In view of sudden increase in present pandemic situation of COVID-19 , Maharashtra SEIAA directed SEAC-1 to appraise the proposals by using information technology facilities. Hence, SEAC-1 initiated to appraise the proposals received by the SEIAA through Videoconferencing technology on Cisco Webex platform.

Following members of SEAC-I were present for videoconference meeting.

Dr. Vijay Kulkarni	Chairman
Dr. Chandrashekhar Marathe	Expert Member
Shri. Jeevan Patgaonkar	Expert Member
MS. Kavita Takale	Expert Member
Shri. Abhay Pimparkar	Secretary

Leave of Absence was granted to Shri. Kundan Deshmukh, Expert Member.

Agenda of 205th Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 205th (Day-3) **Meeting Date** September 9, 2021

Subject: Environment Clearance for Environment Clearance (EC) for proposed expansion of Existing Bulk Drugs and Intermediates (API) Manufacturing unit from 150 MT/Yr. to 220 MT/Yr. - Application for Grant of ToRs.

Is a Violation Case: No

1.Name of Project	M/s. CIPLA LIMITED (Unit-III)
2.Type of institution	Private
3.Name of Project Proponent	Mr. Mangesh Vaze. (Senior Technical Director)
4.Name of Consultant	Equinox Environments (India) Private Limited (EEIPL)
5.Type of project	Other - Industrial
6.New project/expansion in existing project/modernization/diversification in existing project	Proposed expansion project of Existing Bulk Drugs and Intermediates (API) Manufacturing unit
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, Environmental Clearance (EC) from MoEF, New Delhi dated 13.10.2005.
8.Location of the project	Unit - III, Plot No. - D - 22, MIDC Kurkumbh, Taluka: Daund, District: Pune, State: Maharashtra.
9.Taluka	Daund
10.Village	Kurkumbh
Correspondence Name:	Mr. Mangesh Vaze. (Senior Technical Director)
Room Number:	Plot No. - D - 22
Floor:	Ground Floor
Building Name:	Administration
Road/Street Name:	MIDC Kurkumbh
Locality:	MIDC Kurkumbh, Taluka: Daund
City:	Pune
11.Whether in Corporation / Municipal / other area	Other Area
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable, Since it's an Industrial Project
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 24520
13.Note on the initiated work (If applicable)	Not Applicable; No work initiated on site.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	The existing Manufacturing Unit of M/s. CIPLA LIMITED (Unit-III) is located in Notified Industrial Area i.e. MIDC Kurkumbh
15.Total Plot Area (sq. m.)	59115 m2
16.Deductions	NA
17.Net Plot area	59115 m2
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.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	14169.61 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	24 %
21.Estimated cost of the project	296300000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	API + FINISHING	3	14.50
2	API-II	3	16.00
3	API-III	3	14.50
4	API-IV	3	17.50
5	QUALITY CONTROL	2	11.00
6	STORE	1	8.00
7	ADMIN	1	4.50
8	PUMP HOUSE	1	9.50
9	D.G. ROOM	1	7.50
10	MAIN UTILITY	1	7.00
11	CANTEEN BUILDING	2	9.00
12	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)	25-Meter-wide roads provided by MIDC. The Fire Station is at about 0.5 km from project site.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Internal roads with minimum 6-meter width and 9-meter turning radius.
29.Existing structure (s) if any	Yes, Existing Plant Built up Area - 24520 m2
30.Details of the demolition with disposal (If applicable)	Few equipment’s / machineries in existing unit will be replaced by new under expansion.

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Nevirapine / Nevirapine Hemihydrate - Anti-Retroviral	1.89	0.0	1.89
2	Zidovudine - Anti-Retroviral	0.49	0.0	0.49
3	Lamivudine - Anti-Retroviral	0.85	0.0	0.85

4	Terbinafine Hydrochloride - Anti-Fungal	2.00	0.0	2.00
5	Cyproterone Acetate - Anti-Androgen	0.27	0.0	0.27
6	Fexofenadine Hydrochloride - Anti-Histamine	0.86	0.0	0.86
7	Deferiprone - Chelating Agent	1.56	0.0	1.56
8	Escitalopram Oxalate - Anti-Depressant	0.18	0.0	0.18
9	Citalopram Hydrobromide - Anti-Depressant	3.10	0.0	3.10
10	Rosiglitazone Maleate - Anti-Diabetic	0.65	0.0	0.65
11	Estramustine Sodium Phosphate - Anti-Neoplastic	0.67	0.0	0.67
12	Abacavir Sulfate - Anti-Retroviral	0.0	2.00	2.00
13	Dolutegravir Sodium - Anti-Retroviral	0.0	2.00	2.00
14	Tenofovir Disoproxil Fumarate - Anti-Retroviral	0.0	11.67	11.67
15	Tenofovir Alafenamide Fumarate - Anti-Retroviral	0.0	1.00	1.00
16	Emtricitabine - Anti-Retroviral	0.0	0.42	0.42
17	Oseltamivir Phosphate - Anti-Viral	0.0	0.50	0.50
18	Valacyclovir Hydrochloride - Anti-Viral	0.0	0.25	0.25
19	Deferasirox - Chelating Agent	0.0	0.50	0.50
20	Exemestane - Anti-Neoplastic	0.0	0.03	0.03
21	Dapagliflozin - Anti-Diabetic	0.0	0.04	0.04
22	Sitagliptin Phosphate - Anti-Diabetic	0.0	0.04	0.04
23	Empagliflozin - Anti-Diabetic	0.0	0.04	0.04
24	Levonorgestrel - Contraceptive	0.0	0.00042	0.00042
25	Danazol - Anti-Gonadotropin	0.0	0.17	0.17
26	Ondansetron Base / HCL - Anti-Emetic	0.0	0.25	0.25

27	Bictegravir - Integrase-Inhibitor	0.0	0.02	0.02
28	Eluxadoline - Anti-Spasmodic	0.0	0.02	0.02
29	Formoterol Fumarate - Bronchodilator	0.0	0.25	0.25
30	Pramipexole Dihydrochloride - Anti-Parkinson	0.0	0.25	0.25
31	R & D Product	0.0	0.05	0.05

32.Total Water Requirement

Dry season:	**Source of water**	MIDC Water Supply Scheme - The MIDC procures water from Victoria Dam and after treatment the same is provided to different industries in the MIDC.
	Fresh water (CMD):	292
	Recycled water - Flushing (CMD):	92 (In Cooling Makeup)
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	384
	Fire fighting - Underground water tank(CMD):	600 M3
	Fire fighting - Overhead water tank(CMD):	600 M3
	Excess treated water	NA
Wet season:	**Source of water**	MIDC Water Supply Scheme - The MIDC procures water from Victoria Dam and after treatment the same is provided to different industries in the MIDC.
	Fresh water (CMD):	188
	Recycled water - Flushing (CMD):	92 (In Cooling Makeup)
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	280
	Fire fighting - Underground water tank(CMD):	600 M3
	Fire fighting - Overhead water tank(CMD):	600 M3
	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	21.00	0.00	21.00	2.00	0.00	2.00	19.00	0.00	19.00
Industrial Process	37.00	23.00	60.00	2.00	1.00	3.00	35.00	22.00	57.00
Cooling tower & thermopack	118.00	81.00	199.00	97.00	70.00	167.00	21.00	11.00	32.00
Gardening	13.00	91.00	104.00	13.00	91.00	104.00	0.00	0.00	0.00

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre-Monsoon - 2.00 to 5.00 mbgl Post-Monsoon - < 2.00 mbgl
	Size and no of RWH tank(s) and Quantity:	1 No., Approx. - 25 M3
	Location of the RWH tank(s):	Near Contractor Shed
	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 :	As Above
35.Storm water drainage	**Natural water drainage pattern:**	Dendritic Pattern
	Quantity of storm water:	1652 Mtr.
	Size of SWD:	0.5 Mtr. x 1.2 Mtr.
Sewage and Waste water	**Sewage generation in KLD:**	19 KLD
	STP technology:	There is no provision of STP on site. The domestic sewage is treated in existing ETP and same would be followed under expansion.
	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:	No Major construction would be done since most of infrastructure would be used from existing unit. In existing premises, only few equipment's and machinery would be installed as per requirement. Once the construction gets over, the entire excess soil, if any, would be utilized through proper landscaping in the premises of the industry.
Waste generation in the operation Phase:	**Dry waste:**	1.Plastic, Glass, Ferrous, Wooden, Metal Scrap (MT/Year) - Existing - 132 , Expansion - 18, Total - 150, 2. Battery Waste - (MT/Year) - Existing - 2.5 , Expansion - 1.5, Total - 4, E-Waste - (MT/Year) - Existing - 2 , Expansion - 1, Total - 3, Discarded containers, drums, carboys etc. - (Nos./Yr) - Existing - 1200 , Expansion - 300, Total – 1500
	Wet waste:	NA
	Hazardous waste:	1.Cat. No. 5.1 - Used / Spent Oil - (Lit/M) - Existing - 300, Expansion - 100, Total - 400, 2. Cat. No. 28.6 - Spent Solvents - (KL/M) - Existing - 150, Expansion - 280, Total - 430, 3. Cat. No. 28.2 - Spent Catalyst + Cat. No. 28.3 - Spent Carbon - (MT/M) - Existing - 7.50, Expansion - 2.50, Total - 10, 4. Cat. No. 28.5 - Date-Expired, discarded drug / medicines/ chemicals + Cat. No. 28.4 - Off-specification drug / medicines/chemicals - (kg/M) - Existing - 50, Expansion - 50, Total - 100,
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Sale to Authorized Party
	Wet waste:	NA
	Hazardous waste:	Sale to Authorized Party / Sale to Authorized Reprocessor / CHWTSDF (Membership No.- MEPL/CPM014 -Valid up to 20.09.2022) / Co processing
	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

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	BOD	mg/lit	4200	2	100
2	COD	mg/lit	18200	12	250
3	TDS	mg/lit	1720	120	2100
4	pH	--	6.20	7.01	5.5-9.0
5	SS	mg/lit	120	Nil	100

Amount of effluent generation (CMD):	108
Capacity of the ETP:	150
Amount of treated effluent recycled :	92
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	The trade effluent generated would be the tune of 89 CMD whereas domestic effluent generated would be the tune of 19 CMD after proposed expansion. The effluent generated after expansion activities would be segregated into two streams viz. Stream I (Low TDS and Low COD Effluent) and Stream II (High TDS and High COD Effluent). Stream I effluent would be treated in an existing ETP comprising of Primary, Secondary & Tertiary treatment whereas Stream II effluent would be treated through Multiple Effe
Disposal of the ETP sludge	Salts from MEE and ETP sludge is forwarded to Common Hazardous Waste Treatment, Storage and Disposal Facility (CHWTSDF), Ranjangaon, Pune for final disposal.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used / Spent oil	Cat.:- 5.1	Lit/M	300	100	400	Sale to Authorized Party
2	Spent Solvents	Cat.:- 28.6	KL/M	150	280	430	Sale to Authorized Party
3	Spent Catalyst + Spent Carbon	Cat.:- 28.2 + 28.3	MT/M	7.5	2.50	10.00	CHWTSDF / Co processing/Sale to Authorized Reprocessor + CHWTSDF / Co processing
4	Date-Expired, discarded drug / medicines/ chemicals + Off-specification drug / medicines / chemicals	Cat.:- 28.5 + 28.4	kg/M	50	50	100	CHWTSDF / Co processing + CHWTSDF / Co processing
5	Discarded Container, Barrels / liners used for Hazardous Waste / Chemicals	Cat.:- 33.1	Nos./M	100	100	200	Sale to authorized Party
6	Chemical Sludge from Waste Water Treatment + Sludge from MEE system + Sludge from wet scrubber + Spent mother liquor	Cat.:- 35.3	MT/M	50.265	29.005	79.27	CHWTSDF / Co processing

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	Thermopack 2 Nos. (2 Lac kcal/Hr)	HSD	1	30	0.30	99
2	Boiler 2 Nos. (2000 kg/Hr)	FO	1	33	0.35	165

3	DG Set 3 Nos. (250, 500, 750 KVA)	HSD	3	3.6,4.6,5.6 ARL	0.41,0.41,0.75	160
4	Scrubber (API - I)	Water	S-3.1	3.2	0.1	--
5	Scrubber (API - I)	Water	S-3.2	3.2	0.1	--
6	Scrubber (API - I)	Water	S-3.3	6.0	0.1	--
7	Scrubber (API - II)	Water	S-3.4	4.0	0.3	--
8	Scrubber (API - II)	Caustic solution	S-3.5	6.0	0.3	--
9	Scrubber (API - II)	Caustic solution	S-3.6	4.0	0.3	--
10	Scrubber (API - IV)	Caustic solution	S-3.7	9.0	0.3	--
11	Deactivation booth of ETP	Water	S-3.8	8.0	0.3	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD (Thermopack)	48 kg/hr	0.0	48 kg/hr
2	FO (Boiler)	240 kg/hr	0.0	240 kg/hr
3	HSD (DG Set)	248 kg/hr	0.0	248 kg/hr
41.Source of Fuel		From Local Vendors (Indian Oil Corporation Ltd.)		
42.Mode of Transportation of fuel to site		Through Trucks by road.		

43.Green Belt Development	**Total RG area :**	20800 m2 (2.08 Ha) i.e. 35.19 % of the plot area
	No of trees to be cut :	Not Applicable, since no tree will be cut for expansion
	Number of trees to be planted :	2515
	List of proposed native trees :	List of trees as below
	Timeline for completion of plantation :	5 Years

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	Azadirachta indica	Neem	230	Native, evergreen, fast growing, tolerant
2	Dalbergia sissoo	Shisav, Shisham	180	Native, evergreen, tolerant
3	Mimuso pselengi	Bakul	150	Native, ornamental, host plant for bees and butterflies.
4	Pongamia pinnata	Karanj	200	Pollution tolerant
5	Acacia Catechu	Khair	70	Native and pollution resistant
6	Tectona grandis	Saag	55	Native and pollution resistant
7	Ficus racemosa	Umbar	45	Native, evergreen, fast growing, pollution tolerant
8	Cassia fistula	Bahava	150	Native, ornamental, host plant for bees and butterflies
9	Gmelina arborea	Shivan	75	Native and pollution resistant
10	Pithecello biumdulce	Wilayati Chinch	150	Native, ornamental, host plant for bees and butterflies

11	Alstonia scholaris	Saptaparni	150	Native, evergreen, higher dust settling index
12	Swietenia mahogani	Mahogani	200	Native, evergreen, higher dust settling index
13	Aegle marmelos	Bel	50	Native and pollution resistant
14	Holigarna grahamii	Ran Bibba	120	Native and pollution resistant
15	Ficus macrocarpa	Nandruk	45	Native and pollution resistant
16	Melia azedarach	Limbara	40	Native and pollution resistant
17	Bauhinia racemosa	Apta	150	Native and pollution resistant
18	Neolamarckia cadamba	Kadamb	185	Native, Evergreen tree
19	Lagerstroemia speciosa	Tamhan	150	Native, State flower of Maharashtra
20	Polyalthia longifolia	Ashoka	120	Air pollution absorbing species
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	0	0

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	As per requirement
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	The average power supply - 27000 KW Hr/Day for the existing unit, presently taken from Maharashtra State Electricity Distribution Company Limited (MSEDCL) and the same would be the source for the proposed expansion activities. The average power supply - 3000 KW Hr/Day is required for the proposed expansion activities.
	During Operation phase (Demand load):	The average power supply - 27000 KW Hr/Day for the existing unit, presently taken from Maharashtra State Electricity Distribution Company Limited (MSEDCL) and the same would be the source for the proposed expansion activities. The average power supply - 3000 KW Hr/Day is required for the proposed expansion activities.
	Transformer:	NA
	DG set as Power back-up during operation phase:	250, 500 and 750 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1.M/s. Cipla Ltd., Unit - III have installed a 35 KWp capacity Solar Power Plant in June 2016. All future installation's roofs will be south-wardly inclined to install more solar panels for higher solar power generation.
2.Use of Green Solvents.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Panels	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air Pollution Control	Stacks, Scrubber	Stacks, Scrubber
Water Pollution Control	Effluent Treatment Plant (ETP) + ZLD	Effluent Treatment Plant (ETP) + ZLD
Noise Pollution Control	Noise Level Management	Noise Level Management
Environmental Management Plan and Monitoring	Environmental Monitoring and Management	Environmental Monitoring and Management
Green Belt Development	Green Belt Development	Green Belt Development

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)
1	Air Pollution Control (APC)	APC Equipment's like Stacks, Scrubber	95.00	5.00
2	Water Pollution Control (WPC)	ETP comprising of MEE & allied Infrastructure	586.00	58.60
3	Noise Pollution Control (NPC)	Noise Level Management	16.00	1.60
4	Occupational Health and Safety	Occupational Health and Safety	25.00	5.00
5	Environmental Management Plan and Monitoring	Environmental Management Plan and Monitoring	0.00	10.00
6	Green Belt Development	Green Belt Development	25.00	2.50
7	Air Pollution Control (APC) - Under expansion	Installation of APC Equipment - Scrubber	10.00	0.50
8	Green Belt Development - Under expansion	Green Belt Development	10.00	2.50

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
ABSOLUTE ALCOHOL DENATURED WITH ACETONE	LIQUID	Acid Store	6.24	6.00	12.00	Indigenous	By Road
SPECIAL DENATURED SPIRIT WITH TOLUENE	LIQUID	Acid Store	14.40	14.00	27.36	Indigenous	By Road
METHYLENE CHLORIDE	LIQUID	Tank farm	53.00	48.00	115.00	Indigenous	By Road
METHANOL	LIQUID	Tank farm	39.25	37.00	85.00	Indigenous	By Road
ACETONE	LIQUID	Tank farm	19.50	19.00	37.44	Indigenous	By Road
ISOPROPYL ALCOHOL	LIQUID	Tank farm	39.00	37.00	90.00	Indigenous	By Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	267.37 m2 (0.5 % of Total Area)
	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):	6 meter
	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	As per the provision of "EIA Notification No. S.O. 1533 (E)" dated 14.09.2006 and amendments thereto vide Notification dated 25.06.2014, the proposed project comes under 'Category - B1' Item No. 5 (f).
	Court cases pending if any	No any court case
	Other Relevant Informations	Application in the prescribed online format of 'FORM-1' along with the requisite documents is submitted herewith for grant ToRs.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
3	Mr. Sanjay Berad (Director)	Mr. Mangesh Wajhe (Sr. Technical Director)
6	Proposed expansion and modernization project of Existing Bulk Drugs and Intermediates manufacturing unit.	Proposed expansion project of Existing Bulk Drugs and Intermediates manufacturing unit.
31	31) R & d product : 0.20 MT/M	31) R & d product : 0.05 MT/M
32	Dry and Wet Season: Fresh water - 130 CMD Recycled Water - 128 CMD Total water requirement - 258 CMD	Dry and Wet Season: Fresh water - 130 CMD Recycled Water - 89 CMD Total water requirement - 219 CMD
33	(1) Domestic Consumption: Existing (35 CMD) Proposed (5 CMD) Total (40 CMD)	(1) Domestic Consumption: Existing (20 CMD) Proposed (0 CMD) Total (20 CMD)
33	Domestic Loss: Existing (1 CMD) Proposed (1 CMD) Total (2 CMD)	Domestic Loss: Existing (1 CMD) Proposed (0 CMD) Total (1 CMD)
33	Domestic Effluent: Existing (34 CMD) Proposed (4 CMD) Total (38 CMD)	Domestic Effluent: Existing (19 CMD) Proposed (0 CMD) Total (19 CMD)
33	(2) Industrial Process: Existing (67 CMD) Proposed (21 CMD) Total (88 CMD)	(2) Industrial Process: Existing (60 CMD) Proposed (12 CMD) Total (72 CMD)
33	Industrial Process Loss: Existing (0 CMD) Proposed (0 CMD) Total (0 CMD)	Industrial Process Loss: Existing (0 CMD) Proposed (3 CMD) Total (3 CMD)
33	Industrial Process Effluent: Existing (45 CMD) Proposed (49.5 CMD) Total (94.5 CMD)	Industrial Process Effluent: Existing (60 CMD) Proposed (9 CMD) Total (69 CMD)
33	(3) Gardening: Existing (20 CMD) Proposed (10 CMD) Total (30 CMD)	(3) Gardening: Existing (30 CMD) Proposed (0 CMD) Total (30 CMD)
33	Gardening Loss: Existing (0 CMD) Proposed (0 CMD) Total (0 CMD)	Gardening Loss: Existing (30 CMD) Proposed (0 CMD) Total (30 CMD)
33	(4) Cooling Tower & Thermopack Consumption: Existing (78 CMD) Proposed (22 CMD) Total (100 CMD)	(4) Cooling Tower & Thermopack Consumption: Existing (90 CMD) Proposed (7 CMD) Total (97 CMD)
33	Cooling Tower & Thermopack Loss: Existing (70.5 CMD) Proposed (21.5 CMD) Total (92 CMD)	Cooling Tower & Thermopack Loss: Existing (79 CMD) Proposed (6.3 CMD) Total (85.3 CMD)

33	Cooling Tower & Thermopack Effluent: Existing (7.5 CMD) Proposed (0.5 CMD) Total (8 CMD)	Cooling Tower & Thermopack Effluent: Existing (11 CMD) Proposed (0.7 CMD) Total (11.7 CMD)
34	Size and no of RWH tank(s) and Quantity: The details of rainwater harvesting will be incorporated in EIA report.	Size and no of RWH tank(s) and Quantity: Industry has developed rainwater harvesting tank of approx. 25 m3 with two pumps. (one working one stand by)
37	Waste Generation in Operation Phase: (1) Dry Waste: Plastic, Glass, Ferrous, wooden, metal scrap , Discarded containers, drums, carboys etc.	Waste Generation in Operation Phase: (1) Dry Waste: Plastic, Glass, Ferrous, wooden, metal scrap (150 MT/Yr), Discarded containers, drums, carboys etc. (1500 Nos./Yr)
37	(3) Hazardous waste : Battery waste , E-waste	(3) Hazardous waste : Battery waste (4 MT/Yr) , E-waste (3 MT/Yr)
38	Amount of effluent generation (CMD): 140.50 CMD	Amount of effluent generation (CMD): 99.7 CMD
38	Amount of treated effluent recycled: 128 CMD	Amount of treated effluent recycled: 89 CMD
39	Spent Mother Liquor: Cat.: 28.1, UOM: M3/M, Existing: 600, Proposed: 300, Total: 900. Method of Disposal: Final residue to CHWTSDF	To be deleted from this section
39	Chemical Sludge, Oil & Grease skimming residues from Industrial Effluent: Cat.: 35.3, UOM: MT/M, Existing: 5.25, Proposed: 4.0, Total: 9.25. Method of Disposal: CHWTSDF	Chemical Sludge from waste water treatment: Cat.:35.3, UOM: MT/M, Existing: 50.265, Proposed: 29.005, Total: 79.27. Method of Disposal: CHWTSDF
39	Sludge from wet scrubber: Cat.: 37.1, UOM: kg/M, Existing: 15, Proposed: 5, Total: 20. Method of Disposal: CHWTSDF	To be deleted from this section
39	Sludge from MEE System: Cat.: 35.4, UOM: MT/M, Existing: 45, Proposed: 25, Total: 70. Method of Disposal: CHWTSDF	To be deleted from this section
39	Spent Solvents: Cat.: 28.6, UOM:KL/M, Existing: 125, Proposed: 275, Total: 400. Method of Disposal: Sale to Authorized Party	Spent Solvents/ Spent Organic Solvents: Cat.: 28.6, UOM:KL/M, Existing: 150, Proposed: 280, Total: 430. Method of Disposal: Sale to Authorized Party
39	Spent Organic Solvents: Cat.: 28.6, UOM:KL/M, Existing: 25, Proposed: 5, Total: 30. Method of Disposal: Sale to Authorized Party	To be deleted from this section
39	Spent Catalyst/Spent Carbon: Cat.: 28.3, UOM:MT/M, Existing: 7.5, Proposed: 0, Total: 7.5. Method of Disposal: Sale to Authorized Party / CHWTSDF	Spent Catalyst: Cat.: 28.2, UOM:MT/M, Existing: 4 , Proposed: 1.5, Total: 5.5 Method of Disposal: Sale to Authorized Party / CHWTSDF
39	Spent Catalyst/Spent Carbon: Cat.: 28.3, UOM:MT/M, Existing: 7.5, Proposed: 0, Total: 7.5. Method of Disposal: Sale to Authorized Party / CHWTSDF	Spent Carbon: Cat.: 28.3, UOM:MT/M, Existing: 3.5, Proposed: 1, Total: 4.5 Method of Disposal: Sale to Authorized Party / CHWTSDF
39	Date expired, Discarded and Off-specification drugs/medicines/chemicals: Cat.: 28.5, UOM: kg/M, Existing: 50, Proposed: 50, Total: 100. Method of Disposal: CHWTSDF	Date expired products: Cat.: 28.5, UOM: kg/M, Existing: 25 , Proposed: 25 , Total: 50 Method of Disposal: CHWTSDF
39	Date expired, Discarded and Off-specification drugs/medicines/chemicals: Cat.: 28.5, UOM: kg/M, Existing: 50, Proposed: 50, Total: 100. Method of Disposal: CHWTSDF	Off-specification products: Cat.: 28.4, UOM: kg/M, Existing: 25 , Proposed: 25 , Total: 50 Method of Disposal: CHWTSDF
40	Thermo pack- 2 Lac kcal/hr, 2 Nos.	Thermo pack- 2 Nos., 2 x 2 Lac kcal/hr, (one standby)

40	Boiler- 2000 kg/hr, 2 Nos.	Boiler- 2 Nos., 2 x 2000 kg/hr (In Existing- one boiler standby, In expansion- two boilers operated with full efficiency)
40	DG Set - 500, 750, 750 KVA, 3 Nos.	DG Set - 3 Nos., 250, 500, 750 KVA(In expansion - DG set of capacity 62.5 KVA is replaced by 750 KVA)
40	Process Scrubber Vent - 5 lit. or kg/hr, 8 Nos.	Process Scrubber Vent - 5 lit. or kg/hr, 8 Nos. (Existing scrubbers - 7 Nos., In expansion one additional scrubber will be installed)
44	Total RG area : Existing Green Belt Area - 8201 m2(13.87 % of Total Plot Area)	Total RG area : Existing Green Belt Area - 17000 m2(28.76 % of Total Plot Area)
44	No of trees to be planted: Proposed Green Belt Area - 11307m2 (19 % of Total plot area). The list of trees to be planted under expansion will beincorporated in EIA report.	No of trees to be planted: Proposed Green Belt Area – 3099 m2 (5.24 % of Total plot area). The list of trees to be planted under expansion will be incorporated in EIA report.
52 (b)	(1) Air Pollution Control - Boiler Capital cost Rs. In Lacs - 43 O & M cost Rs. In Lacs - For all component the O&M cost would be 450 lacs/year	(1) Air Pollution Control - Installation of APC equipment - stack, scrubbers Capital cost Rs. In Lacs - For Existing- 95 For Expansion - addition of one scrubber – 10 Total capital cost Rs. In Lacs - 105 O & M cost Rs. In Lacs - For Existing - 5 For Expansion - 0.50 Total O & M cost Rs. In Lacs - 5.50
52 (b)	(2) Water Pollution Control - ETP Capital cost Rs. In Lacs - 400 O & M cost Rs. In Lacs - As above mentioned	(2) Water Pollution Control - ETP, Online Monitoring of ETP, MEE, VTFD Capital cost Rs. In Lacs - 586 O & M cost Rs. In Lacs - 58.60
52 (b)	(3) Noise Pollution Control - Noise level Management Capital cost Rs. In Lacs - 16 O & M cost Rs. In Lacs - As above mentioned	(3) Noise Pollution Control - Noise level Management Capital cost Rs. In Lacs - 16 O & M cost Rs. In Lacs - 1.60
52 (b)	(4) Environmental Monitoring & Management - Environmental Monitoring & Management Capital cost Rs. In Lacs - 2 O & M cost Rs. In Lacs - As above mentioned	(4) Environmental Monitoring & Management - Environmental Monitoring & Management Capital cost Rs. In Lacs - -- O & M cost Rs. In Lacs - 10
52 (b)	(5) Occupational Health Safety - Occupational Health Safety Capital cost Rs. In Lacs - 1 O & M cost Rs. In Lacs - As above mentioned	(5) Occupational Health & Safety - Occupational Health & Safety Capital cost Rs. In Lacs - 25 O & M cost Rs. In Lacs - 5
52 (b)	(6) Green belt Development - Green belt Development Capital cost Rs. In Lacs - 2 O & M cost Rs. In Lacs - As above mentioned	(6) Green belt Development - Green belt Development & Rain Water Harvesting System Capital cost Rs. In Lacs - For Existing - 25 For Expansion - 10 Total Capital cost Rs. In Lacs - 35 O & M cost Rs. In Lacs - For Existing - 2.50 For Expansion - 2.50 Total O & M cost Rs. In Lacs - 5
52 (b)	(7) MEE & VTFD – MEE & VTFD Capital cost Rs. In Lacs – 186 O & M cost Rs. In Lacs – As above mentioned	To be deleted from this section
54	(13) Category as per schedule of EIA Notification sheet : category	(13) Category as per schedule of EIA Notification sheet : Category (B) , Item No.5 (f) as per the provision of "EIA Notification No. S. O. 1533 (E)" dated 14.09.2006 and amendments thereat.

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.
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 submitted water waste water management in the EIA report and also indicated water requirement at Sr. No 37 of the Consolidated Statement.
Drainage pattern of the project	PP considered contour levels while designing the drains on site
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits at project site.
Solid Waste Management	PP submitted Solid Waste Management in the EIA report and also indicated water requirement at Sr. No 36 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	PP submitted Energy Management in the EIA report and also indicated water requirement at Sr. No. 47 of the Consolidated Statement.
Traffic circulation system and risk assessment	PP proposes to provide six meter wide internal roads along with nine meter turning radius.
Landscape Plan	PP proposes to provide 33% green belt.
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 submitted EMP in the EIA report and also indicated water requirement at Sr. No. 47 of the Consolidated Statement.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP submitted their proposal for the grant of Environmental Clearance under category 5 (f) of the schedule attached to the EIA Notification, 2006.

The proposal was earlier considered in the 151st meeting of SEAC-1 for the grant of ToR wherein ToR was granted to the PP for the preparation of EIA/EMP report as per standard ToR published by the MoEF&CC along with following specific 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 entry/exit gates, internal road width of six meters, turning radius of nine meters, location of pollution control equipment, parking areas, waste storage areas,33% green belt, rain water harvesting etc.

3. PP to submit copy of Structural Stability Certificate of the structures exists on the site.

4. PP to submit an undertaking for not having any eco sensitive area in the range of 5 KM from proposed project site.bmit an undertaking for not violating any requirements of EIA Notification, 2006.

5. 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.

6. 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.

7. PP to carry out HAZOP and Risk Assessment study and submit Disaster Management Plan.

8. PP to submit hazardous chemical handling protocol

9. PP to submit drawings, cross sectional drawings of the manufacturing units, equipment layout plan along with report on adequacy of the existing space for the expansion activities.

10. PP to include highlights of chemistry involved in the process in the EIA report.

11. PP to submit detailed water balance calculations and include details of water conservation measure adopted in the EIA report.

12. PP to submit details of ETP design with respect to the design of units proposed for effluent treatment. PP to ensure ZLD for the effluent treatment.

13. PP to use solar power of administrative building and street lights.

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

15. 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.

After submission of EIA/EMP report the proposal was included in the agenda of 166th A meeting of SEAC-1 held on 15.06.2019 wherein PP requested to postpone the case, hence the proposal was deferred.

The proposal was again included in the agenda of 184th meeting of SEAC-1 wherein PP requested to postpone the case, hence the proposal was deferred.

Now the proposal is considered for appraisal.

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

DECISION OF SEAC

Earlier EC NoJ-11011/48/2005-IA(I) dated 05.04.2006; PP submitted copy of certified compliance of earlier EC herein no major non-compliance is observed by the Authority.

Representative of PP was present during the meeting along with Accredited Environmental consultant M/s. Equinox Environment (I) Pvt. Ltd.

ToR was granted to the PP in 151st meeting of SEAC- 1 held on 24.05.2018. After submission of EIA/EMP report the proposal was considered in the 166A meeting of SEAC-1 held on 15.06.2019 wherein the proposal was deferred as PP was absent for the meeting. The proposal was again considered in the 184th meeting of SEAC-1 held on 04.06.2020wherein PP requested to postpone the case. Thereafter the proposal was again listed in 189th meeting of SEAC-1 held on 07.08.2020 wherein the proposal was deferred due to want of additional information.

Now PP submitted additional information.

The proposal was appraised based on the documents submitted and presented by the PP and their accredited Environmental Consultant.

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposal for prior Environmental Clearance to the SEIAA subject to following specific EC conditions –

Specific Conditions by SEAC:

1) PP to achieve the standard parameters stipulated for Bulk Drugs and Formulation (Pharmaceuticals) sector in the Environment (Protection) Second Amendment Rule, 2021 dated 6th August 2021 published by MoEF&CC.
2) PP to spend entire CER funds before commissioning of proposed activity in consultation with the District Collector.
3) PP to provide Online Continuous Monitoring System connected to the servers of CPCB and MPCB.
4) PP to provide Zero Liquid Discharge Effluent Treatment Plant.
5) PP to explore possibility to assess techno-economic feasibility of using technology for MEE such as low temperature/mechanical vapour compressor etc. so s to reduce operation cost and use of natural resources.
6) PP to complete rain water harvesting facility before the commissioning of the manufacturing activity.
7) PP to provide sliding gate at entry and exit to achieve maximum turning radius of vehicle entering the site.

FINAL RECOMMENDATION

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

Agenda of 205th Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 205th (Day-3) **Meeting Date** September 9, 2021

Subject: Environment Clearance for Installed capacity of 160 MTPA of API production in the first phase and operating as per current CTO. Now, the expansion is planned upto 220 MTPA (Expansion by 60 MTPA) of API production which change in product mix. However, the site is having current EC for production of 320 MTPA of API – Application for grant of ToRs.

Is a Violation Case: No

1.Name of Project	M/s. CIPLA Ltd. (Unit - II)
2.Type of institution	Private
3.Name of Project Proponent	Mr. Mangesh Vaze (Senior Technical Director)
4.Name of Consultant	Equinox Environments (India) Private Limited (EEIPL), Kolhapur
5.Type of project	Other-Industrial
6.New project/expansion in existing project/modernization/diversification in existing project	Proposed Expansion of existing bulk drugs and intermediate manufacturing unit (API).
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, Environmental Clearance from MoEF, New Delhi Dated 31st July 2007
8.Location of the project	Unit – II, Plot No. D – 27, MIDC Kurkumbh, Tal.: Daund, Dist.: Pune, Maharashtra.
9.Taluka	Daund
10.Village	Kurkumbh
Correspondence Name:	Mr. Mangesh Vaze (Senior Technical Director)
Room Number:	Plot No. D-27 in MIDC Industrial Area
Floor:	Ground Floor
Building Name:	Administration
Road/Street Name:	MIDC Kurkumbh,
Locality:	MIDC Kurkumbh, Taluka: Daund
City:	Pune
11.Whether in Corporation / Municipal / other area	Other Area
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable, Since it's an Industrial Project
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 28264
13.Note on the initiated work (If applicable)	Not Applicable; No work initiated on site.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Existing unit of Cipla Ltd. (Unit-II) is located in notified MIDC area i.e. Kurkumbh MIDC
15.Total Plot Area (sq. m.)	1,60,000 Sq. M.
16.Deductions	NA
17.Net Plot area	1,60,000 Sq. M.
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.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	12671 Sq. M.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	8 %
21.Estimated cost of the project	151100000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	API -I	G+3=4	21
2	API -II	G+2=3	17
3	Store	G+1=2	11.2
4	QA/QC Building	G+1=2	10
5	Engg. Office + Utility Building	G+1=2	8.95
6	ETP RO Building	G = 1	8.1
7	ETP MEE Room & Lab	G+1=2	7.75
8	DP Store	G = 1	5.45
9	Acid Shade	G = 1	5
10	Pump House	G = 1	4.9
11	Admin Building	G = 1	4.75
12	HT Breaker Room	G = 1	4.75

23.Number of tenants and shops	Not applicable
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)	25-Meter-wide roads provided by MIDC. The MIDC Fire Station is at about 0.5 km from project site.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Internal roads with minimum 6-meter width and 9-meter turning radius
29.Existing structure (s) if any	Yes, Existing Plant Built up Area – 28,264 Sq. M.
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	Darunavir Hydrate (Anti-Retroviral	0.12	00	0.12
2	Darunavir Ethanolate (Anti-Retroviral)	0.17	00	0.17
3	Efavirenz (Anti-Retroviral)	0.41	00	0.41

4	Tenofovir Disoproxil Fumarate (Anti-Retroviral)	7.56	4.16	11.72
5	Emtricitabine (Anti-Retroviral)	0.11	00	0.11
6	Lamotrigine (Anti-Consulvant)	0.55	00	0.55
7	Trimetzidine Dihydrochloride (Anti-Anginal)	1.4	00	1.4
8	Ranolazine (Anti-Anginal)	0.09	00	0.09
9	SMK (Anti-Ulcerative)	0.16	00	0.16
10	Pantaprazole Sodium Sesquihydrate (Anti-Ulcerative)	0.05	00	0.05
11	Esomeprazole Magnesium Dihydrate (Anti-Ulcerative)	0.08	00	0.08
12	Lansoprazole (Anti-Ulcerative)	0.13	00	0.13
13	Escitalopram Oxalate (Anti-Depressant)	0.05	00	0.05
14	Citalpram Hydrobromide (Anti-Depressant)	1.24	00	1.24
15	Olmesartam Medoximil (Anti-Hypertensive)	0.17	00	0.17
16	Losartan Potassium (Anti-Hypertensive)	0.26	00	0.26
17	Sibutramine Hydrochloride (Anti-Obesity)	0.13	00	0.13
18	Celecoxib (Anti-Inflammatory)	0.29	00	0.29
19	Raloxifine Hydrochloride (Bone Resorption Inhibitor)	0.11	00	0.11
20	Terbinafine Hydrochloride (Anti Fungal)	0.25	00	0.25
21	Eluxadoline (Anti-Spasmodics)	00	0.005	0.005
22	Bictegravir (Investigational Drug, Clinical trial 3 ongoing) (Integrase Inhibitor)	00	0.03	0.03
23	R & D Product	00	0.05	0.05
24	Atazanavir Sulphate (Anti-Retroviral)	0	0.25	0.25
25	Tenofovir Alafenamide Fumarate (Anti-Retroviral)	0	0.45	0.45

32.Total Water Requirement

Dry season:	**Source of water**	MIDC Water Supply Scheme - The MIDC procures water from Victoria Dam and after treatment the same is provided to different industries in the MIDC.
	Fresh water (CMD):	473
	Recycled water - Flushing (CMD):	88 (In Cooling Makeup)
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	561
	Fire fighting - Underground water tank(CMD):	1000
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Wet season:	**Source of water**	MIDC Water Supply Scheme - The MIDC procures water from Victoria Dam and after treatment the same is provided to different industries in the MIDC.
	Fresh water (CMD):	181
	Recycled water - Flushing (CMD):	88 (In Cooling Makeup)
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	269
	Fire fighting - Underground water tank(CMD):	1000
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
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	16	00	16	2	00	2	14	00	14
Industrial Process	45	12	57	00	00	00	46	16	62

Cooling tower & thermopack	98	98	196	83	88	171	15	10	25
Gardening	37	255	292	37	255	292	00	00	00

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre-Monsoon - 2.00 to 5.00 mbgl Post-Monsoon – less than 2 mbgl
	Size and no of RWH tank(s) and Quantity:	1 RWH Tank of capacity 2828 M3
	Location of the RWH tank(s):	near ETP is provided on site.
	Quantity of recharge pits:	2828 M3
	Size of recharge pits :	52 X 34.2 M
	Budgetary allocation (Capital cost) :	Rs. 20 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 5 Lakhs
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	Dendritic Pattern
	Quantity of storm water:	2344 M
	Size of SWD:	0.5 W X 1.2 H M
Sewage and Waste water	**Sewage generation in KLD:**	14
	STP technology:	There is no provision of STP on site. The domestic sewage is treated in existing ETP and same would be followed under expansion.
	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:	No Major construction would be done since most of infrastructure would be used from existing unit. In existing premises, only few equipment's and machinery would be installed as per requirement.
Waste generation in the operation Phase:	**Dry waste:**	Plastic, Glass, Ferrous, Wooden, Metal Scrap (Kg/A), Existing- 125, Exp. 10, Total-135, 2. Battery Waste (Kg/A) Existing- 2, Exp. 1, Total-3, 3.E-Waste (Kg/A) Existing- 2, Exp. 1, Total-3,, 4. Discarded containers, drums, carboys, etc (Nos./A). Existing- 2400,. Exp. 1000, Total-3400,
	Wet waste:	NA
	Hazardous waste:	Cat. 5.1 - Used / Spent Oil - (Lit/M) Existing- 200, Expansion- 100, Total-300, 2. Cat. 26.3 – Spent Acid -(MT/M) Existing -30, Expansion- 5, Total -35, 3. Cat. 28.6 - Spent Solvents (KL/M) Existing -378.5, Expansion-102, Total-480.5, 4. Cat. 28.2 – Spent catalyst & .Cat. 28.3 – Spent Carbon (Kg/M) Existing -125, Expansion -200, Total- 325, Cat. 28.5 – 5. Date expired, discarded / chemicals /medicines & Cat. 28.4 – Off-specification drugs/ chemicals /medicines (Kg/M)- Existing -1500, Expan

Mode of Disposal of waste:	**Dry waste:**	Sale to Authorized Party
	Wet waste:	NA
	Hazardous waste:	Sale to Authorized Party / Sale to Authorized Re-processor / CHWTSDF (Membership No.- MEPL/33003270 -Valid up to 01.05.2023) / Co processing
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	North East direction of Plot area - Plot No. D-27, MIDC Kurkumbh, Daund, Pune, Maharashtra.
	Area for the storage of waste & other material:	84 Sq. M.
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 9 Lakhs
	O & M cost:	Rs. 38.65 Lakhs

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	BOD	mg/lit	1800 – 4600	2 – 14	100
2	COD	mg/lit	6500 – 15000	7 – 61	250
3	TDS	mg/lit	100 – 800	5 – 28	2100
4	pH	--	7 - 8	7-7.5	5.5 - 9.0
5	SS	mg/lit	2000 - 3100	170 - 280	100

Amount of effluent generation (CMD):	101
Capacity of the ETP:	150
Amount of treated effluent recycled :	88
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	Trade effluent generated would be the tune of 101 CMD whereas domestic effluent generated would be the tune of 14 CMD after expansion. Effluent would be segregated into2 streams viz. Stream I (Low TDS and Low COD Effluent from Domestic, Process, Cooling & Boiler b/d, DM Backwash, Scrubber, MEE Condensate from stream - II) @ 71 CMD & Stream II (High TDS and High COD Effluent from process) @ 30 CMD. Stream – I comprises of oil catch, equalization cum neutralization tank, flash mixer, flocculator,
Disposal of the ETP sludge	Salts from MEE and sludge from Filter press is forwarded to Common Hazardous Waste Treatment, Storage and Disposal Facility (CHWTSDF), Ranjangaon, Pune for final disposal.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used / Spent Oil	5.1	Lit/M	200	100	300	Sale to authorized party
2	Spent Acid	26.3	MT/M	30	5	35	Sale to authorized party

3	Spent Solvents	28.6	KL/M	378.5	102	480.5	Sale to authorized party
4	Spent catalyst / Spent Carbon	28.2 + 28.3	Kg/M	125	200	325	Sale to authorized party / CHWTSDF/ Co-processing
5	Date expired, discarded & off-specification drugs / medicines / chemicals	28.5 + 28.4	Kg/M	1500	1000	2500	CHWTSDF/ Co-processing
6	Discarded container barrels / liners used for hazardous waste / chemicals	33.1	No./M	200	100	300	Sale to authorized party
7	Chemical sludge, oil & grease skimming residues from industrial effluent	35.3	MT/M	0.75	15	15.75	CHWTSDF/ Co-processing
8	Sludge from MEE system	35.3	MT/M	20	50	70	CHWTSDF/ Co-processing
9	Sludge from wet scrubber	35.3	MT/M	0.025	0.050	0.075	CHWTSDF/ Co-processing

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 - 2 TPH; 2 Nos.	FO; 107 Lit/Hr	1	30	0.63	99
2	Thermopack-2 Lakhs kCal/Hr; 1 No.	HSD; 22.68 Lit/Hr	1	30	0.63	168
3	DG Set -1250 KVA; 1 No.	HSD; 85 Lit/Hr.	1	7	0.2	145
4	Process Scrubbers - 5Lit/hr; 3 Nos.	--	3	4	0.3	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD - Thermopack	22.68 Lit/Hr	00	22.68 Lit/Hr
2	Furnace Oil (Boiler)	107 Lit/Hr	00	107 Lit/Hr
3	HSD - DG Set	85 Lit/Hr	00	85 Lit/Hr
41.Source of Fuel		From Local Vendors (Indian Oil Corporation Ltd.)		
42.Mode of Transportation of fuel to site		Through Trucks By Road (Existing)		

43.Green Belt Development	**Total RG area :**	Total Green Belt Area- 58400 Sq. M (36.5 % of Total plot area)
	No of trees to be cut :	Not Applicable, since no tree will be cut for expansion
	Number of trees to be planted :	6710 Nos
	List of proposed native trees :	List of trees is as below
	Timeline for completion of plantation :	5 Years

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	Azadirachta indica	Neem	1000	Native, evergreen, fast growing, tolerant
2	Dalbergia sissoo	Shisav, Shisham	150	Native, evergreen, tolerant
3	Mimuso pselengi	Bakul	150	Native, ornamental, host plant for bees and butterflies.
4	Pongamia pinnata	Karanj	200	Pollution tolerant
5	Acacia Catechu	Khair	430	Native and pollution resistant
6	Tectona grandis	Saag	500	Native and pollution resistant
7	Cassia fistula	Bahava	120	Native, ornamental, host plant for bees and butterflies.
8	Gmelina arborea	Shivan	551	Native and pollution resistant
9	Pithecello biumdulce	Wilayati Chinch	150	Native, ornamental, host plant for bees and butterflies.
10	Alstonia scholaris	Saptaparni	200	Native, evergreen, higher dust settling index
11	Swietenia mahogani	Mahogani	250	Native, evergreen, higher dust settling index
12	Aegle marmelos	Bel	500	Native and pollution resistant
13	Holigarna grahamii	Ran Bibba	100	Native and pollution resistant
14	Ficusmacrocarpa	Nandruk	500	Native and pollution resistant
15	Melia azedarach	Limbara	450	Native and pollution resistant
16	Bauhinia racemosa	Apta	254	Native and pollution resistant
17	Lagerstroemia speciosa	Tamhan	135	Native, State flower of Maharashtra
18	Polyalthia longifolia	Ashoka	120	Air pollution absorbing species
19	Butea monosperma	Palas	500	Air pollution absorbing species
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	0	0

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL) and from solar power
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	Average power supply – 27 MW per hour for the existing unit, presently taken from Maharashtra State Electricity Distribution Company Limited (MSEDCL) and the same would be the source for the proposed expansion activities. The average power supply - 3 MW per hour will be required for proposed expansion activities.
	During Operation phase (Demand load):	Average power supply – 27 MW per hour for the existing unit, presently taken from Maharashtra State Electricity Distribution Company Limited (MSEDCL) and the same would be the source for the proposed expansion activities. The average power supply - 3 MW per hour will be required for proposed expansion activities.
	Transformer:	NA
	DG set as Power back-up during operation phase:	One existing DG set of capacity 1250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. M/s. Cipla Ltd., Unit - II have installed a 79 KWH/Day capacity Solar Power Plant in July 2013. All future installation's roofs will be south- wardly inclined to install more solar panels for higher solar power generation.
2. Use of Green Solvents.

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 Pollution Control	Stacks, Scrubber	Stacks, Scrubber
Water Pollution Control	Effluent Treatment Plant (ETP)	Effluent Treatment Plant (ETP), ZLD
Noise Pollution Control	Noise Level Management	Noise Level Management
Environmental Management Plan and Monitoring	Environmental Monitoring and Management	Environmental Monitoring and Management
Green Belt Development	Green Belt Development	Green Belt Development

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)
1	Air Pollution Control (APC)	APC Equipment's like Stacks, Scrubber	25	4
2	Water Pollution Control - ETP	ETP, MEE ATFD and OCMS	400	150
3	Noise Pollution Control	Noise Level Management, Appropriate PPEs	20	5
4	Environmental Management Plan and Monitoring	Environmental Management Plan and Monitoring	15	5
5	Green Belt Development & RWH	Green Belt Development & RWH	50	10
6	Occupational Health and Safety	Occupational Health and Safety	50	10

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
ACETONE	Liquid	Tankfarm	19.50	19.50	7.34	Taiwan prosperity chemicals corporation	Tanker
CHLOROMETHYL ISOPROPYL CARBONATE	Liquid	Drum Storage	15.00	15.00	9.8	CHEMCON SPECILITY CHEMICALS	HDPE drums
ISOPROPYL ACETATE	Liquid	Tankfarm	21.75	21.75	45	Hunan Zhongchuang Chemical co. ltd.	Tanker
ISOPROPYL ALCOHOL	Liquid	Tankfarm	19.50	19.50	34	DEEPAK FERTILISERS & PETROCHEMICALS	Tanker
METHANOL	Liquid	Tankfarm	19.50	39.00	64	ZAGROS PETROCHEMICAL COAMPANY	Tanker
METHYLENE CHLORIDE	Liquid	Tankfarm	33.00	66.00	32	AKZO NOBEL INDUSTRIAL	Tanker
N-METHYL 2-PYRROLIDONE	Liquid	Drum Storage	16.00	16.00	8.4	BASF CORPORATION-USA	MS drums
ETHYL ACETATE	Liquid	Tankfarm	22.50	22.50	16.32	GODAVARI BIOREFINARIES LTD	Tanker

52.Any Other Information

No Information Available		

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	2097 m2 (1.3 % of Total Area)
	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):	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	As per the provision of “EIA Notification No. S.O. 1533 (E)” dated 14.09.2006 and amendments thereto vide Notification dated 25.06.2014, the proposed project comes under ‘Category - B’ Item No. 5 (f).
	Court cases pending if any	No any court cases pending
	Other Relevant Informations	Application in the prescribed online format of ‘FORM-1’ along with the requisite documents is submitted herewith for grant ToRs.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
3	Mr. Alipasha Saudagar (Associate Director)	Mr. Mangesh Waze (Senior Technical Director)

6	Proposed Expansion and Modernization of Existing bulk drugs and intermediate Manufacturing unit	Proposed Expansion of Existing bulk drugs and intermediate Manufacturing unit
31	Olmesartam Medoximil Existing-0.043 Proposed-00 Total-0.043	Olmesartam Medoximil Existing-0.017 Proposed-00 Total-0.017
31	--	Temofovir Alafenamide Fumarate Existing-00 Proposed-0.45 Total-0.45
31	R & D product Existing-00 Proposed-0.5 Total-0.5	R & D product Existing-00 Proposed-0.05 Total-0.05
32	Dry and Wet Season : Fresh water – 149 CMD, Recycled Water - 56 CMD (not for flushing), Total water requirement – 202 CMD	Dry and Wet Season : Fresh water - 140 CMD, Recycled Water - 81 CMD (14 CMD for flushing & 67 CMD for cooling), Total water requirement - 221 CMD
33	Domestic Consumption: Existing (10 CMD), Proposed (0 CMD), Total (10 CMD).	Domestic Consumption: Existing (25 CMD), Proposed (0 CMD), Total (25 CMD).
33	Domestic Loss: Existing (2.5 CMD), Proposed (0CMD), Total (2.5 CMD),	Domestic Loss: Existing (2 CMD), Proposed (0CMD), Total (2 CMD),
33	Domestic Effluent: Existing (7.5 CMD), Proposed (0 CMD), Total (7.5 CMD).	Domestic Effluent: Existing (23 CMD), Proposed (0 CMD), Total (23 CMD).
33	Industrial Process: Existing (40 CMD), Proposed (8 CMD), Total (48 CMD).	Industrial Process: Existing (35 CMD), Proposed (10 CMD), Total (45 CMD).
33	Industrial Process Loss: Existing (0 CMD), Proposed (0CMD), Total (0 CMD),	Industrial Process Loss: Existing (1 CMD), Proposed (4CMD), Total (5 CMD),
33	Industrial Process Effluent: Existing (46 CMD), Proposed (12 CMD), Total (58 CMD)	Industrial Process Effluent: Existing (36 CMD), Proposed (14 CMD), Total (50 CMD).
33	Cooling Tower & Thermopack Consumption: Existing (80 CMD), Proposed (17 CMD), Total (97 CMD)	Cooling Tower & Thermopack Consumption: Existing (95 CMD), Proposed (9 CMD), Total (104 CMD).
33	Cooling Tower& Thermopack Loss: Existing (75 CMD), Proposed (14.5CMD), Total (89.5 CMD),	Cooling Tower& Thermopack Loss: Existing (72 CMD), Proposed (6.5 CMD), Total (78.5 CMD),
33	Cooling Tower& Thermopack Effluent: Existing (5 CMD), Proposed (2.5 CMD), Total (7.5CMD).	Cooling Tower & Thermopack Effluent: Existing (23 CMD), Proposed (2.5 CMD), Total (25.5 CMD).
34	Size and no of RWH tank(s) and Quantity : The details of rainwater harvesting will be incorporated in EIA report.	Size and no of RWH tank(s) and Quantity : one tank; Size – 52M X 34.20 m
34	Location of the RWH tanks(s): The details of rainwater harvesting will be incorporated in EIA report.	Location of the RWH tanks(s): North direction of plot layout.
36	Sewage Generation in KLD: 7.5	Sewage Generation in KLD: 18
37	Waste Generation in Operation Phase: Dry Waste: (1) Plastic Scrap, Glass scrap, wooden scrap, metal scrap and (2) Ash	Waste Generation in Operation Phase: Dry Waste: (1) Plastic Scrap, Glass scrap, wooden scrap, metal scrap (400 MT/Yr.) and (2) Ash (1.75 MT/D), (3) Battery Waste (3 MT/Yr.), (4) E-Waste (3 MT/Yr.)
37	Waste Generation in Operation Phase: Biomedical Waste(if applicable): NA	Waste Generation in Operation Phase: Biomedical Waste (if applicable): Biomedical Waste
37	Mode of Disposal of waste: Biomedical Waste(if applicable): NA	Mode of Disposal of waste: Biomedical Waste (if applicable): Biomedical Disposal Facility
38	Amount of effluent generation (CMD): 73 CMD	Amount of effluent generation (CMD): 98.5 CMD
38	Amount of treated effluent recycled: 56 CMD	Amount of treated effluent recycled: 81 CMD

39	Spent solvent: Cat.: 28.6, UOM: MT/M, Existing: 30, Proposed: 5, Total: 35. Method of Disposal: Sale to authorized party	Spent solvent: Cat.: 28.6, UOM: MT/M, Existing: 378.5, Proposed: 102, Total: 480.5. Method of Disposal: Sale to authorized party
39	Spent Catalyst/Spent Carbon: Cat.: 28.3, UOM:Kg/M, Existing: 500, Proposed: 300, Total: 800. Method of Disposal: CHWTSDF	Spent Catalyst: Cat.: 28.2, UOM: Kg/M, Existing: 125, Proposed: 200, Total: 325 Method of Disposal: CHWTSDF
39	Date expired, Discarded and Off-specification drugs: Cat.: 28.5, UOM:MT/M, Existing: 5, Proposed: 3, Total: 8. Method of Disposal: CHWTSDF	Date expired and Discarded drugs: Cat.: 28.5, UOM: Kg/M, Existing: 1500, Proposed: 1000, Total: 2500 Method of Disposal: CHWTSDF
39	Chemical Sludge from wastewater treatment: Cat.:35.3, UOM:MT/M, Existing: 1.5, Proposed: 18.5, Total: 20. Method of Disposal: CHWTSDF	Chemical Sludge from wastewater treatment: Cat.:35.3, UOM:MT/M, Existing: 0.75, Proposed: 15, Total: 15.75. Method of Disposal: CHWTSDF
39	Sludge from MEE system: Cat.:35.3, UOM:MT/M, Existing: 1.5, Proposed: 18.5, Total: 20. Method of Disposal: CHWTSDF	Sludge from MEE system: Cat.:35.3, UOM:MT/M, Existing: 20, Proposed: 50, Total: 70. Method of Disposal: CHWTSDF
39	Sludge from wet scrubber: Cat.:35.3, UOM:MT/M, Existing: 1.5, Proposed: 18.5, Total: 20. Method of Disposal: CHWTSDF	Sludge from wet scrubber: Cat.:35.3, UOM:MT/M, Existing: 0.025, Proposed: 0.05, Total: 0.075. Method of Disposal: CHWTSDF
40	Boiler- 2 TPH, 2 Nos. Fuel-FO-9.6 Lit/hr	Boiler- 2 TPH, 2 Nos. Fuel-FO-107 lit/hr
40	Thermo pack- 2 Lac kcal/hr, 1 Nos. Fuel-HSD-45 Lit/hr	Thermo pack- 2 Lac kcal/hr, 1 Nos. Fuel-HSD-22.68 lit/hr
40	DG Set – 1250 KVA, Fuel- HSD-11.7 Lit/hr	DG Set – 1250 KVA, Fuel- HSD-85 Lit/hr
44	Green Belt Development: Total RG area: Existing Green belt area – 27,576 Sq. M. (17.23% of Total Plot area)	Green Belt Development: Existing Green belt 48,400 Sq. M. (30% of Total Plot area)
44	No. of trees to be planted: Proposed green belt - 25,224 Sq. M. (16% of total plot area) List of trees to be planted under expansion will be incorporate in EIA report.	Proposed Green belt - 10,000 Sq. M. (6.2% of total plot area) No. of trees to be planted 3970 No. The list of trees planted under existing unit as well as list of trees to be planted under expansion will be incorporated in EIA report.
52	Air Pollution Control – Boiler, stack Capital cost Rs. In Lacs - 25 O & M cost Rs. In Lacs - For all component the O&M cost would be 500 lacs/year	Air Pollution Control – Boiler, stack Capital cost Rs. In Lacs - 25 O & M cost Rs. In Lacs - 4 lacs/year
52	Water Pollution Control - ETP Capital cost Rs. In Lacs - 300 O & M cost Rs. In Lacs - As above mentioned	Water Pollution Control - ETP Capital cost Rs. In Lacs - 400 O & M cost Rs. In Lacs - 150 lacs/year
52	Noise Pollution Control - Noise level Management Capital cost Rs. In Lacs - 20 O & M cost Rs. In Lacs - As above mentioned	Noise Pollution Control - Noise level Management Capital cost Rs. In Lacs - 20 O & M cost Rs. In Lacs - 2 lacs/year
52	Environmental Monitoring & Management - Environmental Monitoring & Management Capital cost Rs. In Lacs - 2 O & M cost Rs. In Lacs - As above mentioned	Environmental Monitoring & Management - Environmental Monitoring & Management Capital cost Rs. In Lacs - 5 O & M cost Rs. In Lacs - 15 lacs/year
52	Occupational Health Safety - Occupational Health Safety Capital cost Rs. In Lacs - 1 O & M cost Rs. In Lacs - As above mentioned	Occupational Health Safety - Occupational Health Safety Capital cost Rs. In Lacs - 10 O & M cost Rs. In Lacs – 0.5 lacs/year
52	Green belt Development - Green belt Development Capital cost Rs. In Lacs - 2 O & M cost Rs. In Lacs - As above mentioned	Green belt Development - Green belt Development Capital cost Rs. In Lacs - For Existing - 50 For Expansion - 5 O & M cost Rs. In Lacs - For Existing - 10 For Expansion - 0.50
52	MEE & VTFD – MEE & VTFD Capital cost Rs. In Lacs – 150 O & M cost Rs. In Lacs – As above mentioned	MEE & VTFD – MEE & VTFD - Merged in Water Pollution Control

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.
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 submitted water waste water management in the EIA report and also indicated water requirement at Sr. No 37 of the Consolidated Statement.
Drainage pattern of the project	PP considered contour levels while designing the drains on site
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits at project site.
Solid Waste Management	PP submitted Solid Waste Management in the EIA report and also indicated water requirement at Sr. No 36 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	PP submitted Energy Management in the EIA report and also indicated water requirement at Sr. No. 47 of the Consolidated Statement.
Traffic circulation system and risk assessment	PP proposes to provide six meter wide internal roads along with nine meter turning radius.
Landscape Plan	PP proposes to provide 33% green belt.
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 submitted EMP in the EIA report and also indicated water requirement at Sr. No. 47 of the Consolidated Statement.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP submitted their proposal for the grant of Environmental Clearance under category 5 (f) of the schedule attached to the EIA Notification, 2006.

The proposal was earlier considered in the 151st meeting of SEAC-1 for the grant of ToR wherein ToR was granted to the PP for the preparation of EIA/EMP report as per standard ToR published by the MoEF&CC along with following specific ToR points,

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

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

2. PP to submit lay out plan showing entry/exit gates, internal road width of six meters, turning radius of nine meters, location of pollution control equipment, parking areas, waste storage areas,33% green belt, rain water harvesting etc.

3. PP to submit copy of Structural Stability Certificate of the structures exists on the site.

4. PP to submit an undertaking for not having any eco sensitive area in the range of 5 KM from proposed project site.bmit an undertaking for not violating any requirements of EIA Notification, 2006.

5. 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.

6. 7. PP to carry out HAZOP and Risk Assessment study and submit Disaster Management Plan.

8. PP to submit hazardous chemical handling protocol

9. PP to submit drawings, cross sectional drawings of the manufacturing units, equipment layout plan along with report on adequacy of the existing space for the expansion activities.

10. PP to include highlights of chemistry involved in the process in the EIA report.

11. PP to submit detailed water balance calculations and include details of water conservation measure adopted in the EIA report.

12. PP to submit details of ETP design with respect to the design of units proposed for effluent treatment. PP to ensure ZLD for the effluent treatment.

13. PP to use solar power of administrative building and street lights.

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

15. 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.

After submission of EIA/EMP report the proposal was included in the agenda of 166th A meeting of SEAC-1 held on 15.06.2019 wherein PP requested to postpone the case, hence the proposal was deferred.

The proposal was again included in the agenda of 184th meeting of SEAC-1 wherein PP requested to postpone the case, hence the proposal was deferred.

Now the proposal is considered for appraisal.

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

1. PP to submit revised green belt layout showing existing and proposed green belt in distinct colours along with their area dimension.

2. PP to submit revised contour plan showing contour levels, storm water drains, invert levels, internal roads and rain water harvesting facilities. PP to submit storm water drain calculations and rain water harvesting calculation on the plan. PP also to mark the location of connection of storm water drain to the common MIDC drain along with its cross section and invert level. PP to consider 125 mm rain intensity in Mumbai / Konkan area and 100 mm in rest of the Maharashtra area for the purpose of calculations.

3. PP to include technical report on space adequacy with respect to the proposed expansion. PP also to include details of proposed buildings to be constructed on site in the EIA repot along with floor wise plan, cross sections and floor wise equipment layout etc.

4. PP to carry out ETP adequacy study with respect to the proposed expansion to accommodate increased hydraulic and pollution load in the ETP and requirement of any augmentation in the ETP to achieve parameters stipulated by the MPCB. PP to make necessary changes in the EMP and submit revised EMP.

5. PP to include detailed water balance calculations considering 50 KL/Ha water for the development of green belt. PP to make necessary changes in the EMP and submit revised EMP.

6. PP to submit structural stability certificate of existing buildings mentioning there in year of construction and its stability and safety to accommodate proposed expansion activities.

7. PP to submit an undertaking of implementation of all recommendations of the HAZOP and Risk Assessment study.

8. PP to submit CER plan for the development of social and environmental infrastructure in the Z.P School/ Primary Health Centres in the study area of prosed project on consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.

9. PP to include all above points in the EIA/EMP report and submit revised EIA/EMP.

10. PP to ensure that, the uniform information is given in the Consolidated Statement, Form-I/II, EIA/EMP report and presentation at the time of appraisal.

Representative of PP was present during the meeting along with Accredited Environmental consultant M/s. Equinox Environment (I) Pvt. Ltd.

ToR was granted to the PP in 151st meeting of SEAC- 1 held on 24.05.2018. After submission of EIA/EMP report the proposal was considered in the 166A meeting of SEAC-1 held on 15.06.2019 wherein the proposal was deferred as PP was absent for the meeting. The proposal was again considered in the 184th meeting of SEAC-1 held on 04.06.2020wherein PP requested to postpone the case. Thereafter the proposal was again listed in 189th meeting of SEAC-1 held on 07.08.2020 wherein the proposal was deferred due to want of additional information.

Now PP submitted additional information.

The proposal was appraised based on the documents submitted and presented by the PP and their accredited Environmental Consultant.

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposal for prior Environmental Clearance to the SEIAA subject to following specific EC conditions –

DECISION OF SEAC

Earlier EC NoJ-11011/48/2005-IA(I) dated 05.04.2006; PP submitted copy of certified compliance of earlier EC herein no major non-compliance is observed by the Authority

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposal for prior Environmental Clearance to the SEIAA subject to following specific EC conditions –

Specific Conditions by SEAC:

1) PP to achieve the standard parameters stipulated for Bulk Drugs and Formulation (Pharmaceuticals) sector in the Environment (Protection) Second Amendment Rule, 2021 dated 6th August 2021 published by MoEF&CC.
2) PP to spend entire CER funds before commissioning of proposed activity in consultation with the District Collector.
3) PP to provide Online Continuous Monitoring System connected to the servers of CPCB and MPCB.
4) PP to provide Zero Liquid Discharge Effluent Treatment Plant.
5) PP to explore possibility to assess techno-economic feasibility of using technology for MEE such as low temperature/mechanical vapour compressor etc. so s to reduce operation cost and use of natural resources.
6) PP to complete rain water harvesting facility before the commissioning of the manufacturing activity.
7) PP to provide sliding gate at entry and exit to achieve maximum turning radius of vehicle entering the site.

FINAL RECOMMENDATION

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

Agenda of 205th Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 205th (Day-3) **Meeting Date** September 9, 2021

Subject: Environment Clearance for Environment Clearance for Proposed expansion of Synthetic Organic Chemicals Manufacturing Unit at Plot No. G-2, Lote Parshuram MIDC, Taluka Khed, Dist. Ratnagiri by Spak Surfactants Private limited.

Is a Violation Case: No

1.Name of Project	Environment Clearance for Proposed expansion of Synthetic Organic Chemicals Manufacturing Unit at Plot No. G-2, Lote Parshuram MIDC, Taluka Khed, Dist. Ratnagiri by Spak Surfactants Private limited.
2.Type of institution	Private
3.Name of Project Proponent	Spak Surfactants Private Limited
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Industrial project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. EC obtained for existing project. (EC Obtained from Environment Department, Govt of Maharashtra vide letter No. SEAC-2011/CR-857/TC-2 dated 1st April 2015)
8.Location of the project	Plot No. G-2, Lote Parshuram MIDC
9.Taluka	Khed
10.Village	Dhamandevi
Correspondence Name:	Mr Ameya Joglekar
Room Number:	A-2/3, Suman Nagar
Floor:	--
Building Name:	--
Road/Street Name:	Sion Trombay Road
Locality:	Suman Nagar, Chembur
City:	Mumbai 400071
11.Whether in Corporation / Municipal / other area	Lote Parshuram MIDC (Maharashtra Industrial Development Corporation)
12.IOD/IOA/Concession/Plan Approval Number	MIDC approval
	IOD/IOA/Concession/Plan Approval Number: DB/LOTE/G-2/C04818 Dated 1/7/2016) BCC-B01585 Dated 21/3/2017.
	Approved Built-up Area: 5356.215
13.Note on the initiated work (If applicable)	No construction work pertain to proposed project
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC approval
15.Total Plot Area (sq. m.)	19999 sq m
16.Deductions	0
17.Net Plot area	0
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.): 5492.39
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 23-03-2017
19.Total ground coverage (m2)	5492.39
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	250000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable

23.Number of tenants and shops	Not applicable as proposed project is an industrial activity.
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Min. 6 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min. 9 m
29.Existing structure (s) if any	Existing operating unit- Production plant, storage tank, warehouse, ETP, Utilities
30.Details of the demolition with disposal (If applicable)	No, Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Esters	12000 TPA (combined capacity)	--	12000 TPA (combined capacity)
2	Sulphosuccinate surfactant and formulations	12000 TPA (combined capacity)	--	12000 TPA (combined capacity)
3	Coco amido Propyl Betaine	12000 TPA (combined capacity)	--	12000 TPA (combined capacity)
4	Formulations of esters and surfactants	12000 TPA (combined capacity)	--	12000 TPA (combined capacity)
5	Coco amido Propyl Betaine	0	6000 TPA	6000 TPA
6	Sorbitan Esters (Sorbitan Mono Oleate /Sorbitan Tri Oleate /Sorbitan Mono Laurate/Sorbitan Mono Palmitate /Sorbitan Mono Stearate/Sorbitan Tri Stearate)	0	1750	1750

7	Glycerol Esters (Glycerol Mono Stearate /Glycerol Mono Oleate /Glycerol Tri Oleate)	0	800	800
8	Polyol Esters (TMP Tri Oleate /Pentaerythritol Tetra Oleate /NPG Dioleate)	0	1150	1150
9	Glycol Esters (Ethylene Glycol Mono stearate /Ethylene Glycol Di stearate /Propylene Glycol Di Oleate)	0	600	600
10	Ethyl Hexyl (Octyl) Esters (2-Ethyl Hexyl Oleate /2-Ethyl Hexyl Palmitate /2-Ethyl Hexyl Stearate /2-Ethyl Hexyl Cocoate/Laurate /Di Octyl Maleate)	0	1600	1600
11	Food Emulsifier Esters (Polyglycerol Polyrecinoleate /Polyglycerol Esters /Esters of Distilled Mono glyceride /Sodium/Calcium stearoyl lactylate)	0	1000	1000
12	Phosphate Esters	0	500	500
13	Fatty Amides (COCO Monoethanol amide /COCO diethanol amide /COCO Amono dimethyl propyl amide)	0	2800	2800
14	Esterquats (DiHydrogenated Palmoylethyl Hydroxyethylmonium Methosulfate)	0	1200	1200
15	Sulphosuccinate surfactant (Sodium Di Octyl Sulphosuccinate /Sodium Di Amyl Sulphosuccinate) and its formulations (100 % basis)	0	600	600
16	Total products	12000 TPA	18000 TPA	30000 TPA

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	260 CMD
	Recycled water - Flushing (CMD):	40 CMD (cooling make up)
	Recycled water - Gardening (CMD):	12 CMD
	Swimming pool make up (Cum):	Nil
	Total Water Requirement (CMD) :	312 CMD
	Fire fighting - Underground water tank(CMD):	50 Cubic Meter tank capacity is provided.
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	245 CMD
	Recycled water - Flushing (CMD):	40 CMD (cooling makes up)
	Recycled water - Gardening (CMD):	--
	Swimming pool make up (Cum):	Nil
	Total Water Requirement (CMD) :	285 CMD
	Fire fighting - Underground water tank(CMD):	50 Cubic Meter tank capacity is provided.
	Fire fighting - Overhead water tank(CMD):	Not applicable
	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	8	8	16	2	2	4	6	6	12
Cooling tower & thermopack	92	82	174	90	80	170	2	2	4
Industrial Process	30	65	95	12	47	59	18	18	36
Gardening	16	11	27	16	11	27	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 - 20 m
	Size and no of RWH tank(s) and Quantity:	1 no. of 5 cu. m
	Location of the RWH tank(s):	Within site
	Quantity of recharge pits:	-
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	Rs. 5 lakhs
	Budgetary allocation (O & M cost) :	Rs. 1 lakhs
	Details of UGT tanks if any :	50 cum fire water tank is already provided.
35.Storm water drainage	**Natural water drainage pattern:**	West to East towards MIDC common drain.
	Quantity of storm water:	0.219 cu. m/sec
	Size of SWD:	A type drain- 0.202 cu. m/sec, Type B drain- 0.150 cu. m/sec
Sewage and Waste water	**Sewage generation in KLD:**	12 CMD
	STP technology:	Sewage will be treated in independent STP (MBBR)
	Capacity of STP (CMD):	12 CMD
	Location & area of the STP:	Within site
	Budgetary allocation (Capital cost):	Rs. 20 Lakh
	Budgetary allocation (O & M cost):	Rs. 5 Lakh

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Minor quantity of construction debris will be generated during project.
	Disposal of the construction waste debris:	Construction waste will be disposed of as per Construction and Demolition Waste Rules, 2016.
Waste generation in the operation Phase:	**Dry waste:**	Total After expansion - Plastic bags – 800 Nos/day, HDPE Drums – 100 Nos/day, Fly Ash – 24 TPD, Burnt Sugar – 1.2 TPD
	Wet waste:	Nil
	Hazardous waste:	Used/Spent Oil, Chemical sludge from waste water treatment, Filters and filter material which have organic liquids
	Biomedical waste (If applicable):	No, Not applicable
	STP Sludge (Dry sludge):	Will be send to CHWTSDF
	Others if any:	E-waste & Used Lead acid batteries will be send to authorized reprocessor

Mode of Disposal of waste:	**Dry waste:**	Non-Hazardous waste will be sold to authorized recyclers.
	Wet waste:	Nil
	Hazardous waste:	Hazardous waste will be disposed of to CHWTSDF/ Sale to authorized Recyclers/Re- processors as per H & O Waste (M & TM) Rules, 2016
	Biomedical waste (If applicable):	No, Not applicable
	STP Sludge (Dry sludge):	Will be used as manure at site
	Others if any:	E waste will be disposed of to authorized recycler & used batteries shall be returned to battery suppliers.
Area requirement:	**Location(s):**	within plot
	Area for the storage of waste & other material:	20 Sq. Meter
	Area for machinery:	No machinery required.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 10 Lakhs
	O & M cost:	Rs. 12 Lakhs

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	5-7	6.0 to 8.5	6.5 to 8.5
2	Biological oxygen demand	mg/L	2000 to 3000	< 30	100
3	Chemical oxygen demand	mg/L	5000 to 7000	< 100	250
4	Oil & Grease	mg/L	5 – 10	< 1	10
5	Total dissolved solids	mg/L	500-1000	< 100	2100
6	Total ammoniacal nitrogen	mg/L	5-10	< 1	10

Amount of effluent generation (CMD):	Trade effluent: 40 cmd (after expansion)
Capacity of the ETP:	50 cmd
Amount of treated effluent recycled :	40 cmd
Amount of water send to the CETP:	Nil, Unit will maintain Zero Liquid discharge.
Membership of CETP (if require):	No
Note on ETP technology to be used	Collection tank > Aeration > Fenton > Settling > Filter press > MEE > Permeate recycle. Sludge to CHWTSDF
Disposal of the ETP sludge	ETP sludge will be disposed of at CHWTSDF.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used/ Spent Oil	5.1	TPM	2	8	10	CHWTSDF/Sate to authorized Reprocessor
2	Chemical sludge from waste water treatment	35.3	TPM	8	30	38	CHWTSDF

3	Filters and filter material which have organic liquids	36.2	TPM	0.5	5	5.5	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	3 TPH Boiler, 15 Lackcal/ hr & 8 Lackcal/ hr Thermic Fluid heater	Coal 30.72 TPD or Briquette 34.92 TPD	1	Common stack-30.5	0.6	162
2	DG set 240 KVA	Diesel 60 Lit/hr	2	6 above roof	0.15	168
3	3 TPH Boiler	Coal 12 TPD or Briquette 13 TPD	3	30.5	0.45	150
4	15 Lakh Kcal / hr Thermic Fluid heater	Coal 13 TPD or Briquette 14 TPD	4	30.5	0.45	150
5	15 Lakh Kcal / hr Thermic Fluid heater	Coal 13 TPD or Briquette 14 TPD	5	30.5	0.45	150
6	DG set (400 KVA	Diesel 100 Lit/hr	6	6 above roof	0.15	150
7	Process stack	--	7	12	0.3	40

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	30.72 TPD	38 TPD	68.72 TPD
2	Bio briquette	34.92 TPD	41 TPD	75.92 TPD
3	HSD	60 Lit/hr	100 Lit / hr	160 Lit/hr
41.Source of Fuel		From nearby vendors		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	Green belt area: 6653 sq. m.
	No of trees to be cut :	No trees to be cut
	Number of trees to be planted :	~1000 nos. (existing & proposed)
	List of proposed native trees :	refer below
	Timeline for completion of plantation :	As per project progress

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	Anona squamosa	Custard apple	As per green belt development	Fast Growing, Evergreen, Round
2	Mimusops elengi	Bakuli	As per green belt development	Fast Growing, Evergreen, Oblong/ Round

3	Lagerstroemia speciosa	Queen Crape Myrtle	As per green belt development	Fast Growing, Evergreen, Oblong
4	Polyalthia longifolia	Ashok	As per green belt development	Fast Growing, Evergreen, Conical/ Rounded
5	Careya arborea	Kumbhi	As per green belt development	Fast Growing, Evergreen, Spreading
6	Mangifera indica	Mango	As per green belt development	Fast Growing, Evergreen, Round/ oblong
7	Ficus glomerata	Umber	As per green belt development	Fast Growing, Evergreen, Spreading
8	Hardwickia binata	Anjan	As per green belt development	Fast Growing, Evergreen, Spreading
9	Aegle marmelos	Bel	As per green belt development	Fast Growing, Evergreen, Round/ oblong
10	Feronia elephantum	Kawath	As per green belt development	Fast Growing, Evergreen, Round/ oblong
11	Azadirachta indica	Neem	As per green belt development	Fast Growing, Evergreen, Spreading
12	Cochlospermum religiosum	Ganeri	As per green belt development	Fast Growing, Evergreen, Spreading
13	Holoptelea integrifolia	Ainsadada/ Vavla	As per green belt development	Fast Growing, Evergreen, Spreading
14	Balaniles roxburghii	Hinganbet/ Hingu	As per green belt development	Fast Growing, Evergreen, Spreading
15	Holarrhena puboscens	Pandhra-Kuda	As per green belt development	Fast Growing, Evergreen, Oblong
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	--	--	--

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	150 KVA
	DG set as Power back-up during construction phase	DG set of 240 KVA & 400 KVA
	During Operation phase (Connected load):	500 KVA (Total)
	During Operation phase (Demand load):	500 KVA (Total)
	Transformer:	--
	DG set as Power back-up during operation phase:	DG set of 240 KVA & 400 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No, Not applicable

48.Energy saving by non-conventional method:

Roof top solar system of 30 KW

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Roof top solar system	30 KW

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air pollution-Boiler & Thermic fluid heater	Common stack with cyclone dust collector	Cyclone dust collector & bag filter with Stack height
Air pollution-DG set	Stack	Stack
Water pollution	Pre-treatments, ETP (Pri+Tert), MEE	Pre-treatments, Fenton treatment, ETP (Pri+Tert), MEE
Noise	PPEs, Acoustic Enclosures	PPEs, Acoustic Enclosures
Hazardous waste	Disposal to CHWTSDF/ As per HW Rules, 2016	Disposal to CHWTSDF/ As per HW Rules, 2016
Non-Hazardous Waste	Sale to Authorized Vendors	Sale to Authorized Vendors

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 25 Lakhs
	O & M cost:	Rs.. 1 Lakh

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	Provision of barricading sheets, sprinkler, dust suppression	2
2	Water	Drinking water and sanitary facility	1
3	Soil	Site preparation, levelling, top soil preservation	3
4	Solid waste	Material storage precaution, Construction and demolition waste safe disposal	1
5	Safety & health	Safe shelter for worker, Drinking water and sanitary facility, PPE	4

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	Bag filter, Dust collector	10	5
2	Water pollution control	Construction of ETP, RO, MEE	90	38
3	Solid Waste management	Storage, Transport & Disposal	10	12
4	Environment Monitoring & Management	Laboratory & Chemicals, Third party (MOEF&CC approved) monitoring, Carbon and water foot print monitoring	15	2
5	Noise	Provision of Acoustic enclosures	5	1
6	Occupational Health & Safety	Fire Fighting System, OHC, Medical check-up, PPE	30	7
7	Green belt	Development and Maintenance	4	3
8	LCA recommendation	Process improvement	5	0
9	Rain water harvesting	Construction of the RWH tank & drain system	5	1
10	Solar panel	Installation and Maintenance	25	1

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
Rice bran fatty acid/ other fatty acid	Liquid	Within site	6 nos. of 35 KL each	6 nos. of 35 KL each	7311 TPA	Local/ Import	tanker
Coconut/palm kernel oil	Liquid	Within site	4 nos. of 35 KL each	4 nos. of 35 KL each	3000 TPA	Local/ Import	tanker
CAPB	Liquid	Within site	2 nos. of 35 KL each	2 nos. of 35 KL each	-	-	-
Esterquat	Liquid	Within site	2 nos. of 35 KL each	2 nos. of 35 KL each	-	-	-
Ester	Liquid	Within site	8 nos. of 35 KL each	8 nos. of 35 KL each	-	-	-

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	-
Parking details:	**Number and area of basement:**	-
	Number and area of podia:	-
	Total Parking area:	2404.17 Sq.M.
	Area per car:	2.5 m x 5.0 m
	Area per car:	2.5 m x 5.0 m
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	-
	Public Transport:	-
	Width of all Internal roads (m):	Min 6 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	5 (f)- B
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	21-06-2019

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
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 submitted water waste water management in the EIA report and also indicated water requirement at Sr. No 37 of the Consolidated Statement.
Drainage pattern of the project	PP considered contour levels while designing the drains on site
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits at project site.
Solid Waste Management	PP submitted Solid Waste Management in the EIA report and also indicated water requirement at Sr. No 36 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	PP submitted Energy Management in the EIA report and also indicated water requirement at Sr. No. 47 of the Consolidated Statement.
Traffic circulation system and risk assessment	PP proposes to provide six meter wide internal roads along with nine meter turning radius
Landscape Plan	PP proposes to provide 33% green belt.
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 submitted EMP in the EIA report and also indicated water requirement at Sr. No. 47 of the Consolidated Statement.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP submitted their application for the grant of prior Environmental Clearance under category 5(f) B1 of the EIA Notification, 2006.

The proposal was considered in the 167th meeting of SEAC-1 held on 30.07.2019 wherein ToR was granted to the PP. The committee prescribed the following additional TOR along with Standard TOR as available on the Ministry of Environment, Forest and Climate Change website for preparation of EIAEMP report.

1. PP to submit certified copy of compliance of earlier EC No. SEAC-2011/CR-857/TC-2 dated 01.04.2015 from Regional Office of MoEF&CC, Nagpur as per OM issued by MoEF&CC on 07/09/2017
2. PP to submit certificate of incorporation of the company, list of directors and memorandum of association/articles
3. PP to submit lay out plan showing internal roads with minimum 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
4. PP to submit plan layout showing contour levels, storm water drain lines and location of rain water harvesting facilities along with calculations. PP to consider 125 mm rain intensity in Mumbai / Konkan area and 100 mm in rest of the Maharashtra area for the purpose of calculations.
5. PP to submit an undertaking for not violating any requirements of EIA Notification, 2006 amended from time to time
6. PP to carry out life cycle analysis of all the products manufactured 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.
7. 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.
8. PP to include detailed water balance calculations along with design details of zero liquid discharge ETP in the EIA report.
9. PP to include detailed water balance calculations along with design details of Zero Liquid Discharge effluent treatment plant.
10. PP to prepare the Legal Register with respect to compliance of various Acts , Rules and Regulations applicable to the manufacturing activities
11. PP to carry out HAZOP and QRA and submit disaster management plan.
12. PP to include details of generation and disposal of hazardous waste including byproducts as per Hazardous and other waste (Management and Trans boundary Movement) Rules, 2016 in the EIA report
13. 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.
14. PP to submit structural stability certificate of existing building with respect to the proposed expansion.
15. PP to include water and carbon foot print monitoring in the EMP
16. PP to submit hazardous chemical handling protocol
17. 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
18. PP to ensure that, the uniform information is given in the Form-I/II, EIA/EMP report, presentation and consolidated statement

Now, PP submitted EIA/EMP report for appraisal.

PP submitted copy of certified compliance of earlier EC No. SEAC-2011/CR-857/TC-2 dated 01.04.2015 obtained from Regional Office of MoEF&CC, Nagpur dated 12.02.2020.

PP submitted EMP in the EIA report and also indicated water requirement at Sr. No. 47 of the Consolidated Statement.

1. PP to submit copy of certified compliance of conditions stipulated on the Consent to Operate letter to be obtained from the Maharashtra Pollution Control Board.

2. PP to provide capping for individual products and make necessary changes in the documents submitted/uploaded including EIA report and Consolidated Statement.

3. PP to submit to the scale lay out plan showing internal roads with minimum six meter width and nine meter turning radius, entry/exit gates provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt on periphery of the plot with their dimensions, PP to ensure authentication of the layout with signature of PP, Consultant and Architect.

4. PP to submit contour plan showing contour levels, storm water drains, invert levels, internal roads and rain water harvesting facilities. PP to submit storm water drain calculations and rain water harvesting calculation on the plan. PP also to mark the location of connection of storm water drain to the common MIDC drain along with its cross section and invert level.

5. PP to submit details of product wise life cycle analysis results mentioning there in green house potential, ozone depletion potential, acidification and eutrophication potential along with proposed mitigation measures. PP also to carry out comparative of potential of each parameter before and after implementation of proposed mitigation measures. A detailed plan for implementation of proposed mitigation measures along with budgetary allocation and specific time line to be included in the EIA/EMP report.

6. 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.

7. PP to prepare and include construction management plan along with construction phase EMP in the EIA report.

8. PP to submit revised EMP along with bifurcation of cost proposed for mitigation of impacts on various environmental parameters.

9. PP to use briquette as a fuel to the utilities in proposed project instead of coal to reduce air pollution.

10. PP to submit documents related to the socioeconomic survey carried out for the proposed project along with observations, recommendation and proposed implementation plan.

11. PP to submit their CER plan for development of social and environmental infrastructure in the Z.P. Schools / Primary Health Centre within the study area of the proposed project prepared in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.20218.

12. PP to ensure that, the uniform information is submitted in the Consolidated Statement. Form-I/II, EIA/EMP report and Presentation at the time of appraisal.

DECISION OF SEAC

Representative of PP was present during the meeting along with Accredited Environmental consultant M/s. Aditya Environmental Services Pvt. Ltd.

ToR was granted to the PP in 167 A meeting of SEAC- 1 held on 30.07.2019. After submission of EIA/EMP report the proposal was considered in the 189th meeting of SEAC-1 held on 06.08.2020 wherein the proposal was deferred for additional information.

Now PP submitted additional information.

The proposal was appraised based on the documents submitted and presented by the PP and their accredited Environmental Consultant.

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to recommend the proposal for prior Environmental Clearance to the SEIAA subject to following specific EC conditions –

Specific Conditions by SEAC:

1) PP to spend entire CER funds before commissioning of proposed activity in consultation with the District Collector.
2) PP to provide Zero Liquid Discharge Effluent Treatment Plant.
3) PP to use 50:50 coal and briquette as a fuel to the utility till natural gas is made available in the industrial area.
4) PP to complete rain water harvesting facility before the commissioning of the manufacturing activity.
5) PP to provide sliding gate at entry and exit to achieve maximum turning radius of vehicle entering the site.
6) As there are Schedule-I species exists in the study area; PP to prepare a Wild Life Conservation plan in consultation with the Forest Department.

FINAL RECOMMENDATION

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