STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date:June 15, 2018

To,
Mr Milind Patel
at Plot No. K-2, MIDC area, Tarapur, Palghar

Subject: Environment Clearance for Synthetic Chemical /API /Intermidiates Manufacturing Industry

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 149th Day-4th 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 132nd 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 you is as below :-

1.Name of Project	M/s Shakti Industries
2.Type of institution	Private
3.Name of Project Proponent	Mr Milind Patel
4.Name of Consultant	M/s S G M Corporate Consultant Pvt Ltd
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Change in Product Mix
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Change in Product Mix
8.Location of the project	Plot No. K-2, MIDC area, Tarapur, Palghar
9.Taluka	Palghar
10.Village	Tarapur
11.Area of the project	MIDC Tarapur
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 2205
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	1644.00
16.Deductions	Not applicable
17.Net Plot area	Not applicable
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.): 2205

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)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	55000000

22.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Methyl Testosterone, Dydrogesterone	00	0.050	0.050
2	Testosterone its derviatives	00	0.450	0.450
3	Nandrolone its derviatives	00	0.150	0.150
4	Tibolone	00	0.005	0.005
5	Norethisterone , Progesterone	00	0.05	0.05
6	Estradiol its derviatives	00	0.025	0.025
7	Levonorgestrel, Nandrolone Decanoate	00	0.005	0.005
8	Ethylene Estradiol	00	0.005	0.005
9	Dinosterol , Dutasteride	00	0.01	0.01
10	Fluticasone Propionate, Fluticasone Fuorate, Fluticasone Base, Flurocortisone Acetate	00	0.015	0.015
11	Budesonide, BeclomethasoneDipropionate	00	0.010	0.010
12	Mometasone furoate, Flunisolide	00	0.025	0.025
13	Finasteride , Triamcinolone,	00	0.025	0.025
14	Prednisolone sodium phosphate	00	0.100	0.100
15	Prednisolone acetate	00	0.025	0.025

23.Total Water Requirement

Dry season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	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):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable

Wet season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	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):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	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
Domestic	01	01	02	0.2	0.2	0.4	0.8	0.8	1.6
Industrial Process	20	-14	06	15	01	01	05	05	05
Cooling tower & thermopack	01	02	03	0.9	1.9	2.8	0.1	0.1	0.2
Gardening	0.5	0.5	1.0	0.5	0.5	1.0	00	00	00

25.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 to 6.0 m
	Size and no of RWH tank(s) and Quantity:	1 x 10 cum
	Location of the RWH tank(s):	Ground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	0.50
	Budgetary allocation (O & M cost) :	0.10
	Details of UGT tanks if any :	25 CUM
26.Storm water drainage	**Natural water drainage pattern:**	Diverted into MIDC drain
	Quantity of storm water:	0.25 cum/sec
	Size of SWD:	300 x 400 mm
27.Sewage and Waste water	**Sewage generation in KLD:**	1.6
	STP technology:	Septic Tank & over flow diverted int ETP.
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NAS

28.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	NA
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	**Dry waste:**	10 Kg
	Wet waste:	05 kg
	Hazardous waste:	List Given below
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Handed Over to MIDC
	Wet waste:	Handed Over to MIDC
	Hazardous waste:	Details given below
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	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	NA	5.5-6.5	6.5 -7.5	5.5-9.0
2	BOD	mg/lit	3250 -3500	<100	100
3	COD	mg/lit	7220 – 8910	<250	250
4	SS	mg/lit	320-480	<100	100
5	Oil & Grease	mg/lit	30-40	<10	10

Amount of effluent generation (CMD):	5.0
Capacity of the ETP:	10 cum
Amount of treated effluent recycled :	00
Amount of water send to the CETP:	5.0
Membership of CETP (if require):	Yes
Note on ETP technology to be used	Physico-chemical treatment with ME
Disposal of the ETP sludge	chwtsdf

30.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	28.2	Spent Carbon	TPM	00	0.06	0.06	CHWTSDF
2	33.3	Liners, Barrels / Containers	TPM/NO	00	0.02/20 NO.	0.02/20 NO.	CHWTSDF
3	34.3	Chemical Sludge	TPM	0.02	0.04	0.06	CHWTSDF
4	36.4	Residues	TPM	00	0.100	0.100	CHWTSDF
5	20.2	Spent solvent	TPM	00	0.5	0.5	CHWTSDF /Authorised Vendor

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	FO 300 KG	1	30	0.45	120
2	Scrubber	na	1	15	0.2	45

32.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	furnace oil	0.30 TPD	00	0.30 TPD
33.Source of Fuel		Local vendor		
34.Mode of Transportation of fuel to site		By road		

35.Energy

Power requirement:	**Source of power supply :**	MSEB
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	375
	During Operation phase (Demand load):	275
	Transformer:	300
	DG set as Power back-up during operation phase:	250
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

Energy saving by non-conventional method:

Use of LED light in premises.

36.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use of LED light in premises.	NA

37.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Emissions from Process	Scrubber	Scrubber
Effluent generation	ETP	MEE
Noise	Acoustic Enclosures	Acoustic Enclosure
Hazardous waste	CHWTSDF	CHWTSDF

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1.50 Lac
	O & M cost:	0.20 Lac

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	PM-10, PM 2.5, SO2 etc	15.0	0.75
2	Water Pollution control	pH, COD, BOD, TSS etc	55.0	6.25
3	Noise	Noise	2.5	0.25
4	Hazardous waste	Soli Contamination	2.0	3.0
5	Rain water Harvesting	Water conservation	0.50	0.10
6	Occupational Health & safety	Safety	8.0	1.0
7	Green Belt	Plantation	0.50	0.25

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
Methanol	Toxic	HDPE Drums	3.0	3.0	3.0	Local vendor	By road
Acetone	Toxic	HDPE/MS Drums	0.50	0.50	1.0	Local vendor	By road
Hexane	Fire	HDPE/MS Drums	0.05	0.05	0.10	Local vendor	By road
Ethyl Acetate	Fire	HDPE Drums	0.50	0.50	1.0	Local vendor	By road
Isoproplyl alcohal	Fire	HDPE Drums	0.01	0.01	0.02	Local vendor	By road
Methyl chloride	Toxic	HDPE Drums	1.0	1.0	1.0	Local vendor	By road
Tetrahydrofuran	Toxic	HDPE Drums	0.05	0.05	0.05	Local vendor	By road
Dimethyl sulfoxide	Toxic	HDPE Drums	0.07	0.07	0.15	Local vendor	By road
Dimethyl Form amide (DMF)	Toxic	HDPE Drums	0.05	0.05	0.10	Local vendor	By road
Sulfuric acid	Corrosive	HDPE Drums	0.005	0.010	0.025	Local vendor	By road
Hydrochloric Acid	Corrosive	HDPE Drums	0.20	0.200	0.200	Local vendor	By road

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) -B1
	Court cases pending if any	NA
	Other Relevant Informations	This project is recommended for TOR in 135th meeting of SEAC.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	12-09-2016

3. The proposal has been considered by SEIAA in its 132nd 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 to provide 33% green belt within the plot area of the proposed project.

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.

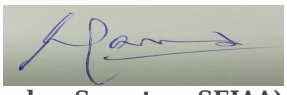
6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

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.



Shri Satish.M.Gavai (Member Secretary SEIAA)

Copy to:

1. SHRI JOHNY JOSEPH, CHAIRMAN-SEIAA
2. SHRI UMAKANT DANGAT, CHAIRMAN-SEAC-I
3. SHRI M.M.ADTANI, 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 TARAPUR
10. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
11. COLLECTOR OFFICE PALGHAR