148th Meeting of State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 148th **Meeting Date** February 28, 2018

Subject: Environment Clearance for Proposed establishment of manufacturing of synthetic organic chemicals at Plot No. D-1/1, MIDC, Lote Parshuram by Gharda Chemicals Limited (Unit No.5)

1.Name of Project	Proposed establishment of manufacturing of synthetic organic chemicals at Plot No. D-1/1, MIDC, Lote Parshuram by Gharda Chemicals Limited (Unit No.5)
2.Type of institution	Private
3.Name of Project Proponent	Gharda Chemicals Limited
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Industrial project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Unit No.5, Plot No. D-1/1, MIDC, Lote Parshuram.
9.Taluka	Khed
10.Village	Awashi
Correspondence Name:	Mr. Diwakar K. Shenoy (Director-Factory Operations)
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	--
City:	--
11.Area of the project	MIDC Lote Parshuram
12.IOD/IOA/Concession/Plan Approval Number	MIDC plot allotment
	IOD/IOA/Concession/Plan Approval Number: MIDC Plot transfer
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not applicable. Existing structures will be demolished for proposed project. Demolition clearance from MIDC authority is obtained.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC plot plan approal
15.Total Plot Area (sq. m.)	91,429 sq. m
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.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.): 43498
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	3139500000

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	Not applicable
29.Existing structure (s) if any	Not applicable. Existing structures will be demolished for proposed project. Demolition clearance from MIDC authority is obtained.
30.Details of the demolition with disposal (If applicable)	Existing structures will be demolished for proposed project. Demolition clearance from MIDC authority is obtained.

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	2,5-Dichloro Phenol	0	20000 TPA	20000 TPA
2	Mono Chloro Benzene	0	10000 TPA	10000 TPA
3	Para Dichloro Benzene	0	9640 TPA	9640 TPA
4	2,5-Dichloro Nitro Benzene	0	8400 TPA	8400 TPA
5	3,4-Dichloro Nitro Benzene	0	3100 TPA	3100 TPA
6	2,5-Dichloro Aniline	0	7000 TPA	7000 TPA
7	3,4-Dichloro Aniline	0	2640 TPA	2640 TPA
8	2,3-Dichloro Aniline	0	360 TPA	360 TPA
9	Potassium Hydroxide	0	16500 TPA	16500 TPA
10	Nitrosyl Sulphate	0	68500 TPA	68500 TPA
11	Hydrochloric Acid (By-product)	0	13300 TPA	13300 TPA
12	Sulphuric Acid (By-product)	0	27000 TPA	27000 TPA
13	Calcium Sulphate (By-product)	0	37400 TPA	37400 TPA
14	Ortho Dichloro Benzene (By- product)	0	3180 TPA	3180 TPA
15	Meta Dichloro Benzene (By- product)	0	500 TPA	500 TPA
16	1,2,4-Tri Chloro Benzene (By- product)	0	200 TPA	200 TPA

17	1,2,3-Tri Chloro Benzene (By- product)	0	200 TPA	200 TPA
18	1,3,5-Tri Chloro Benzene (By- product)	0	200 TPA	200 TPA
19	2,3-Dichloro Nitro Benzene (By- product)	0	430 TPA	430 TPA
20	Methyl Chloride (By-product)	0	9060 TPA	9060 TPA
21	Calcium Chloride (By-product)	0	9970 TPA	9970 TPA
22	Sodium Hypochlorite (By- product)	0	3000 TPA	3000 TPA

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	1325 cmd from MIDC
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	2279 cmd (From MIDC- 1325 CMD + Steam Condensate from Cogen- 707 CMD + Recycle- 247 CMD)
	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	45	45	0	10	10	0	35	35
Industrial Process	0	534	534	0	32	32	0	502	502
Cooling tower & thermopack	0	1630	1630	0	888	888	0	742	742
Gardening	0	70	70	0	70	70	0	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):	--
	Quantity of recharge pits:	--
	Size of recharge pits :	--
	Budgetary allocation (Capital cost) :	--
	Budgetary allocation (O & M cost) :	--
	Details of UGT tanks if any :	Not applicable

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

Sewage and Waste water	**Sewage generation in KLD:**	35 cmd
	STP technology:	Sewage will be sent to Aeration tank of Proposed 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:**	During construction phase, demolition of existing structures will generate solid wastes like civil debris, scrap materials, insulated material, scrap wooden material, paper, cardboards
	Disposal of the construction waste debris:	as per norms
Waste generation in the operation Phase:	**Dry waste:**	Non Hazardous waste like- Packing material- 35 TPA, Civil debris- 100 TPA, Insulation material- 165 TPA, Metallic scrap- 200 TPA, Rubber hand gloves- 35 TPA, Non- metallic scrap- 100 TPA
	Wet waste:	--
	Hazardous waste:	Used or spent oil, Wastes or residues containing oil, Residue or sludge containing phenol, Spent solvents, Distillation residues, Empty barrels/containers/ liners contaminated with hazardous chemicals /wastes, Contaminated cotton rags or other cleaning materials, Chemical sludge from waste water treatment, Concentration or evaporation residues
	Biomedical waste (If applicable):	Waste sharps- 20 kg/Month, Expired or Discarded Medicines- 10 kg/Month, Soiled Waste- 40 kg/Month
	STP Sludge (Dry sludge):	--
	Others if any:	--
Mode of Disposal of waste:	**Dry waste:**	Packing material- Incineration or sale to the party, Civil debris- Land levelling within plot, Insulation material, Metallic scrap, Rubber gloves, Non metallic scrap- Sale to the party
	Wet waste:	--
	Hazardous waste:	Hazardous waste will be disposed of as per Hazardous waste rule 2016.
	Biomedical waste (If applicable):	Biomedical waste will be disposed off to authorized Biomedical disposal facility.
	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	--	5.5 to 10.5	6.5 to 8.5	6.5 to 8.5
2	Oil & Grease	mg/lit	20 to 30	< 10	< 10
3	COD	mg/lit	1000 to 1500	< 250	< 250
4	TSS	mg/lit	800 to 1000	< 100	< 100
5	BOD	mg/lit	400 to 600	< 100	< 100
Amount of effluent generation (CMD):		1279 cmd			
Capacity of the ETP:		1600 cmd			

Amount of treated effluent recycled :	247 cmd
Amount of water send to the CETP:	1032 cmd
Membership of CETP (if require):	yes
Note on ETP technology to be used	Effluent treatment plant (ETP) shall be comprising of Primary, Secondary and Tertiary treatment systems. In addition, Multiple Effect Evaporator (MEE) and Reverse Osmosis Unit shall also be provided for High TDS effluent.
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	Used or spent oil	5.1	TPA	0	12	12	Sale to authorized recycler or re-processor /Incineration
2	Wastes or residues containing oil	5.2	TPA	0	4.5	4.5	Incineration
3	Residue or sludge containing phenol	19.1	TPA	0	1835	1835	Disposed to CHWTSDF
4	Spent solvents	20.2	TPA	0	275	275	Sale to authorized recycler or re-processor / Incineration.
5	Distillation residues	20.3	TPA	0	2550	2550	Incineration
6	Empty barrels/containers/ liners contaminated with hazardous chemicals /wastes	33.1	Nos./A	0	3000	3000	Sale to authorized recycler or re-processor.
7	Contaminated cotton rags or other cleaning materials	33.2	TPA	0	4.5	4.5	Incineration
8	Chemical sludge from waste water treatment	35.3	TPA	0	2920	2920	Landfill to CHWTSDF
9	Concentration or evaporation residue	37.3	TPA	0	2190	2190	Landfill 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	1510 KVA DG set	HSD- 290 Lit/Hr	S1	14	400 mm	380
2	1510 KVA DG set	HSD- 290 Lit/Hr	S2	14	400 mm	380
3	1510 KVA DG set	HSD- 290 Lit/Hr	S3	14	400 mm	380

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	0	870 Lit/Hr	870 Lit/Hr
41.Source of Fuel		From nearby source		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	Green belt- 15,528 sq.m.
	No of trees to be cut :	--
	Number of trees to be planted :	--
	List of proposed native trees :	--
	Timeline for completion of plantation :	As per project development phase

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	--	--	--

47.Energy

Power requirement:	**Source of power supply :**	From MSEDCL
	During Construction Phase: (Demand Load)	1 MVA
	DG set as Power back-up during construction phase	500 KVA
	During Operation phase (Connected load):	10 MVA
	During Operation phase (Demand load):	10 MVA
	Transformer:	5 nos. of 2 MVA each
	DG set as Power back-up during operation phase:	3 nos. of 1510 KVA DG set each
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

Solar lights

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- DG set, Process emission	--	Stack height, Scrubber for Process emission
Water pollution fom Domestic, Washing, Process, Utilities	--	ETP, RO, MEE
Hazardous waste generation	--	To CHWTSDF, Sale to authorized recycler/ reprocessor

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 management	Scrubbers	120	40
2	Effluent Management	ETP, MEE, RO	2200	913
3	Hazardous waste management	Hazardous waste management	30	622
4	Environmental Monitoring	Environmental Monitoring	40	1
5	Green Belt Development	Green Belt Development	10	6
6	Green Initiatives	Solar street light & solar panels	5	0
7	Occupational Health & Safety	PPE, Safety Training, Fire hydrant, Smokers, Detectors	25	25
8	Energy conservation measures	BEE Star rated equipment's	25	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
Benzene	Proposed	within plot	2 nos/ of 100 Ton	140	1419	From nearby source	By road
Dichloro Aniline	Proposed	within plot	3 nos. of 50 Ton	160	1747	From nearby source	By road
Dichloro Phenol	Proposed	within plot	3 nos. of 50 Ton	163	--	From nearby source	By road
Para Dicholro Benzene	Proposed	within plot	4 nos. of 50 Ton	208	1123	From nearby source	By road
Ortho Dichloro Benzene	Proposed	within plot	4 nos. of 50 Ton	208	225	From nearby source	By road
Meta Dichloro Benzene	Proposed	within plot	4 nos. of 50 Ton	208	--	From nearby source	By road
Mono Chloro Benzene	Proposed	within plot	1 no. of 50 Ton	44	--	From nearby source	By road
Hydrochloric Acid	Proposed	within plot	4 nos. of 75 Ton	274	7	From nearby source	By road
Sulfuric Acid	Proposed	within plot	2 nos. of 100 Ton	294	3743	From nearby source	By road
Potassium Hydroxide	Proposed	within plot	2 nos. of 100 Ton	200	--	From nearby source	By road
Nitrosyl Sulphate	Proposed	within plot	1 no. of 20 Ton	27.5	5709	From nearby source	By road
Spent Sulfuric Acid	Proposed	within plot	6 nos. of 25 Ton	192	--	From nearby source	By road
Sodium Hydroxide	Proposed	within plot	2 nos. of 50 ton	120	27	From nearby source	By road
Methanol	Proposed	within plot	3 nos. of 100 Ton	190	478	From nearby source	By road
Methyl Chloride	Proposed	within plot	250 nos. tonners	207	--	From nearby source	By road
Sulfur Dioxide	Proposed	within plot	175 nos. tonners	142	764	From nearby source	By road
Chlorine	Proposed	within plot	200 nos. tonners	207	1292	From nearby source	By 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:	11,463 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):	Min. 6 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	5 (f)- B
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	12-12-2017

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.

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

DECISION OF SEAC

Based on the presentation made by PP; committee decided to approve the TOR for the preparation of EIA/EMP report as per standard TOR and additional TOR points mentioned below.

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

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 entry/exit gates, internal road width of six meters, turning radius of nine meters, location of pollution control equipment, parking areas, waste storage areas,33% green belt, rain water harvesting etc.
3) PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
4) PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc
5) PP to submit CSR plan in consultation with the District Authorities along with timelines for its implementation. PP to provide 2.5 % CSR and maintain separate account.
6) PP to submit an undertaking for not manufacturing any insecticide, pesticide products in the proposed expansion.
7) PP to submit detailed water budget calculation showing water input for each product, effluent generation per kg of product its characteristics and mitigation measure proposed for effluent Treatment.
8) PP to provide Zero Liquid Discharge for effluent treatment as the CETP at Lote Parshuram is not performing as per stipulated standards by MPCB.
9) PP to submit structural stability certificate of existing buildings.
10) PP to carry out HAZOP and QRA and submit Disaster Management Plan.
11) PP to submit hazardous chemical handling protocol
12) 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.

148th Meeting of State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 148th **Meeting Date** February 28, 2018

Subject: Environment Clearance for Environment Clearance for proposed expansion infrastructure facilities by providing additional jetties / berths along with additional approaches at Mankhurd, Mumbai

1.Name of Project	Environment Clearance for proposed expansion infrastructure facilities by providing additional jetties / berths along with additional approaches at Mankhurd, Mumbai
2.Type of institution	Private
3.Name of Project Proponent	M/s. Yogayatan Ports Pvt. Ltd.
4.Name of Consultant	M/s. EcoFootForward Environment Consultancy & Engineers Pvt. Ltd.
5.Type of project	Others "Port Terminals"
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes
8.Location of the project	Mankhurd
9.Taluka	Mumbai suburbs
10.Village	Mankhurd
Correspondence Name:	Mr. Manoj Uapadhayay
Room Number:	NA
Floor:	4
Building Name:	Vaswani Mansions
Road/Street Name:	120
Locality:	Churchgate
City:	Mumbai
11.Area of the project	Land allotted by Maharashtra Maritime Board (MMB)
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.)	80,648 sq. m.
16.Deductions	NA
17.Net Plot area	80,648 sq. m.
18.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.):
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	400000000

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)	12 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6.5 m
29.Existing structure (s) if any	Jetty
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 A	NA	NA	NA

32.Total Water Requirement

Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	5.5
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	4.0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	192
	Fire fighting - Underground water tank(CMD):	50
	Fire fighting - Overhead water tank(CMD):	15
	Excess treated water	Not applicable

Wet season:	**Source of water**	MCGM
	Fresh water (CMD):	5.5
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	192
	Fire fighting - Underground water tank(CMD):	50
	Fire fighting - Overhead water tank(CMD):	15
	Excess treated water	4.0
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	NA	5.5	5.5	NA	0.9	0.9	NA	4.6	4.6

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3 m below ground level
	Size and no of RWH tank(s) and Quantity:	water bodies to be developed as per design
	Location of the RWH tank(s):	on periphery of plot
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	30 lakhs
	Budgetary allocation (O & M cost) :	1.52 lakhs
	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:**	4.6
	STP technology:	Constructed Wetland Technology
	Capacity of STP (CMD):	5.5 KLD
	Location & area of the STP:	near labour colony direction south west
	Budgetary allocation (Capital cost):	5 lakhs
	Budgetary allocation (O & M cost):	0.5 lakhs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	From Construction Activities
	Disposal of the construction waste debris:	Will be Handed Over to MPCB Authorized Collection Agencies
Waste generation in the operation Phase:	**Dry waste:**	15 kg/day
	Wet waste:	35 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Segregation & sale recyclables, inert send to approved landfill
	Wet waste:	Biodegradable waste will be treated in OWC.
	Hazardous waste:	Will be send to MPCB authorized Collection agency
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	Near labour colony
	Area for the storage of waste & other material:	10 sq. m. (for OWC unit & curing system)
	Area for machinery:	1.6 m x 1.06m x 1.0 m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	6.5 lakhs
	O & M cost:	1.6 lakhs/ year

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	DG set	HSD	1	5	0.1	450

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	150 liters	150 liters
41.Source of Fuel		local Market		
42.Mode of Transportation of fuel to site		Transportation through HDPE Containers		

43.Green Belt Development	**Total RG area :**	829 sq. m.
	No of trees to be cut :	NA
	Number of trees to be planted :	50
	List of proposed native trees :	As per given below
	Timeline for completion of plantation :	60 days

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	Mangifera indica	Amba	7	Fruit bearing tree
2	Emblica officinalis	Awla	7	plant with good regenerative capacity
3	Pongamia pinnata	Karanj	7	Fast growing, sturdy, nitrogen fixing plant
4	Bombax ceiba	Kate sawar	7	fast growing plant
5	Holarrhena pubescens	Kuda	8	Good for afforestation in poor soils
6	Calophyllum inophyllum	Undi	7	acts as shore protector flowers attracts honey bees
7	Ficus benghalensis	Vad	7	fruiting tree attracts many birds
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 :**	Tata Power
	During Construction Phase: (Demand Load)	185 KVA (available)
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	500 KVA
	During Operation phase (Demand load):	185 KVA
	Transformer:	500 KVA
	DG set as Power back-up during operation phase:	2 x 75 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Generated sewage	NA	STP of 5.5 CMD Capacity
Biodegradable waste	NA	OWC of 25 kg capacity

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	Sanitary Facility for Labour camp	Drinking water, Toilets	10

2	Green belt Development	Native tree plantation	10
3	Noise Barrier, Dust Suppression curtains & water Sprinkling system	Noise Barrier, Dust Suppression curtains & water Sprinkling system	10
4	Sewage Treatment Plant	Construction Wetland Technology	5
5	Solid waste Management	OWC Installation	6.55
6	Implementation of Environment Monitoring Program	Preparation of Environmental Compliance reports	17.8
7	Contingency & others	-	25

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	-	5	1.6
2	Solid waste Management	OWC, Manpower, coloured dustbins.	6.55	1.6
3	Implementation of Environment Monitoring Program	Preparation of Environmental Compliance reports	-	13.12
4	Greenbelt Development	Native tree plantation	-	0.28
5	Contingency & others	-	25	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:	1

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	8135 sq. m.
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	10
	Number of 4-Wheelers as approved by competent authority:	6 cars
	Public Transport:	50 trucks
	Width of all Internal roads (m):	6 meters
	CRZ/ RRZ clearance obtain, if any:	YES
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	7 (e) B
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	03-02-2016

Brief information of the project by SEAC

PP obtained ToR in 123rd meeting of SEAC-1 held on 11-12 March,2016. SEAC-1 visited the site on 17.03.2016 and forwarded their obsrvations to the PP for compliance.

Now PP submitted EIA report for appraisal.

PP informed that following activities will be carried out on site,

1. Extension of existing Jetty.

2.Silos Construction.

3. Development of Parking areas for vehicles.

4. Internal and approach road construction.

5. Andiministrative offices, Rest House and toilet blocks.

PP informed that they have obtianed MCZMA approval.

DECISION OF SEAC

Based on information given by the PP, this application for prior Environment Clearance is applicable only to those activities which are approved/recommended by MCZMA.

SEAC observed that PP has not conducted Public Hearing as requried under EIA Notification,2006 amended time to time.

In view of above SEAC decided to defer the proposal till PP submits Public Hearing Report ,final EIA report and compliance of following points to the SEAC for appraisal as requreid under EIA Notification, 2006 amended time to time.

Specific Conditions by SEAC:

1) PP to include details of activities to be covered under this application for prior Environmental Clearance.
2) PP to submit point wise compliance of additional ToR approved in the 123rd meeting of SEAC-I, points raised during the site visit by SEAC-1 site visit.
3) PP to submit copies of plans approved by the Competent Authority in respect of proposed development. .
4) PP to superimpose the proposed development plan on CZMP map to identify the area under CRZ, mangroves cover etc. PP to submit detailed chapter on the same in the EIA report.
5) PP to submit undertaking for not disturbing any existing mangrove and buffer zone during proposed development.
6) PP to ensure that no reclamation shall be done without obtaining permission from Competent Authority.
7) PP to submit structural stability certificate of existing buildings/structures on site; PP to include demolition plan in the EIA report along with its impact and mitigation measures.
8) PP to carry out traffic study to identify the impact of proposed traffic on existing roads and include in the EIA report.

FINAL RECOMMENDATION

SEAC-I decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

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

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: 224859
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.)	385,584 sq m
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.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.): 9810
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	4950000000

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	11,25,000 MT/A	0 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	100000 MT/A	170200 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):	19866 CMD
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	22268 CMD (19866 CMD from MIDC and 2402 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	2928	630	3558	1717	294	2011	1211	336	1547
Cooling tower & thermopack	15051	3487	18538	13539	2797	16336	1512	690	2202

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:	--
Sewage and Waste water	**Sewage generation in KLD:**	153.5 cmd
	STP technology:	Sewage water is treated at combined 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:**	During construction phase, generate solid wastes like civil soil and boulders / debris, scrap materials, insulated material, scrap wooden material, paper, cardboards etc
	Disposal of the construction waste debris:	Construction waste debris will be disposed off as per norms.
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):	3903 CMD
Capacity of the ETP:	4800 CMD
Amount of treated effluent recycled :	2402 CMD
Amount of water send to the CETP:	1500 CMD
Membership of CETP (if require):	Yes. Unit is already member of CETP.
Note on ETP technology to be used	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 or MEE > Permeate recycle
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	149.66	198	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

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 – 200 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 :**	Green belt area on plot & boundary: 92,678 sq. m, Green belt outside plot: 66,665 sq. m.
	No of trees to be cut :	--
	Number of trees to be planted :	--
	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	--	--	--

47.Energy

Power requirement:	**Source of power supply :**	Inhouse Captive power plant & MSEDCL
	During Construction Phase: (Demand Load)	From existing power requirement
	DG set as Power back-up during construction phase	Existing DG set
	During Operation phase (Connected load):	4 MW
	During Operation phase (Demand load):	4 MW
	Transformer:	2 Nos. of 5 MW
	DG set as Power back-up during operation phase:	Existing DG set & Proposed additional 200 KVA DG set
	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	Cyclone Separators, Scrubbers and Stack of adequate height, Online sensors
Water pollution sources	ETP, RO	--
Hazardous waste generation	Disposal to CHWTSDF/ Authorize 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	--	--	--

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	Air Pollution Control & Monitoring	88.5	8.5
2	Noise Pollution Control	Noise Pollution Control	7	2
3	Water Pollution Control & monitoring	Water Pollution Control & monitoring	1700	18
4	Solid and Hazardous Waste management	Solid and Hazardous Waste management	1.5	1
5	Green belt development	Green belt development	4.5	25
6	Occupational Health & Safety	Occupational Health & Safety	1	5
7	Other Green Initiatives	Rain Water Harvesting	10	0.5
8	Other Green Initiatives	Solar Power	100	1
9	Other Green Initiatives	Energy Conservation (LED)	25	1
10	Other Green Initiatives	Wind energy	2000	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
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	--	BPCL	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	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	600	Self production	Tanker
Heavy & light weight storage tanks (2 Nos)	Proposed	Within plot	2 x 60	2 x 48	215	Self production	Tanker
IPA offspec storage tank (One No)	Proposed	Within plot	190	150	--	Self production	--
IPA storage tanks (Pharma or specialty grade) (2Nos)	Proposed	Within plot	2 x 250	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 IPA (2 Nos)	Proposed	Within plot	2 x 150	2 x 120	--	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:	36048.97
	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

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.

DECISION OF SEAC

After delibearations with the PP SEAC decided to defer the proposal till PP submits compliance of following points.

Specific Conditions by SEAC:

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.

FINAL RECOMMENDATION

SEAC-I decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

Subject: Environment Clearance for Proposed 90.0 TPM Pigments & Dye Intermediates Production Plant at Plot No.: F – 19, MIDC Badlapur, Tehsil: Badlapur, District: Thane, Maharashtra by Thakkar Organics Pvt. Ltd.

1.Name of Project	Proposed 90.0 TPM Pigments & Dye Intermediates Production Plant at Plot No.: F – 19, MIDC Badlapur, Tehsil: Badlapur, District: Thane, Maharashtra by Thakkar Organics Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Amit J. Thakkar /Thakkar Organics Pvt. Ltd.
4.Name of Consultant	Mr. H.K. Desai / Enviro Analysts and Engineers Private Limited.
5.Type of project	Not applicable
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	Not Applicable
8.Location of the project	Plot No.: F – 19, MIDC Badlapur
9.Taluka	Badlapur, Thane
10.Village	Badlapur
Correspondence Name:	Mr. Amit J Thakkar
Room Number:	Plot No.: F – 19, MIDC Badlapur, Tehsil: Badlapur, District: Thane, Maharashtra
Floor:	NA
Building Name:	NA
Road/Street Name:	NA
Locality:	NA
City:	Thane
11.Area of the project	MIDC Badlapur
12.IOD/IOA/Concession/Plan Approval Number	MIDC Badlapur Approval
	IOD/IOA/Concession/Plan Approval Number: EE/AMB/D-32877/of 2015
	Approved Built-up Area: 1408.38
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	1449.0 sq.m
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.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.): 1408.38
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	40308000

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)	8 m wide MIDC road
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	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	Fast Red GL Base (Meta Nitro Para Toluidine)	0	10	10
2	Fast Boredeaux GP Base (Meta Nitro Para Anisidine)	0	10	10
3	3,4 Diamino Toluene/122	0	3	3
4	5 Amino 6 Methyl Benzimidazolone	0	5	5
5	2-Amino-N-cyclohexyl-N-methylbenzenesulfonamide	0	5	5
6	4 Amino-N-methylphthalimide	0	5	5
7	2,5-Dichloro Para Phenylene Diamine	0	5	5
8	2,5-Dimethyl Para Phenelyene Diamine	0	5	5
9	3,4 Diamino Anisole	0	2	2
10	2-Heptanol	0	15	15
11	Meta Phenoxy Benzyl Alcohol	0	10	10
12	Dilute Acetic Acid (approx. 15% by Product)	0	3	3
13	Sodium Acetate	0	10	10
14	Sodium Nitrate	0	2	2

32.Total Water Requirement

Dry season:	**Source of water**	MIDC Badlapur
	Fresh water (CMD):	30.9
	Recycled water - Flushing (CMD):	1.1
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	61.0
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	00
Wet season:	**Source of water**	MIDC Badlapur
	Fresh water (CMD):	16.4
	Recycled water - Flushing (CMD):	1.1
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	58.5
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	00
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	1.5	1.5	0	0.3	0.3	0	1.2	1.2
Industrial Process	0	28.0	28.0	0	4.5	4.5	0	23.5	23.5
Cooling tower & thermopack	0	15.0	15.0	0	13.5	13.5	0	1.5	1.5

Cooling tower & thermopack	0	12.0	12.0	0	11.5	11.5	0	0.5	0.5
Industrial Process	0	0.6	0.6	0	0.1	0.1	0	0.5	0.5
Industrial Process	0	1.4	1.4	0	0.4	0.4	0	1.0	1.0
Gardening	0	2.5	2.5	0	2.5	2.5	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2.3 m
	Size and no of RWH tank(s) and Quantity:	1 nos. of 12 KL
	Location of the RWH tank(s):	underground
	Quantity of recharge pits:	Not proposed
	Size of recharge pits :	Not proposed
	Budgetary allocation (Capital cost) :	1,50,000
	Budgetary allocation (O & M cost) :	20,000 /Annum
	Details of UGT tanks if any :	1. One Number of UGT for RWH. Capacity of the Tank would be 12 KL. 2. One Number of UGT for Fire Water Storage. Capacity of the Tank will be 100 KL.
35.Storm water drainage	**Natural water drainage pattern:**	East from the project site
	Quantity of storm water:	14m3/d
	Size of SWD:	0.5 m x 0.3 m
Sewage and Waste water	**Sewage generation in KLD:**	1.2
	STP technology:	Sewage Generated will be collected in septic tank first and then the overflow of the septic tank will be fed to the aeration tank of the effluent treatment plant of 35 KLD.
	Capacity of STP (CMD):	Not proposed
	Location & area of the STP:	Not proposed
	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:**	Approx. 452 nos. of empty cement bags, 0.1508 MT of steel scrap, 0.3016 MT of aggregate waste, 38 sq.m of broken tiles and 22 nos of Empty paint cans will be generated
	Disposal of the construction waste debris:	Cement bags, steel scrap and paint cans will be sold to recycler whereas aggregates and broken tiles will be reused within site for internal road levelling and terrace china mosaic.
Waste generation in the operation Phase:	**Dry waste:**	Non Hazardous Solid Wastes from this factory will be from office and plant like waste paper, corrugated box, broken glass / plastic noncontaminated.
	Wet waste:	Domestic waste & garden leaves
	Hazardous waste:	2.94 MT/month of process residues and wastes , 3 kg/month of spent catalyst, 45 nos./month of discarded containers, 1000 kg/month of ETP sludge will be generated
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Fly ash 300 kg/d
Mode of Disposal of waste:	**Dry waste:**	Sweepers / workers will collect such wastes separately (Biodegradable and Non biodegradable) from the source and would store in solid waste collection enclosure (to be located suitably within the project site). These Recyclable Non-biodegradable solid wastes will be sold to prospective buyers.
	Wet waste:	Biodegradable solid waste will be used for composting within the plant premises.
	Hazardous waste:	Process residues & wastes, Spent catalyst and ETP sludge will be disposed to CHWTDF Taloja and Discarded containers will be sold to authorised recyclers after proper decontamination.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	Fly Ash Will be given to Brick Manufacturers.
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	Chemical Oxygen demand	ppm	5500-6000	200-150	less than 250
2	Biochemical Oxygen Demand	ppm	600-750	Less then 30	less than 30
3	Total Dissolved Solids	ppm	1800-2000	less than 500	less than 2100
4	Total Suspended Solids	ppm	200-300	Nil	less than 100
5	pH	-	5.5-8	6.5-7	5.5-9

6	Oil and Grease	ppm	50-60	less than 10	less than 10
Amount of effluent generation (CMD):		28.2			
Capacity of the ETP:		35			
Amount of treated effluent recycled :		24.1			
Amount of water send to the CETP:		NIL			
Membership of CETP (if require):		CETP BADLAPUR FOR 24 KLD			
Note on ETP technology to be used		The process & scrubber influent after pre-treatment will be fed to equalization cum pH Adjustment tank. After adjusting the pH, influent will be fed through the Filter to Advance oxidation treatment system. The Advance oxidation process comprises of Ozonation followed by Ultra violet in a plug flow reactor. Most of the organic compounds will be degraded and converted to simpler form in the reactor. The effluent will be collected in pH Neutralizer to attend neutral pH.The advance oxidation treate			
Disposal of the ETP sludge		CHWTSDF, Taloja.			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Process Residues & wastes	28.1	Mt / Month	0	2.94	2.94	Will be disposed to CHWTSDF, Taloja.
2	Spent Catalyst	28.2	kg / Month	0	3	3	Will be disposed to CHWTSDF, Taloja.
3	Discarded Containers	33.3	Nos. / Month	0	45	45	Will be sold to authorized recycler after proper decontamination.
4	ETP Sludge	34.3	kg / Month	0	1000	1000	Will be disposed to CHWTSDF, Taloja.

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler	Coal 156.25 kg/hr	1	30	0.55	90
2	DG set	HSD 12 Kg/hr	1	11	0.2	40

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	0	2.5 TPD	2.5TPD
2	HSD	0	750 l/month	750 l/month
41.Source of Fuel		Local		
42.Mode of Transportation of fuel to site		Road transport		

43.Green Belt Development	**Total RG area :**	476.45 m2
	No of trees to be cut :	0
	Number of trees to be planted :	50
	List of proposed native trees :	Azadirachta indica, Cassia fistula,Ficus benghalensis,Saraca asoka
	Timeline for completion of plantation :	Before operation of plant

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	20	Medicinal
2	Cassia fistula	Golden shower	10	pollution tollerant
3	Ficus benghalensis	Bargad	5	Evergreen
4	Saraca asoka	Ashoka	15	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
	During Construction Phase: (Demand Load)	100 kVA
	DG set as Power back-up during construction phase	125 kVA
	During Operation phase (Connected load):	NA
	During Operation phase (Demand load):	200 kVA
	Transformer:	NA
	DG set as Power back-up during operation phase:	125 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

? Energy efficient LED will be used which have higher output. 100%ofexternal landscaped street lights will be LED only.
? Power factor will be maintained ~0.99 with the capacitor banks. All capacitors will beprovided with Harmonic Filters to avoid distortion in Voltage i.e. Clean Power will beavailable.
? External lighting will be automatically controlled using timer contactor at external lighting panel.

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
Boiler emission	NA	Double Cyclone Separator and Bag Filter
Process emission	NA	Srubber
Domestic and industrial waste Water	NA	ETP with tertiary treatment

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 Monitoring	PM, SO2, NOx, CO	1.25
2	Noise Monitoring	Daytime and Nightime dB(A)	0.5
3	EHS	Worker Health checkup	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 Pollution Control	Bag filter and dual cyclone seperator	14	2.1
2	Water Pollution Control	ETP	95.75	19.15
3	Environment Monitoring and Management	Ambient monitoring	10	1
4	Occupational Health	Worker Health checkup	2.0	0.5
5	Green Belt	Tree plantation	2.0	0.6
6	Solid Waste Management	Hazardous waste management and disposal	10.0	2

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
Acetic Acid	liquid	Hazardous storage area	16	16	16	Local	road transport
Acetic Anhydride	liquid	Hazardous storage area	5	5	5	Local	road transport
Caustic soda	liquid	Hazardous storage area	10	10	10	Local	road transport
Ethyl Acetate	liquid	Hazardous storage area	10	10	10	Local	road transport
Toulene	liquid	Hazardous storage area	5	5	5	Local	road transport
hydrogen gas	gas	Hazardous storage area	1060 m3	1060 m3	1060 m3	Local	road transport
Nitric Acid	liquid	Hazardous storage area	10	10	10	Local	road transport

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	173.9 m2
	Area per car:	28
	Area per car:	28
	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):	Min 6 m
	CRZ/ RRZ clearance obtain, if any:	NA

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	30 km
	Category as per schedule of EIA Notification sheet	5f
	Court cases pending if any	No
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

Brief information of the project by SEAC

DECISION OF SEAC

PP remained absent.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

SEAC-I decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

Subject: Environment Clearance for Proposed Change in Product mix of Synthetic Organic Chemicals Manufacturing Facility By Anek Prayog Pvt. Ltd. At Plot No. 57/2, MIDC Dhatav, Roha, Dist. Raigad

1.Name of Project	Proposed Change in Product mix of Synthetic Organic Chemicals Manufacturing Facility By Anek Prayog Pvt. Ltd. At Plot No. 57/2, MIDC Dhatav, Roha, Dist. Raigad
2.Type of institution	Private
3.Name of Project Proponent	Anek Prayog Pvt. Ltd.
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Industrial
6.New project/expansion in existing project/modernization/diversification in existing project	Modernization. Change in product mix
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot No. 57/2, MIDC Dhatav, Roha, Dist. Raigad
9.Taluka	Roha
10.Village	Dhatav
Correspondence Name:	Prasad Deshmukh
Room Number:	Plot No. 57/2
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	--
City:	--
11.Area of the project	Within MIDC
12.IOD/IOA/Concession/Plan Approval Number	MIDC approved plan
	IOD/IOA/Concession/Plan Approval Number: MIDC Approved plan
	Approved Built-up Area: 1962.10
13.Note on the initiated work (If applicable)	Not applicable. Proposed project is for change in product mix within consented capacity.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC plot plan approval
15.Total Plot Area (sq. m.)	4085
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.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.): 1962.10
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	0

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 API & its intermediates
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	Trimetazidine Dihydrochloride	1	0.2	1.2
2	Amlodipine Besilate	0.25	- 0.05	0.20
3	Alendronate Sodium Trihydrate	0.25	- 0.12	0.13
4	Doxazosin Mesilate	0.25	- 0.19	0.06
5	Felodipine	0.25	0.0	0.25
6	Nicorandil	0.25	- 0.05	0.2
7	Sodium Stearyl Fumarate	0.25	- 0.05	0.20
8	Dexchlorpheniramine Maleate	0.25	- 0.05	0.20
9	Bisoprolol Hemifumarate	0.0	0.05	0.05
10	Prazosin Hydrochloride	0.0	0.12	0.12
11	Risedronate Sodium Hemipentahydrate	0.0	0.05	0.05
12	Ebastine	0.0	0.05	0.05
13	Dopamine Hydrochloride	0.0	0.03	0.03
14	Rupatadine Hydrochloride	0.0	0.01	0.01

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	22 cmd
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	22 cmd
	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	9.6	0	9.6	0.4	0	0.4
Industrial Process	6	0	6	2	0	2	4	0	4
Cooling tower & thermopack	6	0	6	6	0	6	0	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):	--
	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:	--
Sewage and Waste water	**Sewage generation in KLD:**	0.4 cmd
	STP technology:	Treated in septic tank
	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, Spent catalyst/ Spent carbon, Empty barrels/ containers/ liners contaminated with hazardous chemicals/ wastes, Chemical sludge from waste water treatment, Filters & filter material which have organic liquid
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--

Mode of Disposal of waste:	**Dry waste:**	--
	Wet waste:	--
	Hazardous waste:	Sale to authorized Re-processor/ CHWTSDF
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--
Area requirement:	**Location(s):**	Within existing premises
	Area for the storage of waste & other material:	96 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	--	7.3	5.5 to 9	5.5 to 9
2	Oil and grease	mg/lit	ND	< 10	< 10
3	BOD	mg/lit	1000	< 100	< 100
4	TSS	mg/lit	70	< 100	< 100
5	COD	mg/lit	3000	< 250	< 250
6	Chlorides (As Cl)	mg/lit	300	< 600	< 600
7	Sulphates (as SO4)	mg/lit	500	< 1000	< 1000
8	TDS	mg/lit	2500	< 2100	< 2100

Amount of effluent generation (CMD):	4 cmd
Capacity of the ETP:	10 cmd
Amount of treated effluent recycled :	Not applicable.
Amount of water send to the CETP:	4 cmd
Membership of CETP (if require):	Yes
Note on ETP technology to be used	Collection tank > Stripping > pH correction > Flash mixing > Pri. Settling > Aeration > Sec. settler > Dual media filter
Disposal of the ETP sludge	Sent to CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent solvent	28.6	Mt/A	0.9	0	0.9	Sale to authorized Re processor/ CHWTSDF
2	Spent catalyst/ Spent carbon	28.2	Mt/A	0.4	0	0.4	CHWTSDF
3	Empty barrels/ containers/ liners contaminated with hazardous chemicals/ wastes	33.1	Nos/A	180	0	180	Sale to authorized Re-processor/ CHWTSDF

4	Chemical sludge from waste water treatment	35.3	Mt/A	3.3	0	3.3	CHWTSDF
5	Filters & filter material which have organic liquid	36.2	Mt/A	0.4	0	0.4	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	Baby Boiler (600 TPH capacity)	LDO: 100 Lit/Day	1	16	0.25	45
2	DG set (200 KVA)	HSD: 25 kg/hr	2	3.5	0.15	45

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	LDO	100 Lit/Day	0	100 Lit/Day
2	HSD	25 kg/hr	0	25 kg/hr
41.Source of Fuel		From authorized distributor		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	Green belt- 200 sq.m
	No of trees to be cut :	--
	Number of trees to be planted :	--
	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	--	--	--

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):	270 KW
	During Operation phase (Demand load):	180 KVA
	Transformer:	500 KVA
	DG set as Power back-up during operation phase:	Existing DG set of 200 KVA
	Fuel used:	HSD: 25 kg/Hr
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

--

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 source	Stack	--
Effluent from process utilities	ETP	--
Hazardous waste	To Authorized recycler, CHWTSDF	--
Noise pollution	Acoustic enclosure, Vibration dampening	--

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	--	--	--	--

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
Methanol	liquid	Solvent storage yard	5	2	3	RCF	By road transport
Acetone	liquid	Solvent storage yard	5	2	3	M/s Prasol	By road transport
Toluene	liquid	Solvent storage yard	2	1	1	M/s Bunisha	By road transport
Di Isopropyl ether	liquid	Solvent storage yard	2	1	1	M/s Pidilite	By road transport

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:	--
	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):	Min 6 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	--
	Category as per schedule of EIA Notification sheet	5 (f)- B
	Court cases pending if any	--
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	05-01-2018

Brief information of the project by SEAC

DECISION OF SEAC

During deliberation SEAC noticed that Ministry of Environment and Forest, New Delhi has issued Directions under Section 5 of the Environment (Protection) Act, 1986 dated 13.11.2013 and Office Memorandum dated 20.12.2013 regarding prohibition of activities in the area identified as Ecologically Sensitive Area (ESA) under the High Level Working Group formulated for Western Ghat.

The directions include following

"*The following category of new and/or expansion projects/activities shall be prohibited in the Ecologically Sensitive Area (ESA) from date of issue of these directions (that is from 13.11.2013) except those cases which have been received by EAC/MoEF or SEAC/SEIAA before the date of putting HLWG report on the web site of the Ministry that is 14.04.2013 and which are pending with EAC/MoEF or SEAC/SEIAA. Such projects will be dealt under the guidelines and rules applicable at the time of application before the respective EAC/MoEF, SEAC/SEIAA. Apart from such cases, no pending case or any fresh case shall be considered by the EAC/MoEF or SEAC/SEIAA as from the date of issue of these directions.*"

1. Mining, quarrying and sand mining.

2. Thermal Power Plants.

3. Building and Construction projects of 20000 Sq.m. area and above.

4. Township and area development projects with an area of 50 ha and above and/or with built up area of 150000 Sq.m and above.

5. Red Category of Industries

The proposal under reference fall at Sr. No. 5 above. In view of the directions isused by MoEF and as the location of plant is situated in the Eco Sensitive Area as per Notification issued by MoEF&CC., SEAC decided to reject the proposal.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

SEAC-I have decided to recommend the proposal for rejection subject to above reasons.