



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date: May 7, 2019

To,
Deepak Fertilizers and Petrochemicals Corporation Limited
at Plot No K1-K8, MIDC Talaja, Panvel

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 Talaja, Panvel by Deepak Fertilizers and Petrochemicals Corporation Limited

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 159th (A) - Day-2th meeting and recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 165th meetings.

2. It is noted that the proposal is considered by SEAC-I under screening category 5 (e)- B as per EIA Notification 2006.

Brief Information of the project submitted by you is as below :-

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 Talaja, 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 Talaja, Panvel
9.Taluka	Panvel
10.Village	Talaja
Correspondence Name:	Mr. Deepak Pande
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	--
City:	--
11.Whether in Corporation / Municipal / other area	MIDC Talaja

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)	FSI area (sq. m.): Not applicable
	Non FSI area (sq. m.): Not applicable
	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

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22. 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

23. 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	

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24.Details of Total water consumed									
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	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
25.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 :		--						
26.Storm water drainage	Natural water drainage pattern:		--						
	Quantity of storm water:		--						
	Size of SWD:		Detailed drawing is attached as Annexure 6						
27.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):		--						

28.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 CHWTSD/ 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:	--

29.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.			

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30.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

31.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	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

32.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

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

35.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:	--

Energy saving by non-conventional method:

It is proposed to install 200 KW solar energy panels.

36.Detail calculations & % of saving:

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

37.Details of pollution control Systems

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

38.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 sprinkling	--	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

39.Storage of chemicals (inflammable/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	--

40.Any Other Information

No Information Available

Government of
Maharashtra

	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

3. The proposal has been considered by SEIAA in its 165th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:

Specific Conditions:

I	PP to submit structural stability certificate of the existng buidlings on site.
II	PP to prepare and implment CER plan in consultation with the District Auhtority as per OM issued by MoEF&CC dated 01.05.2018.
III	PP to include water and carbon foot print in the monitoirng of EMP.
IV	PP to ensure completion of Zero Liquid Discharge ETP for proposed expansion before applying for the Consent to Operate.
V	PP to ensure to comply with the conditions stipulated in the Office Memorandum issued by MoEF&CC dated 9th August, 2018.
VI	PP to submit CER plan to District Collector and submit the acknowledgement to Member Secretary, SEIAA.

General Conditions:

I	(i)PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP.
II	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
III	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
IV	Proper Housekeeping programmers shall be implemented.
V	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.
VI	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
VII	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
VIII	Arrangement shall be made that effluent and storm water does not get mixed.
IX	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
X	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.

XI	The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
XII	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
XIII	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
XIV	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
XV	(The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
XVI	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
XVII	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
XVIII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
XIX	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department
XX	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in
XXI	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
XXII	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
XXIII	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
XXIV	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
XXV	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

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

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.

8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D- Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Shri. Anil Diggikar (Member Secretary SEIAA)

Copy to:

1. SECRETARY MOEF & CC
2. IA- DIVISION MOEF & CC
3. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
4. REGIONAL OFFICE MOEF & CC NAGPUR
5. REGIONAL OFFICE MPCB RAIGAD
6. REGIONAL OFFICE MIDC RAIGAD
7. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
8. COLLECTOR OFFICE RAIGAD

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Maharashtra