183rd Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 183rd - Day-1 **Meeting Date** May 11, 2020

The tenure of SEIAA/SEAC's in the State of Maharashtra ended on 16th March 2020. The MoEF&CC informed to the Maharashtra SEIAA by an e-mail stating that, the tenure of SEIAA, Maharashtra has been extended up to 16.06.2020

In view of above communication and present pandemic situation of COVID-19 , Maharashtra SEIAA directed SEAC-1 to appraise the proposals by using information technology facilities. Hence, SEAC-1 initiated to appraise the proposal received by the SEIAA through Videoconferencing technology on Cisco Webex platform from 11th to 14th May, 2020.

Following members of SEAC-1 were present for videoconference.

1. Shri. Umakant Dangat - Chairman
2. Shri. Arvind Dhole - Expert Member
3. Shri. K.M.Shah - Expert Member
4. Shri. P.P.Nandusekar - Expert Member
5. Shri. S.N.Patil - Expert Member
6. Shri. Abhay Thakur - Expert Member
7. Shri. Hemant Sahasrabuddhe - Expert Member
8. Shri. Abhay Pimparkar - Secretary

The minutes of the meeting are finalised during videoconference. Due to present pandemic situation minutes could not be physically signed.

183rd Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 183rd - Day-1 **Meeting Date** May 11, 2020

Subject: Environment Clearance for Proposed project for expansion in existing products & addition of new products for manufacturing of amines & specialty chemicals at existing unit of Alkyl Amines Chemicals Limited at Plot Nos.: D-6/1 & D-6/2, MIDC Kurkumbh, Taluka Daund, Dist. Pune, Maharashtra 413802.

Is a Violation Case: No

1.Name of Project	Proposed project for expansion in existing products & addition of new products for manufacturing of amines & specialty chemicals at existing unit of Alkyl Amines Chemicals Limited at Plot Nos.: D-6/1 & D-6/2, MIDC Kurkumbh, Taluka Daund, Dist. Pune, Maharashtra 413802.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Kirat Patel -Alkyl Amines Chemicals Limited
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Industrial- Manufacturing of Synthetic Organic Chemicals
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing products & addition of new products
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, EC letter- SEAC-2014/CR-387/TC-2 dated 31.03.2015
8.Location of the project	MIDC Kurkumbh, Maharashtra
9.Taluka	Daund
10.Village	Pandharewadi, Kurkumbh
Correspondence Name:	Mr. Sameer S. Katdare
Room Number:	401-407
Floor:	--
Building Name:	Nirman Vyapar Kendra
Road/Street Name:	--
Locality:	Plot No. 10, Sector 17, Vashi,
City:	Navi Mumbai 400 703
11.Whether in Corporation / Municipal / other area	NA
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 276070
13.Note on the initiated work (If applicable)	Not applicable (Already existing unit)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	276,070 Sq. m.
16.Deductions	NA
17.Net Plot area	NA
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 18599.0
	b) Non FSI area (sq. m.):
	c) Total BUA area (sq. m.): 18599.0
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 15-05-2020
19.Total ground coverage (m2)	45597 Sq.m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	16.51 %
21.Estimated cost of the project	4458200000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	NA
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Manufacturing units, raw material & finished goods storages area, utilities such as boilers, TFH and DG sets, ETP, RO and MEE.
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	A TO E Aliphatic Amines, Aliphatic Mixed Amines, Aromatic Amines, Aromatic Mixed Amines, Others Mixed Amines	25000 MT/A	25000 MT/A	50000 MT/A
2	A Aliphatic Amines	-	-	Quantity of individual product (existing + Proposed)
3	Monomethyl Amine (MMA)	-	-	10 MT/A
4	Dimethyl Amine(DMA)	-	-	10 MT/A
5	Trimethyl Amine(TMA)	-	-	10 MT/A
6	Monoethyl Amine (MEA)	-	-	1950 MT/A
7	Diethyl Amine (DEA)	-	-	3600 MT/A
8	Triethyl Amine (TEA)	-	-	21190 MT/A
9	Monoisopropyl Amine (MIPA)	-	-	100 MT/A
10	Diisopropyl Amine (DIPA)	-	-	50 MT/A
11	N – Propylamine (NPA)	-	-	10 MT/A
12	Di – N – PROPYL AMINE (DNPA)	-	-	10 MT/A
13	Tri-N- Propyl Amine (TNPA)	-	-	10 MT/A
14	Mono – N – Butylamine (MNBA)	-	-	10 MT/A
15	Di-N-Butylamine(DNBA)	-	-	10 MT/A
16	Tri-N-Butylamine(TNBA/TBA)	-	-	10 MT/A
17	2-Etylhexaylamine (2-EHA)	-	-	10 MT/A

18	Bis-2-Ethylhexylamine(BIS-2-EHA)	-	-	50 MT/A
19	Mono-Cyclohexylamine(MCHA)	-	-	10 MT/A
20	Di-Cyclohexylamine(DCHA)	-	-	10 MT/A
21	Proposed Products in category A	-	-	-
22	Morpholine (MORPH)	-	-	4500 MT/A
23	Diethylene Glycoamine (DGA)	-	-	500 MT/A
24	Ethylene Diamine (EDA)	-	-	15 MT/A
25	Piperazine (PIPZ)	-	-	15 MT/A
26	Allylamine (ALLA)	-	-	15 MT/A
27	Diallylamine	-	-	15 MT/A
28	Triallylamine	-	-	15 MT/A
29	Diamylamine (mixture of amines) (DAMA)	-	-	15 MT/A
30	Triamylamine (TAMA)	-	-	15 MT/A
31	Tertiary Octyl Amine (TOA)	-	-	15 MT/A
32	Isobutylamine (IBA)	-	-	15 MT/A
33	1,4- Diaminobutane (1,4- DMB)	-	-	15 MT/A
34	Pyrrolidine (Pyrldne)	-	-	15 MT/A
35	Hexamethylene Diamine (HMDA)	-	-	500 MT/A
36	Hexamethyleneimine (Azepane)	-	-	15 MT/A
37	Tertiary Butylamine (TBA)	-	-	15 MT/A
38	B Aliphatic Mixed Amines	--	-	Quantity of individual product (existing + Proposed)
39	Diisopropylethyl Amine (Hunig's Base)(DIPEA)	-	-	2000 MT/A
40	Dimethyl Isopropyl Amine(DMIPA)	-	-	50 MT/A
41	Ethylmethyl Amine(EMA)	-	-	15 MT/A
42	Diethylmethyl Amine(DEMA)	-	-	10 MT/A
43	Dimethylcyclohexyl Amine(DMCHA)	-	-	10 MT/A
44	N-ethylcyclohexyl Amine(NECHA)	-	-	10 MT/A
45	N-Methylisopropyl Amine(NMIPA)	-	-	10 MT/A
46	Diisopropylmethyl Amine(DMPA)	-	-	10 MT/A
47	Dimethylbutylamine(DMBA)	-	-	10 MT/A
48	Dimethylethylamine(DMEA)	-	-	10 MT/A
49	Ethylpropyl Amine(EPA)	-	-	10 MT/A
50	N,N Dimethylpropyl Amine (DMPA)	-	-	50 MT/A
51	Proposed Products in category B	-	-	-
52	N-ethyl Piperazine (NEPIPZ)	-	-	10 MT/A
53	N-Methyl Piperazine (NMPIPZ)	-	-	10 MT/A
54	N-Methyl Morpholine (NMM)	-	-	50 MT/A
55	C Aromatic Amines	-	-	Quantity of individual product (existing + Proposed)
56	N,N Dimethylbenzyl Amine(BDMA)	-	-	10 MT/A
57	1-Methyl-3 Phenyl Propyl Amine(MPPA)	-	-	10 MT/A
58	Furfurylamine(FFA)	-	-	150 MT/A
59	Benzylamine(MBA)	-	-	10 MT/A
60	Dibenzyl Amine(DBA)	-	-	10 MT/A
61	N-Ethyl Benzayl Amine (NEBA)	-	-	10 MT/A
62	4-Methyl-N.N-Dimethylbenzayl Amine (4MBDMA)	-	-	10 MT/A
63	Beta – Phenylethylamine(PHEA)	-	-	10 MT/A
64	Alpha-Phenylethylamine(APEA)	-	-	10 MT/A
65	N-Isopropyl Benzene Amine(NIPBA)	-	-	10 MT/A
66	I-(Inaphthyl) Ethylamine(ANEA)	-	-	10 MT/A

67	3,5 Dichloroaniline(3.5 DCA)	-	-	10 MT/A
68	Para Cumidine(PCD)	-	-	30 MT/A
69	D Aromatic Mixed Amines	-	-	Quantity of individual product (existing + Proposed)
70	Thiophene – 2 Ethyl Amine(THEA)	-	-	20 MT/A
71	2-Cyclohexylethyl Amine(CHEA)	-	-	30 MT/A
72	Piperidine(PIP)	-	-	2500 MT/A
73	Trans-4-Methylcyclohexyl Amine(4MCHA)	-	-	20 MT/A
74	N-Methylbenzyl Amine(NMBA)	-	-	60 MT/A
75	N-Benzylethanol Amine(NBEA)	-	-	10 MT/A
76	E Other Mixed Amines	-	-	Quantity of individual product (existing + Proposed)
77	Methoxypropylamine(MOPA)	-	-	20 MT/A
78	Dimethylaminopropyl Amine(DMAPA)	-	-	6000 MT/A
79	Methylaminopropyl Amine(MAPA)	-	-	100 MT/A
80	N-Methyl Imino Bis Propyl Amine(MIBPA)	-	-	30 MT/A
81	Tetramethylenedlamine(TMEDA)	-	-	100 MT/A
82	Tetramethyl Amino Bis Propyl Amine(TMBPA)	-	-	10 MT/A
83	Ethoxy Propyl Amine(ETHOPA)	-	-	100 MT/A
84	Ethoxyethyl Amine(EEA)	-	-	10 MT/A
85	Diethylaminopropylamine(DEAPA)	-	-	10 MT/A
86	Ethylaminoethyl Amine(EAEA/NEEDA)	-	-	10 MT/A
87	Dimethylamino Ethyl Amine(DMAEA/DMEDA)	-	-	10 MT/A
88	1,3 Propylene Diamine(1,3-DAP)	-	-	10 MT/A
89	3- Aminopropanol(3-AP)	-	-	600 MT/A
90	Hydroxynovaldamine/N Bis(2hydroxyethyl) F-Phenylendiamine. Sulphatephenylenediaminesulphate (HND/HEPD SULPHATE)	-	-	20 MT/A
91	N,N Bis (2 Amminopropyl) Ethylenediamine (N-4 AMINE)	-	-	10 MT/A
92	3-Methylamino-1-Phenyl-1-Propanol(MAPP)	-	-	10 MT/A
93	Diethyl Hydroxylamine(DEHA)	-	-	2800 MT/A
94	Dibenzyl Hydroxylaine(DBHA)	-	-	10 MT/A
95	Isopropyl Hydroxylamine(IPHA)100%(sold as 15% soln)	-	-	200 MT/A
96	N-Ethyl 1,2 – Dimethyl Propylamine (EDMPA)	-	-	10 MT/A
97	Mixed Amines(MIXAMIN)	-	-	250 MT/A
98	1,2 Dimethylpropylamine(1,2 DMPA)	-	-	20 MT/A
99	Tris-2- (Ethyl Hexyl) Amine(TRIS-2-EHA)	-	-	100 MT/A
100	3-(2-ethylhexoxy) Propylamine(EHOPA)	-	-	50 MT/A
101	Iminobispropylamine(IBPA)	-	-	10 MT/A
102	Proposed Products in category E	-	-	-
103	Diethyl Ethylene Diamine (DEEDA)	-	-	10 MT/A
104	Diisopropyl Ethylene Diamine (DIPEDA)	-	-	10 MT/A
105	Tertiary Amines- typical- N,N Dimethyl Laurylamine-LDMA (TA)	-	-	10 MT/A
106	Tri Acetone Amine (TAA)	-	-	1500 MT/A
107	Di Tertiary Butyl Ethylenediamine (DTBEDA)	-	-	10 MT/A
108	Methoxyethylamine (MOEA)	-	-	10 MT/A
109	Total Production of Category A-E	25000 MT/A	25000 MT/A	50000 MT/A

110	F Betaines	1250 MT/A	0 MT/A	1250 MT/A
111	G Aliphatic amine hydrochloride	15000 MT/A	15000 MT/A	30000 MT/A
112	-	-	-	Quantity of individual product (existing + Proposed)
113	Dimethylamine Hydrochloride(DMA HCL)	-	-	27500 MT/A
114	Dimethylaminopropylchloride Hydrochloride(DMAPC.HCL)	-	-	20 MT/A
115	Diethylamine Hydrochloride(DEA HCL)	-	-	750 MT/A
116	Monomethylamine Hydrochloride(MMA HCL)	-	-	30 MT/A
117	2-Chloroethylamine Hydrochloride(CEA HCL)	-	-	20 MT/A
118	Triethylamine Hydrochloride(TEA HCL)	-	-	1500 MT/A
119	Trimethylamine Hydrochloride(TMA HCL)	-	-	180 MT/A
120	Total Production of Category G	15000 MT/A	15000 MT/A	30000 MT/A
121	H Aliphatic Amine Hydrochloride Solution	15,000 MT/A	0 MT/A	15,000 MT/A
122	I Amides	500 MT/A	500 MT/A	1000 MT/A
123	-	-	-	Quantity of individual product (existing + Proposed)
124	Diethyltoluamide (DEET)	-	-	830 MT/A
125	Dietylphenyl Acetamide(DEPA)(sold as solutionin ipa)	-	-	120 MT/A
126	Proposed Products in category I	-	-	-
127	Acetamide (AA)	-	-	50 MT/A
128	Total Production of Category I	500 MT/A	500 MT/A	1000 MT/A
129	J Pearlising Agent	500 MT/A	0 MT/A	500 MT/A
130	K Hydrogen	600 MT/A	0 MT/A	600 MT/A
131	L Specialty Intermediates	12400 MT/A	31000 MT/A	43400 MT/A
132	-	-	-	Quantity of individual product (existing + Proposed)
133	4-Methylcyclohexanone(4 MCHN)	-	-	10 MT/A
134	3- Methoxypropanol(3 MOPL)	-	-	10 MT/A
135	Dimethyl Propylene Urea(DMPU)	-	-	100 MT/A
136	1.8 – Diazabicyclo (5.4.0) Undec – 7 Ene(DBU)	-	-	200 MT/A
137	Ethyl Piperazinedione(EDP)	-	-	10 MT/A
138	B – Dimethylaminopropionitrile(DMAPN)	-	--	100 MT/A
139	Acetonitrile(AN)	-	-	20500 MT/A
140	N,N – Dimethyl Imidazolidone(DMI)	-	-	10 MT/A
141	1,5- Diazobicyclo (4,3,0) non-5-Ene (DBN)	-	-	10 MT/A
142	2- Methyl Tetrahydrofuran (2-MTHF)	-	-	2000 MT/A
143	Phenyl Ethyl Alcohol(PHEA)	-	-	1000 MT/A
144	2- Methyl Resorcinol(3 MR)	-	-	10 MT/A
145	Proposed Products in category L	-	-	-
146	Tetrahydrofurfurylalcohol (THFA)	-	-	150 MT/A
147	1,2 Pentanediol (1,2 PDL)	-	-	500 MT/A
148	1, Pentanol (1, PNTL)	-	-	150 MT/A
149	Gammabutyrolactone (GBL)	-	-	1000 MT/A
150	4-Aminobutanol (4-AMBUNOL)	-	-	20 MT/A
151	1,6 Hexanediol (1,6 HEXDIOL)	-	-	1500 MT/A
152	1,5 Pentanediol (1,5 PDIOL)	-	-	500 MT/A
153	2 Methylcyclohexylacetate (2 MCA)	-	-	2000 MT/A
154	Diethylsulphate (DES)	-	-	1800 MT/A

155	Hindered Amines Light Stabiliser (HALS) Typical- Bis(2,2,6,6 Tetramethyl-4-Piperidyl) Sebacate	-	-	4500 MT/A
156	N-Methylmorpholineoxide (NMMO)	-	-	1990 MT/A
157	Trans-4Aminocyclohexanol (4AMCHNL)	-	-	50 MT/A
158	Diisobutycarbinol (DIBC)	-	-	300 MT/A
159	1,2,4-Triazole (1,2,4 TAZL)	-	-	60 MT/A
160	N-Ethylurea (NEU)	-	-	500 MT/A
161	N-Cynoacetyl N-Ethylurea (NCANEU)	-	-	500 MT/A
162	2,2,6,6-Tetramethylpiperine 1-Oxyl (TEMPO)	-	-	500 MT/A
163	4-Hydroxy-2,2,6,6-Tetramethylpiperine 1-Oxyl (HYDROXY TEMPO)	-	-	1650 MT/A
164	Diacetonealcohol (DAAL)	-	-	60 MT/A
165	Mesityl Oxide (MEO)	-	-	60 MT/A
166	2,2,6,6-Tetramethyl 2,3- Dihydropiridine (TMDP)	-	-	250 MT/A
167	2,4,6-Trimethyl Pyridine Collidine (CODIN)	-	-	200 MT/A
168	Diethyl ketone	-	-	1200 MT/A
169	Total Production of Category L	12400 MT/A	31000 MT/A	43400 MT/A
170	M Sodium Acetate Solution	3400 MT/A	7000 MT/A	10400 MT/A
171	N Other Products	-	-	-
172	Dilute Caustic Lye	5000 MT/A	0 MT/A	5000 MT/A
173	Metal Catalyst	12 MT/A	50 MT/A	62 MT/A
174	Diethyltoluamide (EET) Aqueous Layer	90 MT/A	0 MT/A	90 MT/A
175	Dilute Ammonia Solution	620 MT/A	180 MT/A	800 MT/A
176	Solvent (Purified)	1 MT/A	-1 MT/A	0 MT/A
177	Sodium Sulphate	0 MT/A	3500 MT/A	3500 MT/A
178	Calcium Sulphate	0 MT/A	1170 MT/A	1170 MT/A
179	Sodium carbonate solution	0 MT/A	4680 MT/A	4680 MT/A
180	Calcium Carbonate	0 MT/A	388 MT/A	388 MT/A
181	Dilute Sulphuric Acid	0 MT/A	8620 MT/A	8620 MT/A
182	Grand TOTAL	79,373 MT/A	97,087 MT/A	176,460 MT/A

32.Total Water Requirement

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

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

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	49	0	49	-10	0	-10	39	0	39
Industrial Process	140	67	207	+21	+75	+96	161	142	303
Cooling tower & thermopack	1452	481	1933	-1196	-331	-1527	256	150	406
Gardening	200	192	392	-200	-192	-392	0	0	0
Fresh water requirement	1841	740	2581	-1385	-448	-1833	456	292	748
Fresh water requirement	Water Recycled	-	39+188 +12+12 =251	-	-	-	-	-	-
Fresh water requirement	Total fresh water required 2nd day onwards	-	2330	-	-	-	-	-	-
Fresh water requirement	39 CMD from STP+ 188 CMD RO-1, RO 2 Permeate+ 12 CMD RO-3 Permeate+ 12 CMD live steam condensate from MEE	-	-	-	-	-	-	-	-

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5-10 m
	Size and no of RWH tank(s) and Quantity:	400 m3 x 1 no. Harvested rain water will be stored in this tank and excess rain water will be led to drain.
	Location of the RWH tank(s):	Near Admin building
	Quantity of recharge pits:	Not applicable as collected water will be reused.
	Size of recharge pits :	Not applicable as collected water will be reused.
	Budgetary allocation (Capital cost) :	Rs. 10 Lac
	Budgetary allocation (O & M cost) :	Rs. 0.5 lac/A
	Details of UGT tanks if any :	Solvent storage tanks 14 nos.
35.Storm water drainage	**Natural water drainage pattern:**	Proper and separate storm water drains are provided as per natural slopes.
	Quantity of storm water:	1570 lit/s
	Size of SWD:	Width: 600mm; Depth: 600 mm;
Sewage and Waste water	**Sewage generation in KLD:**	Existing: 39 CMD; Proposed: 0 CMD; Total: 39 CMD
	STP technology:	Generated sewage will be treated in existing STP.
	Capacity of STP (CMD):	50 CMD
	Location & area of the STP:	72 sq.m ground coverage near existing ETP
	Budgetary allocation (Capital cost):	Rs. 43.84 Lac
	Budgetary allocation (O & M cost):	Rs. 6 lac/A
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Debris, Excavated soil
	Disposal of the construction waste debris:	Within premises in low lying area.
Waste generation in the operation Phase:	**Dry waste:**	Hazardous Waste: • • Ash from Incineration Hazardous Waste- 2TPA; (Right now incineration is not in use, quantity is given whenever it will be in operation (only after getting permission from MPCB) • Discarded container/barrels/liners- 7200 Nos./A; • E-waste- 0.9 TPA; • Biomedical waste- 0.1 TPA. Non-hazardous waste: • Wood Pallet- 80 TPA; • Scrap Material-110 TPA; • Carboy plastic- 2000 nos./A; • Office paper waste-2 TPA; • Woven sack bag HDPE- 30TPA; • Drums- 5400 nos./A; • Boiler Ash from coa
	Wet waste:	Hazardous Waste: • Contaminated Aromatic Aliphatic Or Napthalenic Solvents- 48.5 TPA; • Spent Carbon from ETP - 6 TPA; • Toxic metal containing residue from water purification- 8 TPA; • Distillation residue- 2515 TPA; • Used/spent oil- 27 TPA; • Spent organic solvent- 1590 TPA; • Chemical sludge from waste water treatment/bio sludge- 346 TPA; • Waste/residue containing oil- 4 TPA; • MEE salts- 36 TPA; Non-Hazardous Waste: • Biological Sludge from STP- 20 TPA
	Hazardous waste:	Hazardous Waste: • Contaminated Aromatic Aliphatic Or Napthalenic Solvents- 48.5 TPA; • • Ash From Incineration Hazardous Waste - 2 TPA; (Right now incineration is not in use, quantity is given whenever it will be in operation (only after getting permission from MPCB) • Spent Carbon from ETP-6 TPA; • Toxic metal containing residue from water purification- 8 TPA; • Distillation residue- 2515 TPA; • Used/spent oil-

Mode of Disposal of waste:	**Dry waste:**	MPCB authorized party for reuse/To CHWTSDF
	Wet waste:	CHWTSDF/Sale to MPCB authorized party/ Incineration in factory after getting permission from MPCB
	Hazardous waste:	CHWTSDF/Sale to MPCB authorized party/ Incineration in factory after getting permission from MPCB
	Biomedical waste (If applicable):	Authorized Biomedical Waste disposal facility.
	STP Sludge (Dry sludge):	Use as manure for gardening within premises
	Others if any:	Sale to authorized vendors/Recyclers.
Area requirement:	**Location(s):**	In plot D-6/2 area as indicated in plot layout.
	Area for the storage of waste & other material:	Area for the storage of Hazardous waste 400 Sq.m.
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.25 lacs, which is Included in total capital cost
	O & M cost:	Rs. 496.86 Lacs/year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	9-10	7-8	5.5-9.0
2	BOD3,27ºC	mg/L	1000-1250	<30	<30
3	COD	mg/L	2000-2500	200-250	<250
4	TSS	mg/L	150-200	80-90	<200
5	TDS	mg/L	1500-2000	500-600	<2100

Amount of effluent generation (CMD):	709 CMD
Capacity of the ETP:	Existing ETP-1 - 100 CMD; Existing ETP-2 - 100 CMD; Proposed ETP-3 - 150 CMD
Amount of treated effluent recycled :	251 CMD (39 CMD from STP+ 188 CMD RO-1, RO 2 Permeate+ 12 CMD RO-3 Permeate+ 12 CMD live steam condensate from MEE)
Amount of water send to the CETP:	500.5 CMD (208.5 CMD existing +292 CMD proposed) The permission of discharge to CETP for additional 292 CMD is conditional. Hence, if permission from CETP is not granted for whatever reason the wastewater generated from expansion implementing ZLD treatment will be reused in process/utilities. Existing 208.5CMD will be discharged to CETP as per consent.
Membership of CETP (if require):	CETP Kurkumbh
Note on ETP technology to be used	Existing effluent from process (150 CMD) is being treated in two full-fledged ETP's of 100 CMD each consisting of primary, secondary and tertiary treatment separately. And the existing 267 CMD effluent from washings, boiler & cooling tower blowdowns and DM plant is first neutralized and then passed through sand filter. Generated sludge is settled down in the tank, which is cleaned periodically and collected along with ETP sludge for disposal. Then tertiary effluent from process along with other
Disposal of the ETP sludge	Sent to CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Hazardous Waste Details	-	-	-	-	-	-

2	Contaminated Aromatic Aliphatic Or Napthalenic Solvents	20.1	T/A	48.5	0	48.5	Incineration in factory(whenever in operation after getting permission from MPCB)/CHWTSDF/ authorized co-processor
3	Ash From Incineration Hazardous Waste	36.2	T/A	2	0	2	To CHWTSDF
4	Spent Carbon from ETP	35.3	T/A	3	3	6	Incineration in factory (whenever in operation after getting permission from MPCB)/ CHWTSDF
5	Toxic metal containing residue from water purification	34.2	T/A	4	4	8	CHWTSDF
6	Distillation residue	20.3	T/A	330	2185	2515	Incineration infactory (whenever in operation after getting permission from MPCB)/ CHWTSDF/ authorized co-processor
7	Used/spent oil	5.1	T/A	11	16	27	Sale to MPCB authorized party
8	Spent organic solvent	28.5	T/A	250	1340	1590	Sale to MPCB authorized party/CHWTSDF/ authorized co-processor
9	Discarded container/barrels/liners	33.3	Nos./A	3600	3600	7200	Sale to MPCB authorized party /return to party
10	Chemical sludge from waste water treatment/bio sludge	34.3	T/A	336	10	346	CHWTSDF/Incineration(whenever in operation after getting permission from MPCB)
11	Waste/residue containing oil	5.2	T/A	2	2	4	Incineration in factory (whenever in operation after getting permission from MPCB)/ CHWTSDF/ authorized co-processor
12	MEE Salts	35.3	T/A	--	36	36	ETP CHWTSDF
13	Spent Catalyst	28.2	T/A	-	18	18	CHWTSDF
14	E-Waste	Not Specified	T/A	-	0.9	0.9	Returned to manufacturer through authorized dealer on buy back procurement
15	Biomedical waste	Not Specified	T/A	-	0.1	0.1	Authorized Biomedical Waste disposal facility.
16	Non-Hazardous waste	-	-	-	-	-	-
17	Wood Pallet	Not Specified	T/A	6.0	74.0	80.0	By Sale
18	Scrap Material	Not Specified	T/A	11.0	99.0	110.0	By Sale
19	Carboy plastic	Not Specified	nos./A	1000	1000	2000	By Sale
20	Office paper waste	Not Specified	T/A	1.0	1.0	2.0	By Sale
21	Woven sack bag HDPE	Not Specified	T/A	1.0	29.0	30.0	By Sale
22	Drums	Not Specified	nos./A	2700	1800	4500	By Sale
23	Boiler Ash from coal (Indian)	Not Specified	T/A	28,380 (86 TPD)	55,110 (167 TPD)	83,490 (253 TPD)	Sale to brick manufacturer
24	Boiler Ash from coal (imported)	Not Specified	T/A	5940 (18 TPD)	7590 (23TPD)	13,350 (41 TPD)	Sale to brick manufacturer
25	Biological Sludge from STP	Not Specified	T/A	--	20	20	Use as manure in gardening

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	Existing 28 TPH Boiler	Imported Coal- 7.5 T/hr /Indian Coal- 10.21 T/hr	1	60 m combined stack	2.0 m	125o C
2	Existing 18 TPH Boiler	Imported Coal- 4.85 T/hr /Indian Coal- 6.56 T/hr	1	60 m combined stack	2.0 m	125o C
3	Existing 10 TPH Boiler	Imported Coal- 2.65 T/hr /Indian Coal- 3.65 T/hr	1	42 m	0.65 m	125o C
4	Proposed 50 TPH Boiler	Imported Coal- 9.5 T/hr /Indian Coal- 17.02 T/hr	1	73 m	2.58 m	125o C
5	Existing TFH 15 lac kcal/hr	FO-125 kg/hr	1	31 m	1 m	130o C
6	Existing TFH10 lac kcal/hr	FO- 70 kg/hr	1	26.5 m	1.8 m	130o C
7	Existing H2 plant TFH- 5 lac Kcal/hr	Methanol/CO /CO2/H2-55 kg/hr	1	15 m	0.25 m	130o C
8	Proposed TFH2- 30 lac Kcal/hr	FO- 190.5 kg/hr	1	42 m	0.5 m	130o C
9	Proposed TFH3- 2.5 lac Kcal/hr	Methanol/Off gas- 28 kg/hr	1	15 m	0.25 m	130o C
10	DG set 1000 KVA (Existing)	HSD- 210 lit/hr	1	7.82 m above enclosure	0.15 m	135o C
11	DG set 1000 KVA (Existing)	HSD- 243 lit/hr	1	7.82 m above enclosure	0.15 m	135o C
12	DG set 2000 KVA (Proposed)	HSD- 403 lit/hr	1	10 m above enclosure	0.25 m	135o C
13	Ethylene Vent MPP2	--	1	15 m	0.08 m	Ambient
14	Flare	Ethylene-75 kg/hr./ H2- 5 kg/hr.	1	5 m	1.5 m	300°C
15	Incinerator	HSD- 20 kg/hr	1	30 m	0.2 m	200-250°C
16	H2 plant PSA vent	-	1	15 m	0.15 m	Ambient
17	Process HCl Scrubber	-	1	6 m	0.15 m	Ambient
18	Acetonitrile Plant vent gas	-	1	12 m	0.08 m	Ambient
19	Ethyl Plant Vent	-	1	24 m	0.24 m	Ambient
20	SMPV vent	-	1	12 m	0.3 m	Ambient
21	MPP-3 vent	-	1	12 m	0.3 m	Ambient
22	HCl Scrubber	-	1	6.5 m	0.15 m	Ambient
23	Amine Hydrochloride plant 2	-	1	15 m	0.3 m	Ambient
24	Amine Hydrochloride plant 3	-	1	15 m	0.3 m	Ambient

25	7th Column Stack	-	1	10 m	0.05 m	Ambient
26	MPP-4 plant, 3 nos.	-	1	15 m each	0.1 m each	Ambient
27	MPP-5	-	1 each	15 m	0.1 m	Ambient
28	MPP-6 VP plant	-	1	15 m	0.1 m	Ambient
29	Acetonitrile Plant	-	1	15 m	0.15 m	Ambient
30	Amine Hydrochloride plant-4, 2 nos.	-	1 each	15 m each	0.3 m each	Ambient
31	PSV Absorber, 2 nos.	-	1 each	15 m each	0.3 m each	Ambient
32	PSA vent	-	1	15 m	0.1 m	Ambient
33	*Note- Existing DG set- 320 KVA x 1 no. will be replaced by 1 no. of DG sets of 2000 KVA.	-	-	-	-	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	imported coal /Indian coal	17.5 T/hr /10.21 T/hr	9.5 T/hr /17.02 T/hr	17 T/hr /27.23 T/hr
2	FO	271 kg/hr	190.5 kg/hr	461.5 kg/hr
3	HSD	533 lit/hr	403 lit/hr	936 lit/hr
4	Methanol/CO/CO2/H2	55 kg/hr	27 kg/hr	82 kg/hr
41.Source of Fuel		Local		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development

Total RG area :	Inside: 59,979 Sq.m. (21.7% of total plot area); on a plot contiguous to the factory premises along the periphery:31,212 Sq.m. (11.3% of total plot area); Total: 91,191 Sq.m(33% of total plot area)MIDC has given permission for development of Green belt on MIDC land contiguous to the factory premises
No of trees to be cut :	Nil
Number of trees to be planted :	Existing Planted: 4000; Proposed to be planted: 9700; Total trees : 13700
List of proposed native trees :	Arjun, Apta, Vad, Pimpal, etc.
Timeline for completion of plantation :	Within 2-3 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Terminaliaarjuna	Arjun	300	Pollution Resistant
2	Bauhinia racemosa	Apta	250	Pollution Resistant
3	Ficusbenghalensis	Vad	250	Pollution Resistant
4	Ficusreligiosa	Pimpal	250	Pollution Resistant
5	Plumeria alba	Chafa	250	Pollution Resistant
6	Azadirachtaindica	Neem	250	Pollution Resistant

7	Teminaliatomentosa	Ain	250	Pollution Resistant
8	Lagerstroemia speciosa	Taman	300	Pollution Resistant
9	Ficuselastica	Rubber	200	Pollution Resistant
10	Tectonagrandis	Teak	5000	Pollution Resistant
11	Cassia fistula	Bahava	500	Pollution Resistant
12	Neolamarckiacadamba	Kadamb	250	Pollution Resistant
13	Aegle marmelos	Bel	500	Pollution Resistant
14	Butea monosperma	Sawar	250	Pollution Resistant
15	Syzygium cumini	Jamun	500	Pollution Resistant
16	Cordia dichotoma	Bhokar	350	Pollution Resistant
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)	800 KVA
	DG set as Power back-up during construction phase	--
	During Operation phase (Connected load):	5500 KW
	During Operation phase (Demand load):	4000 KW
	Transformer:	4000 KVA
	DG set as Power back-up during operation phase:	1000 KVA × 2 Nos. 2000 KVA× 1 No.
	Fuel used:	HSD 936 lit/hr
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

2.013 MWp (DC) Solar PV power plants have been commissioned in July-2015. This solar generated power is transmitted to AACL Kurkumbh plant through MSEDCL Grid (open access).

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	ESP, Dust Collector, Multi-cyclone followed by stack of adequate height	ESP followed by stack of adequate height
Water	ETP, RO, MEE and STP	Proposed additional ETP
Noise	Acoustic enclosure for DG set	Acoustic enclosure for DG set
Solid Waste	Disposal to CHWTSDF/ Sale to authorized Recycler	Disposal to CHWTSDF/Incineration/ Sale to authorized Recycler

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 16.97 Cr.
	O & M cost:	Rs. 7.49 Cr/A

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust	Air Pollution	1.0
2	Debris	Solid Waste	1.0
3	Construction equipment	Noise Pollution	0.5

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	ESP, Stack, Multi cyclone and Bag filter	580	10.0
2	Water pollution control	Exiting ETP, MEE & RO, existing STP and proposed ETP	894.85	218.88
3	Noise pollution Control	Acoustic enclosure and regular maintenance	32	0.5
4	Occupational Health	Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, In-house first aid room, Other infrastructure and Equipment	68.05	3.23
5	Environmental Monitoring Budget including carbon and water footprint	Environmental Monitoring, Carbon Footprint and Water Footprint monitoring	--	10.0
6	Hazardous waste Storage & disposal	Storage, Transportation, disposal & Incinerator operation and maintenance	190.0	519.70
7	Green belt	Plantation &Maintenance of Green belt	20	15.0
8	Mitigation Measures for LCA	Installation of solar Panels	1389	15.5

9	Carbon Footprint Monitoring (Measures taken to reduce carbon footprint)?	Installation of solar Panels* for reduction of consumption of electricity which indirectly reduce carbon footprint. Reduction of fuel consumption by using well efficient insulation to heating equipment.	-	5.0
10	Water Footprint Monitoring (Measures taken to reduce water footprint)	Rain water harvesting & use of rain water in utilities & domestic•?Recycling & reuse of treated waste water** in utilities Regular maintenance of equipments to reduce wastage of water due to leaks	10	5.0
11	Note – *Cost for Tree plantation & solar panel is already considered in sr. no. 7 & 8. ** Cost for recycle & reuse of water is already considered in sr. no. 2.	-	-	-
12	Total	--	3183.9	792.81

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
Specially denatured spirit	liquid	Tank	1440	8640	5192	Local	Road
Anhydrous Ammonia	gas	Tank	75	150	2374	Local	Road
Hydrogen	gas	Cylinder bank and skids	21 NM3	10080 NM3	600000 m3/m	Local	Road
Diethylene Glycol	liquid	tank	100	200	1800	Local	Road
Amine HCL solution	liquid	tank	200	800	9000	Local	Road
Acetic Acid	liquid	tank	200	400	4407	Local	Road
Caustic Lye	liquid	tank	100	100	1320	Local	Road
Ortho cresol	liquid	Drums/RM store	0.15	30	220	Local	Road
Methanol	liquid	tank	80	80	420	Local	Road
Acetone	liquid	tank	45	40	946	Local	Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	NA
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	6 m with turning radius of 9m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No such areas within 5 km radius circle.
	Category as per schedule of EIA Notification sheet	B1, 5 (f)
	Court cases pending if any	NO

	Other Relevant Informations	Existing Capital Cost: 240.82 Cr. Proposed: 205 Cr. Total capital Cost: 445.82 Cr. As per Corporate Environmental Responsibility (CER) Notification (Schedule VII, Company Act), the. Company has earmarked Rs. 1.54 Cr. (which is 0.75% of Additional proposed project cost Rs. 205 Cr) for undertaking the CER activities which are as follows: 1. Separate toilets and Changing Roomsfor Z.P. Schools Girls in Pandhrewadi- 15 Lacs 2. Drinking Water facility (Filters and RO System)and toilet for Z.P. Schools in Jiregav Village- 20 Lacs 3. Provision of SolarPower System at Daund District Hospital- 15 Lacs 4. Provision of Wellton Healthcare Mortuary Chembers WH-150 –Wellton Healthcare in Daund District Hospital- 10 Lacs 5. Provision of Construction of Check Dam on Natural Fresh water stream at Girim Village- 20 Lacs 6. Provision of ECG Machine and X-ray machine in Government Hospital Kurkumbh – 50 Lacs 7. Provision of Pipeline from JanaiShirsaiCanal to Vasunde village- 24 Lacs
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	09-04-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. PP proposes scrubber to the process vents. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP to obtain permission from CETP for discharge of 292 KLD treated effluent before commissioning of the expansion activities. In case such permission is not granted PP shall provide Zero Liquid Discharge Effluent Treatment Plant.
Waste Water Treatment	PP to ensure to obtain CETP permission for the discharge of proposed 291 KLD of effluent to the CETP; if permission is not obtained PP proposes to provide ZLD effluent treatment plant.
Drainage pattern of the project	PP considered contour levels during design of storm water drains.
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits.
Solid Waste Management	PP committed to dispose the hazardous waste at Common Hazardous Waste Treatment, Storage, and Disposal Facility and sale to Authorized vendors. Details are given at Sr. No. 38 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for project is 4000 KVA which will be supplied by MSEDCL. PP proposes two DG sets with capacity 1000 KVA and one DG set with capacity 2000 KVA
Traffic circulation system and risk assessment	PP proposes internal roads with minimum six meter width and nine meters of turning radius for smooth circulation of traffic.
Landscape Plan	PP proposes to provide 33% green belt of which 20% (56401 Sq.m) within the premises and balance 12.59% (34752 Sq.m) will be outside the factory area on MIDC land adjacent to the existing industrial plot along the Sholapur Highway NH-9

Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment and submitted DMP.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP Rs. 597.05 Lakhs as capital cost and Rs. 284.71 Lakhs as recurring EMP cost for the maintenance of environmental parameters during operation phase.
Any other issues related to environmental sustainability	: PP to adopt technology to scrub all carbon di oxide gas generated during operations and ensure that it is not released in the atmosphere.

Brief information of the project by SEAC

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

The proposal was considered in the 166th meeting of SEAC-1 held on 27.05.2019 wherein ToR was granted to the PP.

PP submitted EIA/EMP report in 173rd meeting wherein the proposal was rejected by the SEAC-1 as PP was not having adequate space to develop mandatory 33% green belt within the premises as per OM issued by MoEF&CC dated 09.08.2018.

The SEIAA considered the proposal in their 185th meeting held on 10.01.2020 directing SEAC-1 to appraise the proposal considering the green belt as proposed by PP.

In view of SEIAA's direction, SEAC-1 again considered the proposal in 178th meeting and decided to defer the proposal till submission of compliance of following points.

1. PP to submit certified compliance of earlier EC No. SEAC-2014/CR-387/TC-2 dated 31.03.2015 obtained from Regional Office of MoEF&CC, Nagpur.
2. PP to submit compliance of point No. 3(x) of the standard ToR point.
3. PP to obtain and submit clarification from MIDC that, the proposed green belt area on MIDC land is not in their service corridor or any other public amenity space.
4. PP proposes green belt development along the Sholapur Highway NH-9; PP to submit drawing from National Highway Authority demarcating their area of highway, service road etc. and MIDC land so as to ensure proposed green belt will not obstruct their services.
5. PP to submit detailed water balance calculations along with effluent generation and its treatment and disposal mechanism.
6. PP to submit copy of CETP permission for disposal of 505.50 KLD water to the CETP.
7. PP to submit status of onsite incineration whether it will be used or not.
8. PP to carry out fire audit of the site and submit report along with proposed mitigation measures.
9. PP to submit revised layout showing area statement for existing and proposed ground coverage, PP also to mark area for storage of spent solvent with its dimension and adequacy on layout and submit revised layout.
10. PP to submit detailed report on generation of carbon di oxide in the manufacturing of DIPMA/CHEA/THEA along with proposed mitigation measures. PP to ensure no carbon di oxide is released in the atmosphere.
11. PP to submit revised EMP.
12. PP to submit CER plan prepared in consultation with the District Authority as per OM issued by MoEF& CC dated 01.05.2018.

Now, PP submitted compliance of above points,

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP proposes green belt development on an area of 34752 sq.m outside the factory area on MIDC land adjacent to the existing industrial plot along the Sholapur Highway NH-9; PP to submit drawing from National Highway Authority demarcating their area of highway, service road etc. and MIDC land so as to ensure proposed green belt will not obstruct their services.
2) PP to adopt technology to scrub all carbon di oxide gas generated during operations and ensure that it is not released in the atmosphere.
3) PP to implement the Guidelines for restoration of manufacturing industries after lockdown period issued by Ministry of Home Affairs, National Disaster Management Authority on 09.05.2020.
4) PP to obtain permission from CETP for discharge of 292 KLD treated effluent before commissioning of the expansion activities. In case such permission is not granted PP shall provide Zero Liquid Discharge Effluent Treatment Plant.
5) PP to ensure to provide adequate Firefighting facilities as per recommendations of the Fire Audit.
6) PP to provide Continuous Emission Monitoring System (CEMS) for monitoring of air emissions and connect the same to the MPCB and CPCB servers.
7) PP to implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.

FINAL RECOMMENDATION

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

183rd Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 183rd - Day-1 **Meeting Date** May 11, 2020

Subject: Environment Clearance for Establishment of Pilot Plant and R&D for Synthetic Organic Chemicals 5(f) (Specialty chemicals, API & its formulation) by Aarti Industries Limited at Plot No. A-94/1 & A-94/1/1, Khairane MIDC, TTC Industrial Area, Navi Mumbai, Dist. Thane

Is a Violation Case: No

1.Name of Project	Establishment of Pilot Plant and R&D for Synthetic Organic Chemicals 5(f) (Specialty chemicals, API & its formulation) by Aarti Industries Limited at Plot No. A-94/1 & A-94/1/1, Khairane MIDC, TTC Industrial Area, Navi Mumbai, Dist. Thane
2.Type of institution	Private
3.Name of Project Proponent	Aarti Industries Limited
4.Name of Consultant	Aditya Environmental Services Pvt Ltd
5.Type of project	Industrial Project, Category 5 (f)- B as per EIA notification 2006
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. A-94/1 & A-94/1/1, Khairane MIDC, TTC Industrial Area, Thane
9.Taluka	Thane
10.Village	Kopar khairane
Correspondence Name:	Premnath R
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	--
City:	--
11.Whether in Corporation / Municipal / other area	Khairane MIDC, TTC Industrial area
12.IOD/IOA/Concession/Plan Approval Number	Plot allotment from MIDC
	IOD/IOA/Concession/Plan Approval Number: Plot allotment from MIDC
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Plot allotment from MIDC
15.Total Plot Area (sq. m.)	6576 sq. m.
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 1362.84
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 1.5
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 13-05-2020
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	303000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	R&D Building	G+5	26 m
2	Pilot plant	G+5	23 m

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	Admin & R&D building was already constructed on plot before plot transfer.
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	Pilot Plant and R&D for synthetic organic chemicals (e.g. Specialty chemicals API and its formulations)	0	5	5

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	95.4 cmd
	Recycled water - Flushing (CMD):	22.6 (Recycle for utilities)
	Recycled water - Gardening (CMD):	15 cmd
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	118 cmd
	Fire fighting - Underground water tank(CMD):	150 KL
	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	20	20	0	5	5	0	15	15
Industrial Process	0	15	15	0	2	2	0	13	13
Cooling tower & thermopack	0	72	72	0	62	62	0	10	10
Gardening	0	11	11	0	11	11	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2 to 5 m bgl and 5 to 10 mbgl
	Size and no of RWH tank(s) and Quantity:	1 no. of 20m3 capacity RWH tanks
	Location of the RWH tank(s):	on plot 94/1/1
	Quantity of recharge pits:	Not applicable
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	Rs. 10 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 1 Lakhs
	Details of UGT tanks if any :	1 no. of 20m3 capacity RWH tanks
35.Storm water drainage	**Natural water drainage pattern:**	Towards MIDC road (front side)
	Quantity of storm water:	250 lit/sec
	Size of SWD:	600 mm x 800 mm
Sewage and Waste water	**Sewage generation in KLD:**	15 cmd
	STP technology:	Biological STP
	Capacity of STP (CMD):	15 cmd
	Location & area of the STP:	within plot
	Budgetary allocation (Capital cost):	Rs. 10 Lakhs
	Budgetary allocation (O & M cost):	Rs. 1 Lakhs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Minor quantity of debris/ Demolition waste
	Disposal of the construction waste debris:	Debris/ Demolition waste will be reused for leveling of plot
Waste generation in the operation Phase:	**Dry waste:**	Glass waste- 0.5 TPM, Paper Waste- 0.05 TPM, Cotton waste- 0.05 TPM, E-waste- 2 TPM
	Wet waste:	--
	Hazardous waste:	ETP Waste, Process residue & waste Residue, 30% HCl, Used oil, Spent Carbon and filter medium, Spent Acid, CaCl2 Solution, Empty barrels/ Carboys/ containers / Empty glass bottles/ liners contaminated with hazardous chemicals / waste, Spent Catalyst, Spent Solvent, Inorganic Salt, Off specification products
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	Yes.
	Others if any:	--

Mode of Disposal of waste:	**Dry waste:**	Sale to MoEFCC/ SPCB authorized recyclers / party
	Wet waste:	--
	Hazardous waste:	CHWTSDF/ Sale to authorized Re processor
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	Will be used onsite as manure
	Others if any:	--
Area requirement:	**Location(s):**	Within plot
	Area for the storage of waste & other material:	near ETP area
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 10 Lakh
	O & M cost:	Rs. 10 Lakhs per annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	5.5- 9	6.5 to 9	6.5 to 9
2	Oil and grease	mg/lit	15	< 10	< 10
3	BOD	mg/lit	1000	< 100	< 100
4	TSS	mg/lit	300	< 100	< 100
5	COD	mg/lit	2500	< 250	< 250
6	TDS	mg/lit	4000	< 2100	< 2100

Amount of effluent generation (CMD):	23 cmd
Capacity of the ETP:	20 KLD ETP, 5 KLD MEE/ATFD, 2 nos RO (20 KL & 15 KL)
Amount of treated effluent recycled :	22.6 cmd
Amount of water send to the CETP:	Nil. Unit will be Zero Liquid discharge facility.
Membership of CETP (if require):	--
Note on ETP technology to be used	Low COD & TDS effluent to ETP comprising of Primary, secondary and tertiary treatment. High COD & TDS effluent to RO, MEE & ATFD.
Disposal of the ETP sludge	ETP sludge will be sent to CHWTSDF for disposal.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP sludge, MEE salts	35.3	TPM	--	13	13	CHWTSDF
2	Process residue & waste	28.1	TPM	--	1	1	CHWTSDF
3	Residue	28.1	TPM	--	1	1	CHWTSDF
4	30% HCl	26.3	TPM	--	1.5	1.5	Authorised reprocessor/recycler
5	Used oil	5.1	TPM	--	1	1	Authorised reprocessor/recycler
6	Spent Carbon and filter medium	36.2	TPM	--	1	1	CHWTSDF

7	Spent Acid	26.3	TPM	--	2	2	Authorised reprocessor/recycler
8	CaCl2 Solution	--	TPM	--	1	1	Authorised reprocessor/recycler
9	Empty barrels/ Carboys/ containers /Empty glass bottles / liners contaminated with hazardous chemicals/ waste	33.1	Nos/ month	--	1000	1000	Authorised reprocessor/recycler
10	Spent Catalyst	26.5	TPM	--	0.5	0.5	Authorised reprocessor/recycler
11	Spent Solvent	20.2	TPM	--	1	1	CHWTSDF/Authorized reprocessor
12	Inorganic Salt	B15	TPM	--	1	1	CHWTSDF
13	Off specification products	28.4	TPM	--	1	1	CHWTSDF

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler (2 TPH steam)	Natural Gas: 3400 Nm3/day Or Furnace oil: 3200 Kg/day with scrubber (In case of unavailability of NG)	1	30	0.45	150
2	DG set (750 KVA)	HSD- 225 Lit/Hr	2	5.5 above roof	0.2	150
3	DG set (750 KVA)	HSD- 225 Lit/Hr	3	5.5 above roof	0.2	150
4	Acidic gases vent	--	4	11	As per std	As per std
5	Alkaline gases vent	--	5	11	As per std	As per std

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Natural gas	--	3400 Nm3/ Day	3400 Nm3/ Day
2	Furnace oil	--	3200 kg/ day	3200 kg/ day
3	HSD	--	450 Lit/ Hr	450 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 area: 2632.69 sq. m
	No of trees to be cut :	Not applicable
	Number of trees to be planted :	~ 250 nos.
	List of proposed native trees :	given below
	Timeline for completion of plantation :	As per project development

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Anona squamosa	Custard apple	25	Fast Growing, Evergreen, Round
2	Mimusops elengi	Bakuli	25	Fast Growing, Evergreen, Oblong/ Round
3	Lagerstroemia speciosa	Queen Crape Myrtle	20	Fast Growing, Evergreen, Oblong
4	Polyalthia longifolia	Ashok	25	Fast Growing, Evergreen, Conical/ Rounded
5	Careya arborea	Kumbhi	10	Fast Growing, Evergreen, Spreading
6	Mangifera indica	Mango	20	Fast Growing, Evergreen, Round/ oblong
7	Ficus glomerata	Umber	15	Fast Growing, Evergreen, Spreading
8	Hardwickia binata	Anjan	20	Fast Growing, Evergreen, Spreading
9	Aegle marmelos	Bel	25	Fast Growing, Evergreen, Round/ oblong
10	Feronia elephantum	Kawath	25	Fast Growing, Evergreen, Round/ oblong
11	Azadirachta indica	Neem	40	Fast Growing, Evergreen, Spreading
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)	2000 KVA
	DG set as Power back-up during construction phase	2 DG sets (750 KVA each)
	During Operation phase (Connected load):	2000 KVA (proposed)
	During Operation phase (Demand load):	2000 KVA
	Transformer:	Not applicable
	DG set as Power back-up during operation phase:	2 DG sets of 750 KVA each
	Fuel used:	HSD for DG sets
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

Solar panel installation: 50 KW capacity

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Not applicable	Not applicable

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air emissions	--	Stack height, Scrubber for boiler in case of use of Furnace oil, Scrubbers for process emissions
Effluent generation	--	ETP, RO, MEE & ATFD, STP
Hazardous waste	--	CHWTSDF, Authorized reprocessors

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	EMP budget capital cost: 457 lakhs
	O & M cost:	EMP budget O&M cost: 122 lakhs per annum

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	From Utilities, Process and DG set	12	12
2	Environmental Monitoring	Environmental Monitoring	0	10
3	Water Pollution Control	ETP, RO, MEE & ATFD, STP	250	50
4	Hazardous Waste and Solid waste management	Storage and Disposal of Hazardous waste and Non hazardous waste	10	10
5	Green Belt Development	Development and Maintenance of Green Belt	20	12
6	Occupational Health and Safety	PPE, Safety Tanning	128	25
7	Green initiative	Solar panel installation	27	2
8	Green initiative	Rain water harvesting	10	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
Furnace oil	proposed	Within plot	5	3	96	Local	By road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Not applicable

Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	672 sq.m
	Area per car:	Not applicable
	Area per car:	Not applicable
	Number of 2-Wheelers as approved by competent authority:	Not applicable
	Number of 4-Wheelers as approved by competent authority:	Not applicable
	Public Transport:	Not applicable
	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, Synthetic organic chemical manufacturing facility
	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	05-02-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. PP proposes Zero Liquid Discharge ETP. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes Zero Liquid Discharge Effluent Treatment Plant.
Drainage pattern of the project	PP considered contour levels during design of storm water drains.

Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits
Solid Waste Management	PP committed to dispose the hazardous waste at Common Hazardous Waste Treatment, Storage, and Disposal Facility and sale to Authorized vendors. Details are given at Sr. No. 38 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for project is 2000 KVA which will be supplied by MSEDCL. PP proposes two DG sets with capacity 750 KVA
Traffic circulation system and risk assessment	PP proposes internal roads with minimum six meter width and nine meters of turning radius for smooth circulation of traffic.
Landscape Plan	PP proposes to provide 33% green belt within the premises.
Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment and submitted DMP.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes Rs. 457.00 Lakhs as capital cost and Rs. 122.00 Lakhs as recurring EMP cost for the maintenance of environmental parameters during operation phase.
Any other issues related to environmental sustainability	PP to provide adequate capacity scrubbers to the process vents to mitigate air pollution.

Brief information of the project by SEAC

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

The proposal was considered in the 163rd meeting of SEAC-1 held on 15.03.2019 wherein ToR was granted to the PP.

The proposal was further considered in the 166th meeting of SEAC-1 held on 27.05.2019 wherein PP remained absent. PP requested for change in the ToR and the proposal was considered in the 167th meeting held on 11.07.2019 wherein change in ToR was granted to the PP.

Now, PP submitted EIA/EMP report for appraisal.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to implement the Guidelines for restoration of manufacturing industries after lockdown period issued by Ministry of Home Affairs, National Disaster Management Authority on 09.05.2020.
2) PP to provide adequate capacity scrubbers to the process vents to mitigate air pollution.
3) PP to obtain CHWTSDF permission before commissioning of the project.
4) PP to provide Continuous Emission Monitoring System (CEMS) for monitoring of air emissions and connect the same to the MPCB and CPCB servers.
5) PP to provide sewage treatment plant for the treatment of domestic sewage generated on site.
6) PP to implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.

FINAL RECOMMENDATION

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

183rd Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 183rd - Day-1 **Meeting Date** May 11, 2020

Subject: Environment Clearance for Proposed API Intermediate manufacturing unit (M/s Chemiker Pharmaceuticals Private Ltd.)

Is a Violation Case: No

1.Name of Project	PROPOSED API INTERMEDIATE MANUFACTURING UNIT (456 TPA) (M/s Chemiker Pharmaceuticals Private Ltd.)
2.Type of institution	Private
3.Name of Project Proponent	Mr. Shyam Titirmare
4.Name of Consultant	Anacon Laboratories Private Limited, Nagpur
5.Type of project	Manufacturing of API intermediates
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Notified Industrial Area, MIDC Butibori, Plot no. G-95/1, Village: Kirmiti, Tehsil Hingna, District Nagpur-441 122, Maharashtra.
9.Taluka	Hingna
10.Village	Kirmiti
Correspondence Name:	Mr. Shyam Titirmare
Room Number:	NA
Floor:	NA
Building Name:	NA
Road/Street Name:	NA
Locality:	Notified Industrial Area, MIDC Butibori, Plot no. G-95/1, Village: Kirmiti, Tehsil Hingna, District Nagpur-441 122, Maharashtra.
City:	Nagpur
11.Whether in Corporation / Municipal / other area	Notified Industrial Area, MIDC Butibori , Nagpur (MS)
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 847.418
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NOC from MIDC
15.Total Plot Area (sq. m.)	2000 Sq.M.
16.Deductions	NA
17.Net Plot area	NA
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 617.648
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 617.648
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 06-01-2020
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	50000000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	NA
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	NA
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5
29.Existing structure (s) if any	200 sq.m
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	2,7-dichloro –a (dibutyl amino) methyl -9H-fluorene-4-methanol (DBA)	0	24.42	24.42
2	Tert-Butyl [(1S,2R)-1-benzyl-2-hydroxy-3-(isobutyl amino)propyl]carbamate	0	2.75	2.75
3	4-(2-Aminoethyl) phenol	0	5	5
4	Methyl 2-(1,8-diethyl-1,3,4,9-tetrahydropyrano[3,4-b]indol-1-yl)acetate	0	5	5
5	Tetra methyl-1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetate	0	0.79	0.79

32.Total Water Requirement

Dry season:	**Source of water**	MIDC, Butibori
	Fresh water (CMD):	5.5 (daily make up water)
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	3
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	20 (Intake Day1 Requirement) • Domestic - 3.5 • Industrial Cooling Tower - 5.0 • Hot water generator– 11.5
	Fire fighting - Underground water tank(CMD):	60 KL (Dimension: 4.5x3.9x3.5=61.425m3.)
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Wet season:	**Source of water**	MIDC, Butibori
	Fresh water (CMD):	5.5 (daily make up water)
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	3
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	20 (Intake Day1 Requirement) • Domestic - 3.5 • Industrial Cooling Tower - 5.0 • Hot water generator– 11.5
	Fire fighting - Underground water tank(CMD):	60 KL (Dimension: 4.5x3.9x3.5=61.425m3.)
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	0	3.5	3.5	0	0.5	0.5	0	3.0	3.0
Industrial Process	0	0	0	0	0	0	0	0	0
Cooling tower & thermopack	0	2.0	2.0	0	2.0	2.0	0	-	-

Fresh water requirement	0	5.5	5.5	0	2.5	2.5	0	3	3

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre-monsoon season ranges from 5-10 mbgl and in Post-monsoon season ranges from 2-5 mbgl
	Size and no of RWH tank(s) and Quantity:	1.625 sqm one, approx. 946.39556 cum/year
	Location of the RWH tank(s):	Within plant area
	Quantity of recharge pits:	1
	Size of recharge pits :	1.625 sqm
	Budgetary allocation (Capital cost) :	3.5 lakhs
	Budgetary allocation (O & M cost) :	0.5lakhs
	Details of UGT tanks if any :	60 KL RCC tank, water underground storage tank should be used exclusively for Fire Fighting. Dimension: 4.5x3.9x3.5=61.425m3
35.Storm water drainage	**Natural water drainage pattern:**	The industry is located in Butibori MIDC area where all the facilities are made available by MIDC. The land is having gentle slope and dendritic drainage pattern
	Quantity of storm water:	946.395 m^3
	Size of SWD:	300 MM
Sewage and Waste water	**Sewage generation in KLD:**	3.0
	STP technology:	MBBR technology
	Capacity of STP (CMD):	one no. and 4 KLD
	Location & area of the STP:	Within plant area and 4.03 sqm
	Budgetary allocation (Capital cost):	14 lakhs
	Budgetary allocation (O & M cost):	3 lakhs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Topsoil and other construction waste
	Disposal of the construction waste debris:	Topsoil removed during the leveling will be stacked separately and will be used during the greenbelt development
Waste generation in the operation Phase:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	1.Process Residues and organic Waste 22.03 TPA, 2.-Discarded container HDPE-10 drums, MS -20 drums, 3.Process Residues and inorganic salt 15.32 TPA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	Cooling tower will be cleaned fully once in a month and accumulated dust/suspended particles (max 5 kg)

Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	1. Process Residues and organic Waste disposed as Incineration at TSDF site, 2. Discarded container: Drums will be sent back to supplier for refilling. 3. Process Residues and inorganic salt Disposal by Sale to authorized recycler.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	will be disposed off in garden
Area requirement:	**Location(s):**	Organic waste area
	Area for the storage of waste & other material:	16.0SQM
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	5 lakhs
	O & M cost:	1 lakh

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):	1 kl/month
Capacity of the ETP:	NA
Amount of treated effluent recycled :	No effluent treatment
Amount of water send to the CETP:	1 kl/month
Membership of CETP (if require):	CPPL will get CETP membership after getting CTO letter
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	Process Residues and organic Waste	1.4	TPA	NA	Process (DBA)	14.79	Incineration at TSDF site
2	Process Residues and organic Waste	1.4	TPA	NA	Tert-Butyl [(1S,2R)-1-benzyl-2-hydroxy-3-(isobutyl amino)propyl]carbamate	3.01	Incineration at TSDF site
3	Process Residues and organic Waste	1.4	TPA	NA	4-(2-Aminoethyl) phenol	1.71	Incineration at TSDF site
4	Process Residues and organic Waste	1.4	TPA	NA	Methyl 2-(1,8-diethyl-1,3,4,9-tetrahydropyrano[3,4-b]indol-1-yl)acetate	2.52	Incineration at TSDF site
5	Process Residues and inorganic salt	28.1	TPA	NA	Tetra methyl-1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetate	15.32	Sale to authorized recycler
6	Discarded HDPE and MS container	33.1	TPA	NA	Production	10 and 12	Drums will be sent back to supplier for refilling.

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	Hot water generator (400000kcal/hr –less than 1 ton)	Briquette	1	15	0.5	140 degC
2	DG Set	HSD	1	6	0.2	200 deg C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Briquette	NA	151 kg/hr	151 kg/hr
2	HSD	NA	44 L/H	44 L/H
41.Source of Fuel		Nearest Fuel Station & Nearby Market		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	NA
	No of trees to be cut :	NA
	Number of trees to be planted :	110
	List of proposed native trees :	List of Recommended species is attached in Document Section.
	Timeline for completion of plantation :	5 Years

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

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

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	160 KVA
	During Operation phase (Demand load):	NA
	Transformer:	NA
	DG set as Power back-up during operation phase:	175 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

• Energy efficient machineries shall be used during operation phase.
• For domestic purpose solar system will be used
• Minimum light points and power consuming apparatus will be proposed.
• Energy efficient LED fittings will be proposed in the street lighting
• Energy saving shall be made by the use of electronic timers in the automatic off/on operation of the street lighting.
• Purchase of energy efficient appliances
• Solar lighting will be proposed for landscape, street lighting, parking areas
• Adjusting the settings and illumination levels to ensure minimum energy used for desired comfort levels
• Use of compact fluorescent lamps and low voltage lighting
• Solar photovoltaic systems: Solar power will be planned 6 KVA + 6 KVA. Solar lighting will be proposed for landscape, street lighting, parking areas.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	All above energy saving measures	10-25%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	NA	Dust Collector
Water	NA	STP and softening plant
Hazardous Waste	NA	Sent to TSDF

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	12 lakhs
	O & M cost:	0.5lakh

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	NA	NA	NA

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Environmental Monitoring	Environmental Monitoring	-	12
2	Air Pollution	Dust collector	18	5
3	Water Pollution	STP+softening plant	14	3
4	Rain water harvesting	Rain water harvesting structure	3.5	0.5
5	Solid /Hazardous Waste Management	TSDF	6	1
6	Occupational Health and Noise Pollution	Health Care and PPE for workers	4	1
7	Green Belt	Native Species will be planted	5	1
8	Energy conservation	Solar photovoltaic systems And LED	12	0.5

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
Methanol	Plant day Tank	Plant	5 ton	5 ton	-	Thane, Maharashtra	Road(by tanker)
Butanol	Storage Tank	Storage Area	8 ton	8 ton	-	Thane, Maharashtra	Road(by tanker)
MDC	Storage Tank	Storage Area	5 ton	5 ton	-	Bhivendi-Thane, Maharashtra	Road 200litr drums
Acetonitrile	Plant day Tank	Plant	2 ton	1.5 ton	-	Mumbai, Maharashtra	Road 200litr drums
Toluene	Plant day Tank	Plant	3 ton	2 ton	-	Bhivendi-Thane, Maharashtra	Road 200litr drums
Diphenyl ether	Drum	Storage Area	2 ton	2 ton	-	Vapi, Gujrat	Road 200litr drums
N-methyl pyrrolidone	Drum	Storage Area	2 ton	2 ton	-	Vapi, Gujrat	Road 200litr drums

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	MIDC road of 30.0 meter wide to the North side of plant and 20.0 meter wide on eastern and southern

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	178.559 sq.m.
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	6
	CRZ/ RRZ clearance obtain, if any:	No
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No
	Category as per schedule of EIA Notification sheet	B1
	Court cases pending if any	No
	Other Relevant Informations	No
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	25-02-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement
Waste Water Treatment	PP has informed that, no waste water will be generated during manufacturing process. PP to obtain CETP permission for discharge of utility and floor cleaning/equipment cleaning waste water.
Drainage pattern of the project	PP considered contour levels during design of storm water drains.

Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits.
Solid Waste Management	PP committed to dispose the hazardous waste at Common Hazardous Waste Treatment, Storage, and Disposal Facility and sale to Authorized vendors. Details are given at Sr. No. 38 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for project is 160 KVA which will be supplied by MSEDCL. PP proposes DG set with capacity 175 KVA
Traffic circulation system and risk assessment	PP proposes internal roads with minimum six meter width and nine meters of turning radius for smooth circulation of traffic.
Landscape Plan	PP proposes to provide 33% green belt within the premises.
Disaster management system and risk assessment	PP carried out Risk Assessment and prepared emergency plan. PP to ensure to provide internal road network for the movement of fire tender.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes Rs 62.50 Lakhs as capital cost and Rs. 24.00 Lakhs as recurring EMP cost for the maintenance of environmental parameters during operation phase.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

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

The proposal was considered in the 165th meeting of SEAC-1 held on 06.05.2019 wherein ToR was granted to the PP.

PP submitted EIA/EMP report and the proposal was further considered in the 172nd & 177th meeting of SEAC-1 held on 21.11.2019 and 07.02.2020 wherein PP the proposal was deferred due to submission of inadequate information.

Now, PP submitted information for appraisal.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to implement the Guidelines for restoration of manufacturing industries after lockdown period issued by Ministry of Home Affairs, National Disaster Management Authority on 09.05.2020.
2) PP to provide adequate capacity scrubbers to the process vents to mitigate air pollution.
3) PP to obtain CHWTSDF permission before commissioning of the project.
4) PP to provide Continuous Emission Monitoring System (CEMS) for monitoring of air emissions and connect the same to the MPCB and CPCB servers.
5) PP to ensure use of briquette as a fuel to the utilities.
6) PP to provide sewage treatment plant for the treatment of domestic waste water.
7) PP to obtain CETP permission for discharge of utility and floor cleaning/equipment cleaning waste water as no waste water generates from the process
8) PP to ensure to obtain PESO approval for storage of flammable and toxic chemicals on site.
9) PP to prepare & implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.

FINAL RECOMMENDATION

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

183rd Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 183rd - Day-1 **Meeting Date** May 11, 2020

Subject: Environment Clearance for Environmental Clearance for the production of Pharmaceutical Excipients by G. M Chemical at plot no. C-233 and 234, TTC Industrial area, MIDC Pawane, Turbhe, Navi Mumbai

Is a Violation Case: No

1.Name of Project	Environmental Clearance for the production of Pharmaceutical Excipients by G. M Chemical at plot no. C-233 and 234, TTC Industrial area, MIDC Pawane, Turbhe, Navi Mumbai
2.Type of institution	Private
3.Name of Project Proponent	G.M. Chemical- Mr. Dhaval Mehta
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd.; Plot No. F7, Road No.21, Wagle MIDC area, Near Ashida Electronics, Thane West 400604
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. C-233 & 234
9.Taluka	Thane
10.Village	Turbhe
Correspondence Name:	Mr. Dhaval Mehta
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	Plot No. C-233 & C-234
Locality:	MIDC Pawane, TTC Industrial area
City:	Navi Mumbai
11.Whether in Corporation / Municipal / other area	MIDC Pawane
12.IOD/IOA/Concession/Plan Approval Number	Approval from Maharashtra Industrial Development Corporation
	IOD/IOA/Concession/Plan Approval Number: Approval from MIDC through letter no. DE/ MHP (C) I/C-233/B27799 dated 12.04.2018
	Approved Built-up Area: 1475
13.Note on the initiated work (If applicable)	The Factory Building has been constructed. The Equipments will be installed and plant will be commissioned only after obtaining Environmental Clearance.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	Not applicable
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 1475
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 12-04-2018
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	100000000

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	Not applicable
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Cellulose Acetate Pthalate	-	200	200
2	Hypromellose Pthalate	-	300	300
3	Poly Vinyl Acetate Pthalate	-	50	50
4	Cellulose Acetate Trimellitate	-	50	50

32.Total Water Requirement

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

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	0	2	2	0	0.2	0.2	0	1.8	1.8
Industrial Process	0	120	120	0	12	12	0	108	108
Cooling tower & thermopack	0	30	30	0	0.3	0.3	0	29.7	29.7
Gardening	0	10	10	0	10	10	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2-2.5 m
	Size and no of RWH tank(s) and Quantity:	1 no. of tank ; 2.5 m x 2.5 m x 2 m with 10 m3 of capacity
	Location of the RWH tank(s):	Back side of the plot
	Quantity of recharge pits:	-
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	Rs. 3 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 10,000/ annum
	Details of UGT tanks if any :	Domestic Tank: 40 m3 Fire Tank: 20 m3
35.Storm water drainage	**Natural water drainage pattern:**	Natural drainage pattern has not been disturbed
	Quantity of storm water:	1.99 m3/s
	Size of SWD:	304 mm x 304 mm
Sewage and Waste water	**Sewage generation in KLD:**	15 m3/day
	STP technology:	Septic tank
	Capacity of STP (CMD):	-
	Location & area of the STP:	-
	Budgetary allocation (Capital cost):	Rs. 1 Lakh
	Budgetary allocation (O & M cost):	Rs. 10,000

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:**	3 kg/day
	Wet waste:	4.5 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	28.1 Process residue waste: 3 kg/day ; 35.3 Chemical sludge from waste water treatment: 2 kg/day ; Paper bags: 5 kg/day; Fiber board drums: 100 kg/day ; Recycled Plastic bags: 5 kg/day

Mode of Disposal of waste:	**Dry waste:**	Handed over to NMMC after segregation
	Wet waste:	Handed over to NMMC after segregation
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	28.1 Process residue waste: handed over to TTCWMA; 35.3 Chemical sludge from waste water treatment: handed over to TTCWMA; Paper: Sent to authorized recycler; Fiber board drums: Sent to authorized recycler ; Recycled Plastic bags: Sent to authorized recycler
Area requirement:	**Location(s):**	Scrap storage area
	Area for the storage of waste & other material:	9.2 m2
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 10,000
	O & M cost:	-

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	4.0-8.0	5.5-9.0	5.5-9.0
2	Total Suspended Solids	mg/l	403	100	100
3	Chemical Oxygen Demand	mg/l	6540	250	250
4	Biochemical Oxygen Demand	mg/l	1956	30	30
5	Total Dissolved Solids	mg/l	830	2100	2100
6	Oil and Grease	mg/l	61	10	10

Amount of effluent generation (CMD):	108 m3/day
Capacity of the ETP:	120 m3/day
Amount of treated effluent recycled :	Nil
Amount of water send to the CETP:	98 m3/day
Membership of CETP (if require):	Membership of TTC CETP will be obtained
Note on ETP technology to be used	MBBR
Disposal of the ETP sludge	The ETP Sludge will be disposed through TTCWMA

38.Hazardous Waste Details

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

39.Stacks emission Details

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

1	Baby Boiler	Natural Gas	1	17 m	0.32 m	100 c

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Natural Gas	-	5000 units/ month	5000 units/ month
41.Source of Fuel		Mahanagar Gas		
42.Mode of Transportation of fuel to site		Pipeline		

43.Green Belt Development	**Total RG area :**	450 m2
	No of trees to be cut :	Nil
	Number of trees to be planted :	20
	List of proposed native trees :	Cocos Nucifera, Mangifera Indica, Musa Acuminata, Pletophorum Pterocarpum, Saraca Asoca, Ficus Religiosa, Termilania Catappa, Azadirachta Indica
	Timeline for completion of plantation :	Already planted

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	Cocos Nucifera	Coconut	9	Fruit bearing tree
2	Mangifera Indica	Mango	2	It is a large fruit-tree, capable of a growing to a height and crown width of about 100 feet and trunk circumference of more than twelve feet
3	Musa Acuminata	Banana	2	Fruit bearing tree
4	Pletophorum Pterocarpum	Copper pod	2	It is deciduous tree growing 15-25m, it is widely grown in tropical regions as an ornamental tree
5	Saraca Asoca	Ashoka	2	The Ashoka is a rain-forest tree Its flowering season is around February to April. The Ashoka flowers come in heavy, lush bunches. They are bright orange yellow in color, turning red before wilting
6	Ficus Religiosa	Peepal	1	Ficus religiosa is used in traditional medicine for about 50 types of disorders including asthma, diabetes, diarrhea, epilepsy, gastric problems, inflammatory disorders, infectious and sexual disorders.
7	Termilania Catappa	Badam	1	Terminalia catappa is a large tropical tree The tree grows to 35 m The fruit is edible, tasting slightly acidic
8	Azadirachta Indica	Neem	1	Medicinal tree
45.Total quantity of plants on ground				

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

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

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):	149 kW
	During Operation phase (Demand load):	149 kW
	Transformer:	-
	DG set as Power back-up during operation phase:	1x 150 kW
	Fuel used:	Natural Gas
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Use of energy efficient, BEE labeled electrical fixtures, in the building

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	-	-

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 20 Lakhs
	O & M cost:	Rs. 20,000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for dust	Water sprinkling	0.20
2	Site Sanitation	Septic tank	0.10
3	Personal Protective Equipment	Jackets, Safety shoes, Helmets	0.20

4	Landscape	Plantation and Maintenance	0.10
5	First Aid Facilities	First Aid Kit	0.10

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Effluent Treatment Plant	ETP having capacity 120 m3/day	25	2
2	Landscape Development	Plantation	1	0.5
3	Solid Waste Management	-	0.1	-
4	Rain water Harvesting	Channelizing and maintenance of rain water harvesting	3	0.10
5	Storm Water drain	Channelizing and maintenance of Storm water drainage line	2	0.5
6	Environment Monitoring	Air, Water, Soil and Noise Monitoring	-	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
-	-	-	-	-	-	-	-

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 nos.

Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	-
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	3 nos.
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Not Applicable
	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	B
	Court cases pending if any	None
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

During deliberations, PP requested to delist the proposal.

DECISION OF SEAC

As per request of PP, SEAC-1 decided to delist the propsal

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.