180th Meeting of State Level Expert Appraisal Committee – 1 (SEAC-1) (Day - 2)

SEAC Meeting number: 180 **Meeting Date** March 3, 2020

Subject: Environment Clearance for Environment Clearance for: Existing Existing API Manufacturing Plant and R&D at Plot No. A – 2, MIDC Patalganga, Khalapur, District Raigad, Maharashtra by M/s. Cipla Limited

Is a Violation Case: Yes

1.Name of Project	Environmental Clearabce for Existing Existing API Manufacturing Plant and R&D at Plot No. A – 2, MIDC Patalganga, Khalapur, District Raigad, Maharashtra by M/s. Cipla Limited
2.Type of institution	TOR
3.Name of Project Proponent	Cipla Limited
4.Name of Consultant	Kadam Environmental Consultants, Vadodara, Gujarat
5.Type of project	NA
6.New project/expansion in existing project/modernization/diversification in existing project	Violation Case
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NO
8.Location of the project	Plot No. A – 2, MIDC Patalganga
9.Taluka	Khalapur
10.Village	Patalganga
Correspondence Name:	Mr. Sanjay Mhaske
Room Number:	Plot No. A – 2, MIDC Patalganga
Floor:	NA
Building Name:	Cipla Limited
Road/Street Name:	MIDC Patalganga
Locality:	Khalapur
City:	MIDC Patalganga
11.Whether in Corporation / Municipal / other area	MIDC Patalganga
12.IOD/IOA/Concession/Plan Approval Number	Plot allotment letter received from MIDC
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 48502
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.)	Industrial Plot Area: 48502 m2
16.Deductions	NA
17.Net Plot area	NA
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 48502
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 22-03-1993
19.Total ground coverage (m2)	NA
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	2212700000

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	NA	NA	NA

23.Number of tenants and shops	NA
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	NA
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	NA
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)

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1	"Antihistaminie/ Anti-Inflammatory Drugs-(17 TPA) Loraketone/ Loratidine and its derivatives Desloratadine and its derivatives of Fexofenadine Hydrochloride and its derivatives OR Promethazine Hydrochloride and its derivatives OR Celecoxib and its derivatives OR Etoricoxib and its derivatives OR Meloxicam and its derivatives OR Rofecoxib and its derivatives OR Piroxicam or Leflunomide and its derivatives OR Tramadole Hydrochloride and its derivatives OR Valdecoxib and its derivatives OR Parecoxib Sodium and its Derivatives OR Divalprex Sodium and its derivatives OR Reloxifene Hydrochloride and its derivatives OR Mometosone Furate and its derivatives OR Lumefantrine & its derivatives. C16"	1.41	0	1.41

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2	"Antidepressant Drugs- (27 TPA) Fluxetine Hydrochloride and its derivatives OR Racemic Alcohol Paroxitine Hydrochloride and derivatives and Venlafaxine Hydrochloride and its derivatives OR Bupropion Hydrochloride and its derivatives OR Citalopram Hydrobromide and its derivatives OR Duloxetine Hydrochloride and its derivatives OR Reboxetine Methane Sulfonate and its derivatives OR Sertraline Hydrochloride and its derivatives OR Torsemide and its derivatives OR Escitalopram oxalate & its derivatives. "	2.25	0	2.25
3	"Hormones- (3.5 TPA) Mesterelone and its derivatives OR HPC V OR Testosterone Enanthate and its derivativ+C6es OR Norethisterone and its derivatives OR Levonorgestryl and its derivatives OR Mifepristone and its derivatives."	0.29	0	0.29

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4	"Antibacterial/ Antifungal/ Antiviral Drugs-(52 TPA) Sulfamoxole and its derivatives OR Trimethoprim and its derivatives OR Ciprofloxacin and its derivatives OR Difloxacin and its derivatives OR Enrofloxacin and its derivatives OR Gatifloxacin and its derivatives OR Linezoid and its derivatives or Levofloxacin Hemihydrate and its derivatives OR Norfloxacin and its derivatives OR Ofloxacin and its derivatives OR Sparfloxacin and its derivatives OR Fluconazole and its derivatives OR Terbinafine Hydrochloride and its derivatives OR Aciclovir and its derivatives OR Didonosine and its derivatives OR Efaverinz and its derivatives OR Lamivudine and its derivatives OR Nelfinavir Mesylate and its derivatives OR Praziquantel and its derivatives "	4.33	0	4.33
5	"Cardiac Drugs/ Erectile Dysfunction –(25 TPA) Xantinol Niconate and its derivatives OR Atorvastatin Calcium and its derivatives OR Fluvastatin Sodium and its derivatives OR Oxyfedrine Hydrochloride and its derivatives OR Pitavastatin and its derivatives OR Pitavastatin Sodium and its derivatives OR Simvastatin and its derivatives OR Sildenafil Citrate and its derivatives OR Apomorphine and its derivatives"	2.08	0	2.08

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6	"Laxative / Anti Alcerative Drugs – (127 TPA) Bisacodyl and its derivatives OR Normacol and its derivatives OR Famotidine and its derivatives OR Lansoprazole and its derivatives OR Omeprazole, Omeprazole Magnesium / Sodium and its derivatives OR Pantaprazole and derivatives OR Rabeprazole and its derivatives."	10.58	0	10.58
7	"Antihypertensive Drugs – (24 TPA) Clonidine Hydrochloride and its derivatives OR Di-Pyridamole and its derivatives OR Verpamil Hydrochloride and its derivatives OR Amlodipine Besylate / Hydochloride and its derivatives OR Amlodipine Besylate / Hydrochloride and its derivatives Atenolol and its derivatives OR Benzapril Hydrochloride and its derivatives OR Candesartan Cliexetil & its derivatives OR Carvedilol and its derivatives OR Diltiazem Hydrochloride and its derivatives OR Enalapril Maleate and its derivatives OR Metolazone and its derivatives ORRampril and its derivatives OR S- Amlodipin Besylate and its derivatives OR Terazosin Hydrochloride Dihyrate and its derivatives OR Telmisartan & its Derivatives"	2	0	2

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8	"Anti – Asthamatic Drugs – (72 TPA) Theophylline and its derivatives OR Etofylline and its derivatives OR Diprophylline and its derivatives OR Montelukast Sodium and its derivatives OR Salbutamol & its derivatives."	6	0	6
9	"Antiepileptic Drugs – (16 TPA) Carbamazepine and its derivatives "	1.33	0	1.33
10	"Anti Diabetic Drugs – (24 TPA) Sulphonamide/ Glibenclamide/ Glyburide and its derivatives OR Glimperide and its derivatives OR Pioglitazone Hydrochloride and its derivatives OR Repaglenide and its derivatives"	2	0	2
11	"Antispasmodic Drugs- (6 TPA) Mebeverine Hydrochloride and its derivatives "	0.5	0	0.5
12	"Anti Cancer/ Antineoplastic Drugs – (1 TPA) Fosfestrol and its derivatives OR Cyclophosphamide and its derivatives OR Exemestane and its derivatives."	0.08	0	0.08

32.Total Water Requirement

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Dry season:	Source of water	NA
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	NA
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Wet season:	Source of water	NA
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	NA
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	50	0	50	30	0	30	20	0	20
Industrial Process	150	0	150	30	0	30	120	0	120
Cooling tower & thermopack	175	0	175	10	0	10	165	0	165
Gardening	46	0	46	46	0	46	0	0	0

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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	No RWH
	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) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	NA
35.Storm water drainage	Natural water drainage pattern:	From South to North
	Quantity of storm water:	NA
	Size of SWD:	NA
Sewage and Waste water	Sewage generation in KLD:	20
	STP technology:	Sewage is being treated in ETP with industrial effluent
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	Not Applicable as this is case of violation
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	Dry waste:	NA
	Wet waste:	NA
	Hazardous waste:	Details are provided in S. No. 45
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	Disposal of Hazardous Waste as per MPCB / CPCB norms. (details are provided Point No. 45 below)
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	Near ETP
	Area for the storage of waste & other material:	4x4 m
	Area for machinery:	4945.31 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	NA	8.18	7.38	5.5 - 9.0
2	Oil & Grease	mg/l	10	< 0.1	10
3	BOD	mg/l	312	13	100
4	TDS	mg/l	1476	114	2100
5	Suspended Solid	mg/l	132	18	100
6	COD	mg/l	958	40	250
7	Chlorides	mg/l	442.69	47.74	600
8	Sulphate	mg/l	48.25	8.75	1000

Amount of effluent generation (CMD):	150
Capacity of the ETP:	150
Amount of treated effluent recycled :	150
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	Effluent treatment comprising of Primary, Secondary & Tertiary treatment system, UF,RO,MEE
Disposal of the ETP sludge	ETP Sludge is being sent to MWML, Taloja for disposal by landfilling

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Residues and wastes	28.1	MT/Month	16	0	16	CHWTSDF
2	Spent catalyst/ spent carbon off specification products	28.2	MT/Month	2	0	2	CHWTSDF
3	Spent mother liquor	28.4	MT/Month	59	0	59	Sale to register recycler/ CHWTSDF
4	Spent organic solvents	28.5	MT/Month	70	0	70	Sale to register recycler/ CHWTSDF

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5	Chemical sludge from ETP	34.3	MT/Month	10	0	10	CHWTSDF
6	Used/ spent oil	5.1	MT/Month	4	0	4	Sale to register recycler
7	Date-expired, discarded and off-specification drugs/ medicine	28.3	MT/Month	59	0	59	CHWTSDF

39.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 (3.5 T/hr)	FO -130 Lit/day	1	32	1.1	150?C
2	Boilers (2 Nos., eachof 2 T/hr) - Standby	FO -100 Lit/day for eachboiler	1	32	1.1	150?C
3	DG Set (250 KVA)	HSD -35 Lit/hr	1	7	0.3	150?C
4	DG Set (1500 KVA)	HSD -210 Lit/hr	1	30	0.3	150?C
5	DG Set (1500 KVA)	HSD -210 Lit/hr	1	30	0.3	150?C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	FO for Boilers	260 Lit/Day	0	260 Lit/Day
2	HSD for DG Sets	950 Lit/hr	0	950 Lit/hr
41.Source of Fuel		Local Market		
42.Mode of Transportation of fuel to site		Tanker		

43.Green Belt Development	**Total RG area :**	Existing:14217.45 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	NA
	List of proposed native trees :	NA
	Timeline for completion of plantation :	NA

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	NA	NA	NA	NA
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	NA	NA	NA

47.Energy

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Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	2648 kVA
	During Operation phase (Demand load):	1614 kVA
	Transformer:	2500KVA
	DG set as Power back-up during operation phase:	DG Sets of 2 nos.: 250 kVA,1500 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NO

48.Energy saving by non-conventional method:

Solar Energy

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	solar warm water system Installed for Warm water generator with evacuated tube type solar collector (panel) on utility terrace, Cap is 300000 Kcal/day ,Resulting in saving of thermal (steam) energy and reduce the steam consumption. Also save fuel and environment.	By solar warm water system : 5.23 Lakhs Rs.

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Adequate stck heights to stack to boilers and DG sets are provided and scrubbers to process vents are provided	NA
Water	Effluent Treatment Plant	NA
Noise	PPE, Acaustic Enclosure	NA
Solid Waste	Haz. Waste is being disposed to CHWTSDF	NA

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

51.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

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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	Scrubbers & Dust Collector	55.61	43.73
2	Water Pollution Control	ETP, RO ,MEE	742.64	1114.43
3	Noise PollutionControl	Acoustic Enclosure to Blower and DG	37	10
4	Environment Monitoring and Management	Monitoring through MoEF approved Lab	NA	4.2
5	Green Belt	Maintenance of Green belt.	15	17
6	Solid Waste Management	Handling and disposal at CHWTSDF	9.5	40

51.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
Petroleum Class A in Bulk	NA	NA	90.00 KL	NA	NA	NA	NA
Petroleum Class B in Bulk	NA	NA	30.00 KL	NA	NA	NA	NA
Petroleum Class C in Bulk	NA	NA	64.00 KL	NA	NA	NA	NA
DP Store	NA	NA	40 KL	NA	NA	NA	NA
Non Classified Store	NA	NA	36 KL	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA

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Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	NA
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	NA
	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) B
	Court cases pending if any	NA
	Other Relevant Informations	We have done application under violation case to MoEF vide Proposal Number IA/MH/IND2/68274/2017 on 09/09/2017. The case was transffered to SEAC Maharashtra vide Proposal Number SIA/MH/IND2/23401/2018. Again we have done application on state portal via MoEF videProposal number SIA/MH/IND2/23919/2018 on 09/04/2018 with reference to the public notice vide No. ENV-2018/Legal/CR-8.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	09-09-2017

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SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	Not Applicable

Drainage pattern of the project	Not Applicable
Ground water parameters	Not Applicable
Solid Waste Management	Not Applicable
Air Quality & Noise Level issues	Not Applicable
Energy Management	Not Applicable
Traffic circulation system and risk assessment	Not Applicable
Landscape Plan	Not Applicable
Disaster management system and risk assessment	Not Applicable
Socioeconomic impact assessment	Not Applicable
Environmental Management Plan	Not Applicable
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

SEAC-AGENDA-0000000408

PP submitted application under violation category as per Notification issued by MoEF&CC dated 08.03.2018.

PP presented the proposal for ToR as per standard ToR issued by MoEF&CC in April 2015 and Notification issued on 08.03.2018 in 154th meeting of SEAC-1 held on 30.08.2018 wherein ToR was grnated to the PP along with follwing additional ToR points.

1. PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.

2. PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.

3. PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc

4. PP to submit project site details (location, top sheet of the study area of 10 km, coordinates, Google map, layout map, land use, geological features and geo hydrological status of the study area, drainage pattern etc.)

5. PP to submit details of Forest and Wild Life ecosensitive zones if nay in the study area and within the range of 5 km.

6. Land use of the study area delineating forest area, agricultural land, grazing land, wild life sanctuary, national parks, migratory routes of fauna, water bodies, human settlement and other ecological features to be indicated in the report

7. PP to submit details of likely impact of the proposed project and work carried out without obtaining prior Environment Clearance on the environmental parameters (ambient air, surface and ground water, land, flora and fauna, ambient noise, climate change and socio economic etc.)

8. PP to assess ecological damage with respect to the air, water, land and other environmental attributes. The collection and analysis of data shall be done by an Environmental Laboratory accredited by NABL or a laboratory of a council of Scientific and Industrial Research (CSIR) Institution working in the field of Environment.

9. PP to prepare an EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation

10. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultant.

11. PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.

12. PP to carry out HAZOP and QRA and submit Disaster Management Plan

13. PP to provide new and renewable energy sources for the illumination of the office building and street lights.

Now PP submitted EIA/EMP report for appraisal.

DECISION OF SEAC

SEAC-AGENDA-0000000408

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to defer the proposal till submission of compliance of following points.

Specific Conditions by SEAC:

1) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
2) PP to submit contour plan of the site showing internal road network and storm water drain network along with drain calculations.
3) PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc and submit proposed mitigation measures to reduce the identified potentials.
4) PP to submit their plan to undertake Patalganga River Rejuvenation plan from their CER funds (Rs. 3.31 Cr.) in consultation with the District Authority.
5) PP to submit revised specific remediation plan and natural and community augmentation plan along with its costs.

FINAL RECOMMENDATION

SEAC-I decided to defer the proposal.Kindly find SEAC decision above.

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180th Meeting of State Level Expert Appraisal Committee – 1 (SEAC-1) (Day - 2)

SEAC Meeting number: 180 **Meeting Date** March 3, 2020

Subject: Environment Clearance for Environment Clearance for: Existing Formulation & API Manufacturing Plant at Plot No. A – 42, MIDC Patalganga, Khalapur, District Raigad, Maharashtra by M/s. Cipla Limited

Is a Violation Case: Yes

1.Name of Project	Environmental Clearabce for Existing Formulation & API Manufacturing Plant at Plot No. A – 42, MIDC Patalganga, Khalapur, District Raigad, Maharashtra by M/s. Cipla Limited
2.Type of institution	TOR
3.Name of Project Proponent	Cipla Limited
4.Name of Consultant	Kadam Environmental Consultants, Vadodara, Gujarat
5.Type of project	NA
6.New project/expansion in existing project/modernization/diversification in existing project	Violation Case
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot No. A – 42, MIDC Patalganga
9.Taluka	Khalapur
10.Village	Patalganga
Correspondence Name:	Mr. Sanjay Mhaske
Room Number:	Plot No. A – 42, MIDC Patalganga
Floor:	NA
Building Name:	Cipla Limited
Road/Street Name:	MIDC Patalganga
Locality:	Khalapur
City:	MIDC Patalganga
11.Whether in Corporation / Municipal / other area	MIDC Patalganga
12.IOD/IOA/Concession/Plan Approval Number	Plot allotment letter received from MIDC
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 34505
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.)	Industrial Plot Area: 34505 m2
16.Deductions	NA
17.Net Plot area	NA
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 34505
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 28-03-2001
19.Total ground coverage (m2)	NA
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	2807300000

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	NA	NA	NA
2	NA	NA	NA

23.Number of tenants and shops	NA
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	NA
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	NA
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	"API Products (200 TPA) Alfozosin Hydrochoride, Placitaxel, Ropinirole HCL/Irinotecan Hydrocloride Trihydrate, Desloratidine/Rapaglinide/Lecarnadipine, Azelastin / Proparacaine HCL, Miscllaneous Formulation, Telmisartan / Irbesartan, Guggelsterone / Gatifloxacin, Stavudine / Zidovudine, Glatiramer Acetate / Exemestane, Brimonidine, Moxifloxacin, Dorzalomide Hydrochloride, Efavirenz, Imiquimod, Valsartan / Abcavir, Dutasteride, Finasteride,Cetrizene Dihydrochloride, Tolteredine, Roxithromycin, Ranitidine Hydrochloride, Mirtazapine, Doxazosine Mesylate, Levo Salbutamol Sulphate, Perindropil Ebumine / Deferisivox, Ciprofloxacin HCL monohydrate, Brimonidine Tartarate, Levocetrizine/Ranolazine / Ranolizine Dihydrochloride+B10, Salmetrol Xinafoate, Ondansetron Hydrochloride Dihydrate, Valacyclovir Hydrochloride, Torsemide, Pregablin / Repiglinde, Dutasteride / Miratazapine / Rizatriptan Benzoate, Simvastatin, Tamsulusin Hydrochloride, Danazol, Terbutaline Sulphate, Valgancyclovir / Varricona	16.66	0	16.66

SEIAA-GETIDA-0000000408

32.Total Water Requirement

Dry season:	Source of water	NA
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	NA
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Wet season:	Source of water	NA
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	NA
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	30	0	30	10	0	10	20	0	20
Industrial Process	150	0	150	25	0	25	125	0	125
Cooling tower & thermopack	240	0	240	225	0	225	15	0	15

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Gardening	30	0	30	30	0	30	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	No RWH
	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) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	NA

35.Storm water drainage	**Natural water drainage pattern:**	South to North and north to east, West to east
	Quantity of storm water:	NA
	Size of SWD:	W: 2 ft; h: 3 ft

Sewage and Waste water	**Sewage generation in KLD:**	20
	STP technology:	Sewage is being sent to soak pit
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA

36.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:**	NA
	Wet waste:	NA
	Hazardous waste:	Details are provided in S. No. 45
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	Disposal of Hazardous Waste as per MPCB / CPCB norms. (details are provided Point No. 45 below)
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	Near ETP
	Area for the storage of waste & other material:	24 m2
	Area for machinery:	4579.08 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	8.35	7.84	5.5 - 9.0
2	Oil & Grease	mg/l	14	< 0.1	10
3	BOD	mg/l	638	13	100
4	TDS	mg/l	1910	38	2100
5	Suspended Solid	mg/l	198	29	100
6	COD	mg/l	1996	40	250

Amount of effluent generation (CMD):	160
Capacity of the ETP:	160
Amount of treated effluent recycled :	50
Amount of water send to the CETP:	110
Membership of CETP (if require):	We are member of PRIA CETP (I) LTD
Note on ETP technology to be used	Effluent treatment comprising of Primary, Secondary & Tertiary treatment system, RO , MEE
Disposal of the ETP sludge	ETP Sludge is being sent to MWML, Taloja for disposal by landfilling

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used /Spent oil	5.1	MT/Month	4	0	4	Sale to authorized party user/ Preprocessor or shall be sent to CHWTSDF
2	Residues and wastes	28.1	MT/Month	6	0	6	CHWTSDF
3	Spent catalyst/ spent carbon	28.2/28.3	MT/Month	6	0	6	CHWTSDF
4	Date-expired, discarded and off-specification drugs	28.4/28.5	MT/Month	1	0	1	CHWTSDF

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5	Spent mother liquor	28.4	MT/Month	59	0	59	Reuse/ Recovered in your Plant/ CHWTSDF
6	Spent organic solvents	28.6	MT/Month	70	0	70	Reuse/ Recovered in your Plant/ CHWTSDF
7	Chemical sludge, oil and grease skimming residues	35.4	MT/Month	24	0	24	CHWTSDF

39.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 (3.5 T/hr)	FO -130 Lit/day	1	32	1.1	150?C
2	Boiler 2 (3.5 T/hr) - Standby	FO -130 Lit/day	1	32	1.1	150?C
3	DG Set (1000 KVA)	HSD -250 Lit/hr	1	6.32	0.3	150?C
4	DG Set (1500 KVA)	HSD -350 Lit/hr	1	7.75	0.3	150?C
5	DG Set (1500 KVA)	HSD -350 Lit/hr	1	7.75	0.3	150?C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	FO for Boilers	260 Lit/Day	0	260 Lit/Day
2	HSD for DG Sets	950 Lit/hr	0	950 Lit/hr
41.Source of Fuel		Local Market		
42.Mode of Transportation of fuel to site		Tanker		

43.Green Belt Development	**Total RG area :**	Existing: 7947.27 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	NA
	List of proposed native trees :	NA
	Timeline for completion of plantation :	NA

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	NA	NA	NA	NA
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	NA	NA	NA

47.Energy

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Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	3700 KVA
	During Operation phase (Demand load):	2934 KVA
	Transformer:	2 Nos each of 2500 KVA
	DG set as Power back-up during operation phase:	DG Sets of 3 nos.:1010 kVA, 1500 kVA &1500 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar Energy - 5.24 Lakhs units Generated Till date through solar

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	SOLAR ENERGY	Total 4.64 LKWH is saved in FY 17-18 for PTG-SITE

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Adequate stck heights to stack to boilers and DG sets are provided and scrubbers to process vents are provided	NA
Water	Effluent Treatment Plant	NA
Noise	PPE, Acaustic Enclosure	NA
Solid Waste	Haz. Waste is being disposed to CHWTSDF	NA

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

51.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)

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1	Air Pollution Control	Scrubbers & Dust Collector	51.72	1.75
2	Water Pollution Control	ETP, RO ,MEE	445	136
3	Noise Pollution Control	Acoustic Enclosure to Blower and DG	20	2
4	Environment Monitoring and Management	Monitoring through MoEF approved Lab	NIL	4.5
5	Green Belt	Maintenance of Green belt.	15	17
6	Solid Waste Management	Handling and disposal at CHWTSDF	9.5	38

51.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
API STORES UNIT-II	NA	NA	36	NA	NA	NA	NA
UNDER GROUND/OVER HEAD TANK(SOLVENTS).	NA	NA	210	NA	NA	NA	NA
CORROSIVE MATERIAL SHED	NA	NA	4	NA	NA	NA	NA
DP STORES	NA	NA	17	NA	NA	NA	NA
NON-CLASSIFIED STORES	NA	NA	7	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA

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Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	NA
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	NA
	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) B
	Court cases pending if any	NO
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	09-09-2017

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SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	Not Applicable
Drainage pattern of the project	Not Applicable
Ground water parameters	Not Applicable
Solid Waste Management	Not Applicable

Air Quality & Noise Level issues	Not Applicable
Energy Management	Not Applicable
Traffic circulation system and risk assessment	Not Applicable
Landscape Plan	Not Applicable
Disaster management system and risk assessment	Not Applicable
Socioeconomic impact assessment	Not Applicable
Environmental Management Plan	Not Applicable
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

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PP submitted application under violation category as per Notification issued by MoEF&CC dated 08.03.2018.

PP presented the proposal for ToR as per standard ToR issued by MoEF&CC in April 2015 and Notification issued on 08.03.2018 in 154th meeting of SEAC-1 held on 30.08.2018 wherein ToR was grnated to the PP along with follwing additional ToR points.

1. PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.

2. PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.

3. PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc

4. PP to submit project site details (location, top sheet of the study area of 10 km, coordinates, Google map, layout map, land use, geological features and geo hydrological status of the study area, drainage pattern etc.)

5. PP to submit details of Forest and Wild Life ecosensitive zones if nay in the study area and within the range of 5 km.

6. Land use of the study area delineating forest area, agricultural land, grazing land, wild life sanctuary, national parks, migratory routes of fauna, water bodies, human settlement and other ecological features to be indicated in the report

7. PP to submit details of likely impact of the proposed project and work carried out without obtaining prior Environment Clearance on the environmental parameters (ambient air, surface and ground water, land, flora and fauna, ambient noise, climate change and socio economic etc.)

8. PP to assess ecological damage with respect to the air, water, land and other environmental attributes. The collection and analysis of data shall be done by an Environmental Laboratory accredited by NABL or a laboratory of a council of Scientific and Industrial Research (CSIR) Institution working in the field of Environment.

9. PP to prepare an EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation

10. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultant.

11. PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.

12. PP to carry out HAZOP and QRA and submit Disaster Management Plan

13. PP to provide new and renewable energy sources for the illumination of the office building and street lights.

Now PP submitted EIA/EMP report for appraisal.

DECISION OF SEAC

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During deliberations, PP requested to postpone the case.

Hence, deferred.

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
3) PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc
4) PP to submit project site details (location, top sheet of the study area of 10 km., coordinates, Google map, layout map, land use, geological features and geo hydrological status of the study area, drainage pattern etc.)
5) PP to submit details of Forest and Wild Life ecosensitive zones if nay in the study area and within the range of 5 km
6) Land use of the study area delineating forest area, agricultural land, grazing land, wild life sanctuary, national parks, migratory routes of fauna, water bodies, human settlement and other ecological features to be indicated in the report.
7) PP to submit details of likely impact of the proposed project and work carried out without obtaining prior Environment Clearance on the environmental parameters (ambient air, surface and ground water, land, flora and fauna, ambient noise, climate change and socio economic etc.)
8) PP to assess ecological damage with respect to the air, water, land and other environmental attributes. The collection and analysis of data shall be done by an Environmental Laboratory accredited by NABL or a laboratory of a council of Scientific and Industrial Research (CSIR) Institution working in the field of Environment.
9) PP to prepare an EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
10) The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultant.
11) PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
12) PP to carry out HAZOP and QRA and submit Disaster Management Plan.
13) PP to provide new and renewable energy sources for the illumination of the office building and street lights

FINAL RECOMMENDATION

SEAC-I decided to defer the proposal.Kindly find SEAC decision above.

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SEAC Meeting number: 180 **Meeting Date** March 3, 2020

Subject: Environment Clearance for Environment Clearance for: Existing Formulation & API Manufacturing Plant at Plot No. A – 33, A – 37/2/2, MIDC Patalganga, Khalapur, District Raigad, Maharashtra by M/s. Cipla Limited

Is a Violation Case: Yes

1.Name of Project	Environmental Clearabce for Existing Formulation & API Manufacturing Plant at Plot No. A – 33, A – 37/2/2, MIDC Patalganga, Khalapur, District Raigad, Maharashtra by M/s. Cipla Limited
2.Type of institution	TOR
3.Name of Project Proponent	Cipla Limited
4.Name of Consultant	Kadam Environmental Consultants, Vadodara, Gujarat
5.Type of project	NA
6.New project/expansion in existing project/modernization/diversification in existing project	Violation Case
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Plot No. A – 33, A – 37/2/2
9.Taluka	Khalapur
10.Village	Patalganga
Correspondence Name:	Mr. Sanjay Mhaske
Room Number:	Plot No. A – 33, A – 37/2/2
Floor:	NA
Building Name:	Cipla Limited
Road/Street Name:	MIDC Patalganga
Locality:	Khalapur
City:	MIDC Patalganga
11.Whether in Corporation / Municipal / other area	MIDC Patalganga
12.IOD/IOA/Concession/Plan Approval Number	Plot allotment letter received from MIDC
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 29292
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.)	Industrial Plot Area: 29292 m2
16.Deductions	NA
17.Net Plot area	NA
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 29292
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 22-12-1987
19.Total ground coverage (m2)	NA
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	1576100000

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	NA	NA	NA

23.Number of tenants and shops	NA
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	NA
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	NA
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)

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1	BULK DRUGS (Acyclovir USP/ Valacicclovir HCL, Albuterol Sulphate USP XXII, Androstenediol/ Androstenedione, Alprazolam USP/Budesodine/ Alendronate Sodium Trihydene, Amlodipine Besylate/ Azithromycine/ Atenolol/ Aluminium Nicotinate, 1e alpha Bromoepiride/ LevocetrizineDihydrochloride, Clarithromycine USP, Cyporoterone Acetate/ Candocuromimumlodide, Danazol USP/ IP/ Doxazoain Peso late, Trazodone Hydrochloride/ Cetrinisaetan, Deferiprone/ dicloferric ethyl ammonium salt, Estramustine Sodium phosphate, FelodipineSalometerolXinafoat, FinastarideelFluconazol, Flusticasone Propionate, Guegulpid/ terazosin Hydrovhloride, Plurbiprofen BP/USP, Ketorolac Tromethamine/ Rafoxanide, Lansoprazole/ Lamotrigine/ Hypochloride, Mefloquime Hydrochloride/ Mirtazapine, Metoprolol Tartrate USP, Methocabamol USP, Moclobemide/ Pefloxacin/ Montelucast, Nifedione/ Fenhendazole/ Felodipine, Norfloxacin/ Enorflaxacine, Enorfloxacine hydrochloride Ciprofloxacine, Ciprofloxacine HCL Menohydrate, Ondansetron Hydro	12	0	12

32.Total Water Requirement

Dry season:	**Source of water**	NA
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	NA
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA

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Wet season:	**Source of water**	NA
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	NA
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	90	0	90	30	0	30	60	0	60
Industrial Process	290	0	290	100	0	100	190	0	190
Cooling tower & thermopack	130	0	130	120	0	120	10	0	10
Gardening	70	0	70	70	0	70	0	0	0
Fresh water requirement	580	0	580	0	0	0	0	0	0

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Rain water from roof top is being used in cooling tower.
	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) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	South to closed towrds north and the flows out ofpremises towards west side
	Quantity of storm water:	NA
	Size of SWD:	W: 2 ft; h: 3 ft
Sewage and Waste water	**Sewage generation in KLD:**	60
	STP technology:	Sewage is being treated in ETP along with Industrial effluent
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA
36.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:**	NA
	Wet waste:	NA
	Hazardous waste:	Details are provided in S. No. 45
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	Near Gate number 2
	Area for the storage of waste & other material:	24 m2
	Area for machinery:	5990.93 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	6 lacs
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	ph	--	8.15	7.82	5.5 - 9.0
2	Oil & Grease	mg/l	12	< 0.1	10
3	BOD	mg/l	1537	18	100
4	TDS	mg/l	3640	422	2100
5	Suspended Solid	mg/l	136	26	100
6	COD	mg/l	4391	56	250
7	Chlorides	mg/l	568.25	158.09	600
8	Total Ammonical Nitrogrn	mg/l	9.8	1.84	50

Amount of effluent generation (CMD):	260 KLD
Capacity of the ETP:	260 KLD
Amount of treated effluent recycled :	60 KL
Amount of water send to the CETP:	200 KLD
Membership of CETP (if require):	We are member of PRIA CETP (I) LTD
Note on ETP technology to be used	Effluent treatment comprising of Primary, Secondary & Tertiary treatment system RO , MEE
Disposal of the ETP sludge	ETP Sludge is being sent to MWML, Taloja for disposal by landfilling

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Residues and wastes	28.1	MT/Month	25	0	25	For incineration at MWML
2	Spent catalyst/ spent carbon	28.2	MT/Month	10	0	10	For authorized Reprocessor/ incineration MWML
3	Date-expired, discarded and off-specification drugs	28.4/28.5	MT/Month	1	0	1	For incineration at MWML

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4	Spent mother liquor Spent organic solvents	28.6	MT/Month	129	0	129	For incineration at MWML, Sale to authorized Reprocessor
5	Chemical sludge, oil and grease skimming residues	35.4	MT/Month	24	0	24	Landfill at MWML
6	Used/ spent oil	5.1	MT/Month	4	0	4	Sale to Authorized Reprocessor

39.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 (2 T/hr)	FO/LDO -1350 Lit/day	1	35	1.1	150?C
2	Boiler 2 (2 T/hr) - Standby	FO/LDO -1350 Lit/day	1	35	1.1	150?C
3	DG Set (625 KVA)	HSD -122 Lit/hr	1	5	0.3	150?C
4	DG Set (1010 KVA)	HSD -180 Lit/hr	1	6.3	0.3	150?C
5	DG Set (1510 KVA)	HSD -231 Lit/hr	1	7.7	0.3	150?C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	FO/HSD for Boilers	2700 Lit/Day	0	2700 Lit/Day
2	HSD for DG Sets	533 Lit/hr	0	533 Lit/hr
41.Source of Fuel		Local Market		
42.Mode of Transportation of fuel to site		Tanker		

43.Green Belt Development	**Total RG area :**	Existing: 4785 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	NA
	List of proposed native trees :	NA
	Timeline for completion of plantation :	NA

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	NA	NA	NA	NA
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	NA	NA	NA

47.Energy

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Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	6152 kw
	During Operation phase (Demand load):	2255 kva
	Transformer:	1000 kva ,1000 kva and 1250 kva
	DG set as Power back-up during operation phase:	DG Sets of 3 nos.:625 kVA, 1010 kVA & 1510 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Adequate stck heights to stack to boilers and DG sets are provided and scrubbers to process vents are provided	NA
Water	Effluent Treatment Plant	NA
Noise	PPE, Acaustic Enclosure	NA
Solid Waste	Haz. Waste is being disposed to CHWTSDF	NA

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

51.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)

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1	Air Pollution Control	Scrubbers & Dust Collector	88.8	163.2
2	Water Pollution Control	ETP, RO ,MEE	644	120
3	Noise Pollution Control	Acoustic Enclosure to Blower and DG	10	1.5
4	Environment Monitoring and Management	Monitoring through MoEF approved Lab	Nil	4.2
5	Green Belt	Maintenance of Green belt.	15	17
6	Solid Waste Management	Handling and disposal at CHWTSDF	5	75

51.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
Solvent Yard I	Underground storage	NA	105.00 KL	NA	NA	NA	NA
Solvent Yard II	Underground storage	NA	72.00 KL	NA	NA	NA	NA
D.P Store	NA	NA	50 KL	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA

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Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	NA
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	NA
	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) B
	Court cases pending if any	No
	Other Relevant Informations	NIL
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	09-09-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	Not Applicable
Drainage pattern of the project	Not Applicable
Ground water parameters	Not Applicable
Solid Waste Management	Not Applicable

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Air Quality & Noise Level issues	Not Applicable
Energy Management	Not Applicable
Traffic circulation system and risk assessment	Not Applicable
Landscape Plan	Not Applicable
Disaster management system and risk assessment	Not Applicable
Socioeconomic impact assessment	Not Applicable
Environmental Management Plan	Not Applicable
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

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PP submitted application under violation category as per Notification issued by MoEF&CC dated 08.03.2018.

PP presented the proposal for ToR as per standard ToR issued by MoEF&CC in April 2015 and Notification issued on 08.03.2018 in 154th meeting of SEAC-1 held on 30.08.2018 wherein ToR was grnated to the PP along with follwing additional ToR points.

1. PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.

2. PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.

3. PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc

4. PP to submit project site details (location, top sheet of the study area of 10 km, coordinates, Google map, layout map, land use, geological features and geo hydrological status of the study area, drainage pattern etc.)

5. PP to submit details of Forest and Wild Life ecosensitive zones if nay in the study area and within the range of 5 km.

6. Land use of the study area delineating forest area, agricultural land, grazing land, wild life sanctuary, national parks, migratory routes of fauna, water bodies, human settlement and other ecological features to be indicated in the report

7. PP to submit details of likely impact of the proposed project and work carried out without obtaining prior Environment Clearance on the environmental parameters (ambient air, surface and ground water, land, flora and fauna, ambient noise, climate change and socio economic etc.)

8. PP to assess ecological damage with respect to the air, water, land and other environmental attributes. The collection and analysis of data shall be done by an Environmental Laboratory accredited by NABL or a laboratory of a council of Scientific and Industrial Research (CSIR) Institution working in the field of Environment.

9. PP to prepare an EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation

10. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultant.

11. PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.

12. PP to carry out HAZOP and QRA and submit Disaster Management Plan

13. PP to provide new and renewable energy sources for the illumination of the office building and street lights.

Now PP submitted EIA/EMP report for appraisal.

DECISION OF SEAC

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During deliberations, PP requested to postpone the case.

Hence. deferred.

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
3) PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc.
4) PP to submit project site details (location, top sheet of the study area of 10 km., coordinates, Google map, layout map, land use, geological features and geo hydrological status of the study area, drainage pattern etc.)
5) PP to submit details of Forest and Wild Life ecosensitive zones if nay in the study area and within the range of 5 km.
6) Land use of the study area delineating forest area, agricultural land, grazing land, wild life sanctuary, national parks, migratory routes of fauna, water bodies, human settlement and other ecological features to be indicated in the report.
7) PP to submit details of likely impact of the proposed project and work carried out without obtaining prior Environment Clearance on the environmental parameters (ambient air, surface and ground water, land, flora and fauna, ambient noise, climate change and socio economic etc.)
8) PP to assess ecological damage with respect to the air, water, land and other environmental attributes. The collection and analysis of data shall be done by an Environmental Laboratory accredited by NABL or a laboratory of a council of Scientific and Industrial Research (CSIR) Institution working in the field of Environment.
9) PP to prepare an EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
10) The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultant.
11) PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
12) PP to carry out HAZOP and QRA and submit Disaster Management Plan.
13) PP to provide new and renewable energy sources for the illumination of the office building and street lights.

FINAL RECOMMENDATION

SEAC-I decided to defer the proposal.Kindly find SEAC decision above.

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SEAC Meeting number: 180 **Meeting Date** March 3, 2020

Subject: Environment Clearance for Production Capacity Enhancement of Perfumery Chemicals & Fine Chemicals Manufacturing Unit of Harmony Organics Pvt. Ltd. at Plot No. D-5, MIDC Kurkumbh.

Is a Violation Case: No

1.Name of Project	Harmony Organics Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Ravi Nangia
4.Name of Consultant	Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Expansion of Perfumery Chemicals & Fine Chemicals manufacturing unit under Schedule 5 (f) of EIA Notification 2006, Category B -1.
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in Existing Unit
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot No. D-5, Kurkumbh MIDC
9.Taluka	Daund
10.Village	Kurkumbh
Correspondence Name:	Mr. Ravi Nangia
Room Number:	126
Floor:	--
Building Name:	Fortune Estates
Road/Street Name:	Indraprashta Society near Aakshwani
Locality:	Hadapsar
City:	Pune-411028
11.Whether in Corporation / Municipal / other area	Kurkumbh MIDC
12.IOD/IOA/Concession/Plan Approval Number	--
	IOD/IOA/Concession/Plan Approval Number: No. DE/KUR/PLAN/ D – 28975 /' Of 2019
	Approved Built-up Area: 6816.45
13.Note on the initiated work (If applicable)	Currently manufacturing unit is present on plot
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	24,200 m2
16.Deductions	--
17.Net Plot area	--
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** --
	b) Non FSI area (sq. m.): --
	c) Total BUA area (sq. m.): 6816.45
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** --
	Approved Non FSI area (sq. m.): --
	Date of Approval: 17-01-2019
19.Total ground coverage (m2)	--
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	--
21.Estimated cost of the project	490000000

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Plant No. 1 (Existing)	1	11.5
2	Plant No. 2 (Existing)	2	14
3	Plant No. 3 (New)	2	12.5
4	Plant No. 4 (New)	2	12.5
5	Plant No. 5 (New)	2	12.5
6	Plant No. 6 (New)	1	31.5

23.Number of tenants and shops	NA
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	35 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Full-fledged manufacturing unit for Perfumery Chemicals & Fine Chemicals is present on project plot
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Methyl Pentenone	30.0	150.0	180.0
2	Cinnamic Aldehyde & Its Derivatives	30.0	220.0	250.0
3	Epoxy Ethyl Benzene (EEB)	40.0	10.0	50.0
4	Phenyl Ethyl Alcohol (Phenyl Ethyl Alcohol & It's Derivatives	40.0	960.0	1000.0
5	1,3 Butylene glycol (1,3 BG Crude)	--	120.0	120.0
6	1,3 Butylene glycol (1,3 BG Distillate)	--	60.0	60.0
7	Styrallyl Acetate & Other such aromatic chemicals	--	200.0	200.0

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8	Hydrogen	--	30.0	30.0
9	Para Anisyl Acetate	2.5	Product will be discontinued	--
10	Para Anisic Aldehyde (PPA) PG	5.0	Product will be discontinued	--
11	Para Cresyl Methyl Ether (PCEM) PG	6.66	Product will be discontinued	--
12	Methyl Pentenone (MPO) [Only by purification & distillation process]	150.0	Product will be discontinued	--
13	Phenyl Ethyl Alcohol (PEA) [Only by purification & distillation process]	200.0	Product will be discontinued	--
14	Recovered Sodium Chloride (By-product)	--	726.0	726.0
15	Recovered Sodium Sulfate (By-product)	--	70.0	70.0
16	Low Purity Distilled Products	--	150.0	150.0
17	Technical Grade Phenyl Ethyl Alcohol	--	150.0	150.0
18	High Boilers Distilled Products	--	175.0	175.0

32.Total Water Requirement

Dry season:	**Source of water**	Kurkumbh MIDC
	Fresh water (CMD):	469.6 (1st Cycle Requirement) , 154.45 (2nd Cycle Onward)
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	469.6 (1st Cycle Requirement) , 154.45 (2nd Cycle Onward)
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	200 KL (Capacity of Tank)
	Excess treated water	Not applicable

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Wet season:	**Source of water**	Kurkumbh MIDC
	Fresh water (CMD):	445.6 (1st Cycle Requirement), 122.65 (2nd Cycle Onward)
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	445.6 (1st Cycle Requirement), 122.65 (2nd Cycle Onward)
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	200 KL (Capacity of Tank)
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	6.0	10.1	16.10	2.0	1.22	3.22	4.0	8.88	12.88
Industrial Process	10.0	65.0	75.0	5.8	--	--	4.2	149.8	154 (79 CMD is generated from process)
Cooling tower & thermopack	102.0	252.5	354.5	89	81.9	170.9	13.0	26.6	39. 6 (Boiler condensate recovery 144 CMD)
Gardening	2.0	22.0	24.0	2.0	22.0	24.0	--	--	--

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre-monsoon - 7.48 mbgl & Post monsoon - 3.76 mbgl for Daund Taluka (As per GSDA, Govt. of Maharashtra and CGWB Govt. of India Report).
	Size and no of RWH tank(s) and Quantity:	15 m3 x 1 no.
	Location of the RWH tank(s):	Above the UG MIDC water storage tank
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 7.5 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.75 Lakh/Annum
	Details of UGT tanks if any :	MIDC water storage tank of 470.0 m3
35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	2178 m3/hr.
	Size of SWD:	Width = 0.23 m, Depth = 0.75 m, Capacity of SWD = 13032 m3
Sewage and Waste water	**Sewage generation in KLD:**	12.88 m3/day
	STP technology:	Domestic sewage will be sent to ETP
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction activity related waste will be generated.
	Disposal of the construction waste debris:	Recyclable waste such as left over metal roads, card boards, wooden flanks, boxes will be sold to recycler & inert debris will be used as filling material within project plot .
Waste generation in the operation Phase:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	1) MEE salt – 100 T/M, 2) ETP Sludge – 18T/M, 3) Packing waste material – 0.5 T/M, 4) Empty drums, Carboys, Containers - 250 (Units/Month).
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	MEE Salt, ETP Sludge, & Packaging Waste Material will be sent to Maharashta Envro Power Ltd. – CHWTSDF, Ranjangaon and Empty Drums, Carboys & Containers will be recycled through MPCB authorized vendor.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	South East Corner of Plot
	Area for the storage of waste & other material:	100 m2
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	1.16	7.10	5.5 - 9
2	SS	mg/l	5,228.0	BDL	100.0
3	TDS	mg/l	2,96,058.0	165.30	2100.0
4	BOD (27 degree C)	mg/l	9,710.0	27.0	30.0
5	COD	mg/l	28,800.0	125.0	250.0

Amount of effluent generation (CMD):	206.48
Capacity of the ETP:	ETP - 200 CMD, MEE - 200 CMD & R.O - 230 CMD
Amount of treated effluent recycled :	Recycled effluent - 171.15 (R.O Permeate), Boiler condensate recovery - 144.0 CMD
Amount of water send to the CETP:	Existing permitted quantity of treated effluent is sent to CETP, after expansion activity the unit will be ZLD unit wherein total treated effluent will be completely recycled.
Membership of CETP (if require):	HOPL is having membership of Kurkumbh CETP.
Note on ETP technology to be used	1) HCOD-HTDS effluent from manufacturing process, scrubber blow down & R.O reject will be subjected to MEE. 2) LCOD- LTDS effluent comprising of boiler, cooling tower blow downs & domestic sewage will be subjected full-fledged ETP comprising of primary, secondary & tertiary treatment scheme followed by R.O
Disposal of the ETP sludge	Maharashtra Enviro Power Ltd. - CHWTSDF, Ranjangaon.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	MEE Salt	37.3	T/M	--	100.0	100.0	CHWTSDF, Ranjangaon
2	ETP Sludge	35.3	T/M	0.25	17.75	18.0	CHWTSDF, Ranjangaon
3	Packing waste material	33.1	T/M	0.1	0.4	0.5	CHWTSDF, Ranjangaon

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4	Empty Drums, Carboys, Containers	33.1	Units/M	100.0	150.0	250.0	Recycle through MPCB Authorized Vendor

39.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	Process Scrubber	--	1	11	0.15	--
2	4 TPH Steam Boiler	Coal - 638.3 kg/hr.	2	32.5	0.96	112 oC
3	10 TPH Steam Boiler	Coal – 1595.7 kg/hr.	3	40	1.145	112 oC
4	D.G - 500 kVA	High Speed Diesel - 50 l/hr.	4	4.5	0.45	185 oC
5	D.G - 500 kVA	High Speed Diesel - 50 l/hr.	5	4.5	0.45	185 oC
6	D.G - 500 kVA	High Speed Diesel - 50 l/hr.	6	4.5	0.45	185 oC
7	D.G - 500 kVA	High Speed Diesel - 50 l/hr.	7	4.5	0.45	185 oC

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	19.0 MT/D	56.0 MT/D	75.0 MT/D
2	High Speed Diesel	20.0 l/hr.	200.0 l/hr.	200.0 l/hr.
41.Source of Fuel		Local vendor		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	7987.35 m2
	No of trees to be cut :	--
	Number of trees to be planted :	603
	List of proposed native trees :	Heterophragma quadriloculare, Oroxylum indicum, Nerium oleander, Schleichera oleosa, Terminalia elliptica, Terminalia paniculata, Alstonia scholaris, Butea monosperma, Erythrina variegata, Cassia fistula, Helicteres isora, Tabernaemontana alternifolia, Macaranga peltata, Azadirachta indica, Bridelia retusa, Bombax ceiba, Pterospermum acerifolium, Cordia dichotoma, Neolamarckia cadamba, Firmiana colorata, Millingtonia hortensis .
	Timeline for completion of plantation :	Within 1 year from grant of EC.

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Heterophragma quadriloculare	Waras	29	A native tree with large leaf area which helps in dust settling
2	Oroxylum indicum	Tetu	29	A native ornamental tree
3	Nerium oleander	Kaner	29	A native drought resistant hardy species, with fragrant flowers

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4	Schleichera oleosa	Kusum	29	A native tree found in abundance in Sahyadris
5	Terminalia elliptica	Ain	29	A native evergreen broad leaved tree common in the Sahyadris
6	Terminalia paniculata	Kinjal	29	A native tree having large distribution in Sahyadris
7	Alstonia scholaris	Saptaparni	29	A native evergreen tree having high dust settling index
8	Butea monosperma	Palash	29	A native brilliantly flowering tree fairly common and abundant across the Pune District
9	Erythrina variegata	Panghara	29	A highly valued native ornamental tree
10	Cassia fistula	Bahava	29	A native ornamental tree with excellent bloom
11	Helicteres isora	Murudsheng	29	A native shrub extensively found in the tracts & plains of sahyadri used as roost plant by variety of birds
12	Tabernaemontana alternifolia	Naagkuda	29	A native flowering tree
13	Macaranga peltata	Chandwar	29	A native tree found in abundance across the Sahyadri range
14	Azadirachta indica	Neem	29	A native evergreen tree known for plantation in polluted area
15	Bridelia retusa	Asana	29	Native evergreen tree
16	Bombax ceiba	Sawar	29	Native ornamental tree
17	Pterospermum acerifolium	Muchkund	29	A native evergreen tree used for ornamental plantations
18	Cordia dichotoma	Shelu	29	Native deciduous tree
19	Neolamarckia cadamba	Kadamba	29	A native evergreen tree with thick canopy
20	Firmiana colorata	Kaushi	29	Brilliantly blooming native tree
21	Millingtonia hortensis	Kaval nimb	23	Brilliantly blooming native tree
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	NA	NA	NA

47.Energy

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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):	2550 kW
	During Operation phase (Demand load):	2450 kVA
	Transformer:	300 kVA
	DG set as Power back-up during operation phase:	500 kVA x 4 Nos.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy saving will be achieved by installing solar lights within project premises.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar street lights	47 Nos.

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Waste water generated form industrial activities	ETP of 10 CMD along with MEE 24 CMD & Sewage passed through Septic Tank and taken to ETP	Up gradation of ETP to 200 CMD capacity & MEE to 200 CMD capacity & installation of R.O of 230 CMD capacity
Manufacturing process	--	Installation of process scrubber of 2000 CFM capacity
Existing 1.5 & 4.5 TPH Steam Boilers	Common stack of 32.5 m height	Stack of 32. 5 m height for 4.5 TPH Steam Boiler. Note: Existing steam boiler of 1.5 will be sold out
Proposed 10 TPH Steam Boiler	--	New stack of 40.0 m height
D.G - 250 kVA	Stack of 3.5 height	This D. G will be sold out
D.G - 500 kVA	--	Stack of 4.5 m height
D.G - 500 kVA	--	Stack of 4.5 m height
D.G - 500 kVA	--	Stack of 4.5 m height
D.G - 500 kVA	--	Stack of 4.5 m height

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 6.5 Lakh
	O & M cost:	Rs. 0.3 Lakh/Annum

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51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Particulate matter (Dust Suppression measures)	1.5 (Up to construction phase)
2	Noise	PPE's (Ear plugs)	0.25 (Up to construction phase)
3	Waste management	Inert waste materials (Dedicate storage provision)	0.25 (Up to construction phase)

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	Installation of 1 No. process scrubber of 2000 CFM capacity, Provision of new stack of 40 m & Cyclone Dust Collector and Bag Filter for proposed steam boiler of 10 TPH	70.0	10.0
2	Water	Up gradation of ETP to 200 CMD capacity & MEE to 200 CMD capacity & installation of R.O of 230 CMD capacity	350.0	30.45
3	Noise	Installation of anti-vibration pads for machineries, & Construction of enclosures for D.G's & Steam Boilers	10.0	0.5
4	Solid Waste Management	Purchase of additional containers/bags for storage of solid waste, concrete paving of hazardous waste storage area	2.5	0.75
5	Environment Monitoring	Periodic moitoring of various environmental components & parameters	--	10.0
6	Rain Water Harvesting System	Installation of RWH system & annual cleaning and maintenance of RWH tank	7.5	0.75
7	Energy Conservation	Installation of solar lights within project premises	6.5	0.3
8	Green Belt	Development & maintenance of green belt	5.5	2.77920

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9	Occupational Health	Purchase of PPE's for additional man power & annual health checkup of workers	6.0	1.5

51.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
Styrene	Liquid	UG storage tank (PESO area)	100.0	100.0	1200.0	Import via. Kandla & JNPT	Road Tanker
Hydrogen peroxide (50%)	Liquid	AG tank (Tank farm)	100.0	100.0	860.0	Domestic	Road Tanker
Sodium Hydroxide (50%)	Liquid	AG tank (Tank farm)	100.0	100.0	900.0	Domestic	Road Tanker
Hydrochloric acid	Liquid	AG tank (Tank farm)	100.0	100.0	1400.0	Domestic	Road Tanker
Hydrogen gas	Gas	Hydrogen Bank	30 T generation capacity	4000 m3 hydrogen cylinder bank 3 nos.	25.0	In house generation	--
Sodium bicarbonate	Solid/ Powder	RM Store	50 kg/bag (100 bags)	5.0	20.0	Domestic	Road Truck
NaOH flakes	Solid	RM Store	50 kg/Bag (100 bags)	5.0	10.0	Domestic	Road Truck
Methanol	Liquid	UG storage tank (PESO area)	25.0	25.0	300.0	Imports	Road Tanker
Acetaldehyde	Liquid	AG tank (Tank farm)	30.0	60.0	365.0	Domestic	Road Tanker
Methyl Ethyl Ketone	Liquid	UG storage tank (PESO area)	50.0	50.0	175.0	Domestic	Road Tanker
Sulfuric Acid (98%)	Liquid	AG tank (Tank farm)	12.0	12.0	55.0	Domestic	Road Tanker
Sodium Carbonate	Solid	RM store	50 kg HDPE bag (400 bags)	20.0	30.0	Domestic	Road Tanker
Acetaldol	Liquid	AG tank (Tank farm)	40.0	30.0	120.0	Domestic	Road Tanker
Benzaldehyde	Liquid	AG tank (Tank farm)	80 KL (2 tanks of 40 KL)	80.0	650	Domestic	Road Tanker
Toluene	Liquid	RM Store	10.0	10.0	10.0	Imports	Road Tanker
Acetophenone	Liquid	AG tank (Tank farm)	10.0	10.0	50.0	Domestic	Road Tanker

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	--

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Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	2431.46 m2
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	--
	Width of all Internal roads (m):	6 m
	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	NA
	Court cases pending if any	NA
	Other Relevant Informations	1) Water Balance (Cooling Tower & Boiler): Consumption = 354.5 CMD, Losses = 170.9, Effluent = 39.6, 354.5 – 170.9-39.6 = 144 CMD (Boiler Condensate recovery). 2) Dry season water requirement: 1st cycle = 469.6 CMD, Treated effluent recycle = 171.15 CMD, Boiler condensate recovery = 144 CMD, Total quantity of recycle = 171.15 + 144 = 315.15 CMD, thus cycle onward water requirement = 469.6 – 315.15 = 154.45 CMD. 3) Wet season water requirement: 1st cycle = 469.6 CMD - 24 CMD = 445.6 CMD (Watering is not required for green belt during wet season), Treated effluent recycle = 171.15 CMD, Boiler condensate recovery = 144 CMD, Harvested rain water = 7.8, Total quantity of recycle = 171.15 + 144 + 7.8 = 322.95 CMD, thus cycle onward water requirement = 445.6 – 322.95 = 122.65 CMD. 4) Production quantity: Production of 350 MT/M by distillation & purification process & other 3 nos. of existing products to the tune of 14.16 MT/M will be stopped, thus total production capacity = 504.16 -364.16 + 1750.00 = 1890 MT/M.
	Have you previously submitted Application online on MOEF Website.	Yes

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	Date of online submission	20-09-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes 100% Zero Liquid Discharge Effluent Treatment Plant.
Drainage pattern of the project	PP considered contour levels during design of storm water drains.
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits.
Solid Waste Management	PP committed to dispose the hazardous waste at Common Hazardous Waste Treatment, Storage, and Disposal Facility and sale to Authorized vendors. Details are given at Sr. No. 38 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for project is 2450 KVA which will be supplied by MSEDCL. PP proposes four numbers of DG sets with capacity 500 KVA
Traffic circulation system and risk assessment	PP proposes internal roads with minimum six meter width and nine meters of turning radius for smooth circulation of traffic.
Landscape Plan	PP provided 33% green belt within the premises.
Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment and submitted DMP.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes Rs. 2.00 Lakhs during construction phase and Rs. 458.00 Lakhs as capital cost and Rs. 56.50 Lakhs as recurring EMP cost for the maintenance of environmental parameters during operation phase.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

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PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006 for the expansion of their existing manufacturing plant. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 in the 163rd meeting of SEAC-1 held on 13.03.2019 wherein ToR was grnated to the PP with following additional points.

1. PP to submit certificate of incorporation of the company, list of board of directors and memorandum of articles.

2. PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.

3. PP to carry out life cycle analysis of the activities carried out on site with respect to the acidification potential, eutrophication potential, green house and ozone depletion potential etc and proposed mitigation measures to reduce the identified potentials.

4. PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.

5. PP to include detailed water balance calculations along with design details of zero liquid discharge ETP in the EIA report.

6. PP to carry out HAZOP and QRA and submit disaster management plan.

7. PP to submit hazardous chemical handling protocol

8. PP to include details of generation and disposal of hazardous waste including by - products as per Hazardous and other waste (Management and Transboundry Movement) Rules, 2016 in the EIA report.

9. PP to submit details of Indian/international standards with respect to the human health hazards applicable for the prefumary manufacturing and also to submit comparative statement for the quality of proposed prodicts against the Indian/Internation standards.

10. PP to include water and carbon foot print monitoring in the EMP.

11. PP to submit technical note on how proposed expansion will be accommodated in the existing manufacturing plant along with equipment layout, spaces required for storage of raw materials and finished products etc.

12. PP to submit structural stability certificate of existing building with respect to the proposed expansion.

13. PP to use new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly PP to provide lightening arrestor.

14. PP to prepare the Legal Register with respect to compliance of various Acts , Rules and Regulations applicable to the manufacturing activities.

As the industry is located in the notified industrial area/estate (MIDC), Public Hearing is exempted under the provisions as per para 7 III Stage (3) (b) of the EIA Notification, 2006

The validity of the TOR will be for three years as per OM issued by MoEF and CC on 29.08.2017.

PP to submit Form - 2 along with EIA/EMP report as per OM issued by MoEF&CC on 20.04.2018.

PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

PP submitted EIA/EMP reports for appraisal in 174th meeting of SEAC- 1 held on 02.01.2020 wherein the proposal was deferred till submission of follwing points.

1. PP to submit revised layout showing green belt area calculations and roads with six meter width and nine meter turning radius.

2. PP to submit legible copy of contour plan.

3. PP to submit commitment to comply with the recommendation of the HAZOP and Risk Assessment study.

4. PP to submit copy of point wise compliance of the consent condition obtianed from MPCB.

5. PP to submit their plan to implement CER as approved by the District Authority.

Now PP submitted compliance of above points.

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DECISION OF SEAC

After deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposla for prior Environment Clearance subject to the follwing conditions.

Specific Conditions by SEAC:

1) PP to establish well qualified Environment, Health and Safety cell immediately.
2) PP to provide 100% Zero Liquid Discharge ETP before commencing of the proposed expansion activity.
3) PP to include carbon and water foot print monitoring in their management plan.
4) PP to implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.

FINAL RECOMMENDATION

SEAC-I have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions

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