

156th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 156th ,Day-1 **Meeting Date** October 4, 2018

Subject: Environment Clearance for Aarti Industries Limited . Plot No. 55, 56, 57, 59 & 60 M.I.D.C. phase II Dombivali, Dist.- Thane


Is a Violation Case: No

1.Name of Project	Proposed expansion project of manufacturing of API intermediates and Specialty Chemicals
2.Type of institution	Private
3.Name of Project Proponent	Mr. Narendra Salvi
4.Name of Consultant	Goldfinch Engineering Systems Private Limited, Thane
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot No. D- 55, 56, 57, 59 & 60
9.Taluka	Kalyan
10.Village	Sagarli
11.Area of the project	Municipal corporation
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 1914
13.Note on the initiated work (If applicable)	Nil
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	3760 m2
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.):
	Approved Non FSI area (sq. m.):
	Date of Approval:
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	322800000

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


Abhay Pimparkar (Secretary
SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 1 of
98**


Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat
(Chairman SEAC-I)

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))	NA
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	Bambuterol Hydrochloride	00	0.42	0.42
2	R-Salbutamol Sulphate	00	0.83	0.83
3	Deferiprone	00	0.42	0.42
4	Ranolazine	0.2	(-)0.2	00
5	Phenylpherine Hydrochloride	0.4	0.85	1.25
6	Budesonode (TTR)	0.03	(-)0.03	00
7	PAN-IV (1E,16?,17?,21-Tetrahydroxy pregna-1,4-dine-3,20-dione.)	0.03	(-)0.03	00
8	FLY -X (N-[(S)-1-Carboxy-1-butyl]- (S)-alanine)	0.03	0.29	0.32
9	BA - III (N-[4-cyano-3-(trifluoromethyl)phenyl]-2-methyl[(4-fluorophenyl)-thio]]-2-hydroxy-2-methylpropanamide)	0.03	(-)0.03	00
10	TV-INT (Ethyl, R-(+)-(4-nitrobenzenesulfonyloxy)-4-phenyl butyrate)	0.03	0.47	0.5
11	Peridopril Erbumine	00	0.17	0.17
12	TTR IV ((1E,16?,17?,21-Tetrahydroxy pregna-1,4-dine-3,20-dione.)	00	0.1	0.1
13	FLY VIII (Benzyl(2S,3aS,7aS)-Octahydro-1H-Indole-2-carboxylate 4-Methylbenzenesulfonate)	00	0.43	0.43
14	PR-38 - 4-[2-(1-Azepanyl)Ethoxy] Benzyl Chloride Hydrochloride	--	--	--
15	PR-86 - t-butyl-hydroxycyclohexyl methacrylate	--	--	--
16	PR-88 - (2,3,4,6-TETRA-O-BENZYL-D-GALACTOSE)	--	--	--
17	PR-89 - ((S)-1-BOC-3-HYDROXY PIPERIDINE)	--	--	--
18	PR-91 - (S)-2-AMINO-5-METHOXYTETRALINE HYDROCHLORIDE	--	--	--
19	PR-92 - (S)-1,2,3,4-Tetrahydro-5-methoxy -N-propyl-2-naphthalenamine hydrochloride	--	--	--
20	PR-115 (N-Decyl-N,N-Dimethyl-3- Ammonio-1 -propane- Sulphonate)	--	--	--
21	PR-116 (S)-(TETRAHYDROFURAN-3-YL) HYDRAZINE HYDROCHLORIDE	--	--	--
22	PR-156 - (2-Bromo-4-nitro imidazole)	--	--	--
23	PR-178 - (S,S)-2,8-Diazabicyclo[4.3.0]nonane	--	--	--
24	PR-179-(3-HYDROXY-N-METHYL-3-PHENYL-PROPYLAMINE	--	--	--
25	PR-181 - CHLOROMETHYL CHLORO SULFATE	--	--	--
26	Note - Combine production capacity of PR-38,PR-86,PR-88,PR-89,PR-91, PR-92, PR-115,PR-116,PR-156,PR-178,PR-179,PR-181, will be 2.25 TPM	00	2.25	2.25
27	Total	0.748	5.922	6.67

32. Total Water Requirement


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018


Page 2 of 98

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

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)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	5.5	13	18.5	1.1	2.9	4	4.4	10.1	14.5
Industrial Process	21	14	35	8.6	5.8	14.4	12.4	8.2	20.6
Cooling tower & thermopack	4	1.5	5.5	3.2	1.2	4.4	0.8	0.3	1.11
Gardening	2	4	6	2	4	6	0	0	0


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
 October 4, 2018**

**Page 3 of
 98**

Signature: 
**Name: Dr. Umakant Dangat
 (Chairman SEAC-I)**

Fresh water requirement	32.5	37.5	65	14.9	13.9	28.8	17.8	18.6	36.2
-------------------------	------	------	----	------	------	------	------	------	------

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	will submit in EIA report
	Size and no of RWH tank(s) and Quantity:	will submit in EIA report
	Location of the RWH tank(s):	will submit in EIA report
	Quantity of recharge pits:	will submit in EIA report
	Size of recharge pits :	will submit in EIA report
	Budgetary allocation (Capital cost) :	will submit in EIA report
	Budgetary allocation (O & M cost) :	will submit in EIA report
Details of UGT tanks if any :	1. Methanol (25 KL) 2. IPA (25 KL) 3. Toluene (25 KL) 4. Acetone (25 KL) 5. Ethyl Acetate (25 Kl)	

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

Sewage and Waste water	Sewage generation in KLD:	20
	STP technology:	Conventional technology will be used
	Capacity of STP (CMD):	1 No. 25 CMD
	Location & area of the STP:	Near ETP
	Budgetary allocation (Capital cost):	Rs 2500000
	Budgetary allocation (O & M cost):	100000

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	Nil
	Disposal of the construction waste debris:	Nil
Waste generation in the operation Phase:	Dry waste:	NA
	Wet waste:	NA
	Hazardous waste:	kindly refer point no. 45
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	250 kg
Others if any:	NA	


Mode of Disposal of waste:	Dry waste:	NA
	Wet waste:	NA
	Hazardous waste:	CHWTSDF, MWML, Taloja
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be use as manure for gardening
	Others if any:	NA
Area requirement:	Location(s):	Production Area, Raw Material & Products Storage Area, Office Building, STP & ETP , Parking
	Area for the storage of waste & other material:	Dedicated area is allocated near ETP
	Area for machinery:	1914 m2
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs 342300000
	O & M cost:	Rs 3400000

37. Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	7-8	ZLD	5.5-9.0
2	BOD	mg/lit	2500-3500	ZLD	<100
3	COD	mg/lit	5000-6000	ZLD	<250
4	TDS	mg/lit	2000-300	ZLD	<2100
5	Oil & Grease	mg/lit	<20	ZLD	<10
Amount of effluent generation (CMD):		21.7 CMD			
Capacity of the ETP:		35 CMD			
Amount of treated effluent recycled :		35 CMD			
Amount of water send to the CETP:		ZLD			
Membership of CETP (if require):		Yes			
Note on ETP technology to be used		Primary, Secondary, Tertiary , MEE & ZLD			
Disposal of the ETP sludge		CHWTSDF			


38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Carbon	28.2	MTPA	6.18	00	6.18	CHWTSDF
2	Spent Mother Liquor	28.4	MTPA	12	6	18	Sale to authorized party
3	ETP Sludge	34.3	MTPA	8.6	8.1	16.7	CHWTSDF
4	MEE Salts	37.3	MTPA	90	179	269	CHWTSDF
5	Distillation Residue	20.3	MTPA	0	1.2	1.2	CHWTSDF
6	Process Waste & Residue	28.1	MTPA	0	3	3	CHWTSDF
7	Contaminated Filter Bags	36.1	MTPA	0	1.2	1.2	CHWTSDF


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 5 of 98

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

8	Used/spent oil	5.1	MTPA	0	5.4	5.4	Sale to authorized party
---	----------------	-----	------	---	-----	-----	--------------------------

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 (one stand by & one operating)	FO = 2.04 T/Day	01 combined stack	30	0.4	125 deg. C
2	Thermo pack (one stand by & one operating)	LDO = 510 lit/day	01 combined stack	22	0.25	150 deg. C
3	DG Sets (no 02)	HSD = 600 lit/month	042separate stack	4.2-5	0.15	135 deg. C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	L.D.O	150 lit/day	360 lit/day	510 lit/day
2	FO	00	2040 kg/day	2040 Kg/day
3	HSD	420 lit/month	180 lit/month	600 lit/month
41.Source of Fuel		Oil companies		
42.Mode of Transportation of fuel to site		By Road		

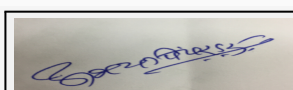
43.Green Belt Development

Total RG area :	612 sq. m.
No of trees to be cut :	No tree will be cut
Number of trees to be planted :	150
List of proposed native trees :	Tectona grandis, terminalia arjuna, Ficus bengalensis, Ficus religiosa, Azardirachta indica, Sizigium cumini, Cassia fistula, Bougainvillea spectabilis, Lantana camara, etc.
Timeline for completion of plantation :	Within Five year

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	Terminalia arjuna	Arjun	25	pollution resistant and Native
2	Tectona grandis	Teak, saag	25	pollution resistant and Native
3	ficus bengalensis	Vaad	7	pollution resistant and Native
4	Ficus religiosa	Pimpal	8	pollution resistant and Native
5	Azardirachta indica	Neem	15	pollution resistant and Native
6	Syzigium cumini	Jamun	15	pollution resistant and Native
7	cassia fistula	Bahava	15	pollution resistant and Native
8	Bougainvillea spectabilis	Bouganvel	15	pollution resistant and Native
9	Lantana camara	Ghaneri	25	pollution resistant and Native

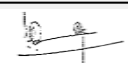
45.Total quantity of plants on ground



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 6 of 98

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

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):	Existing : 500 KW ;Proposed : 1060 KW
	During Operation phase (Demand load):	Existing : 350 KW; Proposed : 750 KW
	Transformer:	Existing : 515 KVA ;Proposed : 1130 KVA
	DG set as Power back-up during operation phase:	Existing 02 DG with capacity 250 KVA (2 No.) ; 200 KVA (1 no); 250 KVA Replaced by 380 KVA
	Fuel used:	HSD
Details of high tension line passing through the plot if any:	No high tension line passing through through the plot	

48.Energy saving by non-conventional method:

Nil

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	Stack of adequate height	Stack of adequate height
Water	ETP ,RO and MEE	ETP ,RO and MEE
Noise	Acoustic enclosure	Acoustic enclosure
Solid Waste	Disposal to MWML	Disposal to MWML

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	35 lac
	O & M cost:	7 lac

51.Environmental Management plan Budgetary Allocation**a) Construction phase (with Break-up):**

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



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 7 of 98

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

1	NA	NA	NA
b) Operation Phase (with Break-up):			
Serial Number	Component	Description	Capital cost Rs. In Lacs
1	Air pollution control	2 no. stacks	10
2	Water Pollution	ETP	340
3	Domestic Effluent	STP	20
4	Noise	Acoustic enclosures	5
5	Process emissions	3 no. Scrubbers	16.5
Operational and Maintenance cost (Rs. in Lacs/yr)			
			0.5
			16
			1
			nil
			3.3

51.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
Methanol	Liquid	Under Ground	25 KL	25 KL	20	Local	Road
IPA	Liquid	Under Ground	25 KL	25 KL	10	Local	Road
Toluene	Liquid	Under Ground	25 KL	25 KL	5	Local	Road
Acetone	Liquid	Under Ground	25 KL	25 KL	20	Local	Road
Ethyl Acetate	Liquid	Under Ground	25 KL	25 KL	5	Local	Road
Ammonia	Liquid	Tank farm	5 KL	5 KL	1	Local	Road
MDC	Liquid	Tank Farm	5 KL	5 KL	2	Local	Road
Acetic Anhydride	Liquid	Tank Farm	5 KL	5 KL	1	Local	Road

52.Any Other Information

No Information Available


53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Nil
--	---	-----


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018


Page 8 of 98

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Parking details:	Number and area of basement:	Nil
	Number and area of podia:	Nil
	Total Parking area:	414
	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):	3 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	no protected area in 10 km circle
	Category as per schedule of EIA Notification sheet	5 (F) B (1)
	Court cases pending if any	Nil
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
1. Name of Project	Proposed expansion project of manufacturing of API intermediates and Specialty Chemicals	Environmental Clearance for proposed expansion project of manufacturing of API, API intermediates and Specialty Chemicals Plot No. 55, 56, 57, 59 & 60 M.I.D.C. phase II Dombivli, Dist.- Thane
3. Name of Project Proponent	Mr. Narendra Salvi	Mr. Narendra Salvi, Aarti Industries Limited
5. Type of Project	Not Applicable	Industrial
11. Area of the project	Municipal corporation	M.I.D.C. phase II Dombivli
18. Proposed Built-up Area (FSI & No-FSI)	FSI area (sq. m.): Not applicable Non FSI area (sq. m.): Not applicable Total BUA area (sq. m.):	FSI Area (Sq. m): 99.77 Non FSI Area (Sq. m): -361.0 Total BUA Area (Sq. m): -261.23
19. Total Ground Coverage (M2)	Not applicable	1255.44
20. Ground-coverage percentage (%) (Note: Percentage of plot not open to sky)	Not applicable	33.3%
21. Estimated cost of the project (In Lacs)	322800000	395000000



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 9 of 98


Signature: 
Name: Dr. Umakant Dangat
(Chairman SEAC-I)

27. Right of way (Width of the road from the nearest fire station to the proposed building(s))	NA	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	9 m
29. Existing structure (s) if any	Not applicable	Manufacturing area, utility area, storage area, etc.
31. Production Details	1. Bambuterol Hydrochloride: Existing 00 MT/M, Proposed 0.42 MT/M, Total 0.42 MT/M	1. Bambuterol Hydrochloride: Existing 00 TPA, Proposed 5.0 TPA, Total 5.0 TPA
31. Production Details	2. R-Salbutamol Sulphate Existing 00 MT/M, Proposed 0.83 MT/M, Total 0.83 MT/M	2. R-Salbutamol Sulphate Existing 00 TPA, Proposed 10 TPA, Total 10 TPA
31. Production Details	3. Deferiprone Existing 00 MT/M, Proposed - 0.42 MT/M, Total - 0.42 MT/M	3. Deferiprone Existing 00 TPA, Proposed - 5 TPA, Total 5 TPA
31. Production Details	4. Ranolazine Existing 0.2 MT/M, Proposed - (-) 0.2 MT/M, Total - 0.00 MT/M	4. Ranolazine Existing 2.4 TPA, Proposed - (-)2.4 TPA, Total 00 TPA
31. Production Details	5. Phenylperine Hydrochloride Existing 0.4 MT/M, Proposed - 0.85 MT/M, Total - 1.25 MT/M	5. Phenylperine Hydrochloride Existing 4.8 TPA, Proposed - 10.2 TPA, Total 15 TPA
31. Production Details	6. Budesonode (TTR) Existing 0.03 MT/M, Proposed - (-) 0.03 MT/M, Total - 00 MT/M	6. Budesonode (TTR) Existing 0.3552 TPA, Proposed - (-) 0.3552 TPA, Total 00 TPA
31. Production Details	7.PAN-IV(18,167,177,21-Tetrahydroxy pregna-1,4-dine-3,20-dione.) Existing 0.03 MT/M, Proposed - (-) 0.03 MT/M, Total - 00 MT/M	7.PAN-IV(18,167,177,21-Tetrahydroxy pregna-1,4-dine-3,20-dione.) Existing 0.3552 TPA, Proposed - (-) 0.3552 TPA, Total 00 TPA
31. Production Details	8. FLY -X (N-[(S)-1-Carboxy-1-butyl]-[S]-alanine) Existing 0.03 MT/M, Proposed -0.29 MT/M, Total - 0.32 MT/M	8. FLY -X (N-[(S)-1-Carboxy-1-butyl]-[S]-alanine) Existing 0.3552 TPA, Proposed - 3.4448 TPA, Total 3.8 TPA
31. Production Details	9. BA - III (N-[4-cyano-3-(trifluoromethyl)phenyl]-2-methyl[(4-fluorophenyl)-thio]-2-hydroxy-2-methylpropanamide) Existing 0.03 MT/M, Proposed - (-) 0.03 MT/M, Total - 00 MT/M	9. BA - III (N-[4-cyano-3-(trifluoromethyl)phenyl]-2-methyl[(4-fluorophenyl)-thio]-2-hydroxy-2-methylpropanamide) Existing 0.3552 TPA, Proposed - (-) 0.3552 TPA, Total 00 TPA
31. Production Details	10. TV-INT (Ethyl, R-(+)-(4-nitrobenzenesulfonyloxy)-4-phenyl butyrate) Existing 0.03 MT/M, Proposed 0.47MT/M, Total - 0.5 MT/M	10. TV-INT (Ethyl, R-(+)-(4-nitrobenzenesulfonyloxy)-4-phenyl butyrate) Existing 0.3552 TPA, Proposed - 5.6448 TPA, Total 6.0 TPA
31. Production Details	11. Peridopril Erbumine Existing 0.0 MT/M, Proposed 0.17 MT/M, Total - 0.17 MT/M	11. Peridopril Erbumine Existing 0 TPA, Proposed - 2 TPA, Total 2 TPA
31. Production Details	12. TTR IV ((18,167,177,21-Tetrahydroxy pregna-1,4-dine-3,20-dione. Existing 0.0 MT/M, Proposed 0.1 MT/M, Total - 0.1 MT/M	12. TTR IV ((18,167,177,21-Tetrahydroxy pregna-1,4-dine-3,20-dione. Existing 0 TPA, Proposed - 1 TPA, Total 1 TPA
31. Production Details	13. FLY VIII (Benzyl(2S,3aS,7aS)-Octahydro-1H-Indole-2-carboxylate 4-Methylbenzenesulfonate) Existing 0.0 MT/M, Proposed 0.43 MT/M, Total - 0.43 MT/M	13. FLY VIII (Benzyl(2S,3aS,7aS)-Octahydro-1H-Indole-2-carboxylate 4-Methylbenzenesulfonate) Existing 0 TPA, Proposed - 5.2 TPA, Total 5.2 TPA
31. Production Details	14. PR-38 - 4-[2-(1-Azepanyl)Ethoxy] Benzyl Chloride Hydrochloride 15. PR-86 - t-butyl-hydroxycyclohexyl methacrylate 16. PR-88 - (2,3,4,6-TETRA-O-BENZYL-D-GALACTOSE) 17. PR-89 - ((S)-1-BOC-3-HYDROXY PIPERIDINE) 18. PR-91 - (S)-2-AMINO-5-Methoxytetraline Hydrochloride 19. PR-92 - (S)-1,2,3,4-Tetrahydro-5-methoxy-N-propyl-2-naphthalenamine hydrochloride 20. PR-115 (N-Decyl-N,N-Dimethyl-3- Ammonio-1-propane- Sulphonate) 21. PR-116-(S)-(Tetrahydrofuran-3-Yl)Hydrazine Hydrochloride 22. PR-156 - (2-Bromo-4-nitro imidazole) 23. PR-178 - (S,S)-2,8-Diazabicyclo[4.3.0]nonane 24. PR-179-(3-HYDROXY-N-METHYL-3-PHENYL-PROPYLAMINE) 25. PR-181 - CHLOROMETHYL CHLORO SULFATE Existing 0.0 MT/M, Proposed 2.25 MT/M, Total - 2.25 MT/M Note - Combine production capacity of PR-38,PR-86,PR-88,PR-89,PR-91, PR-92, PR-115,PR-116,PR-156,PR-178,PR-179,PR-181, will be 2.25 TPM	14. PR-38 - 4-[2-(1-Azepanyl)Ethoxy] Benzyl Chloride Hydrochloride 15. PR-86 - t-butyl-hydroxycyclohexyl methacrylate 16. PR-88 - (2,3,4,6-TETRA-O-BENZYL-D-GALACTOSE) 17. PR-89 - ((S)-1-BOC-3-HYDROXY PIPERIDINE) 18. PR-91 - (S)-2-AMINO-5-Methoxytetraline Hydrochloride 19. PR-92 - (S)-1,2,3,4-Tetrahydro-5-methoxy-N-propyl-2-naphthalenamine hydrochloride 20. PR-115 (N-Decyl-N,N-Dimethyl-3- Ammonio-1-propane- Sulphonate) 21. PR-116-(S)-(Tetrahydrofuran-3-Yl)Hydrazine Hydrochloride 22. PR-156 - (2-Bromo-4-nitro imidazole) 23. PR-178 - (S,S)-2,8-Diazabicyclo[4.3.0]nonane 24. PR-179-(3-HYDROXY-N-METHYL-3-PHENYL-PROPYLAMINE) 25. PR-181 - CHLOROMETHYL CHLORO SULFATE Existing 0.0 MTA, Proposed 27 MTA, Total - 27 MTA Note - Combine production capacity of (Sr. No 14 to 25) PR-38,PR-86,PR-88,PR-89,PR-91, PR-92, PR-115,PR-116,PR-156,PR-178,PR-179,PR-181, will be 27 TPA
33. Details of Total water consumed	Domestic: Consumption (Existing 5.5 CMD, Proposed 13 CMD, Total 18.5 CMD), Loss (Existing 1.1 CMD, Proposed 2.9 CMD, Total 4 CMD), Effluent (Existing 4.4 CMD, Proposed 10.1 CMD, Total 14.5 CMD)	Domestic: Consumption (Existing 5.5 CMD, Proposed 7.5 CMD, Total 13 CMD), Loss (Existing 1.1 CMD, Proposed 0.9 CMD, Total 2.0 CMD), Effluent (Existing 4.4 CMD, Proposed 6.6 CMD, Total 11 CMD)
33. Details of Total water consumed	Industrial Processing Consumption (Existing 21 CMD, Proposed 14 CMD, Total 35 CMD), Loss (Existing 8.6 CMD, Proposed 5.8 CMD, Total 14.4 CMD), Effluent (Existing 12.4 CMD, Proposed 8.2 CMD, Total 20.6 CMD)	Industrial Processing Consumption (Existing 3 CMD, Proposed 10 CMD, Total 13 CMD), Loss (Existing 0.5 CMD, Proposed 1 CMD, Total 1.5 CMD), Effluent (Existing 2.5 CMD, Proposed 9 CMD, Total 11.5 CMD)
33. Details of Total water consumed	Cooling tower & Thermpack Consumption (Existing 4 CMD, Proposed 1.5 CMD, Total 5.5 CMD), Loss (Existing 3.2 CMD, Proposed 1.2 CMD, Total 4.4 CMD), Effluent (Existing 0.8 CMD, Proposed 0.3 CMD, Total 1.11 CMD)	Cooling tower & Thermpack Consumption (Existing 4 CMD, Proposed 58 CMD, Total 62 CMD), Loss (Existing 2.7 CMD, Proposed 50.3 CMD, Total 53 CMD), Effluent (Existing 1.3 CMD, Proposed 7.7 CMD, Total 9 CMD)
33. Details of Total water consumed	Gardening Consumption (Existing 2 CMD, Proposed 4 CMD, Total 6 CMD), Loss (Existing 2 CMD, Proposed 4 CMD, Total 6 CMD), Effluent (Existing 0 CMD, Proposed 0 CMD, Total 0 CMD)	Gardening Consumption (Existing 0 CMD, Proposed 6 CMD, Total 6 CMD), Loss (Existing 0 CMD, Proposed 6 CMD, Total 6 CMD), Effluent (Existing 0 CMD, Proposed 0 CMD, Total 0 CMD)
33. Details of Total water consumed	Fresh water Requirement Consumption (Existing 32.5 CMD, Proposed 37.5 CMD, Total 68 CMD), Loss (Existing 14.9 CMD, Proposed 13.9 CMD, Total 28.8 CMD), Effluent (Existing 17.8 CMD, Proposed 18.6 CMD, Total 36.2 CMD)	Fresh water Requirement Consumption (Existing 12.5 CMD, Proposed 81.5 CMD, Total 94 CMD), Loss (Existing 4.3 CMD, Proposed 58.2 CMD, Total 62.5 CMD), Effluent (Existing 8.2 CMD, Proposed 23.3 CMD, Total 31.5 CMD)
34. Rain Water Harvesting (RWH)	i) Level of the Ground water table: will submit in EIA report ii) Size and no of RWH tank(s) and Quantity: will submit in EIA report iii) Location of the RWH tank(s): will submit in EIA report iv) Budgetary allocation (Capital cost): will submit in EIA report v) Budgetary allocation (O & M cost): will submit in EIA report	i) Level of the Ground water table: 5-10 m ii) Size and no of RWH tank(s) and Quantity: 30 m ³ , 1 No. iii) Location of the RWH tank(s): Near fire water tank vi) Budgetary allocation (Capital cost): Rs. 4.05 Lakhs vii) Budgetary allocation (O & M cost): Rs. 10,000/A
35. Storm water drainage	i) Natural water drainage pattern: Provided by MIDC ii) Quantity of storm water: NA iii) Size of SWD: NA	i) Natural water drainage pattern: Provided as per natural slope ii) Quantity of storm water: 39.3 lit/s iii) Size of SWD: 0.5m x 0.5m
36. Sewage and waste water	i) Sewage generation KLD: 20 v) Budgetary allocation (Capital cost): Rs. 25,00,000 vi) Budgetary allocation (O & M cost): 100000	i) Sewage generation KLD: 11 v) Budgetary allocation (Capital cost): Rs. 22,00,000 vi) Budgetary allocation (O & M cost): Rs. 1.6 Lakhs/A
37. Solid waste Management b. Waste generation in the operation Phase	Dry Waste: NA	Dry Waste: Spent Carbon (Process): 50 TPA Spent Catalyst: 40 TPA ETP Sludge: 47 TPA MEE Salts: 185 TPA Distillation Residue: 90 TPA Process Waste & Residue: 40 TPA Contaminated Filter Bags: 1.2 TPA Discarded Drums: 2500 Nos/A
37. Solid waste Management b. Waste generation in the operation Phase	Wet Waste: NA	Wet Waste: Spent Mother Liquor/Solvent: 1600 TPA Used/spent oil: 90 TPA
37. Solid waste Management b. Waste generation in the operation Phase	Hazardous waste: kindly refer point no. 45	Hazardous waste: Spent Carbon (Process): 50 TPA Spent Catalyst: 40 TPA ETP Sludge: 47 TPA MEE Salts: 185 TPA Distillation Residue: 90 TPA Process Waste & Residue: 40 TPA Contaminated Filter Bags: 1.2 TPA Discarded Drums: 2500 Nos/A Spent Mother Liquor/Solvent: 1600 TPA Used/spent oil: 90 TPA
37. Solid waste Management b. Waste generation in the operation Phase	Biomedical waste (If applicable): NA	Biomedical waste (If applicable): 20 Kg/A
37. Solid waste Management b. Waste generation in the operation Phase	STP Sludge (Dry sludge): 250 kg	STP Sludge (Dry sludge): 2.0 TPA
37. Solid waste Management b. Waste generation in the operation Phase	Others if any: NA	Others if any: E-Waste: 0.1 TPA Battery waste: 0.5 TPA
37. Solid waste Management c. Mode of Disposal of waste:	Dry waste: NA	Dry waste: CHWTSDF or Sale to authorized party/recycler
37. Solid waste Management c. Mode of Disposal of waste:	Wet waste: NA	Wet waste: CHWTSDF or Sale to authorized party/recycler
37. Solid waste Management c. Mode of Disposal of waste:	Hazardous waste: CHWTSDF, MWML, Taloja	Hazardous waste: CHWTSDF or Sale to authorized party/recycler
37. Solid waste Management c. Mode of Disposal of waste:	Biomedical waste (If applicable): NA	Biomedical waste (If applicable): Authorized BMW disposal site
37. Solid waste Management c. Mode of Disposal of waste:	STP Sludge (Dry sludge): Will be used as manure for gardening	STP Sludge (Dry sludge): Used as manure



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 10 of 98


Dr. Umakant Dangat (Chairman SEAC-I)

37. Solid waste Management c. Mode of Disposal of waste:	Others if any: NA	Others if any: Sale to authorized dismantlers / Recyclers/Buyback
37. Solid waste Management d. Area requirement	Location(s): Production Area, Raw Material & Products Storage Area, Office Building, STP & ETP, Parking	Location(s): Near ETP
37. Solid waste Management d. Area requirement	Area for the storage of waste & other material Dedicated area is allocated near ETP	Area for the storage of waste & other material : Dedicated storage area is provided to Hazardous waste storage
37. Solid waste Management d. Area requirement	Area for machinery: 1914 m ²	Area for machinery: Not applicable
37. Solid waste Management E. Budgetary allocation (Capital cost and O&M cost)	i) Capital cost: Rs. 3423000000 ii) O & M cost Rs. 3400000	i) Capital cost Rs. 6.35 cr ii) O & M cost Rs. 73.75 Lakhs/A
38. Effluent Characteristics	Inlet Effluent Characteristics: Parameters (pH: 7-8, BOD: 2500-3500 mg/lit, COD 5000-6000 mg/lit, TDS: 2000-300 mg/lit, oil & grease: <20 mg/lit), Outlet Effluent Characteristics: Parameters (pH: ZLD, BOD: ZLD, COD: ZLD, TDS: ZLD, oil & grease: ZLD), Effluent discharge standards (MPCB): Parameters (pH: 5.5-9.0, BOD: <100 mg/lit, COD <2500 mg/lit, TDS: <2100 mg/lit, oil & grease: <10 mg/lit)	Multiple Effect Evaporator Inlet to MEE- Parameters (Flow: 11.77 CMD, pH: 6.5-7, COD 18000-19000 mg/lit, TDS: 30000-31000 mg/lit), Reject from RO- Parameters (Flow: 7 CMD, pH: 7.0-7.5, COD <200mg/lit, TDS: 6500-7500 mg/lit), Outlet from MEE- Parameters (Flow: 22.5 (18.77+3.73)CMD, pH: 7.0-7.5, COD 9000-10000 mg/lit, TDS: < 100 mg/lit),
38. Effluent Characteristics	-----	ETP treatment Inlet to primary- Parameters (Flow: 34.5 (12+22.5 evaporator outlet) CMD, pH: 6-6.5, COD 6000-6500 mg/lit, BOD ₃ , 27°C 3000-3300 mg/lit, TDS: 1000-1500 mg/lit, TSS 150-200 mg/lit), Outlet from primary- Parameters (Flow: 34.5 CMD, pH: 7-7.5, COD 4000-5000 mg/lit, BOD ₃ , 27°C 2000-2500 mg/lit, TDS: 1000-1500 mg/lit, TSS 50-100 mg/lit), Outlet from secondary- Parameters (Flow: 34.5 CMD, pH: 7-7.5, COD 600-650 mg/lit, BOD ₃ , 27°C 50-100 mg/lit, TDS: 1000-1500 mg/lit, TSS 50-100 mg/lit), Outlet from tertiary- Parameters (Flow: 34.5 CMD, pH: 7-7.5, COD 200-250 mg/lit, BOD ₃ , 27°C <100 mg/lit, TDS: 1000-1500 mg/lit, TSS 50-100 mg/lit),
38. Effluent Characteristics	-----	Reverse Osmosis Inlet to RO- Parameters (Flow: 34.5 CMD, pH: 7-7.5, TDS: 1000-1500 mg/lit), Permeate- Parameters (Flow: 27.5 CMD, pH: 7-7.5, TDS: <100 mg/lit), Reject- Parameters (Flow: 7 CMD, pH: 7-7.5, TDS: 6500-7500mg/lit),
38. Effluent Characteristics	Amount of effluent : 21.7 CMD	Amount of effluent generation (CMD) : Effluent from industrial Processing (8.5 CMD), from washing (3 CMD), cooling tower & boiler blow down (9.0 CMD) will be (20.5 CMD) treated in MEE,ETP and RO. Additional 3.2 CMD Effluent from plant D 53&D 54 will also be treated in the same ETP. Out of that high COD and TDS from process 11.77 CMD along with RO reject 7 CMD will be treated in MEE. Low TDS stream 12 CMD along with treated effluent from MEE (18.77 CMD) and steam condensate (3.73 CMD) will be treated in conventional ETP, so the total effluent load considering RO reject 7 + steam condensate 3.73 will be 34.5 CMD. Unit will be a complete ZLD unit.
38. Effluent Characteristics	Amount of treated effluent Recycled: 35 CMD	Amount of treated effluent Recycled: 27.5 CMD
38. Effluent Characteristics	Membership of CETP (if require): Yes	Membership of CETP (if require): Not Applicable, ZLD Unit
38. Effluent Characteristics	Note on ETP technology to be used: Primary, Secondary, Tertiary, MEE & ZLD	Note on ETP technology to be used: High COD & TDS stream from process will be treated in Multi Effect Evaporator (MEE). Treated effluent and steam condensate from MEE along with Low COD and Low TDS stream will be treated in full-fledged ETP. Final treated water will be passed through RO and RO permeate is recycled and reused. RO reject is fed to MEE to achieve Zero Liquid Discharge.
39. Hazardous Waste Details	Spent Carbon- Cat. No. 28.2 Existing 6.18 TPA, Proposed 00 TPA, Total 6.18 TPA Disposal CHWTSDF	Spent Carbon- Cat. No. 28.3 Existing 6.0 TPA, Proposed 44.0 TPA, Total 50.0 TPA. Disposal CHWTSDF
39. Hazardous Waste Details	Spent Mother Liquor/Solvent- Cat. No. 28.4 Existing 12 TPA, Proposed 6 TPA, Total 18 TPA Disposal Sale to authorized party	Spent Mother Liquor/Solvent- Cat. No. 28.6 Existing 120 TPA, Proposed 1480 TPA, Total 1600 TPA Disposal Sale to authorized party.
39. Hazardous Waste Details	ETP Sludge- Cat. No. 34.3 Existing 8.6 TPA, Proposed 8.1 TPA, Total 16.7 TPA Disposal CHWTSDF	ETP Sludge- Cat. No. 35.3 Existing 3.6 TPA, Proposed 43.4 TPA, Total 47 TPA Disposal CHWTSDF
39. Hazardous Waste Details	MEE Salts- Cat. No. 37.3 Existing 90 TPA, Proposed 179 TPA, Total 269 TPA Disposal CHWTSDF	MEE Salts- Cat. No. 35.3 Existing 90 TPA, Proposed 95 TPA, Total 185 TPA Disposal CHWTSDF
39. Hazardous Waste Details	Distillation Residue- Cat. No. 20.3 Existing 0 TPA, Proposed 1.2 TPA, Total 1.2 TPA Disposal CHWTSDF	Distillation Residue- Cat. No. 20.3 Existing 0 TPA, Proposed 90 TPA, Total 90 TPA. Disposal CHWTSDF
39. Hazardous Waste Details	Process Waste & Residue- Cat. No. 28.1 Existing 0 TPA, Proposed 3 TPA, Total 3 TPA Disposal CHWTSDF	Process Waste & Residue- Cat. No. 28.1 Existing 0 TPA, Proposed 40 TPA, Total 40 TPA Disposal. CHWTSDF
39. Hazardous Waste Details	Contaminated Filter Bags- Cat. No. 36.1 Existing 0 TPA, Proposed 1.2 TPA, Total 1.2 TPA Disposal CHWTSDF	Contaminated Filter Bags- Cat. No. 33.1 Existing 0 TPA, Proposed 1.2 TPA, Total 1.2 TPA. Disposal CHWTSDF
39. Hazardous Waste Details	Used/spent oil- Cat. No. 5.1 Existing 0 TPA, Proposed 5.4 TPA, Total 5.4 TPA Disposal Sale to authorized party	Used/spent oil- Cat. No. 5.1 Existing 0 TPA, Proposed 90 TPA, Total 90 TPA Disposal. Sale to authorized party
39. Hazardous Waste Details	-----	Spent Catalyst- Cat. No. 28.2 Existing 0 TPA, Proposed 40 TPA, Total 40 TPA. Disposal Regenerated through authorized recycler.
39. Hazardous Waste Details	-----	Discarded Drums- Cat. No. 33.1 Existing 0 Nos., Proposed 2500 Nos., Total 2500 Nos. Disposal Sale to authorized recycler.
39. Hazardous Waste Details	-----	Other Waste: E-Waste- Existing 0 TPA, Proposed 0.1 TPA., Total 0.1 TPA Disposal Sale to authorized dismantlers / Recyclers.
39. Hazardous Waste Details	-----	Other Waste: Battery waste- Existing 0 TPA, Proposed 0.2 TPA., Total 0.2 TPA Disposal Returned to battery manufacturer through authorized dealer on buy back procurement
39. Hazardous Waste Details	-----	Other Waste: Biomedical Waste- Existing 0 TPA, Proposed 20 kg/A., Total 20 kg/A., Disposal Disposed to Authorized BMW disposal authority
39. Hazardous Waste Details	-----	Non Haz. Waste: Waste paper, Sweeping material, Etc. Existing 0 TPA, Proposed 0.5 TPA., Total 0.5 TPA Disposal Sale to authorized recycler
39. Hazardous Waste Details	-----	Non Haz. Waste: Pallet Existing 0 Nos., Proposed 1000 Nos., Total 1000 Nos. Disposal Sale to authorized recycler
39. Hazardous Waste Details	-----	Non Haz. Waste: STP Sludge Existing 0 TPA, Proposed 2.0 TPA., Total 2.0 TPA. Disposal Used as manure for gardening
40.Stacks emission Details	1. Section & units - Boiler (one stand by & one operating), Fuel Used with Quantity- FO = 2.04 T/Day, Stack No-01 combined stack, Height from Ground level (m)- 30, Internal Diameter (m)- 0.4, Temp. of Exhaust Gases- 125 OC	1. Section & units - Existing Boiler 2 TPH, Fuel Used with Quantity- 150 lit/day LDO will be replaced by FO 1020 Kg/d, Stack No-1, Height from Ground level (m)- 35 m combined, Internal Diameter (m)- 0.5, Temp. of Exhaust Gases- 135 OC
40.Stacks emission Details	-----	2. Section & units - Proposed Boiler 3 TPH, Fuel Used with Quantity- FO 3800 Kg/day or CNG 3200 Kg/Day, Stack No-1, Height from Ground level (m)- 35 m combined for both boilers, Internal Diameter (m)- 0.5, Temp. of Exhaust Gases- 135 OC
40.Stacks emission Details	2. Section & units - Thermo pack (one stand by & one operating), Fuel Used with Quantity- LDO = 510 lit/day, Stack No-01 combined stack, Height from Ground level (m)- 22, Internal Diameter (m)- 0.25, Temp. of Exhaust Gases- 150 OC	3. Section & units - Proposed Thermo pack 0.5 Lac Kcal/hr, Fuel Quantity- LDO 112 Kg/D, Stack No-1, Height from Ground level (m)- 22 m combined for both Thermopacks, Internal Diameter (m)- 0.4, Temp. of Exhaust Gases- 140 OC
40.Stacks emission Details	-----	4. Section & units - Proposed TFH 1.0 LacKcal/hr, Fuel Quantity- LDO 225 Kg/D, Stack No-1, Height from Ground level (m)- 22 m combined for both Thermopacks, Internal Diameter (m)- 0.4, Temp. of Exhaust Gases- 140 OC
40.Stacks emission Details	3. Section & units - DG Sets (no 02), Fuel Used with Quantity- HSD = 600 lit/month, Stack No-042 separate stack, Height from Ground level (m)- 4.2-5, Internal Diameter (m)- 0.15, Temp. of Exhaust Gases- 135 OC	5. Section & units - Existing DG 200 KVA, Fuel Quantity- HSD 55 Lit/hr, Stack No-1, Height from Ground level (m)- 4 m. above enclosure, Internal Diameter (m)- 0.25, Temp. of Exhaust Gases- 150 OC
40.Stacks emission Details	-----	6. Section & units - *Existing DG 250 KVA, Fuel Quantity- HSD 69 Lit/hr, Stack No-1, Height from Ground level (m)- 4.2 m. above enclosure, Internal Diameter (m)- 0.22, Temp. of Exhaust Gases- 150 OC
40.Stacks emission Details	-----	7. Section & units - Proposed DG 380 KVA, Fuel Quantity- HSD 95 Lit/hr, Stack No-1, Height from Ground level (m)- 5 m. above enclosure, Internal Diameter (m)- 0.25, Temp. of Exhaust Gases- 150 OC
40.Stacks emission Details	-----	Note:*DG set of 250 KVA will be replaced by DG set of 380 KVA
41.Details of Fuel to be used	Type of Fuel: LDO (Existing 150 lit/day, Proposed 360 lit/day, Total 510 lit/day)	Type of Fuel: LDO (Existing 150 kg/day, Proposed 187 kg/day, Total 337 kg/day).
41.Details of Fuel to be used	Type of Fuel: FO (Existing 00 lit/day, Proposed 2040 lit/day, Total 2040 lit/day)	Type of Fuel: FO (Existing 00 kg/day, Proposed 4820 kg/day, Total 4820 kg/day)


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018


Page 11 of 98


Dr. Umakant Dangat (Chairman SEAC-I)

41.Details of Fuel to be used	Type of Fuel: HSD (Existing 420 lit/month, Proposed 180 lit/month, Total 600 lit/month)	Type of Fuel: HSD (Existing 0.5 lit/hr, Proposed 218.5 lit/hr, Total 219.0 lit/month)
41.Details of Fuel to be used	-----	Type of Fuel: CNG (Existing 00 kg/day, Proposed 3200 kg/day, Total 3200 kg/day)
44. Green Belt Development	i) Total RG Area:612 Sq.m	i) Total RG Area:1255.44 Sq.m
51. Details of pollution control Systems	Budgetary allocation (Capital cost and O&M cost) Capital cost:35 Lac O&M cost:7 Lac	Budgetary allocation (Capital cost and O&M cost) Capital cost:223.15 Lacs O&M cost:185.37/Annum
52. Environmental Management plan Budgetary Allocation b. Operation Phase (with Break-up)	1. Component-Air pollution control, Description- 2 no. stacks, Capital cost Rs. In Lacs-10, Operational and Maintenance cost (Rs. In Lacs/yr)- 0.5	1. Component-Air pollution control, Description-Provision of new stack and increasing height of existing stack, Capital cost Rs. In Lacs-6.0, Operational and Maintenance cost (Rs. In Lacs/yr)- 3.7
52. Environmental Management plan Budgetary Allocation b. Operation Phase (with Break-up)	2. Component- Water pollution, Description- ETP, Capital cost Rs. In Lacs-340, Operational and Maintenance cost (Rs. In Lacs/yr)- 16 3. Component- Domestic Effluent, Description- STP, Capital cost Rs. In Lacs-20, Operational and Maintenance cost (Rs. In Lacs/yr)- 1	2. Component- Water pollution control, Description- Maintenance of Existing ETP, MEE & RO and Provision of New STP, Capital cost Rs. In Lacs-208, Operational and Maintenance cost (Rs. In Lacs/yr)- 107.22
52. Environmental Management plan Budgetary Allocation b. Operation Phase (with Break-up)	3. Component- Noise, Description- Acoustic enclosures, Capital cost Rs. In Lacs-5, Operational and Maintenance cost (Rs. In Lacs/yr)- nil	3. Component- Noise pollution Control, Description-Provision of New DG Set with acoustic enclosure, Capital cost Rs. In Lacs-2.8, Operational and Maintenance cost (Rs. In Lacs/yr)- 0.7
52. Environmental Management plan Budgetary Allocation b. Operation Phase (with Break-up)	-----	4.Component- Occupational Health, Description-Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, In-house first aid room, Other infrastructure and Equipment, Capital cost Rs. In Lacs-7.11, Operational and Maintenance cost (Rs. In Lacs/yr)- 3.0
52. Environmental Management plan Budgetary Allocation b. Operation Phase (with Break-up)	-----	5.Component- Environmental Monitoring Budget Description- Environmental Monitoring, Capital cost Rs. In Lacs-11, Operational and Maintenance cost (Rs. In Lacs/yr)- 7.1
52. Environmental Management plan Budgetary Allocation b. Operation Phase (with Break-up)	-----	6.Component- Environmental Monitoring Budget Description- Environmental Monitoring, Capital cost Rs. In Lacs-11, Operational and Maintenance cost (Rs. In Lacs/yr)- 7.1
52. Environmental Management plan Budgetary Allocation b. Operation Phase (with Break-up)	-----	7.Component- Hazardous waste Storage & disposal Description- Storage, Transportation and disposal, Capital cost Rs. In Lacs-6.35, Operational and Maintenance cost (Rs. In Lacs/yr)- 73.75
52. Environmental Management plan Budgetary Allocation b. Operation Phase (with Break-up)	-----	8.Component- Green Belt Description- Development & Maintenance, Capital cost Rs. In Lacs- 4.5, Operational and Maintenance cost (Rs. In Lacs/yr)- 1.7
54. Traffic Management	Parking area: 414 Sq.m	Parking area: 460.41 Sq.m
54. Traffic Management	Width of all internal roads: 3m	Width of all internal roads: 6m

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



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 12 of 98



Dr. Umakant Dangat (Chairman SEAC-I)

Any other issues related to environmental sustainability	Not Applicable
---	----------------

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 in 140th meeting of SEAC-1 held on 21.07.2017 where in ToR was granted..

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

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

1. PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2. PP to submit lay out plan showing entry/exit gates, internal road width of six meters, turning radius of nine meters, location of pollution control equipment, parking areas, 33% green belt, rain water harvesting etc.
3. PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
4. PP to submit copy of structural stability certificate of existing structures.
5. PP to submit design details of ETP and submit an undertaking for achieving Zero Liquid Discharge.
6. PP to submit hazardous chemical handling protocol.
7. PP to submit design details of scrubber and boiler stack.
8. PP to carry out HAZOP and QRA and submit report. PP to submit copy of on site/off site emergency plan.
9. PP to provide adequate lightening arrestors.
10. PP to submit qualitative and quantitative socio economic impact study report.

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

Now PP submitted the EIA/EMP for appraisal.

DECISION OF SEAC

 Abhay Pimparkar (Secretary SEAC-I)	SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018	Page 13 of 98	 Name: Dr. Umakant Dangat Dr. Umakant Dangat (Chairman SEAC-I)
--	--	----------------------	--

During deliberations with the PP and their accredited consultant, it was observed that, PP doesnot have any green belt within the premises and propsoes it out side the plot boundary which is not acceptable as per OM issued by MoEF&CC dated 09.08.2018 which stipulates as below,

" The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department."

PP informed that, they will try to accomodate green belt within the premises and submit revised layout.

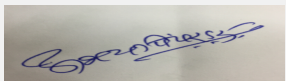
In view of above SEAC decided to defer the proposal till PP submits revised layout showing 33% green belt as per requirement.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000141


**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 14
of 98**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**


156th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 156th ,Day-1 Meeting Date October 4, 2018

Subject: Environment Clearance for Environmental Clearance (EC) of proposed project for expansion in existing products with deletion of some of the existing products & addition of new products for manufacturing of synthetic organic chemicals at Plot No.: A-21, Mahad MIDC, Raigad 402309, Maharashtra by Pidilite Industries Limited


Is a Violation Case: No

1.Name of Project	Proposed project for expansion in existing products with deletion of some of the existing products & addition of new products for manufacturing of synthetic organic chemicals at Plot No.: A-21, Mahad MIDC, Raigad 402309, Maharashtra
2.Type of institution	Private
3.Name of Project Proponent	PIDILITE INDUSTRIES LTD
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 and addition of new products.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No. Existing project started operation in the year 1988. Environmental clearance was not applicable then for the activity as per EIA notifications 1994 & 2006.
8.Location of the project	Plot No.: A-21, Mahad MIDC, Raigad 402309, Maharashtra.
9.Taluka	Mahad
10.Village	Kamble via Birwadi
Correspondence Name:	Mr. Sagar Jadhav
Room Number:	Plot No.: A-21
Floor:	MIDC Mahad
Building Name:	--
Road/Street Name:	Mahad MIDC
Locality:	Raigad-402309
City:	Mahad
11.Area of the project	MIDC Mahad
12.IOD/IOA/Concession/Plan Approval Number	Not applicable IOD/IOA/Concession/Plan Approval Number: Not applicable Approved Built-up Area: 33351
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	169166 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.): 23497 b) Non FSI area (sq. m.): 00 c) Total BUA area (sq. m.): 23497
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: 20-07-2018
19.Total ground coverage (m2)	29646
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	17.5 %
21.Estimated cost of the project	4851200000


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 15
of 98**

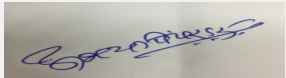
Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

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))	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	Yes. Existing manufacturing unit.		
30. Details of the demolition with disposal (If applicable)	Oxygen/Nitrogen plant and Ethylene storage Sphere will be dismantled and disposed. Quantity of debris, scraps, excavated soil, used Cement bags, iron / steel scrap and cardboards waste will be generated during construction and demolition. Approximate quantities will be given in EIA report.		


31. Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	1. a) Vinyl acetate	32436 MT/A	-32436 MT/A	0
2	Or	--	--	--
3	b) Allyl alcohol	10800 MT/A	-10800 MT/A	0
4	Or	--	--	--
5	c)1. Isopropyl acetate (IPAc)	10800 MT/A	0	10800 MT/A
6	c)2. n-propyl acetate (nPAC)	10800 MT/A	-10800 MT/A	0
7	c)3. Di-isopropyl ether (DIPE)	5400 MT/A	0	5400 MT/A
8	C)4. Isopropyl alcohol (IPA)	5400 MT/A	94600 MT/A	100000 MT/A
9	2. Oxygen	7116 MT/A	-7116 MT/A	0
10	3. Nitrogen	1224 MT/A	-1224 MT/A	0
11	4. Soft PVC film by mixing process	8640 MT/A	0	8640 MT/A
12	New Product	--	--	--


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
 October 4, 2018**


**Page 16
 of 98**

Signature: 
 Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
 (Chairman SEAC-I)**

13	Oligomers (Propylene trimer, Tetramer, Pentamer)	0	11000 MT/A	11000 MT/A
14	Alkyl phenols (Nonyl Phenol, Dodecyl Phenol, Dinonyl phenol)	0	20000 MT/A	20000 MT/A
15	By-Production Capacity	--	--	--
16	1.Propane	0	15840 MT/A	15840 MT/A
17	2.Nonene (Propylene trimer)	0	110 MT/A	110 MT/A
18	3.Hydrocarbon mix - light	0	140 MT/A	140 MT/A
19	4.Hydrocarbon mix - Medium	0	55 MT/A	55 MT/A

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



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 17 of 98




Dr. Umakant Dangat (Chairman SEAC-I)

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)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	18	7	25	1	0.5	1.5	17	6.5	23.5
Industrial Process	9	191	200	5	92.3	97.3	29*	98.7	102.7
Cooling tower & thermopack	458	1544	2002	362	1197	1559	96	347	443
Gardening	40	0	40	40	0	40	0	0	0
Fresh water requirement	525	1742	2267	408	1289.8	1697.8	117	452.2	569.2
Industrial Process	Steam condensate	-	-	-	-	-	-	-	131
Domestic	STP recycled water	-	-	-	-	-	-	-	23.5
Industrial Process	Recycle water	-	591**	-	-	-	-	-	-
Fresh water requirement	-	-	1676	-	-	-	-	-	-


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
 October 4, 2018**

**Page 18
 of 98**


Signature: 
**Name: Dr. Umakant Dangat
 (Chairman SEAC-I)**

Industrial Process	*Note- Existing -25 CMD effluent generating from production of VAM as a water of reaction & there is no effluent generation from existing product. From the proposed product list VAM has been deleted hence total effluent generation is from proposed activity only. **131 CMD will be from MEE outlet (109 CMD RO reject+ 22 CMD MEE live steam condensate), 436.7 will be RO permeate & 23.5 STP water recycled from effluent, Hence total recycle water will be 591 CMD.	-	-	-	-	-	-	-	-
--------------------	---	---	---	---	---	---	---	---	---

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	5 to 8 m
	Size and no of RWH tank(s) and Quantity:	20 CU.m. 1 No. Quantity 22 CMD
	Location of the RWH tank(s):	Near Raw water tank.
	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) :	3.30 lac
	Budgetary allocation (O & M cost) :	Rs. 10000/Annum
	Details of UGT tanks if any :	No underground tanks


35.Storm water drainage	Natural water drainage pattern:	Adequate and separate storm water drains will be provided as per natural slopes.
	Quantity of storm water:	By considering maximum intensity 190 mm of rain fall per hour & 0.8 runoff coeff.= 7192 m3/hr, 1.99 m3/s
	Size of SWD:	2m x 1m

Sewage and Waste water	Sewage generation in KLD:	23.5
	STP technology:	STP comprising of conventional treatment process (Biological oxidation and tertiary treatment).
	Capacity of STP (CMD):	1 No. & 30 CMD
	Location & area of the STP:	Near existing ETP & area of the STP will be 50m2
	Budgetary allocation (Capital cost):	22 lac
	Budgetary allocation (O & M cost):	4.5 lac/Annum


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 19 of 98


Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	Yes. Debris, construction metal, excavated earth etc.
	Disposal of the construction waste debris:	Within premises in low lying area
Waste generation in the operation Phase:	Dry waste:	Hazardous Waste: • Discarded containers/barrels= 15000 No/A • Discarded Liners/bags = 5 MT/A • Glass wool = 20 MT/A • Used oil filter nonmetallic = 50 Nos. • Spent resin= 5 KL/A Non hazardous • Coal ash = 10877 MT/A • Wood scrap = 2 MT/A • Waste paper, card board etc. = 5 MT/A • Plastic waste = 1 MT/A • Waste glassware = 1 MT/A • Unusable PVC scrap = 5 MT/A
	Wet waste:	•Hazardous Waste: • Distillation residue = 275 MT/A • Chemical sludge for WWT = 380 MT/A • MEE Salts = 209 MT/A • Spent carbon = 158 MT/A • Used/spent oil = 3.201 KL/A • Thermic fluid spent oil = 10 KL/Once in 5 years • Used/spent catalyst = 200 KL/A • Oil soaked cotton waste = 1 MT/A
	Hazardous waste:	Hazardous Waste: • Distillation residue = 275 MT/A • Chemical sludge for WWT = 380 MT/A • MEE Salts = 209 MT/A • Spent carbon = 158 MT/A • Used/spent oil = 3.201 KL/A • Thermic fluid spent oil = 10 KL/Once in 5 years • Used/spent catalyst = 200 KL/A • Oil soaked cotton waste = 1 MT/A • Discarded containers/barrels= 15000 No/A • Discarded Liners/bags = 5 MT/A • Glass wool = 20 MT/A • Used oil filter nonmetallic = 50 Nos. • Spent resin= 5 KL/A
	Biomedical waste (If applicable):	20 Kg/A
	STP Sludge (Dry sludge):	STP sludge will be used as manure within premises
	Others if any:	• Battery waste = 30 No/A • E waste = 1000 Kg/A
Mode of Disposal of waste:	Dry waste:	MPCB authorized party
	Wet waste:	Disposal through CHWTSDF / Authorized co-processors, preprocessor / vendor
	Hazardous waste:	Disposal through CHWTSDF / Authorized co-processors, preprocessor / vendor
	Biomedical waste (If applicable):	Authorized Biomedical Waste disposal facility.
	STP Sludge (Dry sludge):	Manure for Gardening
	Others if any:	Sale to authorized dismantlers/Recyclers.
Area requirement:	Location(s):	Near cooling tower area
	Area for the storage of waste & other material:	Area for the storage of Hazardous waste 667.44 Sq.m.
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	12 Lac
	O & M cost:	1.57 Cr/A


37.Effluent Charecteristics

Serial Number	Parameters	Unit	Inlet Effluent Charecteristics	Outlet Effluent Charecteristics	Effluent discharge standards (MPCB)
1	A) ETP Treatment	--	--	--	--
2	Parameters	Unit	Inlet To Primary	Inlet to Tertiary	Inlet to RO
3	Flow	CMD	545.7	545.7	545.7


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
 October 4, 2018**

**Page 20
 of 98**


Signature: 
**Name: Dr. Umakant Dangat
 (Chairman SEAC-I)**

4	pH	--	6.0-8.0	7-7.5	7-7.5
5	BOD _{3,27°C}	mg/L	200-250	180-230	< 100
6	COD	mg/L	400-450	300-350	< 150
7	TSS	mg/L	400-500	50-100	< 100
8	TDS	mg/L	800-1000	800-1000	800-1000
9	B) Reverse Osmosis	--	--	--	--
10	Parameters	Unit	Inlet To RO	Permeate	Reject
11	Flow	CMD	545.7	436.7	109
12	pH	--	7.0-7.5	7.0-7.5	7.0-7.5
13	TDS	mg/L	800-1000	<100	4500-5000
14	C) Multiple Effect Evaporators	--	--	--	--
15	Flow	CMD	109	131 (109 + 22 steam condensate)	--
16	pH	--	7.0-7.5	7.0-7.5	--
17	TDS	mg/L	4500-5000	<100	--

Amount of effluent generation (CMD):	545.7
Capacity of the ETP:	650 CMD (Existing-400 CMD, will be upgraded to 650 CMD)
Amount of treated effluent recycled :	591 CMD
Amount of water send to the CETP:	Not Applicable, as unit is ZLD
Membership of CETP (if require):	Not applicable as unit is ZLD
Note on ETP technology to be used	Industrial effluent including cooling tower & Boiler blow downs will be treated in primary treatment. Primary treated waste water will be pumped to Pressure Sand Filter (PSF) followed by Activated Carbon Filter (ACF). Then tertiary treated water will be pumped to RO. RO permeate will be reused/recycled to utilities. RO reject will be evaporated in MEE & condensate will be reused/ recycled to utilities to achieve zero liquid discharge. Salts from MEE will be disposed to CHWTSDF while co
Disposal of the ETP sludge	Chemical sludge for WWT = 380 MT/A, MEE Salts = 209 MT/A, Spent carbon = 158 MT/A will be disposed to CHWTSDF/ Authorized co-processors

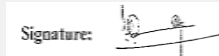
38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Distillation residue	28.1	MT/A	210*	264	275	CHWTSDF/ co-processor
2	Chemical sludge from WWT	35.3	MT/A	1.5	378.5	380	CHWTSDF
3	MEE Salts	35.3	MT/A	--	209	209	CHWTSDF
4	Spent carbon from ETP	35.3	MT/A	--	158	158	CHWTSDF
5	Used/spent oil	5.1	KL/A	0.201	3	3.201	Sale to authorized vendor
6	Thermic fluid spent oil	5.1	KL/once in 5 years	Nil	10	10**	Sale to authorized vendor
7	Ash from incineration	37.2	kg/A	18 kg/A	Nil	Nil***	--
8	Discarded containers/barrels	33.1	No/A	1000	14000	15000	Sale to authorized vendor


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 21 of 98


Dr. Umakant Dangat (Chairman SEAC-I)

9	Discarded Liners/bags	33.1	MT/A	Nil	5	5	Sale to authorized vendor
10	Used/spent catalyst	28.2	KL/A	Nil	200	200	To MPCB authorized vendor/ CHWTSDF
11	Oil soaked cotton waste	5.2	MT/A	Nil	1	1	CHWTSDF
12	Used oil filter non metallic	5.2	Nos./A	Nil	50	50	CHWTSDF
13	Glass wool	Not Specified	MT/A	Nil	20	20	CHWTSDF
14	Spent resin	35.2	KL/A	Nil	5	5	Disposal through CHWTSDF / Authorized co-processors, preprocessor / vendor
15	Other Waste	--	--	--	--	--	--
16	Batteries	Not Specified	No/A	Nil	30	30	Sale to authorized vendor
17	E waste	Not Specified	T/A	Nil	1	1	Sale to authorized vendor
18	Non- Hazardous waste	--	--	--	--	--	--
19	Coal ash	Not Specified	MT/A	300	10577	10877	Sale to brick manufacturer/ cement manufacturer/building material/road construction
20	Wood scrap	Not Specified	MT/A	Nil	2	2	sale
21	Waste paper, card board etc.	Not Specified	MT/A	Nil	5	5	sale
22	Plastic waste	Not Specified	MT/A	Nil	1	1	sale to authorized vendor
23	Waste glassware	Not Specified	MT/A	Nil	1	1	sale
24	Unusable PVC scrap	Not Specified	MT/A	Nil	5	5	sale
25	* Distillation residue from existing production of VAM, Allyl Alcohol & n-propyl acetate was 199 MT/A. Now from the proposed product list VAM, Allyl Alcohol & n-propyl acetate have been deleted. Hence, 199 MT/A quantity of existing distillation residue is deleted from total existing quantity.	--	--	--	--	--	--
26	** Thermic fluid spent oil will be generate once in 5 year	--	--	--	--	--	--



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 22 of 98

Signature:



Name: Dr. Umakant Dangat

Dr. Umakant Dangat (Chairman SEAC-I)

27	***Now incinerator has been demolished. Hence, there will not be generation of ash from incineration	--	--	--	--	--	--
----	--	----	----	----	----	----	----

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 Boiler 10 TPH	Coal: 48 TPD	1	34.5 m (combine for existing 8 Lac/Cal Thermopac)	1	142
2	Existing Boiler 6 TPH x 2 Nos. (1 stand-by & 1 operational)	FO 10 TPD / Propane- 8 TPD	1	32.5 m (Combined stack)	0.9	142
3	Proposed Boiler 50 TPH	Coal- 240 TPD/ Propane- 71 TPD	1	52 m (combine for proposed 8 Lac/Cal Thermopac)	2	160
4	Proposed Boiler 50 TPH (Standby)	Coal- 240 TPD/ Propane- 71 TPD	1	52 m	2	160
5	Existing Thermopac (8 Lac Kcal/hr)	Coal -5 TPD	-	34.5 m (Combine for 10 TPH existing Boiler stack)	1	142
6	Proposed Thermopac (8 Lac Kcal/hr)	Coal -5 TPD	-	52 m (combine for proposed 50 TPH Boiler)	2	160
7	Existing Flare 3400 Nm3/Hr	LPG cylinder for ignition / Propane purge gas - 0.528 TPD	1	35	0.3	350
8	Proposed Flare 10500 Nm3/Hr	LPG cylinder for ignition / Propane purge gas - 1.056 TPD	1	35	0.6	350
9	D.G Set 750 KVA x 3 NOs	HSD- 0.41 KL/Hr in case of emergency only	3	3.5 M each	0.4 Each	350
10	Diesel engine driven fire water pump (2 Nos)	HSD - 0.05 KL/Hr in case of emergency only	2	3.5 M each	0.2	350

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	32 TPD	266 TPD	298 TPD
2	FO	3.5 TPD	6.5 TPD	10 TPD
3	LPG	4 cylinder/A	8 cylinder/A	12 cylinder/A



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 23 of 98



Dr. Umakant Dangat (Chairman SEAC-I)

4	Propane (in-house generation)	0.528 TPD	88.05 TPD	88.578 TPD
5	HSD	0.01 KL/Hr	0.45 KL/Hr	0.46 KL/Hr
41.Source of Fuel		Local & Imported (Coal)		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	Total RG area :	55839 Sq.m (33% of total plot area)
	No of trees to be cut :	Nil
	Number of trees to be planted :	There are around 3500 nos. of trees and shrubs already planted at the site.
	List of proposed native trees :	--
	Timeline for completion of plantation :	Not applicable

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	Not applicable	Not applicable	Not applicable	Not applicable


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	Not applicable	Not applicable	Not applicable

47.Energy

Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	150KWH (welding m/c, grinding m/c, drill m/c, concrete mixer, construction lift, power)
	DG set as Power back-up during construction phase	Existing DG will be used
	During Operation phase (Connected load):	existing connected load - 4977 KWh Proposed connected load- 11316 KWh Total connected load- 16293 KWh
	During Operation phase (Demand load):	Existing demand load-1250 KWh Proposed demand load-4715 KWh Total demand load-5965 KWh
	Transformer:	Existing Transformer - 3 MVA x 1 no. Proposed transformer- 3 MVA X 3 no. Total transformer - 3 MVA x 4 no.
	DG set as Power back-up during operation phase:	Existing DG set 750 KVA x 3 Nos. Proposed DG set - Nil
	Fuel used:	HSD consumption will be 0.46 Kl/hr in case of emergency only, but it will not be exceed 365 KL/A
	Details of high tension line passing through the plot if any:	Not Applicable


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 24 of 98

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

48. Energy saving by non-conventional method:

Pidilite already installed 1.202 MWP ground mounted solar PV, in two groups one group consists capacity 702 kwP and other group consists capacity 500 kwP. Ground mounted solar PV is covering around 10791 M2 area. The generated power is utilized for plant operation along with MSEDCL power. The total cost is 5.48 Crore.

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar power energy	1.202 MWP

50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Multicyclone followed by Bag filter& stack of adequate height	ESP and Stack
Water	ETP, RO & Evaporator	ETP, RO & MEE
Noise	Acoustic enclosure for DG set	
Solid Waste	Disposal to CHWTSDF	Disposal to CHWTSDF

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	924 lac
	O & M cost:	1019 lac/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	1.5
2	Debris	Solid Waste	1.5
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	Provision of ESP and Stack	200	40
2	Water pollution control	Multi Effect Evaporator, RO & Effluent Treatment Plant	680	800
3	Noise pollution Control	Acoustic enclosure and regular maintenance	27	2.5
4	Occupational Health	Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, In-house first aid room, Other infrastructure and Equipment	60	56
5	Environmental Monitoring Budget	Environmental Monitoring	5	20


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 25 of 98


Signature: Dr. Umakant Dangat (Chairman SEAC-I)

6	Hazardous waste Storage & disposal	Storage, Transportation and disposal	12	157
7	Green belt	Development & Maintenance	8	14
8	Total	--	992	1089.5

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

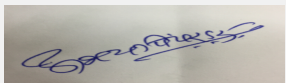
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Propylene	Liquefied gas	Bullet	300x3	900	9835	Local	By Road
Acetic acid	Liquid	Tank	250x2	500	575	Local	By Road
Acetic acid	Liquid	Tank	250	250	750	Local	By Road
Propylene Trimer	Liquid	Tank	200	200	795	Local	By Road
Propylene Tetramer	Liquid	Tank	200	200	295	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:	20624 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):	6 m with turning radius of 9m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 26 of 98


Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No such areas within 10 km radius circle.
	Category as per schedule of EIA Notification sheet	5 (f)
	Court cases pending if any	Nil
	Other Relevant Informations	Nil
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	20-07-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

 Abhay Pimparkar (Secretary SEAC-I)	SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018	Page 27 of 98	 Dr. Umakant Dangat (Chairman SEAC-I)
--	--	----------------------	--


PP submitted their application for the grant of TOR under category 5(f)B1 and 1(d)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015. The proposal was considered in the 154th meeting of SEAC-1 held on 28.08.2018 where in the proposal was deferred for following reason.

"During deliberations PP informed that they donot intend to go for EC for Thermal Power Plant inspite of their application for the same. In view of above SEAC decided to defer the proposal till PP submits revised information in the consolidated statement for which EC is sought."

Now PP submitted revised Conslidated Statement for EC under category 5(f)B1.

DECISION OF SEAC

SEAC-AGENDA-0000000141


**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 28
of 98**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

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

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

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

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

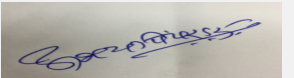
PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

Specific Conditions by SEAC:

- 1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
- 2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
- 3) PP to provide green belt as per OM issued by MoEF&CC dated 09.08.2018 which states as "" The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department."
- 4) PP to increase the width of entry road to the plot area and provide divider between the road for hassle free emergency evacuation and efficient traffic channelization.
- 5) PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc
- 6) PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
- 7) PP to include detailed water balance calculations in the EIA report.
- 8) PP to include safe demolition methodology and management plan for construction debris in the EIA report.
- 9) PP to submit storm water drain calculations considering the location of plot at the base of hillock, annual rain fall, a nallah passing through the plot etc.
- 10) PP to submit structural stability certificate of existing buildings to accommodate proposed expansion.
- 11) PP to carry out HAZOP and QRA and submit Disaster Management Plan.
- 12) PP to submit hazardous chemical handling protocol
- 13) PP to provide lightening arrestor.


FINAL RECOMMENDATION

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


**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 29
of 98**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

156th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 156th ,Day-1 Meeting Date October 4, 2018

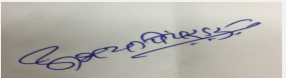
Subject: Environment Clearance for Addition of Synthetic Chemicals

Is a Violation Case: No

1.Name of Project	M/s Loba Chemie Pvt. Ltd
2.Type of institution	Private
3.Name of Project Proponent	M/s Loba Chemie Pvt. Ltd
4.Name of Consultant	M/s SGM Corporate Consultant Pvt Ltd
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Plot No. D-22 Tarapur M.I.D.C
9.Taluka	Palghar
10.Village	MIDC Tarapur
Correspondence Name:	MR. Nikhil Shah
Room Number:	1
Floor:	Ground
Building Name:	M/s Loba Chemie Pvt. Ltd
Road/Street Name:	Plot No. D-22 Tarapur M.I.D.C
Locality:	Boisar
City:	Boisar, Palghar
11.Area of the project	NO
12.IOD/IOA/Concession/Plan Approval Number	NO
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 10765.00
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	24324.00
16.Deductions	00
17.Net Plot area	24324.00
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 00
	b) Non FSI area (sq. m.): 00
	c) Total BUA area (sq. m.): 10765
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 00
	Approved Non FSI area (sq. m.): 00
	Date of Approval: 01-09-2000
19.Total ground coverage (m2)	12200
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	43
21.Estimated cost of the project	36000000


22.Number of buildings & its configuration

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


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

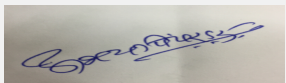
Page 30 of 98

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

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))	18.0		
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6.0		
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	4- Benzyloxy Aniline Hydrochloride	00	1.67	1.67
2	2-Bromo-4'- Benzyloxy Propiophenone	00	1.67	1.67
3	2-Cyclohexen-1-one	00	2.50	2.50
4	3-(3'Trifluoro Methyl Phenyl) Propanol	00	0.42	0.42
5	3-Methyl-1,2,4-Thiadiazole-5-Carbohydrazide	00	1.67	1.67
6	2-Methyl-3-(Tri fluoro Methyl) Aniline	00	6.67	6.67
7	M-034 / Amine	00	0.03	0.03
8	3-Methyl-5-(Phenylmethoxy)-2-[4-(Phenyl methoxy) Phenyl]-1H-Indole	00	0.25	0.25
9	1-(2-(4-(Chloro methyl) phenoxy) ethyl) Azepane Hydrochloride	00	0.25	0.25
10	1-(4-Methoxy phenyl)-2-Benzyl Propyl Amine	00	0.17	0.17
11	4-Amino-5-(Ethyl Sulfonyl)-2-Methoxy benzoic Acid	00	0.58	0.58
12	2-Methoxy-4-amino-5-ethylthiobenzoic Acid	00	0.50	0.50
13	4-Hydroxy benzyl alcohol	00	5.0	5.0
14	5-Bromo-2-chloro Benzoic acid	00	10.0	10.0
15	5-iodo-2-chloro benzoic acid	00	10.0	10.0
16	2,3-pyrazine diacarbonylic anhydride	00	20.0	20.0
17	7-Benzoyl indole	00	0.20	0.20
18	2-Chloro trityl chloride	00	24.0	24.0
19	1-Chloro methyl Naphthalene	00	12.0	12.0
20	4-Amino salicylic acid	00	12.0	12.0


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
 October 4, 2018**

**Page 31
 of 98**

Signature: 
**Name: Dr. Umakant Dangat
 (Chairman SEAC-I)**


21	Laboratory reagents like (Absorption Indicators, Biochemical, Alkaloids, Vitamins, Metals, solvents , reagents etc as per consent to operate dated 14-03-2018)	78.50	00	78.50
----	--	-------	----	-------

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)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	04	10	14	0.8	2.0	2.8	3.2	8.0	11.2
Industrial Process	17	14	31	15	1.0	16.0	02	13.0	15.0


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 32 of 98

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

Cooling tower & thermopack	09	06	15	8.5	5.8	14.3	0.5	0.2	0.7
Gardening	50	00	50	50	00	50	00	00	00

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	6- 8 m
	Size and no of RWH tank(s) and Quantity:	2 x 10 cum
	Location of the RWH tank(s):	ground
	Quantity of recharge pits:	00
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	2.5
	Budgetary allocation (O & M cost) :	0.50
	Details of UGT tanks if any :	100 Cum

35.Storm water drainage	Natural water drainage pattern:	MIDC drain
	Quantity of storm water:	0.31 cum/sec
	Size of SWD:	600 x 800

Sewage and Waste water	Sewage generation in KLD:	11.2
	STP technology:	Septic tank
	Capacity of STP (CMD):	Septic tank
	Location & area of the STP:	below ground
	Budgetary allocation (Capital cost):	3.0
	Budgetary allocation (O & M cost):	0.50

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	NA
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	Dry waste:	35 kg/day
	Wet waste:	35 kg/day
	Hazardous waste:	Details Given Below.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	05 KG
	Others if any:	NA

Mode of Disposal of waste:	Dry waste:	Local Authority
	Wet waste:	Local Authority
	Hazardous waste:	Details Given Below.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	MIDC
	Others if any:	NA
Area requirement:	Location(s):	NA
	Area for the storage of waste & other material:	15 Sq.m
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	NA
	O & M cost:	NA

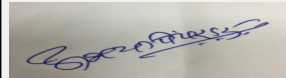

37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	NA	5.5 -6.5	6.5-7.5	5.5-9.0
2	BOD	mg/lit	3200-3600	<100	100
3	COD	mg/lit	7450-9100	<250	250
4	SS	mg/lit	1050-1250	<100	100
5	Oil & Grease	mg/lit	80-120	<10	10
Amount of effluent generation (CMD):		15			
Capacity of the ETP:		25 cum			
Amount of treated effluent recycled :		02			
Amount of water send to the CETP:		13 cum . we will achieve zer discharge till operation of new CETP.			
Membership of CETP (if require):		Yes			
Note on ETP technology to be used		Primary ,secondary and tertiary followed by evaporator			
Disposal of the ETP sludge		CHWTSDF			

38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Process Residues	28.1	kg/month	00	200	200	CHWTSDF
2	Used Oil	5.1	kg/month	50	100	150	Approved MPCB Vendor
3	Discarded Containers	33.3	kg/month	50	200	250	Approved MPCB Vendor
4	ETP Sludge	34.3	kg/month	30	200	230	CHWTSDF
5	Spent Solvents	20.2	lit/month	00	2000	2000	Approved MPCB Vendor
6	Evaporation Residue	36.4	kg/month	00	500	500	CHWTSDF

39. Stacks emission Details

 Abhay Pimparkar (Secretary SEAC-I)	SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018	Page 34 of 98	 Dr. Umakant Dangat (Chairman SEAC-I)
--	--	----------------------	--

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler	LDO/FO	1	14	0.6	120
2	D.G	HSD	1	3.0	.1	60

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	LDO/FO	480 lit	320 lit	800 lit

41.Source of Fuel Local Vendor

42.Mode of Transportation of fuel to site by road

43.Green Belt Development	Total RG area :	815.00 sq.m
	No of trees to be cut :	NA
	Number of trees to be planted :	150
	List of proposed native trees :	Enclosed
	Timeline for completion of plantation :	AUG 19

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	Neem	25	Medicinal plant
2	Caryota urens	Fish Tail palm	20	Nitrogen fixer, ornamental plant
3	Neolmarkia cadamba	Kadamba tree	20	ropical fruit tree & bird attracting tree
4	Mimusopes elengi	Bakul	10	Evergreen tree,
5	Saraca indica	Sita ashok	50	Evergreen medicinal plant
6	Michelia champaca	Sonchapha	10	Conical tree with fragrant flowers
7	Plumeria alba	Franjipani	15	Ornamental plant with medicinal value

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	att	att	att


47.Energy



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 35 of 98

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Power requirement:	Source of power supply :	MSEB
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	600 KVA
	During Operation phase (Demand load):	450 KVA
	Transformer:	600 KVA
	DG set as Power back-up during operation phase:	75 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48. Energy saving by non-conventional method:

Use LED lights in premises
Use of solar light for garden.

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use LED lights in premises, Use of solar light for garden.	NA

50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Effluent generation	ETP with Evaporators	Evaporator
Emissions from Process	Scrubber	Scrubber
Noise	Acoustic Enclosure	Acoustic Enclosure
Hazardous waste	CHWTSDF	CHWTSDF

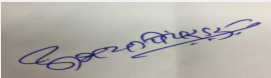
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	2.50 Lakhs
	O & M cost:	0.50 Lakhs

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):


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 36
of 98**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	PM-10, PM 2.5, SO2 etc	15.0	1.25
2	Water Pollution control	pH, COD, BOD, TSS etc	75.0	8.50
3	Noise	Noise	10.00	0.50
4	Hazardous waste	Soil Contamination	4.0	3.0
5	Rain water Harvesting	Water conservation	2.5	0.5
6	Occupational Health & safety	Safety	25.0	5.0
7	Green Belt	Plantation	18.0	4.0

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


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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	02
Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	600 sq.m
	Area per car:	12.5 sq.m
	Area per car:	12.5 sq.m
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	Auito rickshaw
	Width of all Internal roads (m):	6.0
	CRZ/ RRZ clearance obtain, if any:	NA


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018

Page 37
of 98


Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat
(Chairman SEAC-I)

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	5.0 Km from creek
	Category as per schedule of EIA Notification sheet	5 f (B1)
	Court cases pending if any	NO
	Other Relevant Informations	Application submitted on MOEFCC portal on dated 09-08-2018
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	08-08-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC


 Abhay Pimparkar (Secretary SEAC-I)	SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018	Page 38 of 98	 Dr. Umakant Dangat (Chairman SEAC-I)
--	--	----------------------	--

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

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


DECISION OF SEAC

SEAC-AGENDA-00000000141


Abhay Pimparkar (Secretary
SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 39
of 98**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

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

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

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

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

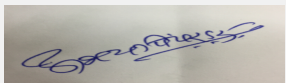
PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

Specific Conditions by SEAC:

- 1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
- 2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
- 3) PP to provide green belt as per OM issued by MoEF&CC dated 09.08.2018 which stipulates as "The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department."
- 4) PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc
- 5) PP to submit a technical report on how the proposed expansion with respect to the production quantity will be accommodated in the existing facility along with structural stability certificate of existing buildings/structures on the site.
- 6) PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
- 7) PP to carry out HAZOP and QRA and submit Disaster Management Plan.
- 8) PP to submit an undertaking for not violating requirements of EIA Notification,2006.
- 9) PP to carry out engineering analysis of product formation and submit a product scale up plan from laboratory scale to the commercial scale to ensure safety in the processes and quality of products. PP also to submit product wise impurity profile.
- 10) PP to submit scrubber design calculations.
- 11) PP to provide STP for the treatment of domestic sewage.
- 12) PP to submit hazardous chemical handling protocol
- 13) PP to provide lightning arrestor.
- 14) PP to carry out socio economic impact study and submit implementation plan along with time schedule.
- 15) PP to use new and renewable energy source for the illumination of office building and street lights.


FINAL RECOMMENDATION

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


**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 40
of 98**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

156th Meeting of State Level Expert Appraisal Committee (SEAC-1)


SEAC Meeting number: 156th ,Day-1 **Meeting Date** October 4, 2018

Subject: Environment Clearance for ENVIRONMENTAL CLEARANCE FOR INSTALLATION OF TANKS FOR STORAGE AND DISTRIBUTION OF AVIATION TURBINE FUEL

Is a Violation Case: No


1.Name of Project	M/s. IOT Infrastructure & Energy Services Ltd.
2.Type of institution	Private
3.Name of Project Proponent	M/s. IOT Infrastructure & Energy Services Ltd
4.Name of Consultant	Green Circle Inc.
5.Type of project	Isolated storage & handling of chemicals
6.New project/expansion in existing project/modernization/diversification in existing project	EXPANSION PROJECT- INSTALLATION OF TANKS FOR STORAGE AND DISTRIBUTION OF AVIATION TURBINE FUEL
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes
8.Location of the project	Plot no.101, Sector1, NH 4B, Dronagiri Node, Navghar, Navi Mumbai
9.Taluka	Uran
10.Village	Dhutum
Correspondence Name:	Mr. N Suresh Kumar
Room Number:	Plot no.101, Sector1,
Floor:	-
Building Name:	-
Road/Street Name:	NH 4B
Locality:	Dronagiri Node, Navghar
City:	Navi Mumbai
11.Area of the project	CIDCO
12.IOD/IOA/Concession/Plan Approval Number	NA IOD/IOA/Concession/Plan Approval Number: NA Approved Built-up Area: 30136
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	227029
16.Deductions	-
17.Net Plot area	-
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 30136
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: 08-10-1997
19.Total ground coverage (m2)	227029
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	13.27
21.Estimated cost of the project	300000000

22.Number of buildings & its configuration



Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 41
of 98**



Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)	
1	NA	-	NA	
23.Number of tenants and shops	Not applicable			
24.Number of expected residents / users	NA			
25.Tenant density per hectare	NA			
26.Height of the building(s)				
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	24 Mt			
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	3 Mt			
29.Existing structure (s) if any	Existing Industry as per CTO			
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	Kerosene	1,20,000	0	1,20,000
2	Furnace Oil	1,20,000	0	1,20,000
3	High Speed Diesel	1,20,000	0	1,20,000
4	Naphtha	1,20,000	0	1,20,000
5	Motor Spirit	1,20,000	0	1,20,000
6	CBFS	0	1,20,000	1,20,000
7	Aviation Turbine Fuel	0	20,000	20,000
8	Ethanol	0	82	82
32.Total Water Requirement				


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018


Page 42 of 98

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Dry season:	Source of water	CIDCO
	Fresh water (CMD):	12.6
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	12.6
	Fire fighting - Underground water tank(CMD):	0.5
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0
Wet season:	Source of water	CIDCO
	Fresh water (CMD):	12.6
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	12.6
	Fire fighting - Underground water tank(CMD):	0.5
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0
Details of Swimming pool (If any)	Not applicable	


33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	4.1	0	4.1	0	0	0	4.1	0	4.1
Industrial Process	3.0	0	3.0	0	0	0	3.0	0	3.0
Gardening	5.0	0	5.0	0	0	0	0	0	0



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 43 of 98


Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	-
	Size and no of RWH tank(s) and Quantity:	-
	Location of the RWH tank(s):	-
	Quantity of recharge pits:	-
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	-
	Budgetary allocation (O & M cost) :	-
	Details of UGT tanks if any :	Two tanks of 32 KL for Ethanol storage. Not yet commissioned.
35.Storm water drainage	Natural water drainage pattern:	-
	Quantity of storm water:	-
	Size of SWD:	Width 1 mtr x Depth 1.5 mtr
Sewage and Waste water	Sewage generation in KLD:	4.1
	STP technology:	Soak pit
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	No solid waste generation
	Disposal of the construction waste debris:	For Leveling at site
Waste generation in the operation Phase:	Dry waste:	0
	Wet waste:	0
	Hazardous waste:	Oily waste- 0.15 Mt/ Month, Spent oil (D.G. Set) - 0.02 Mt/ Month
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 44 of 98

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

Mode of Disposal of waste:	Dry waste:	NA
	Wet waste:	NA
	Hazardous waste:	Mumbai Waste management
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	Location(s):	NA
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	NA
	O & M cost:	NA

37. Effluent Characteristics


Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	-	-	-	5.5-9.0
2	Oil & Grease	mg/l	-	-	10
3	BOD (3 day ,27 °C)	mg/l	-	-	100
4	COD	mg/l	-	-	250
5	Suspended Solid	mg/l	-	-	100
Amount of effluent generation (CMD):		Waste water from tank flushing - 4.5 KLD			
Capacity of the ETP:		Oily Water Separator			
Amount of treated effluent recycled :		NA			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		NA			
Disposal of the ETP sludge		NA			

38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Oily waste	5.2	Mt/ Month	0.1	0.05	0.15	Mumbai Waste management
2	Spent oil (D.G. Set)	5.1	Mt/ Month	0.01	0.01	0.02	Mumbai Waste management

39. Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG -1	HSD / 0.21 Lit/hr/KVA	1	8 mtr	0.15	272°C
2	DG -2	HSD / 0.21 Lit/hr/KVA	2	8 mtr	0.15	281°C
3	DG -3	HSD / 0.21 Lit/hr/KVA	3	8 mtr	0.15	268°C



Abhay Pimparkar (Secretary
SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 45
of 98**


Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

4	DG -4 (Phase-I)	HSD / 0.21 Lit/hr/KVA	4	8 mtr	0.15	268°C
5	DG-5 (Phase-II)	HSD / 0.21 Lit/hr/KVA	5	8 mtr	0.15	268°C
40.Details of Fuel to be used						
Serial Number	Type of Fuel	Existing	Proposed	Total		
1	HSD	0.63 Lit/hr/KVA	0.42 Lit/hr/KVA	1.06 Lit/hr/KVA		
41.Source of Fuel		-				
42.Mode of Transportation of fuel to site		By Road				
43.Green Belt Development						
		Total RG area :	19020			
		No of trees to be cut :	0			
		Number of trees to be planted :	-			
		List of proposed native trees :	Neem, Gulmohar etc.			
		Timeline for completion of plantation :	-			
44.Number and list of trees species to be planted in the ground						
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance		
1	-	-	-	-		
45.Total quantity of plants on ground						
46.Number and list of shrubs and bushes species to be planted in the podium RG:						
Serial Number	Name	C/C Distance	Area m2			
1	-	-	-			
47.Energy						


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 46 of 98

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Power requirement:	Source of power supply :	MSEB
	During Construction Phase: (Demand Load)	400 KVA
	DG set as Power back-up during construction phase	4 Nos
	During Operation phase (Connected load):	2743 KVA
	During Operation phase (Demand load):	-
	Transformer:	NA
	DG set as Power back-up during operation phase:	5 Nos. x 650 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48. Energy saving by non-conventional method:

Purchase of energy efficient appliances.
 Constant monitoring of energy consumption and defining targets for energy conservation.
 Adjusting the settings and illumination levels to ensure minimum energy used for desired comfort levels. LED lamps will be provided, wherever applicable.
 To the extent possible and technically feasible, energy efficient equipment will be selected.
 Gravity flow will be preferred wherever possible to save pumping energy.

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED Bulbs	-
2	VFDs for Pumps	-

50. Details of pollution control Systems


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

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

51. Environmental Management plan Budgetary Allocation


a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Green Belt development	Tree plantation	1.0
2	Dust suppression	Water sprinkling, dust mask	0.5
3	Environment Monitoring	Monitoring charges of Air, water, noise	0.5


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018


Page 47 of 98

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

4	Occupational Health	Health check-up, PPEs	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	Environment Monitoring and Management	Environmental Monitoring of Air, water, noise	-	1.0
2	Occupational Health	Health Check-up of workers, Provision of First-aid medical facility, Provision of PPEs to workers	1.0	0.5
3	Green Belt	Development of trees, Green area	-	8.0
4	CSR Activity	CSR works	2.0	-

51.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
HSD (Fixed Dome Roof- 36 x 20)	Existing	Terminal	20000 KL	20000 KL	-	-	Rail wagon or Truck or Pipeline
HSD (Fixed Dome Roof- 36 x 20)	Existing	Terminal	20000 KL	20000 KL	-	-	Rail wagon or Truck or Pipeline
HSD (Fixed Dome Roof- 36 x 20)	Existing	Terminal	20000 KL	20000 KL	-	-	Rail wagon or Truck or Pipeline
Naphtha (Internal FR-44 x 20)	Existing	Terminal	30000 KL	30000 KL	-	-	Rail wagon or Pipeline
Naphtha (Internal FR-44 x 20)	Existing	Terminal	30000 KL	30000 KL	-	-	Rail wagon or Pipeline
Naphtha (External FR-44 x 20)	Existing	Terminal	30000 KL	30000 KL	-	-	Rail wagon or Pipeline
Naphtha(External FR-44 x 20)	Existing	Terminal	30000 KL	30000 KL	-	-	Rail wagon or Pipeline
FO (Fixed Dome Roof- 20 x 16.5)	Existing	Terminal	5000 KL	5000 KL	-	-	Rail wagon or Truck or Pipeline
HSD (Fixed Dome Roof- 20 x 16.5)	Existing	Terminal	5000 KL	5000 KL	-	-	Rail wagon or Truck or Pipeline
MS (Internal FR-20 x 16.5)	Existing	Terminal	5000 KL	5000 KL	-	-	Rail wagon or Truck or Pipeline
SKO (Fixed Dome Roof- 20 x 16.5)	Existing	Terminal	5000 KL	5000 KL	-	-	Rail wagon or Truck or Pipeline
SKO (External FR-20 x 16.5)	Existing	Terminal	5000 KL	5000 KL	-	-	Rail wagon or Truck or Pipeline


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
 October 4, 2018**

**Page 48
 of 98**

Signature: 
**Name: Dr. Umakant Dangat
 Dr. Umakant Dangat
 (Chairman SEAC-I)**

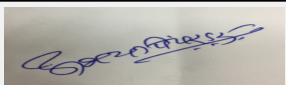
MS (External FR-20 x 16.5)	Existing	Terminal	5000 KL	5000 KL	-	-	Rail wagon or Truck or Pipeline
FO(Fixed Dome Roof- 25 x 20)	Existing	Terminal	10000 KL	10000 KL	-	-	Rail wRail wagon or Truck or Pipeline
MS (Internal FR-25 x 20)	Existing	Terminal	10000 KL	10000 KL	-	-	Rail wagon or Truck or Pipeline
SKO (External FR-25 x 20)	Existing	Terminal	10000 KL	10000 KL	-	-	Rail wagon or Truck or Pipeline
HSD(External FR-25 x 20)	Existing	Terminal	10000 KL	10000 KL	-	-	Rail wagon or Truck or Pipeline
Ethanol (UG storage tank)	Proposed	Within Existing Terminal	82 KL	82 KL	-	-	Truck or Pipeline
Aviation Turbine Fuel (Internal FR 25x20)	Phase-I	Within Existing Terminal	10000 KL	10000 KL	-	-	Rail wagon or Truck or Pipeline
Aviation Turbine Fuel (Internal FR 25x20)	Phase-I	Within Existing Terminal	10000 KL	10000 KL	-	-	Rail wagon or Truck or Pipeline
Petroleum Products MS, Naphtha, HSD, SKO, FO ,ATF etc	Phase-II	Within Existing Terminal	1,60,000 KL	1,60,000 KL	-	-	Rail wagon or Truck or Pipeline
CBFS	Proposed	Within Existing Terminal	1,20,000 kl	1,20,000 KL	-	-	Rail wagon or Truck or Pipeline

52.Any Other Information

No Information Available


53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	-
Parking details:	Number and area of basement:	-
	Number and area of podia:	-
	Total Parking area:	5000
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	20
	Number of 4-Wheelers as approved by competent authority:	10
	Public Transport:	-
Width of all Internal roads (m):	6m, 9m, 10 m	


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 49 of 98

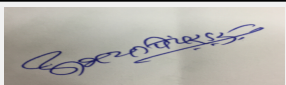

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Category - B1, 6 (B)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	05-11-1996

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

 Abhay Pimparkar (Secretary SEAC-I)	SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018	Page 50 of 98	Signature:  Name: Dr. Umakant Dangat (Chairman SEAC-I)
--	--	----------------------	---

PP submitted their application for the grant of TOR under category 6(b)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.


The proposal was considered in the 153rd meeting of SEAC-1 held on 30.06.2018 where in the proposal was deferred for following reason.

After preliminary discussion regarding the proposed project; PP requested to postpone the case. Hence, Deferred.

Now PP presented the case for ToR.


DECISION OF SEAC

SEAC-AGENDA-0000000141


**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 51
of 98**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

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

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

PP to carry out public consultation as per procedure stipulated in the EIA Notification, 2006 and submit an action plan for the compliance of issues raised during the public consultation.

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

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

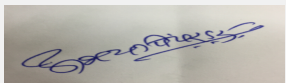
PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

Specific Conditions by SEAC:

- 1) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
- 2) PP to provide green belt as per OM issued by MoEF&CC dated 09.08.2018. The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- 3) PP to submit a certified compliance of the earlier EC dated 08.10.1997 from Regional Office of MoEF&CC, Nagpur as per OM issued by MoEF&CC on 07/09/2017.
- 4) PP to carry out HAZOP and Risk Assessment and submit Disaster Management Plan.
- 5) PP informed that they will not store the product CBFS, PP to submit revised Form-I. PP to correct the quantities of products to be stored, water consumption considering the increase in the floating population in the consolidated statement.
- 6) PP to correct the quantities of products to be stored, water consumption considering the increase in the floating population in the consolidated statement.
- 7) PP to include VOC monitoring in the base line data collection and their monitoring plan during operation phase.
- 8) PP to include details of solar energy use in the EIA report.
- 9) PP to provide STP for the treatment of domestic sewage.
- 10) PP to carry out socio economic impact study and submit implementation plan along with time schedule.
- 11) PP to submit an undertaking for non applicability of CRZ clearance.


FINAL RECOMMENDATION

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


**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 52
of 98**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**


156th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 156th ,Day-1 Meeting Date October 4, 2018

Subject: Environment Clearance for Environment Clearance for: Validity of Environmental Clearance for Maratha Limestone Mines (Mine Lease III, Area - 49.0 Ha. & Production Capacity 0.5 MTPA) under the provision of MoEF&CC Notification (S.O. 1530 (E) dated 06th April 2018


Is a Violation Case: No

1.Name of Project	Environment Clearance for: Validity of Environmental Clearance for Maratha Limestone Mines (Mine Lease III, Area - 49.0 Ha. & Production Capacity 0.5 MTPA) under the provision of MoEF&CC Notification (S.O. 1530 (E) dated 06th April 2018
2.Type of institution	Private
3.Name of Project Proponent	M/s. AMBUJA CEMENTS LIMITED
4.Name of Consultant	Anacon Laboratories Pvt. Ltd., Nagpur
5.Type of project	NA
6.New project/expansion in existing project/modernization/diversification in existing project	It's existing operative limestone mine having mining lease area 49.00 Ha with production capacity 0.5 MTPA for which MoEF&CC accorded the EC (under the provision of EIA Notification 1994) vide letter number J-11016/11/2004-IA-II(M) dated 06th January 2005. In compliance of MoEF&CC Notification dated 06th April 2018, an application for validity of EC under the provision of EIA Notification 2006 is being submitted.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Tehsil Korpana,Vill. Thutra Khasra No. 155,154,153,152,148; Tehsil - Rajura, Vill. Sonapur Khasra No. ,19, 27, 28/1, 28/2, 29, 30, 33/1 & 33/2, 34/1, 34/2,34/3 & 34/4 District Chandrapur, Maharashtra
9.Taluka	Tehsil Korpana & Tehsil Rajura
10.Village	Village Thutra & Sonapur
Correspondence Name:	Shushil Kumar Paneri Joint President, AMBUJA CEMENTS LIMITED (Maratha Limestone Mines)
Room Number:	NA
Floor:	NA
Building Name:	Administration Block
Road/Street Name:	NA
Locality:	P.O. Upparwahi
City:	Tehsil: Korpana District: Chandrapur (Maharashtra)
11.Area of the project	District: Chandrapur (Maharashtra) - 442908
12.IOD/IOA/Concession/Plan Approval Number	NA IOD/IOA/Concession/Plan Approval Number: NA Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	NA
16.Deductions	NA
17.Net Plot area	NA
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.):
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: 01-01-1900
19.Total ground coverage (m2)	NA


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 53
of 98**

Signature: 
**Name: Dr. Umakant Dangat
Dr. Umakant Dangat
(Chairman SEAC-I)**

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	96560948

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	NA		
29.Existing structure (s) if any	NA		
30.Details of the demolition with disposal (If applicable)	NA		

31.Production Details


Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Limestone	45454.5	0	45454.5

32.Total Water Requirement

Dry season:	Source of water	Pagadiguddam Dam/RWH pit
	Fresh water (CMD):	100
	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	Pagadiguddam Dam/RWH pit
	Fresh water (CMD):	75
	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)	Nil	


33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	7	0	7	2	0	2	5	0	5
Industrial Process	8	0	8	8	0	8	0	0	0
Gardening	25	0	25	25	0	25	0	0	0
Industrial Process	60	0	60	60	0	60	0	0	0


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 55 of 98

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	Average water level of the project area in Pre - monsoon period is 14.6 meter and in Post - monsoon is 10.7 meter.	
	Size and no of RWH tank(s) and Quantity:	In this project area 5 existing recharge pit type of structure are constructed with photograph is given below as well their capacity to recharge the ground water.	
	Location of the RWH tank(s):	Mine Sump / Pit , 2. ADM Harvesting Pit, 3. Coal Stacker Harvesting Pit, 4. Nursery Pit Colony, 5. Roof Rain Water Harvesting Pit Colony	
	Quantity of recharge pits:	Not any Recharge Structure is Proposed .	
	Size of recharge pits :	1. 100500 m2 X 7.0 m, 2. 256.0 m X 30.0 m X 4.50 m , 3. 27 m X 15 m X 3 m , 4. 174 m X 40 m X 4 m , 5. 1250.0 M3	
	Budgetary allocation (Capital cost) :	Rs. 50.0 Lakhs	
	Budgetary allocation (O & M cost) :	Rs. 3.25 Lakhs	
	Details of UGT tanks if any :	NA	
35.Storm water drainage	Natural water drainage pattern:	In Mining lease area, as such no water drainage exists. However in the buffer zone of the lease area, the different water shades of the study area represent a dendrite or tree like drainage pattern. Such a pattern represents homogeneous character of formation. The regional land slope is towards north that is towards river Wardha	
	Quantity of storm water:	Nil	
	Size of SWD:	NA	
Sewage and Waste water	Sewage generation in KLD:	5	
	STP technology:	Common STP for cement plant & colony domestic waste having capacity of 2 X 500 KLD. It consist Activated sludge process followed by tertiary treatment.	
	Capacity of STP (CMD):	2 X 500 KLD	
	Location & area of the STP:	Staff colony -4500 M2, Wageboard Colony- 2000 M2	
	Budgetary allocation (Capital cost):	Both STPs cost Rs. 1.1 Crore	
	Budgetary allocation (O & M cost):	Rs. 35.0 Lakhs	
36.Solid waste Management			
Waste generation in the Pre Construction and Construction phase:	Waste generation:	No solid waste generation	
	Disposal of the construction waste debris:	No solid waste generation	
Waste generation in the operation Phase:	Dry waste:	Nil	
	Wet waste:	Nil	
	Hazardous waste:	Used Oil & used cotton waste will be generated. As the maintenance workshop & HEEM machinery are common for all three leases	
	Biomedical waste (If applicable):	Health centre is common for mines & cement plant, Having valid biomedical waste authorisation. The biomedical waste generated is given to authorised disposal facility.	
	STP Sludge (Dry sludge):	STP sludge is 10-20 Tonne per year	
	Others if any:	NA	
Abhay Pimparkar (Secretary SEAC-I)	SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018	Page 56 of 98	Dr. Umakant Dangat (Chairman SEAC-I)

Mode of Disposal of waste:	Dry waste:	NA
	Wet waste:	NA
	Hazardous waste:	Oily cotton waste is co-processed in cement kiln & Waste oil is sold to authorised recyclers.
	Biomedical waste (If applicable):	The biomedical waste generated is given to authorised disposal facility.
	STP Sludge (Dry sludge):	Used as manure in green belt development
	Others if any:	NA
Area requirement:	Location(s):	NA
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	NA
	O & M cost:	NA

37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	-	7	7	5 to 9
2	Oil & Grease	mg/l	10	Nil	20
3	BOD (3 day Deg. Cel)	mg/l	26	6	30
4	Total Dissolved Solids	mg/l	500	400	2100
5	Phenolics (C ₆ H ₅ OH)	mg/l	Nil	Nil	1
6	Suspended Solids	mg/l	140	12	100
7	Nitrogen	mg/l	Nil	Nil	10
8	Chloride	mg/l	56	40	600
9	Sulphate	mg/l	85	79	1000
10	COD	mg/l	24	13	100


Amount of effluent generation (CMD):	4
Capacity of the ETP:	4
Amount of treated effluent recycled :	4
Amount of water send to the CETP:	Nil
Membership of CETP (if require):	NA
Note on ETP technology to be used	Secondary treatment & Oil Skimmer
Disposal of the ETP sludge	NA

38. Hazardous Waste Details

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

39. Stacks emission Details

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

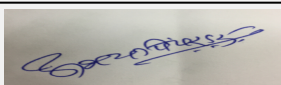

Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 57 of 98


Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

1	Nil (No Stacks)	NA	NA	NA	NA	NA
40.Details of Fuel to be used						
Serial Number	Type of Fuel	Existing	Proposed	Total		
1	Diesel (excavators, dumpers, dozers, etc)	1.5 KLD	0	1.5 KLD		
41.Source of Fuel		Nearby diesel filling stations				
42.Mode of Transportation of fuel to site		Road				
43.Green Belt Development						
Total RG area :		Nil				
No of trees to be cut :		Nil				
Number of trees to be planted :		As on date M/s. ACL planted 331436 trees in 132 ha of land (comprising of three contiguous leases namely ML -I, ML-II and ML-III operated as single mine having common boundaries and single ownership.)				
List of proposed native trees :		Neem, Pipal, Karanj, seesham, Banyan, Acacia, Albizia lebeck, Palash, Jamun, Zizupus sp., Bahunia, Ficus elastica, Ficus recemosa, Hivar, Tamarind, Bel, Awala, Mahuha, Khair.				
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	Nil	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						


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
 October 4, 2018**

**Page 58
 of 98**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
 (Chairman SEAC-I)**

Power requirement:	Source of power supply :	Captive Power Plant
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	15 KWH per annum
	During Operation phase (Demand load):	15 KWH per annum
	Transformer:	Nil
	DG set as Power back-up during operation phase:	NA
	Fuel used:	Diesel - 1.5 KL/day is to be provided for diesel dispensing into the excavators, dumpers, dozers, etc. at the place of working itself. Diesel requirement is being fulfilled from nearby diesel filling stations.
	Details of high tension line passing through the plot if any:	NA

48. Energy saving by non-conventional method:

Ambuja Cement is the industry leader in responsible use of resources, both natural and man-made. The company has been certified five times water positive, a feat achieved through conservation efforts and increasing water efficiency in its plants. It is also plastic positive, by burning as much as over 50,000 tonnes of plastic waste in its kilns, equivalent to 1.54 times of total plastic used. The company also generates 6.5% of its energy from renewable resources. Mechanised Opencast mining will recover the maximum Limestone mineral from the deposit and will be done as per the DGMS guidelines with due concern for safety & conservation.

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	The company also generates 6.5% of its energy from renewable resources.	6.5%

50. Details of pollution control Systems


Source	Existing pollution control system	Proposed to be installed
Fugitive emission from haulroads	Fixed water sprinklers nearly 2.1 KM (60 nos of nozzles) & dedicated two nos (02) mobile water spray	Existing system is sufficient to control the the fugitive emission.

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

51. Environmental Management plan Budgetary Allocation


a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	No construction	Nil	Nil


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 59 of 98

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Existing Mine Lease Area - ML III (This is existing mining lease hence as such no capital cost is proposed. However, recurring expenditures of Rs 20 Lakhs per annum is envisaged)	Dust suppression , water pollution control , greenbelt development, OH & S , environmental monitoring	50	15

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

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


52.Any Other Information

No Information Available

53.Traffic Management

Nos. of the junction to the main road & design of confluence:	NA
---	----

SEAC-AGENDA 0000000141



Abhay Pimparkar (Secretary SEAC-I)


SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 60 of 98




Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

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):	Raw material is being transported through existing haulage road (width 13m to 15 m) from existing operative mine (49.0 Ha) to crusher by Dumpers. Fugitive dust along the haulage road controlled by combination of permanent water sprinklers along with mobile water tankers. All the crushed material is directly dispatched to the plant by an overland belt conveying system. In the conveying circuit, bag filters have been provided to control dust pollution at crusher along with every transfer point on
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	1(a)
	Court cases pending if any	No
	Other Relevant Informations	Environmental Clearance for this Maratha Limestone Mine (Mine Lease III, Area - 49.0 Ha. & Production Capacity 0.5 MTPA) is already granted by MoEFCC, New Delhi Vide File No. J-11016/11/2004-IA-II(M) dtd. 06th January 2005 under EIA Notification, 1994. Now the applicant seeking for validity of the environmental clearance as per EIA Notification, 2006 and recent notification of MoEFCC, New Delhi (S.O. 1530 (E) dtd. 6th April, 2018. Thus, request to grant Validity of Environmental Clearance.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	26-07-2018
SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS		


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 61 of 98

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

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	

SEAC-AGENDA-0000000141

PP has obtained earlier EC vide No. J-11016/11/2004-IA-II(M) dated 06.01.2005 under EIA Notification, 1994.

MoEF&CC has issued a notification on 6th April, 2018 which stipulates as below,

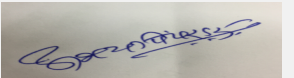
"The Hon'ble Supreme Court, vide judgement dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors., inetr-alia, has directed that the validity of the environmental clearance granted for mining projects under the notification number S.O. 60(E), dated 27th January, 1994 of the GoI in the erstwhile MoEF shall be five years and for considering expansion under the EIA Notification, 1994, the annual production of 1993-94 or immediately preceding year shall be the base year.

Now, therefore, in exercise of the powers conferred by sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) read with sub-rule (4) of rule 5 of the Environment (Protection) Rules, 1986, the Central GOVERNMENT hereby directs, after having dispensed with the requirement of notice under clause (a) of sub-rule (3) of the rule 5 of the said rules in public interest, for implementation of the aforesaid judgements of the Hon'ble Supreme Court, that the project proponent in all such cases involving validity of the environment clearance and expansion of mining projects vis-a-vis the base production, shall make application within six months from the date of issue of this notification in Form-1 as given in Appendix - II of the EIA Notification, 2006, and all such applications shall be considered by the concerned EAC or SEAC, as the case may be, who shall decide on the due diligence necessary including preparation of Environmental Impact Assessment Report and Public Consultation and the application shall be appraised accordingly for grant of environment clearance."

Now PP applied under the provisions mentioned in the Notification dated 6th April, 2018 for the grant of ToR under category 1(a)B1.


It is observed that, there are three mines adjacent to each other, PP has already obtained environmental clearance for two mines and now applied for third mine. PP to obtain clarification from Director General of Mines whether these three mines adjacent to each other forms a cluster as per Notification issued by MoEF&CC dated.....to decide on the category of the proposed project as per EIA Notification, 2006.

DECISION OF SEAC


Abhay Pimparkar (Secretary
SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018

Page 63
of 98

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat
(Chairman SEAC-I)

Based on the presentation made by PP; committee decided to approve the TOR for the preparation of EIA/EMP report as per standard TOR and additional TOR points mentioned below subject to the clarification to be obtained from Director General of Mines on the cluster formation.

PP to carry out public consultation as per procedure stipulated in the EIA Notification, 2006 and submit an action plan for the compliance of issues raised during the public consultation.

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

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

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

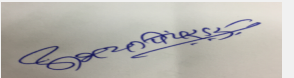
PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

Specific Conditions by SEAC:

- 1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
- 2) PP to submit certified copy of compliance of earlier EC No. J-11016/11/2001-IA-II(M) dated 06.01.2005 from Regional Office of MoEF&CC, Nagpur as per OM issued by MoEF&CC on 07/09/2017
- 3) PP to ensure that, the garland drains (size, gradient and length) and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall and maximum discharge in the area adjoining mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material.
- 4) PP to ensure that, drills should be wet operated or operated with dust extraction system.
- 5) PP to provide STP for the treatment of domestic sewage.
- 6) Peripheral bunds, check dams and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from the mining operation. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted and maintained.
- 7) PP to take adequate steps/measures for the control of fugitive emission such as water spraying arrangements on roads, loading and unloading areas, transportation of minerals etc. Fugitive dust emissions from all sources should be regularly monitored. Accordingly, PP to submit detailed plan.
- 8) PP to include vibration study report, its impact on the surrounding areas and mitigation measures proposed in the EIA report.
- 9) PP to submit health status of all the workers and employees working in the mine area.
- 10) PP to submit clarification on the cluster formation from Director General of Mines.


FINAL RECOMMENDATION

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


**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 64
of 98**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

156th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 156th ,Day-1 Meeting Date October 4, 2018

Subject: Environment Clearance for Industrial Project- Synthetic Organic Chemical Manufacturing unit

Is a Violation Case: No

1.Name of Project	M/s. Harsika Enterprises
2.Type of institution	Private
3.Name of Project Proponent	Mr. Mahesh Chanchlani
4.Name of Consultant	S G M Enviro (I) Pvt. Ltd.
5.Type of project	Industrial Project- Synthetic Organic Chemical Manufacturing unit
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No. Not Applicable
8.Location of the project	G-2, Additional MIDC, Jejuri, Pune, Maharashtra
9.Taluka	Purandar
10.Village	Jejuri
Correspondence Name:	Mr. Mahesh Chanchlani
Room Number:	-
Floor:	2nd floor
Building Name:	Gopi Niwas
Road/Street Name:	Garpure colony
Locality:	Shivaji Nagar
City:	Pune
11.Area of the project	Industry is in MIDC, Jejuri
12.IOD/IOA/Concession/Plan Approval Number	Building completion certificate has been received from MIDC
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 1213.50
13.Note on the initiated work (If applicable)	Not Applicable. No new construction.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC plot possession letter has been obtained
15.Total Plot Area (sq. m.)	5025.00 sq. m
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.):
	Approved Non FSI area (sq. m.):
	Date of Approval:
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	9100000

22.Number of buildings & its configuration

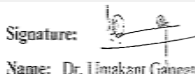
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
---------------	------------------------	------------------	-------------------------------



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 65 of 98



Dr. Umakant Dangat (Chairman SEAC-I)

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))	30 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	Yes. At present there is an existing unit producing Formulations of water treatment chemicals & equipments. Same machinery will be used for proposed project.		
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	Succinic Acid/Anhydride	0	100	100
2	Succinimide and derivative	0	5	5
3	Succinic acid & anhydride derivative	0	15	15
4	Hydrogenated Carboxylic acids like benzoic ,cinnamic etc.	0	20	20
5	Succinic anhydride derivatives	0	10	10
6	Co-product - Spent Acid	0	220	220
7	Co-product - Spent Solvents	0	50	50

32.Total Water Requirement

Dry season:	Source of water	MIDC
	Fresh water (CMD):	Existing - 3 CMD, Proposed - 6.3 CMD
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	Existing - 3 CMD, Proposed - 6.3 CMD
	Fire fighting - Underground water tank(CMD):	30 CMD
	Fire fighting - Overhead water tank(CMD):	10 CMD
	Excess treated water	0
Wet season:	Source of water	MIDC
	Fresh water (CMD):	Existing - 3 CMD, Proposed - 6.3 CMD
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	Existing - 3 CMD, Proposed - 6.3 CMD
	Fire fighting - Underground water tank(CMD):	30 CMD
	Fire fighting - Overhead water tank(CMD):	10 CMD
	Excess treated water	0.8 CMD
Details of Swimming pool (If any)	Not applicable	


33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	1	0.3	1.3	0.2	0.05	0.25	0.8	0.25	1.05
Industrial Process	0.5	5	5.5	0	4.5	4.5	0.5	0.5	1
Cooling tower & thermopack	0.5	0	0.5	0	0	0	0	0	0
Gardening	1	1	2	1	1	2	0	0	0


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
 October 4, 2018**

**Page 67
 of 98**

Signature: 
**Name: Dr. Umakant Dangat
 (Chairman SEAC-I)**

Fresh water requirement	3	6.3	9.3	1.2	5.55	6.75	1.3	0.75	2.05
-------------------------	---	-----	-----	-----	------	------	-----	------	------

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	80-90 m
	Size and no of RWH tank(s) and Quantity:	At present there is 01 no. of rain water harvesting storage tank.
	Location of the RWH tank(s):	Ground
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	Not Applicable
	Budgetary allocation (O & M cost) :	Not Applicable
	Details of UGT tanks if any :	A tank of 30 CMD is there as a fire fighting water storage facility

35.Storm water drainage	Natural water drainage pattern:	-
	Quantity of storm water:	-
	Size of SWD:	SWD of 2 foot diameter

Sewage and Waste water	Sewage generation in KLD:	Existing-0.8 CMD, Proposed-0.25 CMD
	STP technology:	Septic tank & soak pit.
	Capacity of STP (CMD):	Not Applicable
	Location & area of the STP:	Not Applicable
	Budgetary allocation (Capital cost):	Not Applicable
	Budgetary allocation (O & M cost):	Not Applicable

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	Not Applicable
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	Dry waste:	Negligible amount of dry waste will get generated
	Wet waste:	Not Applicable
	Hazardous waste:	ETP sludge: -0.05 TPM, Organic Compounds - 50 Kg/M
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable

Mode of Disposal of waste:	Dry waste:	Will be given to authorized dealers.
	Wet waste:	Not Applicable
	Hazardous waste:	Hazardous waste will be Sent to CHWTSDF
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	Location(s):	On ground
	Area for the storage of waste & other material:	Negligible amount of waste will get generated from the proposed activity. Dry waste will be segregated & sent to authorized dealer, Biodegradable waste will be used as manure. Hazardous waste will be sent to CHWTSDF.
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Not Applicable
	O & M cost:	Not Applicable

37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	-	3-5	5.5-9	5.5-9
2	BOD	mg/lit	<300	<100	<100
3	COD	mg/lit	<650	<250	<250
4	TDS	mg/lit	<1000	<1000	<2100
Amount of effluent generation (CMD):		Existing- 0.5 CMD , Proposed- 0.5 CMD			
Capacity of the ETP:		1.5 CMD			
Amount of treated effluent recycled :		0			
Amount of water send to the CETP:		0			
Membership of CETP (if require):		Not Applicable			
Note on ETP technology to be used		Physicochemical treatment will be provided			
Disposal of the ETP sludge		ETP sludge will be sent to CHWTSDF			

38. Hazardous Waste Details


Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP sludge	-	TPM	0	0.05	0.05	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	1 No. of proposed Boiler of 500kgs/hrs Capacity	LDO - 5000 lit/M	1	20	0.4	160

40. Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 69 of 98


Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

1	LDO	LDO for Thermic fluid heater - 5000 lit/M	LDO for proposed Boiler 5000 lit/M	10000 lit/M
2	HSD	HSD for DG set - 6 litre/hr	Not Applicable	6 litre/hr
41.Source of Fuel		Local Vendor		
42.Mode of Transportation of fuel to site		By Road		
43.Green Belt Development	Total RG area :	1658.25 Sq.m		
	No of trees to be cut :	00		
	Number of trees to be planted :	At present, 50 No. of trees have been planted in industrial premises. In addition to which 198 extra trees will be planted.		
	List of proposed native trees :	Please refer point no. (vi)		
	Timeline for completion of plantation :	Approximately 1 year		
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	Saraca asoca	Ashoka	40	Evergreen, long lived , Native.
2	Azadirachta indica	Neem	20	Evergreen, Native, Non-flowering
3	Ficus religiosa	Peepal Tree	18	Deciduous, Evergreen , used as traditional medicine
4	Delonix regia	Gulmohar	20	Flowering plant, Ornamental tree.
5	Peltophorum pterocarpum	Yellow Gulmohar	20	Deciduous tree with orange-yellow fragrant flowers, Ornamental tree,
6	Bauhinia racemosa	Apta	30	Native, Small tree
7	Pongamia pinnata	Karanj	30	Deciduous, Native
8	Cassia fistula	Bahava	20	Native, Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant.Also used in herbal medicine.
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	Not Applicable	Not Applicable	Not Applicable	
47.Energy				


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 70 of 98


 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	Existing connected load= 60 HP, Proposed connected load= 40 HP
	During Operation phase (Demand load):	100 HP
	Transformer:	110HP
	DG set as Power back-up during operation phase:	Existing DG set of 1 X 62.5 KVA is sufficient. No provision of extra DG set.
	Fuel used:	For proposed boiler- LDO=5000 lit/M. No provision of extra DG set.
	Details of high tension line passing through the plot if any:	Not Applicable

48. Energy saving by non-conventional method:

Street lights based on solar energy will be provided

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Street lights based on solar energy	Not Applicable

50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Not Applicable	Not Applicable
Water	Not Applicable	ETP
Noise	Acoustic enclosure to DG set. DG set will be operated in case of power failure only.	Not Applicable
Solid Waste	Dry waste is being sent to authorized dealers	Biodegradable waste will be segregated . Hazardous waste will be Sent to CHWTSDF

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	3.0
	O & M cost:	1.0


51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Not Applicable	Not Applicable	Not Applicable


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	provision of stack	1.0	0.5


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 71 of 98

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

2	Water	ETP	6.0	1.0
3	Noise	Noise Pollution Control	1.0	0.25
4	Environment Monitoring	Environment Monitoring	-	0.25
5	Occupational Health	Occupational Health	0.5	0.25
6	Green Belt	Green Belt development	1.0	0.25
7	Rain Water Harvesting	Rain Water Harvesting	0.5	0.25
8	Solid waste management	Solid waste management	1.0	0.25
9	Energy conservation measures	Energy conservation measures	3.0	1.0

51.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
Provision of Separate Storage facility in the industry	NA	On ground	NA	NA	NA	Local Vendor	By Road

52.Any Other Information

No Information Available

53.Traffic Management

Nos. of the junction to the main road & design of confluence:	NA
---	----



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 72 of 98

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Parking details:	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	500 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:	Nearest Road- Nira-Pune road at approximately 0.70 Km
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	5 (f)
	Court cases pending if any	NA
	Other Relevant Informations	All the effluent that will get generated from the proposed industrial activity will be converted to byproduct. Hence there will not be any effluent arising out of Industrial Processes. Effluent will generate from Washing & cleaning activities only.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-
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 on 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 Effluent Treatment Plant for the treatment of industrial effluent. PP to ensure Zero Liquid Discharge as no CETP is in the Industrial Area.	
Drainage pattern of the project	PP provided drains as per contour on the site.	



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 73 of 98

Signature:



Name: Dr. Umakant Dangat

Dr. Umakant Dangat (Chairman SEAC-I)

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

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

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

PP to carryout base line monitoring activity after grant of ToR and use the same of the preparation of the EIA/EMP report.

ToR was granted in the 146th meeting of SEAC held on 31.01.2018 along with below mentioned additional ToR points.

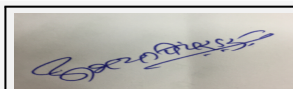
1. PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2. PP to submit lay out plan showing entry/exit gates, internal road width of six meters, turning radius of nine meters, location of pollution control equipment, parking areas, waste storage areas, 33% green belt, rain water harvesting etc.
3. PP to include detailed material balance charts for each product showing consumption of raw material, quantity of air/solid/liquid /hazardous wastes generation sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
4. PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc
5. PP to submit detailed water balance calculation showing water required for each activity, water required for domestic use , generation of waste water and its treatment and disposal mechanism along with design of Effluent Treatment Plant and commitment for achieving treated effluent parameters.
6. PP to monitor ammonia gas in the ambient air monitoring while collecting base line data.
7. PP to submit copy of HAZOP and Quantitative Risk Assessment Report.
8. PP to submit specific CSR activities including funds allocated for CSR, activities to be involved with time lines for its implementation in consultation with the District Authorities. PP to maintain separate accounts for CSR/EMP funds.
10. PP to copy of on site emergency plan.
11. PP to submit details of effluent treatment plant considering generation of domestic sewage. Plant should be a Zero Liquid Discharge as no CETP exists in the industrial area of Jejuri.
12. PP to submit equipment layout plan showing spacing between the equipment as per prevailing rules and regulations.
13. PP to include chemical handling protocol in the EIA report.
14. PP to submit structural stability certificate of existing buildings on the site.
15. PP to provide lighting arrestors.
16. PP to provide solar energy for the illumination of administrative building area and street lights.

PP submitted the EIA/EMP report.

The proposal was considered in the 153rd meeting of SEAC-1 where in the proposal was deferred till submission of compliance of following points.

1. PP to provide STP for the treatment of domestic sewage.
2. PP to include piping and instrument diagram in the HAZOP report.
3. PP to submit membership certificate of CHWTSDF.
4. PP to submit design details of single stage evaporator.
5. PP to submit structural stability certificate to accommodate proposed expansion.
6. PP to submit revised CER plan prepared in consultation with the District Authorities.

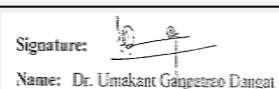
Now PP submitted the compliance of above points.



**Abhay Pimparkar (Secretary
SEAC-I)**

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 75
of 98**



**Dr. Umakant Dangat
(Chairman SEAC-I)**

DECISION OF SEAC

After deliberations with the PP and their accredited consultant, SEAC decided to recommend the proposal for prior environment clearance to the SEIAA subject to following condition.


Specific Conditions by SEAC:

1) PP to implement CER plan in consultation with the District Authorities 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

SEAC-AGENDA-0000000141


Abhay Pimparkar (Secretary
SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 76
of 98**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

156th Meeting of State Level Expert Appraisal Committee (SEAC-1)

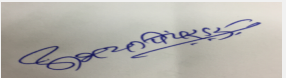
SEAC Meeting number: 156th ,Day-1 **Meeting Date** October 4, 2018

Subject: Environment Clearance for Stone Quarry for M/s Sagar Shivaji Pawar at the Gut No: 137 & 121 (Part), Village - Ambale, Taluka - Maval, District - Pune, Maharashtra.

Is a Violation Case: No

1.Name of Project	Shri Sagar Shivaji Pawar
2.Type of institution	Private
3.Name of Project Proponent	Mr. Sagar Pawar
4.Name of Consultant	M/s. Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Schedule : 1 (a) Category : B2
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	No
8.Location of the project	Gut No: 137 & 121 (Part)
9.Taluka	Maval
10.Village	Ambale
Correspondence Name:	Shri Sagar Shivaji Pawar
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	At Post - Induri Kundmala, Taluka - Maval
City:	Pune
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable. It is a minor mineral stone quarry.
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	None
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NOC has been obtained from Gram Panchayat Ambale village for stone quarrying.
15.Total Plot Area (sq. m.)	5.20 hectares
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.):
	Approved Non FSI area (sq. m.):
	Date of Approval:
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	34000000

22.Number of buildings & its configuration



Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 77
of 98**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)	
1	Not applicable	Not applicable	Not applicable	
2	Not applicable	Not applicable	Not applicable	
23.Number of tenants and shops	Not applicable			
24.Number of expected residents / users	The total workers at the quarry sites will be 13 individuals.			
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))	Not applicable			
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	Black Stone	--	23795.75	23795.75
32.Total Water Requirement				


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018


Page 78 of 98

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

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)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	--	1.00	1.00	-	0.20	0.20	--	0.80	0.80
Industrial Process	--	7.00	7.00	--	7.00	7.00	--	0.00	0.00
Gardening	--	4.00	4.00	--	4.00	4.00	--	0.00	0.00
Fresh water requirement	--	12.00	12.00	--	11.20	11.20	--	0.80	0.80


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
 October 4, 2018**

**Page 79
 of 98**

Signature: 
**Name: Dr. Umakant Dangat
 (Chairman SEAC-I)**

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	10 m below ground water
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	Not Applicable
	Budgetary allocation (O & M cost) :	Not Applicable
	Details of UGT tanks if any :	Not Applicable

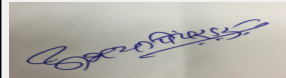
35.Storm water drainage	Natural water drainage pattern:	The slope of the area is towards South. The run-off will be maintained by providing garland drains around the quarry boundary to maintain the natural pattern.
	Quantity of storm water:	19120 m3 of storm water will be generated which will be drained off through garland drains.
	Size of SWD:	The run off will be connected to the garland drains.

Sewage and Waste water	Sewage generation in KLD:	0.8 KLD
	STP technology:	Not Applicable. Septic tank followed by soak pit will be provided.
	Capacity of STP (CMD):	Not Applicable
	Location & area of the STP:	Not Applicable
	Budgetary allocation (Capital cost):	1.25 Lakhs
	Budgetary allocation (O & M cost):	20 thousand

36.Solid waste Management


Waste generation in the Pre Construction and Construction phase:	Waste generation:	Not Applicable
	Disposal of the construction waste debris:	Not Applicable

Waste generation in the operation Phase:	Dry waste:	The top soil will be used for greenbelt development and the overburden of murrum will be backfilled in the pit itself.
	Wet waste:	Sludge generated from the septic tank
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 80 of 98

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

Mode of Disposal of waste:	Dry waste:	The top soil will be used for greenbelt development and the overburden of murrum will be backfilled in the pit itself.
	Wet waste:	Sludge generated from the septic tank will be used as a manure for gardening.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Overburden will be back-filled in the mine pit area
Area requirement:	Location(s):	Overburden will be backfilled in the mine pit area of 1.542 hectares
	Area for the storage of waste & other material:	Not Applicable
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Not Applicable
	O & M cost:	Not Applicable

37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Amount of effluent generation (CMD):		Not Applicable			
Capacity of the ETP:		Not Applicable			
Amount of treated effluent recycled :		Not Applicable			
Amount of water send to the CETP:		Not Applicable			
Membership of CETP (if require):		Not Applicable			
Note on ETP technology to be used		Not Applicable			
Disposal of the ETP sludge		Not Applicable			

38. Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

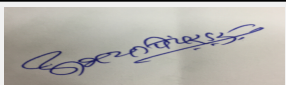
39. Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

40. Details of Fuel to be used


Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable

41. Source of Fuel	Not Applicable
--------------------	----------------



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 81 of 98


Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

42.Mode of Transportation of fuel to site		Not Applicable		
43.Green Belt Development	Total RG area :	0.9869		
	No of trees to be cut :	Not Applicable		
	Number of trees to be planted :	975		
	List of proposed native trees :	Attached Below		
	Timeline for completion of plantation :	5 Years		
44.Number and list of trees species to be planted in the ground				
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Heterophragma quadriloculare	Waras	100	A native deciduous tree visited by nectar feeding birds. Large leaf area helps in settling of dust.
2	Oroxylum indicum	Tetu	95	A native ornamental tree.
3	Nerium oleander	Kaner	100	A native hardy species, drought resistant with fragrant flowers.
4	Schleichera oleosa	Kusum	95	A native tree found in abundance in Sahyadris.
5	Terminalia elliptica	Ain	95	A native evergreen broad leaved tree common in the Sahyadris.
6	Catunaregum spinosa	Gela	100	Mountain Pomegranate is an armed shrub or small native evergreen tree
7	Butea monosperma	Palash	95	A native brilliantly flowering tree fed by local birds fairly common and abundant across the Pune District.
8	Erythrina variegata	Pangahara	95	A highly valued native ornamental tree.
9	Cassia fistula	Bahava	100	Native ornamental tree having flowers attracting bees and butterflies
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	Not Applicable	Not Applicable	Not Applicable	
47.Energy				


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 82 of 98


Dr. Umakant Dangat (Chairman SEAC-I)

Power requirement:	Source of power supply :	MSEB.
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	120 hp
	During Operation phase (Demand load):	100 hp
	Transformer:	Not Applicable
	DG set as Power back-up during operation phase:	Not Applicable
	Fuel used:	Not Applicable
	Details of high tension line passing through the plot if any:	Not Applicable

48. Energy saving by non-conventional method:


Not Applicable

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
Dust Pollution	--	Sprinkling will be done on the haul roads. Mist spraying will be done to keep the stone wet to prevent escape of fugitive emissions. The approach roads will be black topped. A thick green belt will be maintained around the lease area and on both sides of the haul roads. The vehicle carrying the stone will be covered with tarpaulin sheets to prevent the escape of fugitive dust emissions. The closed conduit type of crusher will be provided with sprinkler arrangement to prevent the escape of fug
Noise Pollution	--	A thick green belt will be maintained around the lease area and on both sides of the haul roads. Appropriate PPE's like ear muffs and ear plugs will be provided to workers exposed to high frequency noise. Green belt will be developed around the quarry area
Solid waste pollution	--	The top soil will be used for green belt development, overburden in the form of murrum will be backfilled in the pit
Sewage Pollution	--	Septic tank followed by soak pit will be provided.


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 83 of 98

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Water Pollution	--	Garland drains will be provided to maintain proper drainage of storm water. A bund around the lease area will be built around the quarry area to prevent to flow of debris in the rainy season.
-----------------	----	---

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Not Applicable
	O & M cost:	Not Applicable

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):


Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Not Applicable	Not Applicable	Not Applicable

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 Programme	Monitoring for ambient air, noise, surface water, ground water .	--	2.0 lakhs
2	Air Pollution	Black topping of approach roads, Sprinkling of water on quarry and haul roads	2.7 lakhs	0.5 lakhs
3	Air Pollution & Noise Pollution	Thick green belt development	0.75 lakhs	0.15 lakhs
4	Reclamation of pit area/ Overburden management	Afforestation will be done in the pit area	1.25 Lakhs	--
5	Sewage Pollution	Septic tank followed by soak pit will be provided	1.25 Lakhs	0.2 Lakhs
6	Water Pollution	Construction of Garland drain and stone hedge wall around the lease area.	1.75 Lakhs	0.5 Lakhs
7	Noise Pollution	Preventive Maintenance of all heavy machineries,	0.5 lakhs	0.1 Lakhs
8	Occupational health and safety	Periodic health check ups of workers and safety equipments	0.5 Lakhs	0.8 Lakhs


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
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 84 of 98

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

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:	Not Applicable
	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):	Not Applicable
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	There are no protected areas within 15 km of quarry site.
	Category as per schedule of EIA Notification sheet	Schedule 1 (a), Category B2.
	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	19-02-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable
Water Budget	PP submitted water budget calculations at Sr. No 33 of the Consolidated Statement.



Abhay Pimparkar (Secretary SEAC-I)


SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 85 of 98



Dr. Umakant Dangat (Chairman SEAC-I)


Waste Water Treatment	Not Applicable as no waste water is generated from the proposed activity.
Drainage pattern of the project	PP proposes garland drains as per contour on the plot to collect in the mine pit for reuse.
Ground water parameters	Not Applicable
Solid Waste Management	Over burden dump will be stored on site which will be converted in to green belt before closure of the mine.
Air Quality & Noise Level issues	PP proposes to use water sprinkling to suppress the dust generated during mining activity.
Energy Management	The electrical demand for proposed project is 100 HP which will be supplied by MSEDCL.
Traffic circulation system and risk assessment	PP provided approach roads for the vehicles to the mine area.
Landscape Plan	PP proposes to convert mine area in the green belt as a part of mine closure plan.
Disaster management system and risk assessment	PP proposes to protect the mine pits by providing barricades.
Socioeconomic impact assessment	Not Applicable
Environmental Management Plan	PP prepared EMP cost of Rs.9.25 Lakh as a capital cost and Rs. 4.4 Lakh as O & M cost to maintain environmental parameters.
Any other issues related to environmental sustainability	PP to ensure proper safety of mine pits before closing the mine to avoid any unforeseen incident. PP to use mine pits for the storage of rain water.
Brief information of the project by SEAC	



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 86 of 98



Dr. Umakant Dangat (Chairman SEAC-I)

PP submitted their proposal for the grant of Environmental Clearance under category 1(a)B2.

PP submitted PFR, Mining Plan and Form - 1 to the SEAC.

The proposal was considered in the 149th meeting of SEAC held on 07.04.2018 where in the proposal was deferred till submission of following points,

1. The mining plan produced by the PP is not clear and specific regarding various activities of the proposed mining. PP to submit revised mining plan approved by the competent Authority. All maps and drawings attached to the mining plan shall be signed by competent Authority.
2. PP to submit authenticate report from District Mining Officer in respect of cluster formation as mentioned in Notifications issued by MoEF&CC dated 15.01.2016 and 01.07.2016.
3. PP shall use Jack Hammer Drill along with controlled blasting for the mining activity.
4. PP to submit mining permission obtained from the District Collector.
5. PP to submit commitment on the time bound implementation plan for mitigation measures as suggested in the Environmental Monitoring Report.
6. PP to submit methodology to be used for closure of mine to be approved by the competent Authority.
7. PP to prepare CSR plan in discussion with District Authority along with implementation schedule. PP to maintain separate account for CSR funds.
8. PP to submit details of water source along with necessary permissions obtained from competent Authority.

The proposal was again considered in the 154th meeting held on 27.08.2018 where in the proposal was deferred till submission of compliance of following points.

1. PP has not complied with the point No. 4 of earlier meeting: PP to submit details of water source along with necessary permissions obtained from competent Authority.
2. PP to submit garland drain drawing up to final storage of water along with the contour map.
3. PP to generate ticket for the proposed changes in the consolidated statement and ensure correctness of the information.

Now PP submitted the compliance of above points.

 Abhay Pimparkar (Secretary SEAC-I)	SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018	Page 87 of 98	 Name: Dr. Umakant Dangat Dr. Umakant Dangat (Chairman SEAC-I)
--	--	----------------------	--

DECISION OF SEAC

After deliberations with the PP and their consultant SEAC decided to recommend the proposal for prior environment clearance to SEIAA subject to following conditions.


Specific Conditions by SEAC:

- 1) PP to submit details of water supply source.
- 2) PP to obtain lease permission from district collector before starting the mining activity.
- 3) PP to prepare and implement CER plan in consultation with the District Authorities.

FINAL RECOMMENDATION


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

SEAC-AGENDA-00000000147


Abhay Pimparkar (Secretary
SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 88
of 98**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

156th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 156th ,Day-1 Meeting Date October 4, 2018

Subject: Environment Clearance for Proposed Bunkering Facilities At Jawahar Dweep (Butcher Island) At Mumbai

Is a Violation Case: No

1.Name of Project	Proposed Bunkering Facilities At Jawahar Dweep (Butcher Island) At Mumbai
2.Type of institution	Semi Government
3.Name of Project Proponent	Hindustan Petroleum Corporation Limited
4.Name of Consultant	Ultra-Tech Environmental Consultancy and Laboratory
5.Type of project	Industrial
6.New project/expansion in existing project/modernization/diversification in existing project	Modernization
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	The existing tank farm was commissioned before 1994 so no EC was applicable under EIA notification 1994.
8.Location of the project	within MBPT Limits
9.Taluka	Mumbai
10.Village	Jawahar Dweep
Correspondence Name:	Jayendra V Rathod (Ch. Manager Engg-Direct sales SBU)
Room Number:	Hindustan Petroleum Corporation Limited
Floor:	10th Floor
Building Name:	Marathon Futurex
Road/Street Name:	N. M. Joshi Marg,
Locality:	Lower Parel
City:	Mumbai : 400013
11.Area of the project	Other
12.IOD/IOA/Concession/Plan Approval Number	PESO Approval
	IOD/IOA/Concession/Plan Approval Number: A/P/HQ/MH/15/7179/(P389738)
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	No work initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	16,588.33 Sq.m
16.Deductions	0
17.Net Plot area	0
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.):
	b) Non FSI area (sq. m.):
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.):
	Approved Non FSI area (sq. m.):
	Date of Approval: 16-05-2016
19.Total ground coverage (m2)	0
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	317400000

22.Number of buildings & its configuration


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



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 89 of 98

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)


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))	Not applicable		
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	No production is involved	Not applicable	Not applicable	Not applicable


32.Total Water Requirement

Dry season:	Source of water	MbPT
	Fresh water (CMD):	10 CMD
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	10 CMD
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	2680 Cubic meter
	Excess treated water	Not applicable


Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
 October 4, 2018**

**Page 90
 of 98**

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

Wet season:	Source of water	MbPT
	Fresh water (CMD):	10 CMD
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	10 CMD
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	2680 Cubic meter
	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)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	8 CMD	0 CMD	8 CMD	1.5	0	2	6.5	0	6.5
Industrial Process	2 CMD	0 CMD	2 CMD	0.5	0	0.5	1.5	0	1.5


34.Rain Water Harvesting (RWH)

Level of the Ground water table:	3 mtr BGL
Size and no of RWH tank(s) and Quantity:	Not applicable
Location of the RWH tank(s):	Not applicable
Quantity of recharge pits:	Not applicable
Size of recharge pits :	Not applicable
Budgetary allocation (Capital cost) :	Not applicable
Budgetary allocation (O & M cost) :	Not applicable
Details of UGT tanks if any :	Not applicable



Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 91 of 98


Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

35.Storm water drainage	Natural water drainage pattern:	Flow towards Arabian Sea
	Quantity of storm water:	1000 Cubic Meter/hr during Maximum Rainfall
	Size of SWD:	Dia- 2 ft
Sewage and Waste water	Sewage generation in KLD:	6.5 KLD
	STP technology:	STP with MBBR Technology will be provided during Operation Phase
	Capacity of STP (CMD):	1 STP with 10 KLD Capacity
	Location & area of the STP:	near MBPT Rest House
	Budgetary allocation (Capital cost):	1500000
	Budgetary allocation (O & M cost):	150000
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	37.5 kg/day
	Disposal of the construction waste debris:	handed over to authorized vendors
Waste generation in the operation Phase:	Dry waste:	1 kg/day
	Wet waste:	2.5 kg/day
	Hazardous waste:	sludge from cleaning of tanks (approx 500 L), Waste Oil from Oil Water Separator, Vehicles, DG Set etc.(1 m3/year), Oily rags 5 kg/year)
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	1 kg/month
	Others if any:	0
Mode of Disposal of waste:	Dry waste:	Authorized Contractor
	Wet waste:	Authorized Contractor
	Hazardous waste:	handed over to authorized party approved by MPCB and CHWTSDF
	Biomedical waste (If applicable):	not any
	STP Sludge (Dry sludge):	will be used in green cover on island
	Others if any:	Not applicable
Area requirement:	Location(s):	0
	Area for the storage of waste & other material:	0
	Area for machinery:	0
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	0
	O & M cost:	0
37.Effluent Charecterestics		


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 92 of 98

Signature: 
Name: Dr. Umakant Dangat (Chairman SEAC-I)

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Oil and Grease	mg/l	50	10	10 mg/l
Amount of effluent generation (CMD):		Not applicable			
Capacity of the ETP:		Not applicable			
Amount of treated effluent recycled :		Not applicable			
Amount of water send to the CETP:		Not applicable			
Membership of CETP (if require):		Not applicable			
Note on ETP technology to be used		Not applicable			
Disposal of the ETP sludge		Not applicable			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used/Spent Oil	5.1	MTA	0.6	0	0.6	Authorized MPCB Vendor

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	NA	NA	0	0	0	NA

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	NA	NA	NA	NA

41.Source of Fuel

NA

42.Mode of Transportation of fuel to site

NA

43.Green Belt Development

Total RG area :	Not applicable
No of trees to be cut :	Not applicable
Number of trees to be planted :	Not applicable
List of proposed native trees :	Not applicable
Timeline for completion of plantation :	Not applicable

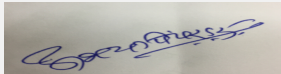
44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Not applicable	Not applicable	Not applicable	Not applicable

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
---------------	------	--------------	---------


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018

Page 93
of 98

Signature: 
Name: Dr. Umakant Dangat
Dr. Umakant Dangat
(Chairman SEAC-I)

1	Not applicable	Not applicable	Not applicable
---	----------------	----------------	----------------

47. Energy

Power requirement:	Source of power supply :	BEST (Brihan Mumbai Electric Supply and Transport)
	During Construction Phase: (Demand Load)	1400 KVA
	DG set as Power back-up during construction phase	1000 KVA
	During Operation phase (Connected load):	1075 kW
	During Operation phase (Demand load):	1079 kW
	Transformer:	Not applicable
	DG set as Power back-up during operation phase:	1 DG set of capacity 1000 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not applicable

48. Energy saving by non-conventional method:

Solar Lighting will be provided

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
Sewage	Septic Tank	STP of MBBR Technology
DG set	stack	Not applicable
Oily Water	Oil Water Separator	Not applicable

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Not applicable
	O & M cost:	Not applicable

51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Air monitoring	0.5
2	Water	Water monitoring	0.5
3	Occupational Health Safety	PPE & First Aid facilities	2.0
4	Noise	Noise monitoring	0.5


Abhay Pimparkar (Secretary SEAC-I)

SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018

Page 94 of 98

Signature: 
 Name: Dr. Umakant Dangat
Dr. Umakant Dangat (Chairman SEAC-I)

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	MBBR Technology	15	1.5
2	Oil Water Separator	Oil Water Separator	20	5

51.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
FO - 380, Class ``C	Proposed	As per layout	3375.52	3375.52	10000	HPCL-Mumbai Refinery-Mahul	Pipeline
FO - 380, Class ``C"	Proposed	As per layout	4321.58	4321.58	10000	THPCL-Mumbai Refinery-Mahul	Pipeline
HSD, Class ``B"	Proposed	As per layout	1327.80	1327.80	5000	HPCL-Mumbai Refinery-Mahul	Pipeline
HF HSD, Class ``C"	Proposed	As per layout	3340.25	3340.25	5000	HPCL-Mumbai Refinery-Mahul	Pipeline
FO - 380, Class ``C"	Proposed	As per layout	2863.07	2863.07	10000	HPCL-Mumbai Refinery-Mahul	Pipeline
Fire Water Tank	Proposed	As per layout	1112.03	1112.03	1112.03	MbPT	Pipeline

52.Any Other Information

No Information Available

53.Traffic Management

Nos. of the junction to the main road & design of confluence:	0
---	---



Abhay Pimparkar (Secretary SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
 October 4, 2018**

**Page 95
 of 98**


Signature: 
 Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
 (Chairman SEAC-I)**

Parking details:	Number and area of basement:	0
	Number and area of podia:	0
	Total Parking area:	0
	Area per car:	0
	Area per car:	0
	Number of 2-Wheelers as approved by competent authority:	0
	Number of 4-Wheelers as approved by competent authority:	0
	Public Transport:	0
	Width of all Internal roads (m):	5 m
CRZ/ RRZ clearance obtain, if any:	yes CRZ Applicable. MCZMA has already recommended the proposal to MoEF, New Delhi in 121st Meeting held on 15th and 16th September 2017	
Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	not any	
Category as per schedule of EIA Notification sheet	6 b	
Court cases pending if any	Not applicable	
Other Relevant Informations	The proposal was submitted to EAC Ind-2, MoEF&CC, New Delhi for approval of TOR on 7th January 2017 as Maharashtra SEAC was dissolved. EAC Ind-2 awarded TOR for the proposal vide letter no.F.NO. J-11011/13/2017-IA.II(I) dated 26th May 2017. The proposal was submitted to EAC for EIA appraisal on 2nd Feb 2018. EAC Ind-2 directed to appraise the project at State Level as Maharashtra SEAC is reconstituted.	
Have you previously submitted Application online on MOEF Website.	Yes	
Date of online submission	15-11-2017	
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 on site.	


Abhay Pimparkar (Secretary
SEAC-I)

**SEAC Meeting No: 156th ,Day-1 Meeting Date:
October 4, 2018**

**Page 96
of 98**

Signature: 
Name: Dr. Umakant Dangat
**Dr. Umakant Dangat
(Chairman SEAC-I)**

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 agreed to provide STP for the treatment of domestic sewage generated from various activities on the island.
Drainage pattern of the project	PP to consider contour levels while designing the storm water drains.
Ground water parameters	Not Applicable
Solid Waste Management	PP proposes to hand over used/spent oil to the Authorized Vendor.
Air Quality & Noise Level issues	As per data submitted by PP, Air Quality and Noise parameters are within the prescribed limits at project site. PP to include VOC parameter in the air monitoring.
Energy Management	The electrical demand for proposed project is 1079 kW which will be supplied by BEST. PP also proposes to have 1000 KVA DG set with HSD as a fuel.
Traffic circulation system and risk assessment	PP to ensure internal roads are having minimum road width of six meter and turning radius of nine meters.
Landscape Plan	PP to provide green belt as per OM issued by MoEF&CC dated 09.08.2018. The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
Disaster management system and risk assessment	PP carried out Risk Assessment and prepared Disaster Management Plan.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP prepared EMP cost of Rs.3.5 Lakhs during construction phase, Rs. 35 Lakhs as a capital cost during operation phase and Rs. 2.0 Lakhs as O & M cost to maintain environmental parameters.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

MoEF&CC granted ToR to the project on 26th May, 2017 stipulating following additional conditions.

1. Public Hearing is exempted under para 7 (ii) of the EIA Notification, 2006.
2. SCZMA recommendation shall be obtained.

Now PP submitted EIA/EMP report.

DECISION OF SEAC

 Abhay Pimparkar (Secretary SEAC-I)	SEAC Meeting No: 156th ,Day-1 Meeting Date: October 4, 2018	Page 97 of 98	 Dr. Umakant Dangat (Chairman SEAC-I)
--	--	----------------------	--

