3 / day
	Recycled water - Flushing (CMD):	nil
	Recycled water - Gardening (CMD):	200 m3 / day
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	1841 m3 / day
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	1816 m3
	Excess treated water	Not applicable
Wet season:	**Source of water**	Kurkumbh MIDC
	Fresh water (CMD):	1841 m3 / day
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	200 m3 / day
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	1841 m3 / day
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	1816 m3
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

24.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Fresh water requirement	1841	0	1841	0	0	0	0	0	0
Domestic	49	0	49	9	0	9	40	0	40
Gardening	200	0	200	200	0	200	00	0	00
Industrial Process	1581	9	1590	1164	0	1164	417	0	417

25.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	NA
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	0
	Budgetary allocation (O & M cost) :	0
	Details of UGT tanks if any :	Domestic UG tank Capacity : 50 m3 / day
26.Storm water drainage	**Natural water drainage pattern:**	Sloping from North to south
	Quantity of storm water:	0.125 m3 / day
	Size of SWD:	dia 600mm having slope 1: 10
27.Sewage and Waste water	**Sewage generation in KLD:**	40 m3 / day
	STP technology:	Up to tertiary treatment and recycled for gardening
	Capacity of STP (CMD):	50
	Location & area of the STP:	24 m2
	Budgetary allocation (Capital cost):	already existing
	Budgetary allocation (O & M cost):	Rs. 3.8 Lakhs/ Annum

28.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	negligble
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	3750 Distillation Residue
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	negligible
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	Scale to authorized party approved by MPCB and CHWTSDF
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Use as manure
	Others if any:	NA
Area requirement:	**Location(s):**	NA
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

29.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	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	Chloride	mg/lit	60 - 200	60 - 200	Max. 600
7	Sulphate	mg/lit	70 - 120	70 - 120	Max. 1000
8	TAN	mg/lit	30 - 80	10 - 40	Max. 50
9	Phenolic Compounds	mg/lit	0	0	Max. 1.0

Amount of effluent generation (CMD):	417 m3
Capacity of the ETP:	200 m3
Amount of treated effluent recycled :	NA
Amount of water send to the CETP:	417 m3
Membership of CETP (if require):	yes already membetr
Note on ETP technology to be used	Two streams are treated separately in old and new ETPs by similar 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 CHWTSDF

30.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used/ spent oil	5.1	MTA	11.0	0	11.0	sale to authorized party approved by MPCBy
2	Waste/ residues containing oil	5.2	MTA	2.0	0	2.0	Incineration in factory/ CHWTSDF/ authorized co- processor
3	Contaminated aromatic. aliphatic or naptheic solvent	20.1	MTA	48.5	0	48.5	Incineration in factory/ CHWTSDF/ authorized co-processor
4	Distillation rsidue	20.3	MTA	330	45	375	Incineration in factory/ CHWTSDF/ authorized co-processor
5	Spent organic solvent	28.5	MTA	250	0	250	Sale to MPCB authorized party/ CHWTSDF/ authorized co-processor
6	chemical containing residue from decontamination	33.1	MTA	11	0	11	Treated in ETP
7	discareded containers/ barrels / liner	33.3	Nos/ M	300	0	300	Sale to MPCB authorized party/ Return to party
8	toxic metal containing residue from water purification	34.2	MTA	4.0	0	4.0	Land fill after bagging
9	chemical sludge from waste water treatment	34.3	MTA	336	0	336	CHWTSDF/ Incineration
10	ash from incineration hazardous waste	36.2	MTA	2.0	0	2.0	CHWTSDF
11	spent carbon	35.3	MTA	3.0	0	3.0	Incineration in factory

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	ethylene vent , MMP2	NA	1	15	0.08	ambient
2	H2 plant PSA vent	NA	1	15	0.15	40
3	Process HCL Scrubber	NA	1	6	0.15	ambient
4	DG-320 KVA	HSD - 481 / hr	1	3.6	0.2	174
5	DG-1000 KVA	HSD - 1861/ hr	1	7.8	0.15	169
6	Bagasse / coal boiler	Bagasse - 1170 kg/ hr	1	60	2.0	116
7	Bagasse / coal boiler	Indian coal - 6560 kg/ hr	1	60	2.0	116
8	Bagasse / coal boiler	Imported coal - 4850 kg/ hr	1	60	2.0	116
9	Acetonitrile THF1	FO - 761 / hr	1	24	0.35	180
10	Acetonitrile THF2	FO - 1251 / hr	1	2	1.0	132
11	Bagasse / coal boiler	Bagasse - 5000 kg/ hr	1	42	0.65	180

12	Bagasse / coal boiler	Imported coal - 3650 kg/ hr	1	42	0.65	180
13	Bagasse / coal boiler	Incineration Coal 2650 kg/ hr	1	42	0.65	180
14	Acetonitrile plant vewnt gas	NA	1	12	0.08	ambient
15	TFH	FO - 701 / hr	1	26.5	1.8	180
16	H2 plant TFH	Methnol/ CO/ CO2 / H2 - 551/ hr	1	15	0.25	ambient
17	Incineration	HSD - 201 / hr	1	30	0.2	200-250
18	Ethyl plant vent	NA	1	24	0.25	ambient
19	SMPV vent	NA	1	12	0.3	ambient
20	MPP3 vent	NA	1	12	0.1	ambient
21	HCL scrubber	NA	1	6.5	0.15	29
22	DG3 1000 KVA	HSD - 1951 / hr	1	7.82	0.25	169

32.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	FO	271 L/ hr	0	271 L/ hr
2	HSD	533 L/ hr	0	533 L/ hr
3	Bagasse	16700 kg/hr	0	16700 kg/hr
4	Coal Indian	10210 kg/hr	0	10210 kg/hr
5	Coal imported	7500 kg/hr	0	7500 kg/hr
6	Methanol/ CO/ CO2/ H2	55 L/ hr	0	55 L/ hr
33.Source of Fuel		Imported coal and other fuels from refineries		
34.Mode of Transportation of fuel to site		Coal - dumpers from Port. FO, LHS, HSD- road tankers		

35.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	50 KW
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	3807 KW
	During Operation phase (Demand load):	2500 KVA
	Transformer:	1500 KVA (2 No), 2000 KVA (1 Nos.)
	DG set as Power back-up during operation phase:	320KVA (1 No), 1000 KVA (2 No.)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

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	2%
2	solar energy is used in housing colony	2%

37.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
STP	conventional STP outlet water used for gardening	NA
ETP	ETP O/L connected to CETP line. CETP operation control by MIDC	NA
DG set- 320 KVA (1 no.), 1000 KVA (2 Nos.)	stack	NA
Bolier (Coal Fired)	ESP, Dust collector	NA

Ethylene vent - MMP2, H2 plant HSA vent, process HCL, Scrubber, Acetonitrile THH2, TFH, H2 plant	stack	NA
Acetonitrile plant vent gas, Incinerator, ethyl plant, SMPV vent, NPP3, HCL scrubber	scrubber	NA

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	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) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air	scrubber & vent absorber	108.73	3.61
2	Water	STP, ETP, CETP	394.85	56.76
3	socia-eco	occupational health center & ECC	68.05	3.23
4	Waste	hazardous waste disposal & transportation	-	83.62
5	Land	gardening	2.45	0.50

39.Storage of chemicals (inflamable/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 spirt (SDS)	Constructed	Plot centre	10800 KL	10800 KL	4500 m3	distillery	tanker
Absolute alcohol (Ethanol)	constructed	plot centre	3600 KL	3600 KL	4500 m3	final product	tanker

40.Any Other Information

No Information Available

	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	NA
	Other Relevant Informations	AACL propose to use Moleular Sieve method for the dehydration. Molecular sieves are synthetic adsorbents and for vapour phase ethanol dehydration the sieve developed is metal aluminosilcates with effective pore size opening 3 angstrom (3x10-8cm). Molecular sieves of type 3A has chemical formula (K2O, Na2O). Al2O3. SiO2. XH2O 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.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	13-05-2016

3. The proposal has been considered by SEIAA in its 210th 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	PP to ensure that CER plan gets approved from District collector.
II	PP Shall comply with Standard EC conditions mentioned in the Office Memorandum issued by MoEF& CC dated 09th August, 2018.

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	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
III	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
IV	Proper Housekeeping programmers shall be implemented.
V	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.
VI	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
VII	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
VIII	Arrangement shall be made that effluent and storm water does not get mixed.
IX	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.
X	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.

XI	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.
XII	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.
XIII	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.
XIV	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
XV	(The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
XVI	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.
XVII	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.
XVIII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
XIX	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
XX	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
XXI	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.
XXII	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.
XXIII	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 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.
XXIV	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.
XXV	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. 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.

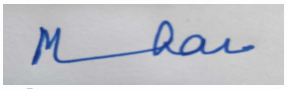
6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

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, 1stFloor, 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. SECRETARY MOEF & CC

2. IA- DIVISION MOEF & CC

3. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI

4. REGIONAL OFFICE MOEF & CC NAGPUR

5. MUNICIPAL COMMISSIONER PUNE

6. MUNICIPAL COMMISSIONER SATARA

7. REGIONAL OFFICE MPCB PUNE

8. REGIONAL OFFICE MIDC PUNE

9. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD

10. COLLECTOR OFFICE PUNE

11. COLLECTOR OFFICE SATARA

12. COLLECTOR OFFICE SOLAPUR