159th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 159th (A) - Day-2 **Meeting Date** February 2, 2019

Subject: Environment Clearance for Environmental Clearance for proposed production capacity enhancement of Adima Oganics (I) Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	Adima Organics (I) Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Sandeep Dattatraya Deshmukh
4.Name of Consultant	Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Expansion of Fine & Specialty Chemicals manufacturing unit , Schedule 5(f), Category B-1 under EIA Notification 2006
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in exisiing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No, since not applicable
8.Location of the project	Plot No. 103 & 104, Phase-IV, STICE, Musalgaon, Taluka - Sinnar, District- Nashik
9.Taluka	Sinnar
10.Village	Musalgaon
Correspondence Name:	Mr. Sandeep Dattatraya Deshmukh
Room Number:	178/A
Floor:	--
Building Name:	--
Road/Street Name:	Mahatma Nagar
Locality:	Nasik
City:	Nasik
11.Area of the project	Notified STICE (Sinnar Taluka Industrial Co-operative Estate)
12.IOD/IOA/Concession/Plan Approval Number	--
	IOD/IOA/Concession/Plan Approval Number: --
	Approved Built-up Area: 1558.90
13.Note on the initiated work (If applicable)	Currently operational manufacturing unit
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	--
15.Total Plot Area (sq. m.)	4064.09 sq. m.
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 1588.90
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 19-06-2000
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	56000000.00

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
2	Not applicable	Not applicable	Not applicable
3	Not applicable	Not applicable	Not applicable
4	Not applicable	Not applicable	Not applicable
5	Not applicable	Not applicable	Not applicable
6	Not applicable	Not applicable	Not applicable
7	Not applicable	Not applicable	Not applicable
8	Not applicable	Not applicable	Not applicable
9	Not applicable	Not applicable	Not applicable
10	Not applicable	Not applicable	Not applicable
11	Not applicable	Not applicable	Not applicable
12	Not applicable	Not applicable	Not applicable
13	Not applicable	Not applicable	Not applicable
14	RNot applicable	Not applicable	Not applicable
15	Not applicable	Not applicable	Not applicable

23.Number of tenants and shops	Not applicable
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)	9
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Manufacturing plant & associated infrastructure are present on project plot
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	N PROPYL BROMIDE	5.0	95.0	100.0
2	N BUTYL BROMIDE	20.0	130.0	150.0
3	N HEXYL BROMIDE	10.0	190.0	200.0

4	3-CHLOROPROPIONYL CHLORIDE	2.0	Production will be stopped	--
5	3-PICOTYL CHLORIDE HYDROCHLORIDE	2.0	Production will be stopped	--
6	Alpha Bromo 2-Chloro Phenyl Acetic Acid	--	10.0	10.0
7	Methyl Alpha Bromo 2-Chloro Phenyl Acetate	--	10.0	10.0
8	1,4-DIBROMO BUTANE	--	10.0	10.0
9	TRIETHYL PHOSPHONOACETATE	--	20.0	20.0
10	Bromoacetaldehyde Dimethyl Aectal	--	20.0	20.0
11	DECYL BROMIDE	--	10.0	10.0
12	Pthalazinone Stage 1	--	2.0	2.0
13	Glyocuril	--	20.0	20.0
14	2,3-Dioxo Indole	--	20.0	20.0
15	Sulphuric acid (By-product)	--	123.21	123.21
16	Hydrobromic acid (By-product)	--	12.0	12.0
17	Methyl acetate (By-product)	--	16.74	16.74
18	Calcium bromide solution (By-product)	--	18.63	18.63
19	Phsophoric acid (By-product)	--	0.10	0.10

32.Total Water Requirement

Dry season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable

Wet season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

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	0.6	1.9	2.5	0.2	--	0.2	0.4	1.9	2.3
Industrial Process	0.2	16.8	17.0	--	0.47	0.47	0.2	16.33	16.53
Cooling tower & thermopack	3.2	14.0	17.2	1.9	9.36	11.26	--	2.84	2.84 (3.1 Boile condensate recovery)
Gardening	1.1 (Recycled)	5.6	6.7	1.1 (Recycled)	5.6	6.7	--	--	--

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	18.36 m bgl (Pre monsoon)
	Size and no of RWH tank(s) and Quantity:	1 m x 2 m x 1 m = 2 m3, 1 No. Tank of 2 m3 capacity
	Location of the RWH tank(s):	--
	Quantity of recharge pits:	--
	Size of recharge pits :	--
	Budgetary allocation (Capital cost) :	Rs. 2,00,000/-
	Budgetary allocation (O & M cost) :	Rs. 75,000/-
	Details of UGT tanks if any :	1. Fire fighting water storage tank of 100 KL capacity 2. Day to day usage water storage tank of 25 KL capacity

35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	1.02 m3/hr.
	Size of SWD:	Width = 0.6 m, Depth = 0.762 m & Length = 265.1 m
Sewage and Waste water	**Sewage generation in KLD:**	2.3
	STP technology:	Domestic Sewage will be treated in aeration tank of ETP
	Capacity of STP (CMD):	--
	Location & area of the STP:	--
	Budgetary allocation (Capital cost):	--
	Budgetary allocation (O & M cost):	--
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	--
	Disposal of the construction waste debris:	--
Waste generation in the operation Phase:	**Dry waste:**	--
	Wet waste:	--
	Hazardous waste:	Spent Solvent - 10.5 T/M, Distillation Residue - 1.1 T/M, Discarded Containers - 300 Nos./Month, ETP Sludge - 3.025 T/M, MEE Residue - 218.4 T/A
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--
Mode of Disposal of waste:	**Dry waste:**	--
	Wet waste:	--
	Hazardous waste:	Spent Solvent, Distillation Residue, ETP Sludge & MEE Residue to CHWTSDF and Discarded Containers - Sale to authorized recyclers
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--
Area requirement:	**Location(s):**	--
	Area for the storage of waste & other material:	Hazardous waste storage area - 10 sq.m.
	Area for machinery:	--
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	--
	O & M cost:	--

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	4.0	8.0	6-8.5
2	TDS	mg/l	2100.0	1900.0	2100.0
3	BOD	mg/l	3000.0	90	100.0
4	COD	mg/l	6000.0	240.0	250.0
5	O & G	mg/l	2.5	1.2	10.0

Amount of effluent generation (CMD):	21.67
Capacity of the ETP:	ETP of 25 CMD capacity, Stripper MEE of 12 CMD capacity & R.O of 25 CMD capacity
Amount of treated effluent recycled :	18.5 CMD & 3.1 CMD Boiler condensate recovery
Amount of water send to the CETP:	--
Membership of CETP (if require):	--
Note on ETP technology to be used	The HCOD-HTDS effluent from manufacturing process will be sent to Stripper MEE & LCOD-LTDS effluent will be sent to conventional ETP, MEE condensate along with domestic sewage will be sent to aeration tank of secondary treatment which will be further sent to R.O system along with boiler & cooling tower blow downs, R.O reject will be subjected to MEE & R.O permeate will be reused thus the project will be Zero Liquid Discharge activity .
Disposal of the ETP sludge	ETP slude will be disposed to CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent solvent	20.2	T/M	0.05	10	10.05	CHWTSDF
2	Distillation Residue	20.3	T/M	0.1	1.0	1.1	CHWTSDF
3	ETP Sludge	35.3	T/M	0.025	3.0	3.025	CHWTSDF
4	MEE Residue	37.3	T/A	--	218.4	218.4	CHWTSDF
5	Discarded Comtainers	33.1	Nos./M	100.0	200.0	300.0	Sale To Authorized Dealers /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	Common stack attached to 2 boilers of 1.1 TPH	Furnace Oil - 580 l/day	1	30.0	0.45	134 0C
2	D.G of 63 kVA	Diesel - 500 l/month (D.G set will be operated only during power failure)	2	3.0	0.42	174 0C
3	2 Stage alkaline scrubber attached to process reactors	--	3	10.0 (Above roof)	--	--
4	2 Stage alkaline scrubber attached to process reactors	--	4	10.0 (Above roof)	--	--

5	Alkaline scrubber attached to Bromine storage tank	--	5	7.0 (Above tank)	--	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Furnace Oil	250 l/day	330 l/day	580 l/day
2	Diesel	200 l/month	300 l/month	500 l/month
41.Source of Fuel		Furnace Oil - D.M.K Petro Traders & Carriers Pvt. Ltd., Navi Mumbai and Diesel - Sourced from local vendor		
42.Mode of Transportation of fuel to site		Tanker by Road		

43.Green Belt Development	**Total RG area :**	1341.00
	No of trees to be cut :	--
	Number of trees to be planted :	166
	List of proposed native trees :	Cassia fistula, Bombax ceiba, Asltonia shcolaris, Macaranga peltata, Schleichera oleosa, Microcos paniculata, Terminalia elliptica, Terminalia paniculata, Terminalia bellirica, Cordia dichotoma, Helicteres isora, Holoptelea integrifolia, Butea monosperma, Oroxylum indicum, Erythrina suberosa, Azadirachta indica, Trema orientalis, Pongamia pinnata, Neolamarckia cadamba, Pterospermum acerifolium, Dalbergia sissoo & Millingtonia hortensis
	Timeline for completion of plantation :	1 year after grant of EC

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Bahava	Native tree of forest tracts of Nashik Distirct having flowers attracting bees and butterflies	7
2	Bombax ceiba	Sawar	A native deciduous tree with fragrant flowers attracting large number of birds & insects	7
3	Asltonia shcolaris	Saptaparni	A native evergreen tree with fragrant flowers & leaves having comparatively higher dust settling index	7
4	Macaranga peltata	Chandwar	A native tree found in abundance across the plains of Nahik District	7
5	Schleichera oleosa	Kusum	A native deciduous trees of forest tracts of Nashik District	7

6	Microcos paniculata	Shirali	A native evergreen medium sized tree of forest tracts of Nashik District	7
7	Terminalia elliptica	Ain	A native evergreen tree of forest tracts of Nashik District	7
8	Terminalia paniculata	Kindal	A native deciduous tree of forest tracts of Nashik District	7
9	Terminalia bellirica	Baheda	A native deciduous tree of forest tracts of Nashik District	7
10	Cordia dichotoma	Shelu	A native deciduous tree of forest tracts of Nashi District attracting large number of insects	7
11	Helicteres isora	Murudsheng	A native deciduous medium sized tree of forest tracts of Nashik District visited by large number of birds	7
12	Holoptelea integrifolia	Ainsadada	A native deciduous tree of forest tracts of Nashik District	7
13	Butea monosperma	Palash	A native brilliantly flowering tree abundant the Nashik District visited by large number of birds	7
14	Oroxylum indicum	Tetu	A native ornamental tree	7
15	Erythrina suberosa	Pangara	A native deciduous medium sized tree of forest tracts of Nashik Distirct visited by large number of birds	7
16	Azadirachta indica	Kadulimb	A native evergreen tree capable of surviving in comparatively polluted environs	7
17	Trema orientalis	Ghol	A native deciduous medium sized tree with hairy leaves having comparatively higher dust settling index	7
18	Pongamia pinnata	Karanj	A native deciduous tree well suited to intense heat and sunlight and drought tolerant	7
19	Neolamarckia cadamba	Kadamba	A native evergreen tree with tremendous blooms attracting large number of insects	7

20	Pterospermum acerifolium	Karnikar	A native evergreen tree with large & hairy leaves having comparatively high dust settling index generally used for ornamental plantation	7
21	Dalbergia sissoo	Shisham	A native evergreen tree attracting large number of insects	7
22	Millingtonia hortensis	Kaval nimb	A native fast growing flowering tree used for ornamental plantation	19
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)	--
	DG set as Power back-up during construction phase	--
	During Operation phase (Connected load):	600 kW
	During Operation phase (Demand load):	750 kVA
	Transformer:	Existing 250 kVA
	DG set as Power back-up during operation phase:	63 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar lights	14

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed

1.1 TPH Steam boiler	Stack of 30 m height	--
1.1 TPH Steam boiler	--	Existing common stack of 30 m height for both steam boilers
Manufacturing process	2 stage alkaline scrubber with stack of 10 m height above roof	--
Bromine storage tank	Alkaline scrubber with stack of 7 m height above storage tank	--
Manufacturing process	--	2 stage alkaline scrubber with stack of 10 m height above roof
Manufacturing process	--	2 stage alkaline scrubber with stack of 10 m height above roof
D.G	Stack of 3.0 m	--

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1,68,000.00
	O & M cost:	40,000.00

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	--	--	--

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	Installation of 2 nos. two stage alkaline scrubbers for process reactors	12.0	0.6
2	Water Pollution Control	Up gradation of existing ETP to 25 CMD capacity along with installation of Stripper, MEE of 12 CMD capacity & RO of 25 CMD capacity	1.55	25.0
3	Occupational Health	Glares, Breathing Masks, Gloves, Boots, Helmets, Ear Plugs etc. & annual health-medical checkup of workers f	3.5	0.8
4	Noise	Installation of anti-vibration pads, & Construction of enclosures for D.G & Boilers	2.5	--
5	Solid Waste Management	Purchase of additional containers/bags for storage of solid waste, concrete paving of hazardous waste storage area	1.5	0.3
6	Green Belt	Green belt development & maintenance	1.6478.00	1.87146.00

7	Rain Water Harvesting	Rain water harvesting tank of 2 m3 & setting up of RWH system	2.0	0.75
8	Energy conservation	Installation of solar lighting within project premises	1.68	0.4
9	Environment Monitoring & Management	Monitoring of various environmental parameters	--	15.40

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Liquid Bromine	Liquid	Tanks	250	200	413.33	Local & Imported	Road
n Butanol	Liquid	Tanks	75	60	148	Loacl & Imported	Road
n Propanol	Liquid	Tanks	75	60	53.33	Local & Imported	Road
n Hexanol	Liquid	Tanks	75	60	135.41	Imported	Road
Tetrahydrofuran	Liquid	Drums	12	10	3.7	Local & Imported	Road
n Decanol	Liquid	Tanks	25	20	7.83	Imported	Road
o-Chlorophenyl Acetic Acid	Solid	Bags	25	20	7.7	Imported	Road
Methanol	Liquid	Tanks	25	20	4.16	Loacl	Road
Sulphur	Solid	Bags	20	15	23.33	Local	Road
Glyoxal	Liquid	Drums	120	100	21	Local & Imported	Road
Urea	Solid	Bags	120	100	16.66	Local	Road
Vinyl Acetate	Liquid	Drums	25	20	14	Local	Road
Triethyl Phosphite	Liquid	Drums	25	20	21	Imported	Road
Ethyl Chloroacetate	Liquid	Drums	12	10	16	Local	Road
Phthalide	Solid	Bags	1.5	1	2.083	Local	Road
Aniline	Liquid	Drums	13	10	17.5	Local	Road
Dimethyl Oxalate	Liquid	Drums	70	60	23.33	Local	Road
Pophosphoric Acid	Liquid	Drums	70	60	7.75	Local & Imported	Road
Dichloromethane	Liquid	Drums	25	20	16.66	Local	Road
Sulphuric acid	Liquid	Drums	15	10	13.33	Local	Road
Polyphosphoric Acid	Liquid	Carboys	12	10	25	Local	Road
Benzoyl peroxide	Liquid	Carboys	0.6	0.5	0.416	Local	Road
ABC Acid	Powder	Bags	7	5	8.33	Local	Road
Vinyl acetate monomer	Liquid	Drums	13	10	8.33	Local	Road
Calcium hydroxide	Powder	Bags	7	5	5	Local	Road

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:	20.0 sq.m.
	Area per car:	--
	Area per car:	--
	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):	6
	CRZ/ RRZ clearance obtain, if any:	--
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	--
	Category as per schedule of EIA Notification sheet	B1
	Court cases pending if any	No
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	19-01-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable

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

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

DECISION OF SEAC

PP to ascertain and submit notification stating that existing plot is located in the Notified Industrial Estate/Park/Area. In absence of the credible documents regaridng notified Industrial Estate/Park/Area, PP to carry out Public Consultation as per procedure stipulated in the EIA Notification 2006 and submit complinace report of the issues raised during Public Consultation.

PP to collect base line data as per Office Memorandum issued by MoEF&CC dated 27.08.2017.

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

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

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

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
3) PP to carry out life cycle analysis of the activities carried out on site with respect to the acidification potential, eutrophication potential, green house and ozone depletion potential etc
4) PP to include detailed water balance calculations along with design details of zero liquid discharge ETP in the EIA report.
5) PP to carry out HAZOP and QRA and submit disaster management plan.
6) PP to include water and carbon foot print monitoring in the EMP.
7) PP to submit hazardous chemical handling protocol
8) PP to include technical note on the change of catalyst from Red Phosphorous to Sulphur with respect to the environmental Impact in the EIA report.
9) PP to submit structural stability certificate to accommodate proposed expansion in the existing units.
10) PP to submit clarification and technical note on consumption of water, energy, fuel with respect to the increase in the proposed production quantity.
11) PP to submit copy of water supply permission obtained from the competent Authority.
12) PP to submit plant layout showing existing and proposed equipments location.
13) PP to submit design details of boiler and associated pollution control equipments.
14) PP to submit clarification on the generation of spent acids and calcium bromide waste as byproduct and confirm the cateogry as per Hazardous Waste (M&H) Rule, 2016.
15) PP to submit design details of scrubbers.
16) 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.

FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.

159th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 159th (A) - Day-2 **Meeting Date** February 2, 2019

Subject: Environment Clearance for Environmental Clearance for proposed production capacity enhancement of Adima Oganics (I) Pvt. Ltd.

Is a Violation Case: No

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	c) Total BUA area (sq. m.): 1588.90
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 19-06-2000
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	56000000.00

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
2	Not applicable	Not applicable	Not applicable
3	Not applicable	Not applicable	Not applicable
4	Not applicable	Not applicable	Not applicable
5	Not applicable	Not applicable	Not applicable
6	Not applicable	Not applicable	Not applicable
7	Not applicable	Not applicable	Not applicable
8	Not applicable	Not applicable	Not applicable
9	Not applicable	Not applicable	Not applicable
10	Not applicable	Not applicable	Not applicable
11	Not applicable	Not applicable	Not applicable
12	Not applicable	Not applicable	Not applicable
13	Not applicable	Not applicable	Not applicable
14	RNot applicable	Not applicable	Not applicable
15	Not applicable	Not applicable	Not applicable

23.Number of tenants and shops	Not applicable
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)	9
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Manufacturing plant & associated infrastructure are present on project plot
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	N PROPYL BROMIDE	5.0	95.0	100.0
2	N BUTYL BROMIDE	20.0	130.0	150.0
3	N HEXYL BROMIDE	10.0	190.0	200.0

4	3-CHLOROPROPIONYL CHLORIDE	2.0	Production will be stopped	--
5	3-PICOTYL CHLORIDE HYDROCHLORIDE	2.0	Production will be stopped	--
6	Alpha Bromo 2-Chloro Phenyl Acetic Acid	--	10.0	10.0
7	Methyl Alpha Bromo 2-Chloro Phenyl Acetate	--	10.0	10.0
8	1,4-DIBROMO BUTANE	--	10.0	10.0
9	TRIETHYL PHOSPHONOACETATE	--	20.0	20.0
10	Bromoacetaldehyde Dimethyl Aectal	--	20.0	20.0
11	DECYL BROMIDE	--	10.0	10.0
12	Pthalazinone Stage 1	--	2.0	2.0
13	Glyocuril	--	20.0	20.0
14	2,3-Dioxo Indole	--	20.0	20.0
15	Sulphuric acid (By-product)	--	123.21	123.21
16	Hydrobromic acid (By-product)	--	12.0	12.0
17	Methyl acetate (By-product)	--	16.74	16.74
18	Calcium bromide solution (By-product)	--	18.63	18.63
19	Phsophoric acid (By-product)	--	0.10	0.10

32.Total Water Requirement

Dry season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable

Wet season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

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	0.6	1.9	2.5	0.2	--	0.2	0.4	1.9	2.3
Industrial Process	0.2	16.8	17.0	--	0.47	0.47	0.2	16.33	16.53
Cooling tower & thermopack	3.2	14.0	17.2	1.9	9.36	11.26	--	2.84	2.84 (3.1 Boile condensate recovery)
Gardening	1.1 (Recycled)	5.6	6.7	1.1 (Recycled)	5.6	6.7	--	--	--

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	18.36 m bgl (Pre monsoon)
	Size and no of RWH tank(s) and Quantity:	1 m x 2 m x 1 m = 2 m3, 1 No. Tank of 2 m3 capacity
	Location of the RWH tank(s):	--
	Quantity of recharge pits:	--
	Size of recharge pits :	--
	Budgetary allocation (Capital cost) :	Rs. 2,00,000/-
	Budgetary allocation (O & M cost) :	Rs. 75,000/-
	Details of UGT tanks if any :	1. Fire fighting water storage tank of 100 KL capacity 2. Day to day usage water storage tank of 25 KL capacity

35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	1.02 m3/hr.
	Size of SWD:	Width = 0.6 m, Depth = 0.762 m & Length = 265.1 m
Sewage and Waste water	**Sewage generation in KLD:**	2.3
	STP technology:	Domestic Sewage will be treated in aeration tank of ETP
	Capacity of STP (CMD):	--
	Location & area of the STP:	--
	Budgetary allocation (Capital cost):	--
	Budgetary allocation (O & M cost):	--
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	--
	Disposal of the construction waste debris:	--
Waste generation in the operation Phase:	**Dry waste:**	--
	Wet waste:	--
	Hazardous waste:	Spent Solvent - 10.5 T/M, Distillation Residue - 1.1 T/M, Discarded Containers - 300 Nos./Month, ETP Sludge - 3.025 T/M, MEE Residue - 218.4 T/A
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--
Mode of Disposal of waste:	**Dry waste:**	--
	Wet waste:	--
	Hazardous waste:	Spent Solvent, Distillation Residue, ETP Sludge & MEE Residue to CHWTSDF and Discarded Containers - Sale to authorized recyclers
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--
Area requirement:	**Location(s):**	--
	Area for the storage of waste & other material:	Hazardous waste storage area - 10 sq.m.
	Area for machinery:	--
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	--
	O & M cost:	--

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	4.0	8.0	6-8.5
2	TDS	mg/l	2100.0	1900.0	2100.0
3	BOD	mg/l	3000.0	90	100.0
4	COD	mg/l	6000.0	240.0	250.0
5	O & G	mg/l	2.5	1.2	10.0

Amount of effluent generation (CMD):	21.67
Capacity of the ETP:	ETP of 25 CMD capacity, Stripper MEE of 12 CMD capacity & R.O of 25 CMD capacity
Amount of treated effluent recycled :	18.5 CMD & 3.1 CMD Boiler condensate recovery
Amount of water send to the CETP:	--
Membership of CETP (if require):	--
Note on ETP technology to be used	The HCOD-HTDS effluent from manufacturing process will be sent to Stripper MEE & LCOD-LTDS effluent will be sent to conventional ETP, MEE condensate along with domestic sewage will be sent to aeration tank of secondary treatment which will be further sent to R.O system along with boiler & cooling tower blow downs, R.O reject will be subjected to MEE & R.O permeate will be reused thus the project will be Zero Liquid Discharge activity .
Disposal of the ETP sludge	ETP slude will be disposed to CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent solvent	20.2	T/M	0.05	10	10.05	CHWTSDF
2	Distillation Residue	20.3	T/M	0.1	1.0	1.1	CHWTSDF
3	ETP Sludge	35.3	T/M	0.025	3.0	3.025	CHWTSDF
4	MEE Residue	37.3	T/A	--	218.4	218.4	CHWTSDF
5	Discarded Comtainers	33.1	Nos./M	100.0	200.0	300.0	Sale To Authorized Dealers /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	Common stack attached to 2 boilers of 1.1 TPH	Furnace Oil - 580 l/day	1	30.0	0.45	134 0C
2	D.G of 63 kVA	Diesel - 500 l/month (D.G set will be operated only during power failure)	2	3.0	0.42	174 0C
3	2 Stage alkaline scrubber attached to process reactors	--	3	10.0 (Above roof)	--	--
4	2 Stage alkaline scrubber attached to process reactors	--	4	10.0 (Above roof)	--	--

5	Alkaline scrubber attached to Bromine storage tank	--	5	7.0 (Above tank)	--	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Furnace Oil	250 l/day	330 l/day	580 l/day
2	Diesel	200 l/month	300 l/month	500 l/month
41.Source of Fuel		Furnace Oil - D.M.K Petro Traders & Carriers Pvt. Ltd., Navi Mumbai and Diesel - Sourced from local vendor		
42.Mode of Transportation of fuel to site		Tanker by Road		

43.Green Belt Development	**Total RG area :**	1341.00
	No of trees to be cut :	--
	Number of trees to be planted :	166
	List of proposed native trees :	Cassia fistula, Bombax ceiba, Asltonia shcolaris, Macaranga peltata, Schleichera oleosa, Microcos paniculata, Terminalia elliptica, Terminalia paniculata, Terminalia bellirica, Cordia dichotoma, Helicteres isora, Holoptelea integrifolia, Butea monosperma, Oroxylum indicum, Erythrina suberosa, Azadirachta indica, Trema orientalis, Pongamia pinnata, Neolamarckia cadamba, Pterospermum acerifolium, Dalbergia sissoo & Millingtonia hortensis
	Timeline for completion of plantation :	1 year after grant of EC

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Bahava	Native tree of forest tracts of Nashik Distirct having flowers attracting bees and butterflies	7
2	Bombax ceiba	Sawar	A native deciduous tree with fragrant flowers attracting large number of birds & insects	7
3	Asltonia shcolaris	Saptaparni	A native evergreen tree with fragrant flowers & leaves having comparatively higher dust settling index	7
4	Macaranga peltata	Chandwar	A native tree found in abundance across the plains of Nahik District	7
5	Schleichera oleosa	Kusum	A native deciduous trees of forest tracts of Nashik District	7

6	Microcos paniculata	Shirali	A native evergreen medium sized tree of forest tracts of Nashik District	7
7	Terminalia elliptica	Ain	A native evergreen tree of forest tracts of Nashik District	7
8	Terminalia paniculata	Kindal	A native deciduous tree of forest tracts of Nashik District	7
9	Terminalia bellirica	Baheda	A native deciduous tree of forest tracts of Nashik District	7
10	Cordia dichotoma	Shelu	A native deciduous tree of forest tracts of Nashi District attracting large number of insects	7
11	Helicteres isora	Murudsheng	A native deciduous medium sized tree of forest tracts of Nashik District visited by large number of birds	7
12	Holoptelea integrifolia	Ainsadada	A native deciduous tree of forest tracts of Nashik District	7
13	Butea monosperma	Palash	A native brilliantly flowering tree abundant the Nashik District visited by large number of birds	7
14	Oroxylum indicum	Tetu	A native ornamental tree	7
15	Erythrina suberosa	Pangara	A native deciduous medium sized tree of forest tracts of Nashik Distirct visited by large number of birds	7
16	Azadirachta indica	Kadulimb	A native evergreen tree capable of surviving in comparatively polluted environs	7
17	Trema orientalis	Ghol	A native deciduous medium sized tree with hairy leaves having comparatively higher dust settling index	7
18	Pongamia pinnata	Karanj	A native deciduous tree well suited to intense heat and sunlight and drought tolerant	7
19	Neolamarckia cadamba	Kadamba	A native evergreen tree with tremendous blooms attracting large number of insects	7

20	Pterospermum acerifolium	Karnikar	A native evergreen tree with large & hairy leaves having comparatively high dust settling index generally used for ornamental plantation	7
21	Dalbergia sissoo	Shisham	A native evergreen tree attracting large number of insects	7
22	Millingtonia hortensis	Kaval nimb	A native fast growing flowering tree used for ornamental plantation	19
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)	--
	DG set as Power back-up during construction phase	--
	During Operation phase (Connected load):	600 kW
	During Operation phase (Demand load):	750 kVA
	Transformer:	Existing 250 kVA
	DG set as Power back-up during operation phase:	63 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar lights	14

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed

1.1 TPH Steam boiler	Stack of 30 m height	--
1.1 TPH Steam boiler	--	Existing common stack of 30 m height for both steam boilers
Manufacturing process	2 stage alkaline scrubber with stack of 10 m height above roof	--
Bromine storage tank	Alkaline scrubber with stack of 7 m height above storage tank	--
Manufacturing process	--	2 stage alkaline scrubber with stack of 10 m height above roof
Manufacturing process	--	2 stage alkaline scrubber with stack of 10 m height above roof
D.G	Stack of 3.0 m	--

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1,68,000.00
	O & M cost:	40,000.00

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	--	--	--

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	Installation of 2 nos. two stage alkaline scrubbers for process reactors	12.0	0.6
2	Water Pollution Control	Up gradation of existing ETP to 25 CMD capacity along with installation of Stripper, MEE of 12 CMD capacity & RO of 25 CMD capacity	1.55	25.0
3	Occupational Health	Glares, Breathing Masks, Gloves, Boots, Helmets, Ear Plugs etc. & annual health-medical checkup of workers f	3.5	0.8
4	Noise	Installation of anti-vibration pads, & Construction of enclosures for D.G & Boilers	2.5	--
5	Solid Waste Management	Purchase of additional containers/bags for storage of solid waste, concrete paving of hazardous waste storage area	1.5	0.3
6	Green Belt	Green belt development & maintenance	1.6478.00	1.87146.00

7	Rain Water Harvesting	Rain water harvesting tank of 2 m3 & setting up of RWH system	2.0	0.75
8	Energy conservation	Installation of solar lighting within project premises	1.68	0.4
9	Environment Monitoring & Management	Monitoring of various environmental parameters	--	15.40

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Liquid Bromine	Liquid	Tanks	250	200	413.33	Local & Imported	Road
n Butanol	Liquid	Tanks	75	60	148	Loacl & Imported	Road
n Propanol	Liquid	Tanks	75	60	53.33	Local & Imported	Road
n Hexanol	Liquid	Tanks	75	60	135.41	Imported	Road
Tetrahydrofuran	Liquid	Drums	12	10	3.7	Local & Imported	Road
n Decanol	Liquid	Tanks	25	20	7.83	Imported	Road
o-Chlorophenyl Acetic Acid	Solid	Bags	25	20	7.7	Imported	Road
Methanol	Liquid	Tanks	25	20	4.16	Loacl	Road
Sulphur	Solid	Bags	20	15	23.33	Local	Road
Glyoxal	Liquid	Drums	120	100	21	Local & Imported	Road
Urea	Solid	Bags	120	100	16.66	Local	Road
Vinyl Acetate	Liquid	Drums	25	20	14	Local	Road
Triethyl Phosphite	Liquid	Drums	25	20	21	Imported	Road
Ethyl Chloroacetate	Liquid	Drums	12	10	16	Local	Road
Phthalide	Solid	Bags	1.5	1	2.083	Local	Road
Aniline	Liquid	Drums	13	10	17.5	Local	Road
Dimethyl Oxalate	Liquid	Drums	70	60	23.33	Local	Road
Pophosphoric Acid	Liquid	Drums	70	60	7.75	Local & Imported	Road
Dichloromethane	Liquid	Drums	25	20	16.66	Local	Road
Sulphuric acid	Liquid	Drums	15	10	13.33	Local	Road
Polyphosphoric Acid	Liquid	Carboys	12	10	25	Local	Road
Benzoyl peroxide	Liquid	Carboys	0.6	0.5	0.416	Local	Road
ABC Acid	Powder	Bags	7	5	8.33	Local	Road
Vinyl acetate monomer	Liquid	Drums	13	10	8.33	Local	Road
Calcium hydroxide	Powder	Bags	7	5	5	Local	Road

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:	20.0 sq.m.
	Area per car:	--
	Area per car:	--
	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):	6
	CRZ/ RRZ clearance obtain, if any:	--
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	--
	Category as per schedule of EIA Notification sheet	B1
	Court cases pending if any	No
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	19-01-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable

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

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

DECISION OF SEAC

PP to ascertain and submit notification stating that existing plot is located in the Notified Industrial Estate/Park/Area. In absence of the credible documents regaridng notified Industrial Estate/Park/Area, PP to carry out Public Consultation as per procedure stipulated in the EIA Notification 2006 and submit complinace report of the issues raised during Public Consultation.

PP to collect base line data as per Office Memorandum issued by MoEF&CC dated 27.08.2017.

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

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

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

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
3) PP to carry out life cycle analysis of the activities carried out on site with respect to the acidification potential, eutrophication potential, green house and ozone depletion potential etc
4) PP to include detailed water balance calculations along with design details of zero liquid discharge ETP in the EIA report.
5) PP to carry out HAZOP and QRA and submit disaster management plan.
6) PP to include water and carbon foot print monitoring in the EMP.
7) PP to submit hazardous chemical handling protocol
8) PP to include technical note on the change of catalyst from Red Phosphorous to Sulphur with respect to the environmental Impact in the EIA report.
9) PP to submit structural stability certificate to accommodate proposed expansion in the existing units.
10) PP to submit clarification and technical note on consumption of water, energy, fuel with respect to the increase in the proposed production quantity.
11) PP to submit copy of water supply permission obtained from the competent Authority.
12) PP to submit plant layout showing existing and proposed equipments location.
13) PP to submit design details of boiler and associated pollution control equipments.
14) PP to submit clarification on the generation of spent acids and calcium bromide waste as byproduct and confirm the cateogry as per Hazardous Waste (M&H) Rule, 2016.
15) PP to submit design details of scrubbers.
16) 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.

FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.

159th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 159th (A) - Day-2 **Meeting Date** February 2, 2019

Subject: Environment Clearance for Proposed expansion of manufacturing of Iso Propyl Alcohol- Petroleum products and petrochemical based processing facility at Plot No K1-K8, MIDC Taloja, Panvel by Deepak Fertilizers and Petrochemicals Corporation Limited

Is a Violation Case: No

1.Name of Project	Proposed expansion of manufacturing of Iso Propyl Alcohol- Petroleum products and petrochemical based processing facility at Plot No K1-K8, MIDC Taloja, Panvel by Deepak Fertilizers and Petrochemicals Corporation Limited
2.Type of institution	Private
3.Name of Project Proponent	Deepak Fertilizers and Petrochemicals Corporation Limited
4.Name of Consultant	Aditya Environmental Services Private Limited
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion of existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes.
8.Location of the project	Plot No K1-K8, MIDC Taloja, Panvel
9.Taluka	Panvel
10.Village	Taloja
Correspondence Name:	Mr. Deepak Pande
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	--
City:	--
11.Area of the project	MIDC Taloja
12.IOD/IOA/Concession/Plan Approval Number	MIDC approved plot plan
	IOD/IOA/Concession/Plan Approval Number: MIDC approved plot plan
	Approved Built-up Area: 270889
13.Note on the initiated work (If applicable)	Expansion within existing project.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC approved plot plan
15.Total Plot Area (sq. m.)	385584 sq m
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 14050
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 306399
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 28-08-2015
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	8437500000

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
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 facility is for manufacturing of Petroleum products and petrochemical based processing.
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Liquid CO2	72,000 MT/A	0 MT/A	72,000 MT/A
2	Ammonia	140,400 MT/A	0 MT/A	140,400 MT/A
3	Methanol	99,996 MT/A	0 MT/A	99,996 MT/A
4	Weak Nitric acid	445,500 MT/A	0 MT/A	445,500 MT/A
5	Concentrated nitric acid	129,600 MT/A	0 MT/A	129,600 MT/A
6	Multiple grade NPK Fertilizer	6,00,000 MT/A	525000 MT/A	11,25,000 MT/A
7	Technical grade ammonium nitrate" plus ammonium nitrate melt	444,000 MT/A	0 MT/A	444,000 MT/A
8	Iso propyl alcohol (IPA)	70200 MT/A	110000 MT/A	180200 MT/A
9	Electric power	9.4 MW	0 MT/A	9.4 MW
10	Steam	1,056 MT/day	0 MT/A	1,056 MT/day
11	Bentonite sulphur pastilles	25,000 MT/A	0 MT/A	25,000 MT/A

12	Iso propyl alcohol (for drum filling operation (packaging operation) only)	15,000 MT/A	0 MT/A	15,000 MT/A
13	Di iso propyl ether (DIPE) (for drum filling operation (packaging operation) only	15000 MT/A	0 MT/A	15000 MT/A
14	Gas based power generation (excluding DG sets)	17.9 MW	0 MT/A	17.9 MW
15	Propane (By product)	33,000 MT/A	15,000 MT/A	48,000 MT/A
16	Calcium phosphate (By product)	210 MT/A	0 MT/A	210 MT/A
17	Crude DIPE (By product)	1,440 MT/A	0 MT/A	1,440 MT/A
18	Di iso propyl ether (DIPE) (By product)	0 MT/A	7000 MT/A	7000 MT/A
19	Hydrogen gas (By product)	960 MT/A	0 MT/A	960 MT/A
20	Crude IPA/NPA mixture (By product)	1,080 MT/A	1500 MT/A	2580 MT/A

32.Total Water Requirement

Dry season:	**Source of water**	MIDC Taloja
	Fresh water (CMD):	23142 CMD
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	23863 CMD (23142 CMD from MIDC and 721 CMD recycle)
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable

Wet season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

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	172	0	172	18.5	0	18.5	153.5	0	153.5
Industrial Process	2358	480	2838	1188.7	130	1668.7	1169.3	350	1169.3
Cooling tower & thermopack	18813	2040	20853	16004.02	1669	18044.02	2808.98	371	2808.98

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	--
	Size and no of RWH tank(s) and Quantity:	--
	Location of the RWH tank(s):	--
	Quantity of recharge pits:	--
	Size of recharge pits :	--
	Budgetary allocation (Capital cost) :	--
	Budgetary allocation (O & M cost) :	--
	Details of UGT tanks if any :	--

35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	--
	Size of SWD:	Detailed drawing is attached as Annexure 6
Sewage and Waste water	**Sewage generation in KLD:**	153.5 cmd
	STP technology:	Sewage water is used as food to bacteria in bioreactor at ETP.
	Capacity of STP (CMD):	--
	Location & area of the STP:	--
	Budgetary allocation (Capital cost):	--
	Budgetary allocation (O & M cost):	--

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Ready mixed concrete will be used to avoid/minimise civil debris and dust emission. Also soil will be refilled back.
	Disposal of the construction waste debris:	Scrap generated will be sold to recycler.
Waste generation in the operation Phase:	**Dry waste:**	--
	Wet waste:	--
	Hazardous waste:	Spent catalyst, Residue and wastes, Discarded containers/liners, Used oil filters (non-metallic), Residues and wastes (silica gel), Date expired, discarded and off specification drugs (Ni Cd batteries), Used/Spent oil, Waste/residue containing oil, Used containers, Spray cans, spent catalyst, Used denoxed catalyst as spent catalyst, ,Used oil filters (nonmetallic), Date expired, discarded and off specification drugs (Lead acid batteries), Date expired, discarded and off specification drugs (Dry
	Biomedical waste (If applicable):	Soiled waste, Glassware
	STP Sludge (Dry sludge):	--
	Others if any:	--
Mode of Disposal of waste:	**Dry waste:**	--
	Wet waste:	--
	Hazardous waste:	Hazardous waste will be disposed of to CHWTSDF/ sale to authorized Recycler or Reuser as per Hazardous waste rule 2016.
	Biomedical waste (If applicable):	Biomedical waste will be disposed off as per Biomedical waste rule 2016.
	STP Sludge (Dry sludge):	--
	Others if any:	--
Area requirement:	**Location(s):**	Within plot
	Area for the storage of waste & other material:	--
	Area for machinery:	--

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

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	4 - 9	6 - 8.5	6 - 8.5
2	Oil and grease	mg/lit	2 - 3	< 10	< 10
3	BOD	mg/lit	200 - 300	< 100	< 100
4	TDS	mg/lit	1000-1500	< 2100	< 2100
5	Ammonical nitrogen	mg/lit	1800 – 2000	< 50	< 50
6	Nitrate nitrogen	mg/lit	150 - 200	< 20	< 20
7	Phosphate	mg/lit	80-100	< 5.0	< 5.0
8	Free Ammonical nitrogen	mg/lit	100-150	< 4	< 4
9	Suspended solids	mg/lit	70 - 80	<100	<100

Amount of effluent generation (CMD):	4131.78 + 721(from IPA expansion) = 4852.78 CMD
Capacity of the ETP:	4200 CMD
Amount of treated effluent recycled :	721 CMD
Amount of water send to the CETP:	4131.78 CMD
Membership of CETP (if require):	Yes. Unit is already member of CETP.
Note on ETP technology to be used	1. Existing: Low TDS effluent stream > Collection tank > Reaction tank > Ammonia stripper > Denitrification reactor I > Sec. clarifier I > Denitrification reactor II > Aeration tank > Sec. clarifier II > Final Polishing tank High TDS effluent stream > RO > Permeate recycle, 2. Proposed: Ceramic based membranes , ion exchange resins followed by bioreactor
Disposal of the ETP sludge	ETP sludge will be sent to CHWTSDF for landfill.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent catalyst	18.1	MT/Y	48.34	210	258.34	Sale to authorized party approved by CPCB/ MPCB
2	Residue and wastes	31.1	MT/Y	10	115	125	Sale to recycler/ CHWTSDF
3	Discarded containers/liners	33.3	MT/Y	346	0	346	Sale to authorized party for decontamination
4	Used oil filters (non metallic)	5.2	No/Y	25	6	31	CHWTSDF
5	Residues and wastes (silica gel)	31.1	MT/2 years	60 MT/2 years	0	60 MT/2 years	Sale to authorized party / recycler
6	Date expired, discarded and off specification drugs (Ni Cd batteries)	28.3	once in 5 years	400 No once in 5 years	60 No once in 5 years	460 No once in 5 years	Sale to reuser
7	Used/ Spent oil	5.1	KL/Y	130	7	137	Sale to authorized party approved by CPCB/ MPCB

8	Waste/ residue containing oil	5.2	MT/Y	10	2	12	CHWTSDF
9	Used containers	33.3	No/Y	3012	0	3012	CHWTSDF
10	Spray cans	33.3	No/Y	900	200	1100	CHWTSDF
11	Platinum, Rhodium catalyst as spent catalyst	17.2	Kg/Y	100	0	100	CHWTSDF/sale to recycler
12	Used denoxed catalyst as spent catalyst	17.2	MT/6 years	10	0	10	CHWTSDF/sale to recycler
13	Used oil filters (nonmetallic)	5.2	No/Y	20	0	20	CHWTSDF
14	Date expired, discarded and off specification drugs (Lead acid batteries)	28.3	No/Y	34	20	54	Sale to reuser
15	Date expired, discarded and off specification drugs (Dry cell batteries)	28.3	No/Y	300	50	350	Sale to reuser
16	Chemical sludge from waste water treatment	35.3	TPM	30	0	30	sent to CHWTSDF
17	Ion exchange resins	35.2	TPM	0	100	100	sent to 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	Ammonia Primary reformer (existing)	Natural Gas - 94218.5 sm3/day	--	30	1.373	170 deg C
2	Boiler A & B (existing)	Natural gas / Naphtha – 32400 sm3/day or 50 MTPD each	--	30 (common stack)	1	125 deg C
3	Methanol Primary reformer (Existing)	Natural Gas - 60150 sm3/day	--	30	1.373	115 deg C
4	CNA Plant 1 (Existing)	--	--	42	0.075	25 deg C
5	CNA Plant 2 (Existing)	--	--	42	0.075	25 deg C
6	CNA Plant 3 (Existing)	--	--	42	0.075	25 deg C
7	WNA-I Plants (Existing)	--	--	39	0.953	38 deg C
8	WNA II Plants (Existing)	--	--	39	0.953	38 deg C
9	WNA III Plants (Existing)	--	--	60	0.953	38 deg C
10	WNA IV Plants(Existing)	--	--	52	0.953	130 Deg C
11	ANP Prilling tower (Existing)	--	--	84	1.5	50 Deg C
12	LDAN Prilling tower (Existing)	--	--	84	1.3	50 Deg C
13	ANP cyclone separator (Existing)	--	--	30	1.5	34 Deg C
14	ANP vacuum pump(Existing)	--	--	27.8	0.2	35 deg C

15	LDAN ventury scrubber(Existing)	--	--	24.5	1.5	41 deg C
16	Boiler C (Standby) (Existing)	Natural Gas - 12600 sm3/day	--	30.5	1	125 Deg C
17	Boiler D (Standby) (Existing)	Natural gas / FO – 54000 sm3/day or 40 MTPD	--	63	1	170 Deg C
18	CES – A engine exhaust boiler(Existing)	Natural Gas - 30750 sm3/day	--	30.75	1.5	205 deg C
19	CES – B engine exhaust boiler(Existing)	Natural Gas - 30750 sm3/day	--	30.75	1.5	205 deg C
20	CO2 liquifier 1 (Existing)	--	--	8	0.025	24 Deg C
21	CO2 liquifier 2 (Existing)	--	--	8	0.025	24 Deg C
22	Stripper 1 (Existing)	--	--	5.1	0.511	-60 Deg C
23	Stripper 2 (Existing)	--	--	5.1	0.511	-60 Deg C
24	Combined (1 Nos) (Existing)	--	--	8	0.075	122 Deg C
25	Turbine - 1 (Existing)	Natural Gas - 37120 sm3/day	--	30	1.067	125 Deg C
26	HRSG - 1(Existing)	Natural gas/ Naphtha – 19584 sm3/day or 30 MTPD	--	30	1.067	125 Deg C
27	Turbine – 2 (Existing)	Natural Gas - 37120 sm3/day	--	30	1.067	125 Deg C
28	HRSG – 2 (Existing)	Natural gas/ Naphtha – 19584 sm3/day or 30 MTPD	--	30	1.067	125 Deg C
29	Turbine - 3 (Existing)	Natural Gas - 42888 sm3/day	--	30	1.5	550 Deg C
30	HRSG - 3 (Existing)	--	--	30	1.5	190 Deg C
31	Turbine - 4 Existing)	Natural Gas - 42888 sm3/day	--	30	1.5	550 Deg C
32	HRSG - 4(Existing)	--	--	30	1.5	190 Deg C
33	Turbine - 5 (Existing)	Natural Gas - 45984 sm3/day	--	30	1.5	550 Deg C
34	HRSG - 5 (Existing)	--	--	30	1.5	190 Deg C
35	G P Vent (Existing)	--	--	30	0.64	110 Deg C
36	780 weak nitric acid plant(Existing)	--	--	48	1.3	131 deg C
37	600 TPD LDAN prilling towers, dryers(Existing)	--	--	2	1.3	38.5 deg C
38	300 TPD HDAN Scrubber (existing)	--	--	11	1.1	50 Deg C
39	300 TPD HDAN prilling tower(Existing)	--	--	2	1.2	50 Deg C

40	40 TPH boiler (Existing)	Natural gas / FO– 73920 sm3/day or 49 MTPD	--	86 (Common stack for 40 TPH and 15 TPH boiler)	1.8	180 Deg C
41	15 TPH boiler(Existing)	Natural gas / FO – 28800 sm3/day or 26 MTPD	--	86 (Common stack for 40 TPH and 15 TPH boiler)	1.8	180 Deg C
42	Pastillator 1	--	--	8	0.152	52 Deg C
43	Pastillator 2	--	--	8	0.152	52 Deg C
44	Batch and feed tank(Existing)	--	--	10	0.152	55 Deg C
45	DG set 1 x 500 KVA (Existing)	Diesel	--	4.5	0.254	150 Deg C
46	DG set 1 x 500 KVA (existing)	Diesel	--	4.5	0.254	112 Deg C
47	DG set – 1000 KVA x 1 No (Existing)	Diesel	--	6.5	0.254	183 Deg C
48	DG set – 1000 KVA x 1 Nos (Existing)	Diesel	--	6.5	0.254	183 Deg C
49	DG set – 200 KVA (Existing)	Diesel	--	3	0.152	88 Deg C
50	DG set – 1500 KVA (Existing)	Diesel	--	6.5	0.152	170 Deg C
51	DG set – 1010 KVA (Existing)	Diesel	--	30	0.152	176 Deg C
52	DG set – 750 KVA (Existing)	Diesel	--	6.32	0.203	156 Deg C
53	Process stack 1 (Existing)	--	--	60	2.8	45 Deg C
54	Process stack 2 (Existing)	--	--	60	2.8	45 Deg C
55	Boiler 36 TPH (Existing)	Coal – 166 TPD	--	66 (common stack for 36 TPH and 70 TPH boiler)	1.9	140
56	Boiler 70 TPH (Existing)	Coal – 320 TPD	--	66 (common stack for 36 TPH and 70 TPH boiler)	1.9	140
57	Flare (NH3) (existing)	--	--	50	0.254	--
58	Flare (NH3 storage) (existing)	--	--	40	0.254	--
59	Flare (IPA) (Existing)	--	--	66	0.584	--

60	Flare (IPA) (Proposed)	--	--	--	--	--
61	DG set (capacity- 200 KVA) (Proposed)	Diesel- 200 Lit/ Day	--	3	0.152	88 Deg C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Natural gas (Ammonia primary reformer)	94218.5 sm3/day	0	94218.5 sm3/day
2	Natural gas / naphtha (Boiler A & B)	32400 sm3/day or 50 MTPD each	0	32400 sm3/day or 50 MTPD each
3	Natural gas / naphtha (Boiler A & B)	32400 sm3/day or 50 MTPD each	0	32400 sm3/day or 50 MTPD each
4	Natural gas (Methanol primary reformer)	60150 sm3/day	0	60150 sm3/day
5	Natural gas (Boiler C standby)	12600 sm3/day	0	12600 sm3/day
6	Natural gas or FO (Boiler D standby)	54000 sm3/day or 40 MTPD	0	54000 sm3/day or 40 MTPD
7	Natural Gas (CES – A engine)	30750 sm3/day	0	30750 sm3/day
8	Natural Gas (CES – B engine)	30750 sm3/day	0	30750 sm3/day
9	Natural Gas (Turbine 1)	37120 sm3/day	0	37120 sm3/day
10	Natural gas or naphtha (HRSG 1)	19584 sm3/day or 30 MTPD	0	19584 sm3/day or 30 MTPD
11	Natural Gas (Turbine 2)	37120 sm3/day	0	37120 sm3/day
12	Natural gas or naphtha (HRSG 2)	19584 sm3/day or 30 MTPD	0	19584 sm3/day or 30 MTPD
13	Natural Gas (Turbine 3)	42888 sm3/day	0	42888 sm3/day
14	Natural Gas (Turbine 4)	42888 sm3/day	0	42888 sm3/day
15	Natural Gas (Turbine 5)	45984 sm3/day	0	45984 sm3/day
16	Natural gas /FO (40 TPH boiler)	73920 sm3/day Or 49 MT/Day	0	73920 sm3/day Or 49 MT/Day
17	Natural gas /FO (15 TPH boiler)	28800 sm3/day Or 26 MT/Day	0	28800 sm3/day Or 26 MT/Day
18	Diesel (DG set – 500 KVA x 2 Nos, DG set – 1000 KVA x 2 Nos, DG set – 200 KVA, DG set – 1500 KVA, DG set – 1010 KVA	8000 Lit/day	0	8000 Lit/day
19	Diesel (DG set – 750 KVA)	250 Lit/Hr	0	250 Lit/Hr
20	Coal (Boiler 36 TPH)	166 TPD	0	166 TPD
21	Coal (Boiler 70 TPH)	320 TPD	0	320 TPD
22	Natural Gas (NPK plant)	5000 sm3/day	0	5000 sm3/day
23	DG set – 515 KVA (Proposed)	0	200 Lit/ Day	200 Lit/ Day

41.Source of Fuel	Local / Imported
42.Mode of Transportation of fuel to site	Liquid raw material will be transported by road tankers & Natural Gas by GAIL NG pipelines

43.Green Belt Development	**Total RG area :**	106505.81 (K1 - K5, periphery, MIDC main road divider), 3513.03(K6 and periphery), 15896.74 (K7,K8 and periphery) hence total GB area 125915.58 sq.m. (32.65 % of plot area)
	No of trees to be cut :	Nil
	Number of trees to be planted :	Around 9700 no. of trees in and around complex being planted and 22220 no. of trees planted on degraded forest land (50 Acre).
	List of proposed native trees :	--
	Timeline for completion of plantation :	Already 22220 no of trees planted post EC application and survival rate is more than 90 %.

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	Kadamba, Gulmohor, Karanj, Jambhul, Badam, Saptparni, Kadunimb, Ashoka, Mango, Wad, Pimpal	--	9700	--
2	Awala, Karanj,Apta, Kanchan, Nim, Wad, chinch, Satawan, shisam, Kashid, Hirda	--	22220	--
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	Chafa, Boganvel, Bitti and other bushes	--	--

47.Energy

Power requirement:	**Source of power supply :**	Inhouse cogeneration plant & MSEDCL
	During Construction Phase: (Demand Load)	Inhouse cogeneration plant & MSEDCL
	DG set as Power back-up during construction phase	Existing DG set
	During Operation phase (Connected load):	7 MW
	During Operation phase (Demand load):	4 MW
	Transformer:	2 Nos. of 8 MVA, 2 Nos. of 2.5 MVA
	DG set as Power back-up during operation phase:	515 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

It is proposed to install 200 KW solar energy panels.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	--	--

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air pollution sources	Scrubber for process mission, Cyclone separator, ESP	flare
Water pollution sources	ETP, RO	ceramic membranes, resins, bioreactor
Hazardous waste generation	Disposal to CHWTSDF/ Authorize recycler	Disposal through authorized recycler

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Ambient Air	As per NAAQMS	1.62
2	Noise	As per NAAQMS	0.1

3	Dust control by water sprinking	--	5

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 & Monitoring	flare	1350	27
2	Noise Pollution Control	Acoustic DG set	125	2.5
3	Water Pollution Control & monitoring	ceramic membranes, resins, bioreactor	2600	52
4	Solid and Hazardous Waste management	Solid and Hazardous Waste management	20	1
5	Green belt development	Green belt development	312	40
6	Occupational Health & Safety	fire hydrant system, sensor	400	10
7	Other Green Initiatives	Solar Power	162	2
8	Other Green Initiatives	Energy Conservation (LED)	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
Ammonia	Existing	Within plot	16098	13000	50700	Self production / Imported	Tanker
Ammonia	Existing	Within plot	2480	3000	50700	Self production / Imported	Tanker
DNA	Existing	Within plot	2 x 2093	2 x 1700	41063	Self production	Tanker
CNA	Existing	Within plot	3 x 175	3 x 140	0	Self production	Tanker
CNA	Existing	Within plot	2 x 289	2 x 230	0	Self production	Tanker
Methanol	Existing	Within plot	4498	3500	0	Self production	Tanker
Liquid CO2	Existing	Within plot	2 x 158	2 x 125	0	Self production	Tanker
Phosphoric acid	Existing	Within plot	2 x 3059	2 x 2450	27700	Imported	Tanker
Phosphoric acid	Existing	Within plot	2 x 3086	2 x 2500	27700	Imported	Tanker
Sulphuric acid	Existing	Within plot	585	475	11000	Local market	Tanker
Crude DIPE	Existing	Within plot	43	35	0	Self production	Tanker
Crude DIPE	Existing	Within plot	64	50	0	Self production	Tanker
Crude DIPE	Existing	Within plot	45	36	0	Self production	Tanker
DIPE (100 %)	Existing	Within plot	25	20	120	Self production	Tanker
Propylene	Existing	Within plot	3 x 500	3 x 400	7200	BPCL/GAIL/HPCL	Tanker
Propane	Existing	Within plot	500	400	--	Self production	Tanker
IPA	Existing	Within plot	5000	4000	--	Self production	Tanker
Off spec product	Existing	Within plot	72	56	--	Self production	--
Azeo product	Existing	Within plot	72	56	--	Self production	--
Dry Product	Existing	Within plot	2 x 72	2 x 56	--	Self production	Tanker

Phosphoric acid(food grade)	Existing	Within plot	20	16	3	Imported	Tanker
Dil Phos acid tank	Existing	Within plot	100	80	--	Self production	--
Caustic lye	Existing	Within plot	30	24	120	Local Market	Tanker
DIPE storage tank (2 Nos)	Proposed	Within plot	2 x 60	2 x 48	--	Self production	Tanker
Heavy & light weight storage tanks (2 Nos)	Proposed	Within plot	2 x 60	2 x 48	--	Self production	Tanker
IPA offspec storage tank (One No)	Proposed	Within plot	900	720	--	Self production	--
IPA storage tanks (Pharma or specialty grade) (2Nos)	Proposed	Within plot	2 x 260	2 x 200	--	Self production	Tanker
Day tank of heavy components(2Nos)	Proposed	Within plot	2 x 12	2 x 10	--	Self production	--
Day tank DIPE (2 Nos)	Proposed	Within plot	2 x 22	2 x 16	--	Self-production	--

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:	38884.7
	Area per car:	--
	Area per car:	--
	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):	Mi. 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 (e)- B

	Court cases pending if any	--
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	10-10-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. PP proposes Zero Liquid Discharge, PP proposes scrubber to the process vents. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes zero liquid discharge effluent treatment for the proposed expansion.
Drainage pattern of the project	PP considered contour on the site while designing the storm water drains.
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits at project site.
Solid Waste Management	PP committed to dispose the hazardous waste at Common Hazardous Waste Treatment, Storage, and Disposal Facility and sale to Authorized vendors. Details are given at Sr. No. 36 & 38 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for proposed project is 4MW which will be supplied by MSEDCL. PP proposes a numbers of 200 KVA DG Sets.
Traffic circulation system and risk assessment	PP has indicated in the lay out plan total 36048.97 Sq.m. area for parking and internal roads will be of minimum six meter width along with nine meters of turning radius for smooth circulation of traffic.
Landscape Plan	PP proposes to provide 33% green belt. PP to provide drip irrigation to the propsoed and existing green belt.
Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment and submitted Emergency Plan.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposed EMP cost of Rs.3937.5 Lakhs during construction phase and Rs. 102 Lakhs as capital cost and Rs. 52.46 Lakh as O & M cost to maintain environmental parameters.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP obtained ToR under category 5(e)B1 of the schedule attached to the EIA Notification,2006 in the 137th meeting of SEAC-I held on 14th to 18th October,2016 for the expansion of manufacturing facility of Iso Propyl Alcohol.

Now PP submitted EIA/EMP reprot for appraisal.

The proposal was considered in the 148th meeting held on 28.02.2018 wherein the proposal was deferred till compliance of following points,

1. PP to submit their plan to achieve Zero Liquid Discharge.

2. The plan of the factory shows there is no space remained for the development of 33% green belt as industry is very old in the MIDC. In view of constrain of the space PP advised to obtain open space from MIDC in the area to develop green belt and submit related documents.

3. PP to reserve 2.5% of the project cost as CSR fund and maintain separate accounts for the same. CSR plan shall be prepared in consultation with the District Authorities.

4. PP to provide solar energy for administrative building and street lights.

5. PP to submit building plan of IPA manufacturing facility along with elevation and dimensions.

DECISION OF SEAC

After detailed deliberations with the PP and their accredited consultant SEAC-1 decided to recommend the proposal to the SEIAA for prior Environment Clearance subject to the following conditions.

Specific Conditions by SEAC:

1) PP to submit structural stability certificate of the exisitng buidlings on site.
2) PP to prepare and implment CER plan in consultation with the District Auhtority as per OM issued by MoEF&CC dated 01.05.2018.
3) PP to include water and carbon foot print in the monitoirng of EMP.
4) PP to ensure completion of Zero Liquid Discharge ETP for proposed expansion before applying for the Consent to Operate.

FINAL RECOMMENDATION

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

159th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 159th (A) - Day-2 **Meeting Date** February 2, 2019

Subject: Environment Clearance for Proposed expansion of manufacturing of Iso Propyl Alcohol- Petroleum products and petrochemical based processing facility at Plot No K1-K8, MIDC Taloja, Panvel by Deepak Fertilizers and Petrochemicals Corporation Limited

Is a Violation Case: No

1.Name of Project	Proposed expansion of manufacturing of Iso Propyl Alcohol- Petroleum products and petrochemical based processing facility at Plot No K1-K8, MIDC Taloja, Panvel by Deepak Fertilizers and Petrochemicals Corporation Limited
2.Type of institution	Private
3.Name of Project Proponent	Deepak Fertilizers and Petrochemicals Corporation Limited
4.Name of Consultant	Aditya Environmental Services Private Limited
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion of existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes.
8.Location of the project	Plot No K1-K8, MIDC Taloja, Panvel
9.Taluka	Panvel
10.Village	Taloja
Correspondence Name:	Mr. Deepak Pande
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	--
City:	--
11.Area of the project	MIDC Taloja
12.IOD/IOA/Concession/Plan Approval Number	MIDC approved plot plan
	IOD/IOA/Concession/Plan Approval Number: MIDC approved plot plan
	Approved Built-up Area: 270889
13.Note on the initiated work (If applicable)	Expansion within existing project.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC approved plot plan
15.Total Plot Area (sq. m.)	385584 sq m
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 14050
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 306399
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 28-08-2015
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	8437500000

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
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 facility is for manufacturing of Petroleum products and petrochemical based processing.
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Liquid CO2	72,000 MT/A	0 MT/A	72,000 MT/A
2	Ammonia	140,400 MT/A	0 MT/A	140,400 MT/A
3	Methanol	99,996 MT/A	0 MT/A	99,996 MT/A
4	Weak Nitric acid	445,500 MT/A	0 MT/A	445,500 MT/A
5	Concentrated nitric acid	129,600 MT/A	0 MT/A	129,600 MT/A
6	Multiple grade NPK Fertilizer	6,00,000 MT/A	525000 MT/A	11,25,000 MT/A
7	Technical grade ammonium nitrate" plus ammonium nitrate melt	444,000 MT/A	0 MT/A	444,000 MT/A
8	Iso propyl alcohol (IPA)	70200 MT/A	110000 MT/A	180200 MT/A
9	Electric power	9.4 MW	0 MT/A	9.4 MW
10	Steam	1,056 MT/day	0 MT/A	1,056 MT/day
11	Bentonite sulphur pastilles	25,000 MT/A	0 MT/A	25,000 MT/A

12	Iso propyl alcohol (for drum filling operation (packaging operation) only)	15,000 MT/A	0 MT/A	15,000 MT/A
13	Di iso propyl ether (DIPE) (for drum filling operation (packaging operation) only	15000 MT/A	0 MT/A	15000 MT/A
14	Gas based power generation (excluding DG sets)	17.9 MW	0 MT/A	17.9 MW
15	Propane (By product)	33,000 MT/A	15,000 MT/A	48,000 MT/A
16	Calcium phosphate (By product)	210 MT/A	0 MT/A	210 MT/A
17	Crude DIPE (By product)	1,440 MT/A	0 MT/A	1,440 MT/A
18	Di iso propyl ether (DIPE) (By product)	0 MT/A	7000 MT/A	7000 MT/A
19	Hydrogen gas (By product)	960 MT/A	0 MT/A	960 MT/A
20	Crude IPA/NPA mixture (By product)	1,080 MT/A	1500 MT/A	2580 MT/A

32.Total Water Requirement

Dry season:	**Source of water**	MIDC Taloja
	Fresh water (CMD):	23142 CMD
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	23863 CMD (23142 CMD from MIDC and 721 CMD recycle)
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable

Wet season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

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	172	0	172	18.5	0	18.5	153.5	0	153.5
Industrial Process	2358	480	2838	1188.7	130	1668.7	1169.3	350	1169.3
Cooling tower & thermopack	18813	2040	20853	16004.02	1669	18044.02	2808.98	371	2808.98

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	--
	Size and no of RWH tank(s) and Quantity:	--
	Location of the RWH tank(s):	--
	Quantity of recharge pits:	--
	Size of recharge pits :	--
	Budgetary allocation (Capital cost) :	--
	Budgetary allocation (O & M cost) :	--
	Details of UGT tanks if any :	--

35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	--
	Size of SWD:	Detailed drawing is attached as Annexure 6
Sewage and Waste water	**Sewage generation in KLD:**	153.5 cmd
	STP technology:	Sewage water is used as food to bacteria in bioreactor at ETP.
	Capacity of STP (CMD):	--
	Location & area of the STP:	--
	Budgetary allocation (Capital cost):	--
	Budgetary allocation (O & M cost):	--

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Ready mixed concrete will be used to avoid/minimise civil debris and dust emission. Also soil will be refilled back.
	Disposal of the construction waste debris:	Scrap generated will be sold to recycler.
Waste generation in the operation Phase:	**Dry waste:**	--
	Wet waste:	--
	Hazardous waste:	Spent catalyst, Residue and wastes, Discarded containers/liners, Used oil filters (non-metallic), Residues and wastes (silica gel), Date expired, discarded and off specification drugs (Ni Cd batteries), Used/Spent oil, Waste/residue containing oil, Used containers, Spray cans, spent catalyst, Used denoxed catalyst as spent catalyst, ,Used oil filters (nonmetallic), Date expired, discarded and off specification drugs (Lead acid batteries), Date expired, discarded and off specification drugs (Dry
	Biomedical waste (If applicable):	Soiled waste, Glassware
	STP Sludge (Dry sludge):	--
	Others if any:	--
Mode of Disposal of waste:	**Dry waste:**	--
	Wet waste:	--
	Hazardous waste:	Hazardous waste will be disposed of to CHWTSDF/ sale to authorized Recycler or Reuser as per Hazardous waste rule 2016.
	Biomedical waste (If applicable):	Biomedical waste will be disposed off as per Biomedical waste rule 2016.
	STP Sludge (Dry sludge):	--
	Others if any:	--
Area requirement:	**Location(s):**	Within plot
	Area for the storage of waste & other material:	--
	Area for machinery:	--

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

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	4 - 9	6 - 8.5	6 - 8.5
2	Oil and grease	mg/lit	2 - 3	< 10	< 10
3	BOD	mg/lit	200 - 300	< 100	< 100
4	TDS	mg/lit	1000-1500	< 2100	< 2100
5	Ammonical nitrogen	mg/lit	1800 – 2000	< 50	< 50
6	Nitrate nitrogen	mg/lit	150 - 200	< 20	< 20
7	Phosphate	mg/lit	80-100	< 5.0	< 5.0
8	Free Ammonical nitrogen	mg/lit	100-150	< 4	< 4
9	Suspended solids	mg/lit	70 - 80	<100	<100

Amount of effluent generation (CMD):	4131.78 + 721(from IPA expansion) = 4852.78 CMD
Capacity of the ETP:	4200 CMD
Amount of treated effluent recycled :	721 CMD
Amount of water send to the CETP:	4131.78 CMD
Membership of CETP (if require):	Yes. Unit is already member of CETP.
Note on ETP technology to be used	1. Existing: Low TDS effluent stream > Collection tank > Reaction tank > Ammonia stripper > Denitrification reactor I > Sec. clarifier I > Denitrification reactor II > Aeration tank > Sec. clarifier II > Final Polishing tank High TDS effluent stream > RO > Permeate recycle, 2. Proposed: Ceramic based membranes , ion exchange resins followed by bioreactor
Disposal of the ETP sludge	ETP sludge will be sent to CHWTSDF for landfill.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent catalyst	18.1	MT/Y	48.34	210	258.34	Sale to authorized party approved by CPCB/ MPCB
2	Residue and wastes	31.1	MT/Y	10	115	125	Sale to recycler/ CHWTSDF
3	Discarded containers/liners	33.3	MT/Y	346	0	346	Sale to authorized party for decontamination
4	Used oil filters (non metallic)	5.2	No/Y	25	6	31	CHWTSDF
5	Residues and wastes (silica gel)	31.1	MT/2 years	60 MT/2 years	0	60 MT/2 years	Sale to authorized party / recycler
6	Date expired, discarded and off specification drugs (Ni Cd batteries)	28.3	once in 5 years	400 No once in 5 years	60 No once in 5 years	460 No once in 5 years	Sale to reuser
7	Used/ Spent oil	5.1	KL/Y	130	7	137	Sale to authorized party approved by CPCB/ MPCB

8	Waste/ residue containing oil	5.2	MT/Y	10	2	12	CHWTSDF
9	Used containers	33.3	No/Y	3012	0	3012	CHWTSDF
10	Spray cans	33.3	No/Y	900	200	1100	CHWTSDF
11	Platinum, Rhodium catalyst as spent catalyst	17.2	Kg/Y	100	0	100	CHWTSDF/sale to recycler
12	Used denoxed catalyst as spent catalyst	17.2	MT/6 years	10	0	10	CHWTSDF/sale to recycler
13	Used oil filters (nonmetallic)	5.2	No/Y	20	0	20	CHWTSDF
14	Date expired, discarded and off specification drugs (Lead acid batteries)	28.3	No/Y	34	20	54	Sale to reuser
15	Date expired, discarded and off specification drugs (Dry cell batteries)	28.3	No/Y	300	50	350	Sale to reuser
16	Chemical sludge from waste water treatment	35.3	TPM	30	0	30	sent to CHWTSDF
17	Ion exchange resins	35.2	TPM	0	100	100	sent to 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	Ammonia Primary reformer (existing)	Natural Gas - 94218.5 sm3/day	--	30	1.373	170 deg C
2	Boiler A & B (existing)	Natural gas / Naphtha – 32400 sm3/day or 50 MTPD each	--	30 (common stack)	1	125 deg C
3	Methanol Primary reformer (Existing)	Natural Gas - 60150 sm3/day	--	30	1.373	115 deg C
4	CNA Plant 1 (Existing)	--	--	42	0.075	25 deg C
5	CNA Plant 2 (Existing)	--	--	42	0.075	25 deg C
6	CNA Plant 3 (Existing)	--	--	42	0.075	25 deg C
7	WNA-I Plants (Existing)	--	--	39	0.953	38 deg C
8	WNA II Plants (Existing)	--	--	39	0.953	38 deg C
9	WNA III Plants (Existing)	--	--	60	0.953	38 deg C
10	WNA IV Plants(Existing)	--	--	52	0.953	130 Deg C
11	ANP Prilling tower (Existing)	--	--	84	1.5	50 Deg C
12	LDAN Prilling tower (Existing)	--	--	84	1.3	50 Deg C
13	ANP cyclone separator (Existing)	--	--	30	1.5	34 Deg C
14	ANP vacuum pump(Existing)	--	--	27.8	0.2	35 deg C

15	LDAN ventury scrubber(Existing)	--	--	24.5	1.5	41 deg C
16	Boiler C (Standby) (Existing)	Natural Gas - 12600 sm3/day	--	30.5	1	125 Deg C
17	Boiler D (Standby) (Existing)	Natural gas / FO – 54000 sm3/day or 40 MTPD	--	63	1	170 Deg C
18	CES – A engine exhaust boiler(Existing)	Natural Gas - 30750 sm3/day	--	30.75	1.5	205 deg C
19	CES – B engine exhaust boiler(Existing)	Natural Gas - 30750 sm3/day	--	30.75	1.5	205 deg C
20	CO2 liquifier 1 (Existing)	--	--	8	0.025	24 Deg C
21	CO2 liquifier 2 (Existing)	--	--	8	0.025	24 Deg C
22	Stripper 1 (Existing)	--	--	5.1	0.511	-60 Deg C
23	Stripper 2 (Existing)	--	--	5.1	0.511	-60 Deg C
24	Combined (1 Nos) (Existing)	--	--	8	0.075	122 Deg C
25	Turbine - 1 (Existing)	Natural Gas - 37120 sm3/day	--	30	1.067	125 Deg C
26	HRSG - 1(Existing)	Natural gas/ Naphtha – 19584 sm3/day or 30 MTPD	--	30	1.067	125 Deg C
27	Turbine – 2 (Existing)	Natural Gas - 37120 sm3/day	--	30	1.067	125 Deg C
28	HRSG – 2 (Existing)	Natural gas/ Naphtha – 19584 sm3/day or 30 MTPD	--	30	1.067	125 Deg C
29	Turbine - 3 (Existing)	Natural Gas - 42888 sm3/day	--	30	1.5	550 Deg C
30	HRSG - 3 (Existing)	--	--	30	1.5	190 Deg C
31	Turbine - 4 Existing)	Natural Gas - 42888 sm3/day	--	30	1.5	550 Deg C
32	HRSG - 4(Existing)	--	--	30	1.5	190 Deg C
33	Turbine - 5 (Existing)	Natural Gas - 45984 sm3/day	--	30	1.5	550 Deg C
34	HRSG - 5 (Existing)	--	--	30	1.5	190 Deg C
35	G P Vent (Existing)	--	--	30	0.64	110 Deg C
36	780 weak nitric acid plant(Existing)	--	--	48	1.3	131 deg C
37	600 TPD LDAN prilling towers, dryers(Existing)	--	--	2	1.3	38.5 deg C
38	300 TPD HDAN Scrubber (existing)	--	--	11	1.1	50 Deg C
39	300 TPD HDAN prilling tower(Existing)	--	--	2	1.2	50 Deg C

40	40 TPH boiler (Existing)	Natural gas / FO– 73920 sm3/day or 49 MTPD	--	86 (Common stack for 40 TPH and 15 TPH boiler)	1.8	180 Deg C
41	15 TPH boiler(Existing)	Natural gas / FO – 28800 sm3/day or 26 MTPD	--	86 (Common stack for 40 TPH and 15 TPH boiler)	1.8	180 Deg C
42	Pastillator 1	--	--	8	0.152	52 Deg C
43	Pastillator 2	--	--	8	0.152	52 Deg C
44	Batch and feed tank(Existing)	--	--	10	0.152	55 Deg C
45	DG set 1 x 500 KVA (Existing)	Diesel	--	4.5	0.254	150 Deg C
46	DG set 1 x 500 KVA (existing)	Diesel	--	4.5	0.254	112 Deg C
47	DG set – 1000 KVA x 1 No (Existing)	Diesel	--	6.5	0.254	183 Deg C
48	DG set – 1000 KVA x 1 Nos (Existing)	Diesel	--	6.5	0.254	183 Deg C
49	DG set – 200 KVA (Existing)	Diesel	--	3	0.152	88 Deg C
50	DG set – 1500 KVA (Existing)	Diesel	--	6.5	0.152	170 Deg C
51	DG set – 1010 KVA (Existing)	Diesel	--	30	0.152	176 Deg C
52	DG set – 750 KVA (Existing)	Diesel	--	6.32	0.203	156 Deg C
53	Process stack 1 (Existing)	--	--	60	2.8	45 Deg C
54	Process stack 2 (Existing)	--	--	60	2.8	45 Deg C
55	Boiler 36 TPH (Existing)	Coal – 166 TPD	--	66 (common stack for 36 TPH and 70 TPH boiler)	1.9	140
56	Boiler 70 TPH (Existing)	Coal – 320 TPD	--	66 (common stack for 36 TPH and 70 TPH boiler)	1.9	140
57	Flare (NH3) (existing)	--	--	50	0.254	--
58	Flare (NH3 storage) (existing)	--	--	40	0.254	--
59	Flare (IPA) (Existing)	--	--	66	0.584	--

60	Flare (IPA) (Proposed)	--	--	--	--	--
61	DG set (capacity- 200 KVA) (Proposed)	Diesel- 200 Lit/ Day	--	3	0.152	88 Deg C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Natural gas (Ammonia primary reformer)	94218.5 sm3/day	0	94218.5 sm3/day
2	Natural gas / naphtha (Boiler A & B)	32400 sm3/day or 50 MTPD each	0	32400 sm3/day or 50 MTPD each
3	Natural gas / naphtha (Boiler A & B)	32400 sm3/day or 50 MTPD each	0	32400 sm3/day or 50 MTPD each
4	Natural gas (Methanol primary reformer)	60150 sm3/day	0	60150 sm3/day
5	Natural gas (Boiler C standby)	12600 sm3/day	0	12600 sm3/day
6	Natural gas or FO (Boiler D standby)	54000 sm3/day or 40 MTPD	0	54000 sm3/day or 40 MTPD
7	Natural Gas (CES – A engine)	30750 sm3/day	0	30750 sm3/day
8	Natural Gas (CES – B engine)	30750 sm3/day	0	30750 sm3/day
9	Natural Gas (Turbine 1)	37120 sm3/day	0	37120 sm3/day
10	Natural gas or naphtha (HRSG 1)	19584 sm3/day or 30 MTPD	0	19584 sm3/day or 30 MTPD
11	Natural Gas (Turbine 2)	37120 sm3/day	0	37120 sm3/day
12	Natural gas or naphtha (HRSG 2)	19584 sm3/day or 30 MTPD	0	19584 sm3/day or 30 MTPD
13	Natural Gas (Turbine 3)	42888 sm3/day	0	42888 sm3/day
14	Natural Gas (Turbine 4)	42888 sm3/day	0	42888 sm3/day
15	Natural Gas (Turbine 5)	45984 sm3/day	0	45984 sm3/day
16	Natural gas /FO (40 TPH boiler)	73920 sm3/day Or 49 MT/Day	0	73920 sm3/day Or 49 MT/Day
17	Natural gas /FO (15 TPH boiler)	28800 sm3/day Or 26 MT/Day	0	28800 sm3/day Or 26 MT/Day
18	Diesel (DG set – 500 KVA x 2 Nos, DG set – 1000 KVA x 2 Nos, DG set – 200 KVA, DG set – 1500 KVA, DG set – 1010 KVA	8000 Lit/day	0	8000 Lit/day
19	Diesel (DG set – 750 KVA)	250 Lit/Hr	0	250 Lit/Hr
20	Coal (Boiler 36 TPH)	166 TPD	0	166 TPD
21	Coal (Boiler 70 TPH)	320 TPD	0	320 TPD
22	Natural Gas (NPK plant)	5000 sm3/day	0	5000 sm3/day
23	DG set – 515 KVA (Proposed)	0	200 Lit/ Day	200 Lit/ Day

41.Source of Fuel	Local / Imported
42.Mode of Transportation of fuel to site	Liquid raw material will be transported by road tankers & Natural Gas by GAIL NG pipelines

43.Green Belt Development	**Total RG area :**	106505.81 (K1 - K5, periphery, MIDC main road divider), 3513.03(K6 and periphery), 15896.74 (K7,K8 and periphery) hence total GB area 125915.58 sq.m. (32.65 % of plot area)
	No of trees to be cut :	Nil
	Number of trees to be planted :	Around 9700 no. of trees in and around complex being planted and 22220 no. of trees planted on degraded forest land (50 Acre).
	List of proposed native trees :	--
	Timeline for completion of plantation :	Already 22220 no of trees planted post EC application and survival rate is more than 90 %.

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	Kadamba, Gulmohor, Karanj, Jambhul, Badam, Saptparni, Kadunimb, Ashoka, Mango, Wad, Pimpal	--	9700	--
2	Awala, Karanj,Apta, Kanchan, Nim, Wad, chinch, Satawan, shisam, Kashid, Hirda	--	22220	--
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	Chafa, Boganvel, Bitti and other bushes	--	--

47.Energy

Power requirement:	**Source of power supply :**	Inhouse cogeneration plant & MSEDCL
	During Construction Phase: (Demand Load)	Inhouse cogeneration plant & MSEDCL
	DG set as Power back-up during construction phase	Existing DG set
	During Operation phase (Connected load):	7 MW
	During Operation phase (Demand load):	4 MW
	Transformer:	2 Nos. of 8 MVA, 2 Nos. of 2.5 MVA
	DG set as Power back-up during operation phase:	515 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

It is proposed to install 200 KW solar energy panels.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	--	--

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air pollution sources	Scrubber for process mission, Cyclone separator, ESP	flare
Water pollution sources	ETP, RO	ceramic membranes, resins, bioreactor
Hazardous waste generation	Disposal to CHWTSDF/ Authorize recycler	Disposal through authorized recycler

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Ambient Air	As per NAAQMS	1.62
2	Noise	As per NAAQMS	0.1

3	Dust control by water sprinking	--	5

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 & Monitoring	flare	1350	27
2	Noise Pollution Control	Acoustic DG set	125	2.5
3	Water Pollution Control & monitoring	ceramic membranes, resins, bioreactor	2600	52
4	Solid and Hazardous Waste management	Solid and Hazardous Waste management	20	1
5	Green belt development	Green belt development	312	40
6	Occupational Health & Safety	fire hydrant system, sensor	400	10
7	Other Green Initiatives	Solar Power	162	2
8	Other Green Initiatives	Energy Conservation (LED)	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
Ammonia	Existing	Within plot	16098	13000	50700	Self production / Imported	Tanker
Ammonia	Existing	Within plot	2480	3000	50700	Self production / Imported	Tanker
DNA	Existing	Within plot	2 x 2093	2 x 1700	41063	Self production	Tanker
CNA	Existing	Within plot	3 x 175	3 x 140	0	Self production	Tanker
CNA	Existing	Within plot	2 x 289	2 x 230	0	Self production	Tanker
Methanol	Existing	Within plot	4498	3500	0	Self production	Tanker
Liquid CO2	Existing	Within plot	2 x 158	2 x 125	0	Self production	Tanker
Phosphoric acid	Existing	Within plot	2 x 3059	2 x 2450	27700	Imported	Tanker
Phosphoric acid	Existing	Within plot	2 x 3086	2 x 2500	27700	Imported	Tanker
Sulphuric acid	Existing	Within plot	585	475	11000	Local market	Tanker
Crude DIPE	Existing	Within plot	43	35	0	Self production	Tanker
Crude DIPE	Existing	Within plot	64	50	0	Self production	Tanker
Crude DIPE	Existing	Within plot	45	36	0	Self production	Tanker
DIPE (100 %)	Existing	Within plot	25	20	120	Self production	Tanker
Propylene	Existing	Within plot	3 x 500	3 x 400	7200	BPCL/GAIL/HPCL	Tanker
Propane	Existing	Within plot	500	400	--	Self production	Tanker
IPA	Existing	Within plot	5000	4000	--	Self production	Tanker
Off spec product	Existing	Within plot	72	56	--	Self production	--
Azeo product	Existing	Within plot	72	56	--	Self production	--
Dry Product	Existing	Within plot	2 x 72	2 x 56	--	Self production	Tanker

Phosphoric acid(food grade)	Existing	Within plot	20	16	3	Imported	Tanker
Dil Phos acid tank	Existing	Within plot	100	80	--	Self production	--
Caustic lye	Existing	Within plot	30	24	120	Local Market	Tanker
DIPE storage tank (2 Nos)	Proposed	Within plot	2 x 60	2 x 48	--	Self production	Tanker
Heavy & light weight storage tanks (2 Nos)	Proposed	Within plot	2 x 60	2 x 48	--	Self production	Tanker
IPA offspec storage tank (One No)	Proposed	Within plot	900	720	--	Self production	--
IPA storage tanks (Pharma or specialty grade) (2Nos)	Proposed	Within plot	2 x 260	2 x 200	--	Self production	Tanker
Day tank of heavy components(2Nos)	Proposed	Within plot	2 x 12	2 x 10	--	Self production	--
Day tank DIPE (2 Nos)	Proposed	Within plot	2 x 22	2 x 16	--	Self-production	--

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:	38884.7
	Area per car:	--
	Area per car:	--
	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):	Mi. 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 (e)- B

	Court cases pending if any	--
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	10-10-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. PP proposes Zero Liquid Discharge, PP proposes scrubber to the process vents. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes zero liquid discharge effluent treatment for the proposed expansion.
Drainage pattern of the project	PP considered contour on the site while designing the storm water drains.
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits at project site.
Solid Waste Management	PP committed to dispose the hazardous waste at Common Hazardous Waste Treatment, Storage, and Disposal Facility and sale to Authorized vendors. Details are given at Sr. No. 36 & 38 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for proposed project is 4MW which will be supplied by MSEDCL. PP proposes a numbers of 200 KVA DG Sets.
Traffic circulation system and risk assessment	PP has indicated in the lay out plan total 36048.97 Sq.m. area for parking and internal roads will be of minimum six meter width along with nine meters of turning radius for smooth circulation of traffic.
Landscape Plan	PP proposes to provide 33% green belt. PP to provide drip irrigation to the propsoed and existing green belt.
Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment and submitted Emergency Plan.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposed EMP cost of Rs.3937.5 Lakhs during construction phase and Rs. 102 Lakhs as capital cost and Rs. 52.46 Lakh as O & M cost to maintain environmental parameters.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP obtained ToR under category 5(e)B1 of the schedule attached to the EIA Notification,2006 in the 137th meeting of SEAC-I held on 14th to 18th October,2016 for the expansion of manufacturing facility of Iso Propyl Alcohol.

Now PP submitted EIA/EMP reprot for appraisal.

The proposal was considered in the 148th meeting held on 28.02.2018 wherein the proposal was deferred till compliance of following points,

1. PP to submit their plan to achieve Zero Liquid Discharge.

2. The plan of the factory shows there is no space remained for the development of 33% green belt as industry is very old in the MIDC. In view of constrain of the space PP advised to obtain open space from MIDC in the area to develop green belt and submit related documents.

3. PP to reserve 2.5% of the project cost as CSR fund and maintain separate accounts for the same. CSR plan shall be prepared in consultation with the District Authorities.

4. PP to provide solar energy for administrative building and street lights.

5. PP to submit building plan of IPA manufacturing facility along with elevation and dimensions.

Now PP submitted the compliance.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit structural stability certificate of the exisitng buidlings on site.
2) PP to prepare and implment CER plan in consultation with the District Auhtority as per OM issued by MoEF&CC dated 01.05.2018.
3) PP to include water and carbon foot print in the monitoirng of EMP.
4) PP to ensure completion of Zero Liquid Discharge ETP for proposed expansion before applying for the Consent to Operate.

FINAL RECOMMENDATION

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

159th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 159th (A) - Day-2 **Meeting Date** February 2, 2019

Subject: Environment Clearance for Existing 3 additional above ground tanks for the storage capacity of 1 x 2,929 KL HSD & 1 x 2,933 KL HSD & 1x 1,347 KL MS at IOCL Akola Depot, Maharashtra.

Is a Violation Case: Yes

1.Name of Project	Environmental Clearance for existing 3 additional above ground tanks for the storage of 1 x 2929 KL HSD & 1 x 2933 KL HSD & 1 x 1347 KL MS at IOCL Akola depot by Indian oil corporation limited
2.Type of institution	Semi Government
3.Name of Project Proponent	Mr. Ramesh Kasbekar
4.Name of Consultant	ABC Techno labs India Private Limited , Corporate Office: ABC TOWER No. 400 , 13th Street, SIDCO Industrial Estate- North Phase , Ambattur Chennai – 600 098 Tamil Nadu, India., Mumbai Office: A-355, Balaji Bhavan, Plot No. 42 A, Sector 11, CBD Belapur, Navi Mumbai – 400614. Maharashtra, India, Tel: 022 27580044
5.Type of project	Not applicable
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	Environmental clearance not applicable as Tankages Constructed before EIA Notification 2006.
8.Location of the project	At Survey no. 295,296, 298, 299, 300, 301, 310, 311, 744, 745, 476
9.Taluka	Balapur
10.Village	Gaigaon
Correspondence Name:	Indian Oil Corporation Limited (IOCL)
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	Village
City:	Akola
11.Area of the project	Gaigaon Gram Panchyat, Tehsil Balapur, District Akola, Maharashtra – 444109.
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	1,87,500 Sq.m
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 06-12-2018
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	39300000

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
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)	--
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	HSD	2 X 1954 KL & 1 X 2953 KL	1 X 2929 KL & 1 X 2933 KL	12723 KL
2	MS	2 X 282 KL & 1 X 1100 KL	1 X 1347 KL	3011 KL
3	SKO	1 X 1951 KL & 1 X 1954 KL	--	3905 KL
4	ETHANOL	1 X 50 KL & 1 X 70 KL	--	120 KL

32.Total Water Requirement

Dry season:	**Source of water**	Bore well
	Fresh water (CMD):	5
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	2
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	5
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Wet season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

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	3	0	3	--	0	--	2..5	--	2.5
Gardening	2	0	0	--	--	--	--	--	--

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	--
	Size and no of RWH tank(s) and Quantity:	--
	Location of the RWH tank(s):	Within plant only
	Quantity of recharge pits:	Nil
	Size of recharge pits :	192 KL
	Budgetary allocation (Capital cost) :	0.2 lakhs
	Budgetary allocation (O & M cost) :	2.4 lakhs
	Details of UGT tanks if any :	--
35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	--
	Size of SWD:	--
Sewage and Waste water	**Sewage generation in KLD:**	2.5
	STP technology:	Domestic sewage generated onsite is currently treated in septic tank and disposed off through soak pit.
	Capacity of STP (CMD):	0
	Location & area of the STP:	Nil
	Budgetary allocation (Capital cost):	0
	Budgetary allocation (O & M cost):	0
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	--
	Disposal of the construction waste debris:	--
Waste generation in the operation Phase:	**Dry waste:**	33.5 kg(0.5kg/person/day)
	Wet waste:	--
	Hazardous waste:	--
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--

Mode of Disposal of waste:	**Dry waste:**	Solid waste is being handed over to authorized recycler.
	Wet waste:	--
	Hazardous waste:	--
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--
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:**	0
	O & M cost:	0

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	NA	NA	NA	N A	NA

Amount of effluent generation (CMD):	0
Capacity of the ETP:	0
Amount of treated effluent recycled :	0
Amount of water send to the CETP:	N A
Membership of CETP (if require):	NA
Note on ETP technology to be used	NA
Disposal of the ETP sludge	NA

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used Spent oil	3.1	--	--	--	--	--

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	DG set	HSD	1	5.5	--	--
2	Fire engines	HSD	1	3.5	--	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD (DG set)	--	40 ltr/hrs at full load	40 ltr/hrs at full load
2	HSD (Fire engines)	--	40 ltr/hrs at full load	40 ltr/hrs at full load

41.Source of Fuel	Near by market
42.Mode of Transportation of fuel to site	by road

43.Green Belt Development	**Total RG area :**	61,875.0 sq.m
	No of trees to be cut :	0
	Number of trees to be planted :	200
	List of proposed native trees :	--
	Timeline for completion of plantation :	--

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	--	--	--	--
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	N A	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	--
	DG set as Power back-up during construction phase	--
	During Operation phase (Connected load):	400 KW
	During Operation phase (Demand load):	400 KW
	Transformer:	--
	DG set as Power back-up during operation phase:	2 * 250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

All light fixtures in admin building, control room, customer care room, etc are replaced with LED lights. However, proposal for replacement of lights of High mast, street lamps and other lights with LED lights in field area is in process for approval at State Office.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	--	--

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
--	--	--

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	--
	O & M cost:	--

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	--	--	--

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	Air pollution control and monitoring	0.25	3
2	Water pollution	Water pollution management	0.1	1.2
3	Noise pollution	Noise Pollution control	0.56	6.72
4	Green belt development, rain water harvesting, watershed management	Green belt development, rain water harvesting, watershed management	0.2	2.4

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
N A	N A	N A	N A	N A	N A	N A	N A

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:	6250 sq.m
	Area per car:	--
	Area per car:	--
	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):	--
	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	Category B as per schedule of EIA Notification 2006.With reference to OM dated 15th March 2018, regarding implementation of Notification S.O.1030 (E) dated 8th March 2018, Now all category B (VIolation) projects has been considered by respective SEAC .
	Court cases pending if any	No
	Other Relevant Informations	As per EIA Notification S.O. No 1533 issued on 14th September, 2006 and its subsequent amendments, additional 3 tanks at IOCL Akola depot is falling under Schedule 6(b) – Isolated storage & handling of hazardous chemicals and 'Category B'. But Three tanks were already constructed so said project treated as category A. Hence, this project has been approved and prepared based on the Terms of Reference approved during 4th Meeting of from Expert appraisal committee (EAC) held on 19th February, 2018 for additional 3 tanks at IOCL Akola depot. Now With reference to OM dated 15th March 2018, regarding implementation of Notification S.O.1030 (E) dated 8th March 2018, all category B (Violation) projects has been considered by respective SEAC.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	05-05-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable

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

Brief information of the project by SEAC

PP has obtianed ToR from EAC , MoEF&CC in their 4th meeting held on 19th February, 2018 for additional 3 tanks at IOCL, Akola Dpeot under violation cateogry as per notification issue dby MoEF&CC dated 8th March, 2018

DECISION OF SEAC

During deliberations with the PP and their accredited consultant, it was aobservd that, PP has neither carried out ecological damage assessment nor prepared remediation and natural and community resource augmentation plan as required under notifications issued by MoEF&CC dated 08.03.2018, 15.03.2018 & 16.03.2018.

Hence, SEAC-1 decided to defer the proposal till PP submits revised EIA /EMP report including above mentioned details.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

159th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 159th (A) - Day-2 **Meeting Date** February 2, 2019

Subject: Environment Clearance for constructed 3 additional tanks for storage of 1 x 2,984 KL MS , 1 x 4,160 KL HSD and 1 x 50 KL Ethanol at IOCL Pune Terminal, Kadam Wak Wasti, Loni Kalbhor, Tal. Haveli, PuneSolapur Road, Pune District 412201, Maharashtra.

Is a Violation Case: Yes

1.Name of Project	Environmental Clearance for constructed 3 additional tanks for storage of 1 x 2,984 KL MS , 1 x 4,160 KL HSD and 1 x 50 KL Ethanol at IOCL Pune Terminal, Kadam Wak Wasti, Loni Kalbhor, Tal. Haveli, PuneSolapur Road, Pune District 412201, Maharashtra.
2.Type of institution	Semi Government
3.Name of Project Proponent	Mr. Ramesh Kasbekar
4.Name of Consultant	ABC Techno Labs India Pvt. Ltd. Corporate Office: ABC TOWER No. 400 , 13th Street, SIDCO Industrial Estate- North Phase , Ambattur Chennai – 600 098,Tamil Nadu, India. Branch Office Mumbai : A-355, Balaji Bhavan, Plot No. 42 A, Sector 11, CBD Belapur, Navi Mumbai – 400614. Maharashtra, India, Tel: 022 27580044
5.Type of project	Not applicable
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	NO
8.Location of the project	181 to 198,179 A.B.,180,1133,1134,1135,198,201
9.Taluka	Haveli
10.Village	Loni Kalbhor
Correspondence Name:	Indian Oil Corporation Limited
Room Number:	--
Floor:	--
Building Name:	Pune Terminal, Indian Oil Corporation Ltd
Road/Street Name:	Kadam Vak Vasti, Pune Solapur Highway
Locality:	Loni Kalbhor
City:	Pune
11.Area of the project	Kadam Vak Vasti-Grampanchayat
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	1,07,192 Sq. M
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 10-12-2018
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable

21.Estimated cost of the project	39300000

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
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)	0
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	HSD	18,536 KL	4, 160 KL	22,696 KL
2	MS	4068 KL	2,984 KL	7052 KL
3	Ethanol	200 KL	50 KL	250 KL

32.Total Water Requirement

Dry season:	**Source of water**	Borewell
	Fresh water (CMD):	13
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	3
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	13
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	Not applicable
Wet season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

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	10	0	10	8.8	0	8.8	1.2	0	1.2

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	--
	Size and no of RWH tank(s) and Quantity:	--
	Location of the RWH tank(s):	--
	Quantity of recharge pits:	6
	Size of recharge pits :	2 ft X 2ft
	Budgetary allocation (Capital cost) :	10 Lakhs
	Budgetary allocation (O & M cost) :	3 Lakhs
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	--
	Size of SWD:	--
Sewage and Waste water	**Sewage generation in KLD:**	1.2
	STP technology:	Seawage will be disposed in soak pit
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	--
	Disposal of the construction waste debris:	--
Waste generation in the operation Phase:	**Dry waste:**	12 kg/day
	Wet waste:	18 kg/day
	Hazardous waste:	--
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--

Mode of Disposal of waste:	**Dry waste:**	It will be handed over to authorized recycler
	Wet waste:	Through Composting
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--
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	NA	NA	NA	NA	NA

Amount of effluent generation (CMD):	0
Capacity of the ETP:	0
Amount of treated effluent recycled :	0
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	NA
Disposal of the ETP sludge	NA

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used Spent oil	3.1	lit	Negigible	0	Negligible	--

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	DG Set	HSD	1	6	--	--
2	DG set	HSD	1	6	--	--
3	Fire Engines	HSD	1	6	--	--
4	Fire Engines	HSD	1	6	--	--
5	Fire Engines	HSD	1	6	--	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	15 lit/hr	0	15 lit/hr

41.Source of Fuel	HPCL Terminal (OMC)
42.Mode of Transportation of fuel to site	Pipeline

43.Green Belt Development	**Total RG area :**	41,477 Sq. M.
	No of trees to be cut :	NIL
	Number of trees to be planted :	0
	List of proposed native trees :	NIL
	Timeline for completion of plantation :	NA

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

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

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	--
	DG set as Power back-up during construction phase	--
	During Operation phase (Connected load):	500 KvA
	During Operation phase (Demand load):	500 KvA
	Transformer:	--
	DG set as Power back-up during operation phase:	2 X 320
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

All light fixtures in admin building, control room, customer care room, etc are replaced with LED lights. However, proposal for replacement of lights of High mast, street lamps and other lights with LED lights in field area is in process for approval at State Office

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	--	--

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
--	--	--

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	--
	O & M cost:	--

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	--	--	--

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Green Belt	Green Belt / Horticulture	25	5
2	Rain Water Harvesting	Rain Water Harvesting	10	3
3	Water Pollution	Water management	5	1
4	Sinages	Signage's for EMP	2	0.5
5	Solid Waste Management	Municipal Waste Management	2.5	0.5
6	Noise Pollution	Noise Control Measures	1.0	0.3
7	Environment Monitoring	Environment Monitoring	--	5.0
8	Training & Awareness	Environmental Awareness and Training	3.0	1.5

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
NA	NA	NA	NA	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	--
Parking details:	**Number and area of basement:**	--
	Number and area of podia:	--
	Total Parking area:	144 Sq. m
	Area per car:	--
	Area per car:	--
	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):	--
	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	B As per the Schedule of EIA notification 2006, with reference to OM dated 15th March 2018, regarding implementation of notification S.O. 1030 (E) dated 8th March 2018, now all category B (Violation) projects has been considered by respective SEAC
	Court cases pending if any	No
	Other Relevant Informations	As per EIA Notification S.O. No 1533 issued on 14th September, 2006 and its subsequent amendments, additional 3 tanks at IOCL Pune terminal is falling under Schedule 6(b) – Isolated storage & handling of hazardous chemicals and 'Category B'. But Three tanks were already constructed and treated as category A. Hence, this project has been approved and prepared based on the Terms of Reference approved during 4th Meeting of from Expert appraisal committee (EAC) held on 19th February, 2018 for additional 3 tanks at IOCL Pune terminal. Now, with reference to OM dated 15th March 2018, regarding implementation of Notification S.O. 1030 (E) dated 8th March, now all category B (violation) projects has been considered by respective SEAC.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	10-05-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

PP has obtianed ToR from EAC, MoEF&CC in their 4th meeting held on 19th February, 2018 for additional 3 tanks at IOCL, Akola Dpeot under violation cateogry as per notification issue dby MoEF&CC dated 8th March, 2018

DECISION OF SEAC

During deliberations with the PP and their accredited consultant it was aobservd that PP has not carried out ecological damage assessment and not prepared remediation and natural and community resource augmentation plan as required under notifications issued by MoEF&CC dated 08.03.2018, 15.03.2018 & 16.03.2018.

Hence SEAC-1 decided to defer the proposal till PP submits revised EIA /EMP report including above mentioned details.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

159th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 159th (A) - Day-2 **Meeting Date** February 2, 2019

Subject: Environment Clearance for CRZ clearance for work of Anti-sea Erosion bunds at 12 sites in Sindhudurg district

Is a Violation Case: No

1.Name of Project	CRZ clearance for work of Anti-sea Erosion bunds at 12 sites in Sindhudurg district
2.Type of institution	Government
3.Name of Project Proponent	Harbour Engineering Division Sindhudurg
4.Name of Consultant	Tarracon Ecotech Pvt. Ltd.
5.Type of project	NA
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Hindale,Waniwade Sarwankarwadi, Masurkar Juva bet , Masurkar Khot Juva, Deobag to Tarkarli,Bagmalagoan, Sagareshwar Kurlewadi,
9.Taluka	Devgad, Malvan, Vengurla
10.Village	Hindale,Waniwade Sarwankarwadi, Masurkar Juva bet , Masurkar Khot Juva, Deobag to Tarkarli,Bagmalagoan, Sagareshwar Kurlewadi,
Correspondence Name:	B. A. Shinde
Room Number:	IInd Floor, 'C' Block
Floor:	IInd Floor, 'C' Block
Building Name:	Administrative Building
Road/Street Name:	Kudal ,Sindhudurgnagari
Locality:	Kudal ,Sindhudurgnagari
City:	Kudal ,Sindhudurgnagari
11.Area of the project	Municipal
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 4376
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	NA
16.Deductions	NA
17.Net Plot area	NA
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 4376
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 21-08-2018
19.Total ground coverage (m2)	NA
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	162809791

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

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Local water supply
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	0.2
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA

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

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	NA	0.2	0.2	NA	NA	NA	NA	NA	NA

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	NA
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	NA

35.Storm water drainage	Natural water drainage pattern:	NA
	Quantity of storm water:	NA
	Size of SWD:	NA

Sewage and Waste water	**Sewage generation in KLD:**	NA
	STP technology:	NA
	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:**	Little quantity of waste will be generated during construction
	Disposal of the construction waste debris:	Waste will be collected and handed over to authorized vendor
Waste generation in the operation Phase:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	NA
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	162,809,791
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	NA	NA	NA	NA	NA
Amount of effluent generation (CMD):		NA			
Capacity of the ETP:		NA			

Amount of treated effluent recycled :	NA
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	NA
Disposal of the ETP sludge	NA

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	NA	NA	NA	NA	NA	NA	NA

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	NA	NA	NA	NA	NA	NA

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	NA	NA	NA	NA
41.Source of Fuel		NA		
42.Mode of Transportation of fuel to site		NA		

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

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

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

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

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

47.Energy

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

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
NA	NA	NA

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Pollution control measures	NA	5.0
2	Environmental Monitoring	NA	8.0
3	Site Sanitation Facility	NA	4.0
4	Safety Measures	NA	2.0
5	Health Check Up	NA	1.5
6	Solid Waste Management	NA	2.5

7	EHS Training Programs	NA	1.0
8	Others	NA	3.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Pollution control measures	NA	NA	1
2	Environmental Monitoring	NA	NA	10
3	Others	NA	NA	3

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
NA	NA	NA	NA	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	NA
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	NA
	CRZ/ RRZ clearance obtain, if any:	NA

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	NA
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

DECISION OF SEAC

The propsoal is related to MCZMA and SEIAA.

Hence, SEAC - 1 decided to refer the proposal to the SEIAA for necessary action.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.

159th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 159th (A) - Day-2 **Meeting Date** February 2, 2019

Subject: Environment Clearance for Proposed 250 kg / hr. Common Bio – Medical Waste Treatment Facility (CBMWTF) at Village-Phandari Sadak Arjuni, Maharashtra to cater about 6,000 beds covering 2 Districts (Bhandara and Gondia) and all the districts falling within 75 km radius.

Is a Violation Case: No

1.Name of Project	Proposed 250 kg / hr. Common Bio – Medical Waste Treatment Facility (CBMWTF) at Village-Phandari Sadak Arjuni, Maharashtra to cater about 6,000 beds covering 2 Districts (Bhandara and Gondia) and all the districts falling within 75 km radius.
2.Type of institution	Private
3.Name of Project Proponent	Vidarbha Enviro Solutions LLP / Gulam Dastgir Pathan
4.Name of Consultant	Visiontek Consultany Services Pvt. Ltd. Bhubaneshwar, Odisha.
5.Type of project	Others - Proposed 250 kg / hr. Common Bio – Medical Waste Treatment Facility (CBMWTF) at Village-Phandari Sadak Arjuni, Maharashtra to cater about 6,000 beds covering 2 Districts (Bhandara and Gondia) and all the districts falling within 75 km radius.
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Khasra No. 548/2 and 98
9.Taluka	Sadak-Arjuni
10.Village	Phandari (Halbitola)
Correspondence Name:	Gulam Dastgir Pathan
Room Number:	NA
Floor:	NA
Building Name:	NA
Road/Street Name:	Near Rest House, Balaghat Road, Gondia
Locality:	Tal-Gondia
City:	Gondia
11.Area of the project	Other area - Pandhari Gram Panchayat
12.IOD/IOA/Concession/Plan Approval Number	Approval Received from Pandhari Gram Panchayat
	IOD/IOA/Concession/Plan Approval Number: Approval Received on 17/07/2018
	Approved Built-up Area: 570
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Approval Received from Pandhari Gram Panchayat on 17
15.Total Plot Area (sq. m.)	5463.25 Sqm. (1.35 Acre)
16.Deductions	NA
17.Net Plot area	5463.25 Sqm. (1.35 Acre)
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.): 570
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 17-07-2018
19.Total ground coverage (m2)	NA
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	25565000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	NA
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Nearest Fire Station is Birsi Airport Fire Station. It is about 31 km away from the Project Site towards NE. Width of the Road from the nearest Fire Station to the Project Site is 6.0 Mtr.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 7.5 meter width of turning radius has been kept for proper movement of vehicles
29.Existing structure (s) if any	There is no Existing Structure.
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	NA	NA	NA	NA

32.Total Water Requirement

Dry season:	**Source of water**	Pandhari Gram Panchayat
	Fresh water (CMD):	11
	Recycled water - Flushing (CMD):	00
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	20
	Fire fighting - Underground water tank(CMD):	20
	Fire fighting - Overhead water tank(CMD):	00
	Excess treated water	00
Wet season:	**Source of water**	Pandhari Gram Panchayat
	Fresh water (CMD):	2
	Recycled water - Flushing (CMD):	00
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	11
	Fire fighting - Underground water tank(CMD):	20
	Fire fighting - Overhead water tank(CMD):	00
	Excess treated water	00
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**
Industrial Process	0	7	7	0	0	0	0	7	7
Domestic	0	2	2	0	0.2	0.2	0	1.8	1.8
Gardening	0	9	9	0	9	9	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1.3 to 2.8 mbgl
	Size and no of RWH tank(s) and Quantity:	Since it is a Bio-medical Waste Management Project, rain water harvesting at site is not proposed.
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	One Number of UGT for Fire Water Storage will be constructed. Capacity of the Tank will be 22 KL. Fire Water Requirement is about 20 KL.
35.Storm water drainage	**Natural water drainage pattern:**	The Site has Natural Slope from South direction to North direction.
	Quantity of storm water:	1.8 m3 / Min
	Size of SWD:	Depth of the Storm water Drain (SWD) will be 0.5m and width will be 0.3m. The slope will be maintained throughout the SWD in such a way that the velocity of the flowing water will be more than 0.3m/sec. Actually the velocity of the flowing water will be required 0.2m/sec but for drainage, design velocity of the flowing water has been considered as 0.6m/sec.
Sewage and Waste water	**Sewage generation in KLD:**	1.8 KLD
	STP technology:	About 1.8 KLD Sewage will be generated in the proposed project. Sewage will be collected in the Septic Tank first and then the over flow of septic tank will be fed to the Aeration Tank of Effluent Treatment Plant of 13.0 KLD Capacity and then it will be treated up to Advanced Tertiary Level. One Number of ETP has been Proposed and any separate STP has not been proposed.
	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:**	Excavated material will be generated. Construction debris will be generated. Recyclable waste will be generated through the construction. Excavated Top soil will be generated during construction.
	Disposal of the construction waste debris:	Entire excavated material (except top soil) will be used for backfilling. Construction debris will be utilized within the site upto maximum extent. All the recyclable waste generated through the construction will be handed over to authorized recyclers. Top Soli will be used for plantation.
Waste generation in the operation Phase:	**Dry waste:**	About 113 kg/day Ash from Incineration will be generated. 12,750 kg/day Dry waste will be sent to Autoclave and then Shredder.
	Wet waste:	All the wet wastes such as human or animal tissues, body parts, blood or other body fluids etc. will be collected from hospitals.
	Hazardous waste:	About 113 kg/day Ash from Incineration will be generated. ETP Sludge will be generated.
	Biomedical waste (If applicable):	It is a Proposed 250 kg / hr. Common Bio – Medical Waste Treatment Facility (CBMWTF) at Village-Pandhari, Sadak Arjuni, Maharashtra to cater about 6,000 beds covering 2 Districts (Bhandara and Gondia) and all the districts falling within 75 km radius.
	STP Sludge (Dry sludge):	About 1.8 KLD Sewage will be generated in the proposed project. Sewage will be collected in the Septic Tank first and then the over flow of septic tank will be fed to the Aeration Tank of Effluent Treatment Plant of 13.0 KLD Capacity and then it will be treated up to Advanced Tertiary Level. One Number of ETP has been Proposed and any separate STP has not been proposed.
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Ash from Incineration and other hazardous wastes will be sent to CHWTSDF.
	Wet waste:	All the wet wastes such as human or animal tissues, body parts, blood or other body fluids etc. will be burnt in the Incinerator.
	Hazardous waste:	All Haz. Waste shall be stored separately and shall be strictly sent to CHWTSDF as per Hazardous and Other Waste (Management & Trans Boundary) Rules, 2016.
	Biomedical waste (If applicable):	All bio-medical waste shall be managed as per Bio-medical Waste Management Rule, 2016
	STP Sludge (Dry sludge):	About 1.8 KLD Sewage will be generated in the proposed project. Sewage will be collected in the Septic Tank first and then the over flow of septic tank will be fed to the Aeration Tank of Effluent Treatment Plant of 13.0 KLD Capacity and then it will be treated up to Advanced Tertiary Level. One Number of ETP has been Proposed and any separate STP has not been proposed. ETP sludge will be sent to CHWTSDF.
	Others if any:	NA
Area requirement:	**Location(s):**	The Proposed project of M/s. Vidarbha Enviro Solutions is located at Village: Pandhari (Halbitola), Tehsil: Sadak Arjuni, District: Gondia, Maharashtra.
	Area for the storage of waste & other material:	Approx. 164 sqm of area has been demarcated for storage of different type of waste generated from the treatment facility. These storage areas have separated based on the type of waste to be stored.
	Area for machinery:	Approximately 188 sqm. area has been demarcated for Incinerator, Autoclave, shredder.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	25565000
	O & M cost:	Rs 240000

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	4 to 6	6.5 to 8.5	5.5 to 9.0
2	TSS	mg/litre	300 to 600	50 to 100	<100
3	BOD	mg/litre	250 to 400	20-30	<100
4	O & G	mg/litre	20 to 30	5 to 10	<10
5	COD	mg/litre	750 to 1000	200 to 250	<250

Amount of effluent generation (CMD):	9.0 CMD
Capacity of the ETP:	13 CMD
Amount of treated effluent recycled :	9 CMD
Amount of water send to the CETP:	Treated Water will be completely recycled / reused in the Plant and there will be no liquid discharge outside the plant premises. It will be a Zero Liquid Discharge (ZLD) Plant.
Membership of CETP (if require):	NA
Note on ETP technology to be used	Advanced Tertiary Treatment
Disposal of the ETP sludge	ETP sludge shall be sent to CHWTSDF, Butibori Nagpur

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP Sludge	34.3	NA	NA	As per actual	As per actual	CHWTSDF
2	Incineration Ash	BMW-cat No. 9	NA	NA	113 kg/day	113 kg/day	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	Incineration	HSD 65 ltr/hr.	1	30	0.550	90 (oC)
2	D.G Set	HSD 350 ltr./month	1	5.0 m above the roof	0.200	40 (oC)

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	66 ltr./hr	66 ltr. /hr.

41.Source of Fuel	Local Market
42.Mode of Transportation of fuel to site	Fuel will be transported to the site by sealed MS Drums through Closed Containers.

43.Green Belt Development	**Total RG area :**	1802.87 m2 (33% of the Total Plot Area)
	No of trees to be cut :	NA
	Number of trees to be planted :	289 Nos. of Trees will be Planted along the boundary of the Project Site.
	List of proposed native trees :	As listed below
	Timeline for completion of plantation :	Within 1 Month during construction period

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	57	Evergreen
2	Cassia fistula	Golden shower	57	Deciduous
3	Hibiscus rosasinensis	Jaswand	57	Evergreen
4	Butea monosperma	Palas	57	Deciduous
5	Ficus religiosa	Pipal	61	Evergreen
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL (Dava Sub Station)
	During Construction Phase: (Demand Load)	20 kVA
	DG set as Power back-up during construction phase	50 kVA
	During Operation phase (Connected load):	50 kVA
	During Operation phase (Demand load):	30 kVA
	Transformer:	30 kVA
	DG set as Power back-up during operation phase:	50 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

it is a Proposed project. It will be done during the Operational Phase of the Project.

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
Incinerator (Air Pollution)	NA	Venturi Scrubber, Quencher, Multi Cyclonic Droplet Separators, Flooded scrubber with Quenching Arrangement. Media of the Scrubber will be Water.
Autoclave, Washing Area and Domestic Waste Water (Water Pollution)	NA	About 1.8 KLD Sewage will be generated in the proposed project. Sewage will be collected in the Septic Tank first and then the over flow of septic tank will be fed to the Aeration Tank of Effluent Treatment Plant of 13.0 KLD Capacity and then it will be treated up to Advanced Tertiary Level. One Number of ETP has been Proposed and any separate STP has not been proposed. 9 KLD Effluent will be generated in the proposed project which will be fed to ETP and then it will be treated up to Advanced Te
Incinerator & ETP (Hazardous Solid Waste)	NA	About 113 kg/day Ash from Incineration will be generated. ETP Sludge will be generated. These will be Will be disposed to CHWTSDF.
Incinerator, Shredder & D.G.Set (Noise Pollution)	NA	Noise generating equipments will be kept in closed structures. Acoustic systems will be provided to D.G. set. The workers will also be provided with ear muff, ear plug while working at noisy area.

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	Air Pollution Management	Regular Water Sprinkling to reduce Fugitive Emission	1.0
2	Water Pollution Management	Supply of Potable Water for domestic purpose by tankers & arrangement of Bio-toilets at the site	1.0
3	Solid & Hazardous Waste Management	Solid Wastes generated during constructional phase would be storage disposed properly. Hazardous Waste would be handed over to authorized vendor.	1.0

4	Occupational Health & Safety	PPEs will be provided, Fire Safety Arrangements and First-aid Facility will be provided	1.0
5	Green Belt Development	Plantation will be completed during the constructional phase. 289 Nos. of Trees will be Planted along the boundary of the Project Site.	1.0

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 Environment	Venturi Scrubber, Quencher, Multi Cyclonic Droplet Separators, Flooded scrubber with Quenching Arrangement. Media of the Scrubber will be Water.	5.0	3.0
2	Water Environment	About 1.8 KLD Sewage will be generated in the proposed project. Sewage will be collected in the Septic Tank first and then the over flow of septic tank will be fed to the Aeration Tank of Effluent Treatment Plant of 13.0 KLD Capacity and then it will be treated up to Advanced Tertiary Level. One Number of ETP has been Proposed and any separate STP has not been proposed. 9 KLD Effluent will be generated in the proposed project which will be fed to ETP and then it will be treated up to Advanced Te	10	2.0
3	Hazardous Solid Waste	About 113 kg/day Ash from Incineration will be generated. ETP Sludge will be generated. These will be Will be disposed to CHWTSDF.	5.0	5.0

4	Environment Monitoring and Management	Post Project Environmental Monitoring: Ambient Air Quality, Stack Emission, Noise, Effluent Quality, Work Zone Monitoring.	5.0	8.0
5	Green Belt Development	Green Belt will be developed in 1802.87 m2 area (33% of the Total Plot Area). 289 Nos. of Trees will be Planted along the boundary of the Project Site.	1.0	1.0

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
HSD	Liquid	Fuel Storage within Plant Premises	1100 Ltrs.	1100 Ltrs	31680 Ltrs.	Local Market	Sealed MS Drums and through Closed Containers

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:	60 M2
	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:	Steel Body Covered 4 Wheelers will be provided for the transportation of Bio-medical Waste from source to the project site. At a time about 2 - 3 Two Wheelers and about 1 - 2 Four Wheelers can parked within the plant premises.
	Public Transport:	NA
	Width of all Internal roads (m):	7.0 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Boundary of Nagzira Wildlife Sanctuary is about 1.36 Km away from the Project Site towards NE
	Category as per schedule of EIA Notification sheet	7 (da) B
	Court cases pending if any	NA
	Other Relevant Informations	No
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 7d(a)B1 as per EIA Notification, 2006. PP presented draft TOR in 157th meeting of SEAC-1 held on 21.11.2018 wherein the proposal was deferred for following reason,

PP has not submitted site selection approval from prescribed Authority and stake holders as mentioned in the Bio Medical Management Rules published on 28.03.2016.

In view of above SEAC decided to defer the proposal till PP submit above documents.

Now PP submitted the site visit reprot of MPCB with respect to the location of the propsoed project dated 18.01.2019 and presented the proposal for the grant of Terms of References.

DECISION OF SEAC

Draft Terms of Reference (TOR) have been discussed and finalized during the meeting of SEAC-1. The committee prescribed the following TOR for preparation of EIA-EMP report.

PP to carry out Public Consultation as per procedure stipulated in the EIA Notification, 2006 and submit point wise compliance of the issues raised during Public Consultation.

PP to collect base line data as per Office Memorandum issued by MoEF&CC dated 27.08.2017.

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

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

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

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
3) PP to comply with the standard consitions stipulated for the Bio Medical Waste facility in the Office Memrandum issued by MoEF&CC dated 4th January, 2019 for the preparation of EIA/EMP report.
4) PP to submit action plan for point wise compliance of the Bio Medical Waste Rules, 2106.
5) PP to design incinerator as per guidelines prescribed by CPCB and include details in the EIA report.
6) PP to carry out survey to decided on the quantum of the waste expected to be recived for treatment; PP to justify proposed capacity of the incinerator with respect to the expected quantity of BioMEdical Waste.
7) PP to include detailed plan of segregation, collection, transport, storage, treatment and disposla of BioMedical Waste in the EIA report inlcuding numbers of vehicles and features of the vehicles to be engaed for waste collection.
8) PP to submit details of the waste storage facilities/rooms.
9) PP to include details of waste generated from the treatment facility and its disposal in the EIA report.
10) PP to include details of the fuel requirement for the incineration in the EIA report.
11) PP to include details of waste heat recovery if any.
12) PP to inlcude details of waste water treatment and disposal in the EIA report.
13) PP to submit landuse map based on satellite imagery including location of specific sensitives such as national parks/wild life snactury, villages, industries etc.
14) PP to include details of the pollution control equipment/technologies and online monitoring equipments in the EIA report.
15) PP to ensure extensive training and awareness campaign of the workers on site and staff of the hospitals for segregation and collection of the BioMEdical Waste. PP to prepare specific program to monitor safety and health protection of the workers and inlcude it in the EIA report.
16) PP to inlcude EMP devised to mitigate the adverse impacts of the project along with item-wise cost of its implementation (capital and recurring costs).
17) PP to submit emergency preparedness plan.
18) 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.

FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.