Agenda of 163rd Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 163 **Meeting Date** March 13, 2019

Subject: Environment Clearance for Environment Clearance for Opencast Mining Project of Nagartaswadi Bauxite Mine

Is a Violation Case: No

1.Name of Project	Nagartaswadi Bauxite Mine
2.Type of institution	Private
3.Name of Project Proponent	Hindalco Industries Ltd.
4.Name of Consultant	Srushti Seva Private Limited
5.Type of project	Mining Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Khasra No. 121(P) of Kanur Khurd Village, Khasra No. 61(P) of Pundra Village, Khasra No. 52(P) of Kanur Budruk Village and Khasra No. 54(P), 55(P), 58(P) 59(P) and 61(P) of Dhamapur Village
9.Taluka	Chandgad
10.Village	Kanur Khurd, Pundra, Kanur Budruk and Dhamapur
Correspondence Name:	Hindalco Industries Ltd.
Room Number:	-
Floor:	7th floor,
Building Name:	Birla Centurion,
Road/Street Name:	21, Pandurang Budhkar Marg,
Locality:	Worli
City:	Mumbai
11.Area of the project	Corporation
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area:
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.)	42.90 Ha
16.Deductions	Not applicable
17.Net Plot area	42.90 Ha
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 18-08-2017
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	20039000

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)	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	Bauxite	Nil	21186.58	21186.58

32.Total Water Requirement

Dry season:	**Source of water**	Purchased Tanker water and Borewell water
	Fresh water (CMD):	35
	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**	Purchased Tanker water and Borewell water
	Fresh water (CMD):	35
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	Nil	2.5	2.5	Nil	0.5	0.5	Nil	2	2
Gardening	Nil	32.5	32.5	Nil	32.5	32.5	Nil	Nil	Nil
Fresh water requirement	Nil	35	35	Nil	33	33	Nil	2	2

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 to 12 m bgl
	Size and no of RWH tank(s) and Quantity:	Garland drains 700 m
	Location of the RWH tank(s):	Along the east and west boundary of mining lease area
	Quantity of recharge pits:	To be estimated
	Size of recharge pits :	700 length x 2 m width x 1 m depth : Garland drain
	Budgetary allocation (Capital cost) :	Rs. 500000
	Budgetary allocation (O & M cost) :	Rs. 50000
	Details of UGT tanks if any :	Not Applicable

35.Storm water drainage	**Natural water drainage pattern:**	Not Applicable. However, the storm water due to rainfall will be channelized to the natural water courses like gullies and depression through appropriate drain.
	Quantity of storm water:	Rainfall runoff
	Size of SWD:	Not Applicable
Sewage and Waste water	**Sewage generation in KLD:**	Not Applicable
	STP technology:	Not Applicable
	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:**	2,17,676 Cum
	Wet waste:	Nil
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Mode of Disposal of waste:	**Dry waste:**	Waste dump material shall be used for backfilled in the mining area .
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Within mining lease area
	Area for the storage of waste & other material:	21.81 Ha area shall be backfilled and used for Plantation.
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not Applicable
	O & M cost:	Not Applicable
37.Effluent Charecterestics		

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	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
41.Source of Fuel		-		
42.Mode of Transportation of fuel to site		-		

43.Green Belt Development	**Total RG area :**	34.08 Ha
	No of trees to be cut :	-
	Number of trees to be planted :	68160 nos
	List of proposed native trees :	Shikekai, Fanas, Cashew, Mango, Umbar, Karak, Karanj, Sag, Jambhul, etc.
	Timeline for completion of plantation :	Within 5 years from the date of start of mine

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	Acacia concinna	Shikekai	5500	Created to intercept dust, gaseous pollutants and noise
2	Artocarpus heterophyllus	Fanas	8000	Created to intercept dust, gaseous pollutants and noise and Fruits

3	Anacardium occidentale	Cashew	8000	Created to intercept dust, gaseous pollutants and noise and Fruits
4	Mangifera indica	Mango	8000	Created to intercept dust, gaseous pollutants and noise and Fruits
5	Syzygium cumini	Jambhul	8000	Created to intercept dust, gaseous pollutants and noise and Fruits
6	Dendrocalamus strictus	Karak	8000	Created to intercept dust, gaseous pollutants and noise
7	Ficus racemosa	Umbar	5000	Created to intercept dust, gaseous pollutants and noise and Fruits
8	Jasminum malabaricum.	Kusar	5500	Created to intercept dust, gaseous pollutants and noise
9	Tectona grandis	Sag	6000	Created to intercept dust, gaseous pollutants and noise to be used for timber
10	Pongamia pinnata	Karanj	6160	Created to intercept dust, gaseous pollutants and noise
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	Nil	Not Applicable	Not Applicable

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Power Distribution Company Limited
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	The energy requirement of lights and fans of the Mine Office.
	During Operation phase (Demand load):	-
	Transformer:	Not Required
	DG set as Power back-up during operation phase:	One DG set 45 KVA capacity
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	None

48.Energy saving by non-conventional method:

10 Solar Light poles within mining lease area .

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

1	-	10 lamps

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air Pollution	-	Black topping of approach road, Water Sprinkling during mining activities
Water Pollution	-	Construction of Garland Drain & Bund
Noise Pollution	-	Preventive Maintenance of all machinery, equipment

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 150000/-
	O & M cost:	Rs. 20000/-

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 Pollution Control	Dust Suppression	5	3
2	Water Pollution Control	Desilting Tanks, garland drain, Boulder Check plug, Septic Tanks/Soak Pits, Mine water sedimentation pond & pumps	7	3
3	Pollution Monitoring	Hydrogeological monitoring, Air, Water, Noise Vibration Monitoring	Nil	2
4	Conservation of Natural Resources	Solar Lightening arrangement, Rainwater Harvesting ,Soil preservation (biological reclamation)	3	2
5	Plantation /Reclamation	Biological reclamation, Plantation, Reclamation (Dump)	7	3
6	Occupational Health	Fire Fighting Equipments (portable), Personnel protection equipments (goggles , gloves, helmets, dust mask, safety boots)	3	2

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Nil	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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	Not Applicable
	Category as per schedule of EIA Notification sheet	Not Applicable
	Court cases pending if any	Not Applicable
	Other Relevant Informations	-

	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

DECISION OF SEAC

PP requested to postpone the case.

Hence, SEAC-1 decided to defer the proposal.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda of 163rd Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 163 **Meeting Date** March 13, 2019

Subject: Environment Clearance for Environmental Clearance for Production Capacity Enhancement of Perfumery Chemicals & Fine Chemicals Manufacturing Unit of Harmony Organics Pvt. Ltd. at Plot No. D-5, MIDC Kurkumbh

Is a Violation Case: No

1.Name of Project	M/s Harmony Organics Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Ravi Nangia
4.Name of Consultant	Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Expansion of Perfumery Chemicals & Fine Chemicals manufacturing unit, Schedule 5 (f), Category B -1 under EIA Notification 2006
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in Existing Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot No. D-5, Kurkumbh MIDC
9.Taluka	Daund
10.Village	Kurkumbh
Correspondence Name:	Mr. Ravi Nangia
Room Number:	126
Floor:	--
Building Name:	Fortune Estates
Road/Street Name:	Indraprashta Society near Aakshwani
Locality:	Hadapsar
City:	Pune-411028
11.Area of the project	Kurkumbh MIDC
12.IOD/IOA/Concession/Plan Approval Number	--
	IOD/IOA/Concession/Plan Approval Number: --
	Approved Built-up Area: 3015
13.Note on the initiated work (If applicable)	Currently manufacturing unit is present on plot
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	24,200 m2
16.Deductions	--
17.Net Plot area	--
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.): 9530
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** --
	Approved Non FSI area (sq. m.): --
	Date of Approval: 25-08-2006
19.Total ground coverage (m2)	--
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	--
21.Estimated cost of the project	49000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	NA	NA	NA
2	NA	NA	NA
3	.NA	NA	NA
4	.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)	35 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	Full-fledged manufacturing unit for Perfumery Chemicals & Fine Chemicals is present on project plot
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	Phenyl Ethyl Alcohol (PEA) & Its Esters/ Epoxyethyl benzene (EEB)/ Phenylacetaldehyde/ Phenyl Acetaldehyde Dimethyl Acetal (PADMA)	Phenyl Ethyl Alcohol (PEA) &Its Esters – 40, Epoxyethyl benzene (EEB) – 40	520.00	600.00
2	Phenyl Ethyl Alcohol (PEA) - Only by purification & distillation process	200.00	Production will be stopped	Production will be stopped
3	1,3 Butylene Glycol (1,3 BG Crude)	--	120.00	120.00
4	1,3 Butylene Glycol (1,3 BG Distillate) / Styrallyl Acetate	--	60.00	60.00
5	Cinnamic Alcohol/ Cinnamic Aldehyde	Cinnamic Aldehyde – 30	370.00	400.00

6	Para Anisyl Acetate	2.5	Production will be stopped	Production will be stopped
7	Para Anisyl Aldehyde (PAA) PG	5.00	Production will be stopped	Production will be stopped
8	Para Cresyl Methyl Ether (PCEM) PG	6.6	Production will be stopped	Production will be stopped
9	Amyl Salicylate/ Dicyclopentadiene esters/ Benzyl Acetate	--	90.00	90.00
10	Methyl Pentanone (3-Methyl-3-penten-2-one) (MPO)	Methyl Pentanone -30	150.00	180.00
11	Methyl Pentanone (MPO)-Only by purification &distillation process	150.00	Production will be stopped	Production will be stopped
12	Hydrogen	--	30.00	30.00
13	Recovered Sodium Chloride (By-products)	--	613.00	613.00
14	Recovered Sodium Sulfate (By-product)	--	311.00	311.00
15	Low purity Distilled Products	--	150.00	150.00
16	Technical Grade Phenyl Ethyl Alcohol/Styrene Oxide/Methyl Pentanone / Cinnamic Aldehyde/DCPD Ester/Styrally Acetate	--	204.00	204.00
17	Lube Oil/ Recovered Solvents/ Dil.Acetic Acid	--	100.00	100.00

32.Total Water Requirement

Dry season:	**Source of water**	Kurkumbh MIDC
	Fresh water (CMD):	469.6
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	469.6
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	200 KL
	Excess treated water	Not applicable

Wet season:	**Source of water**	Kurkumbh MIDC
	Fresh water (CMD):	420.6
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	420.6
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	200 KL
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	6.0	10.0	16.1	2.0	1.22	3.22	4.0	8.88	12.88
Industrial Process	10.0	65.0	75.0	--	--	--	10.0	144.0	154.0 (79.0 is generated in manufacturing process)
Cooling tower & thermopack	102.0	252.5	354.5	65.0	105.9	170.9	13.0 (24.0 Boiler condensate recovery)	26.6	39.6 (144.0 Boiler condensate recovery)
Gardening	2.0	22.0	24.0	--	--	--	--	--	--

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre-monsoon - 7.48 (mbgl) Post monsoon - 3.76 (mbgl)
	Size and no of RWH tank(s) and Quantity:	25 m3 x 1 no.
	Location of the RWH tank(s):	Above the UG MIDC water storage tank
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 15 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 1.0 Lakhs/Annum
	Details of UGT tanks if any :	MIDC water storage tank of 470.0 m3
35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	13.26 m3/hr.
	Size of SWD:	Width = 0.23 m, Depth = 0.75 m, Length = 775.2 m, Capacity of SWD = 133.72 m3
Sewage and Waste water	**Sewage generation in KLD:**	12.88 m3/day
	STP technology:	Domestic sewage will be sent to aeration tank of ETP
	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:**	Construction waste will be generated
	Disposal of the construction waste debris:	Recyclable waste such as left over metal roads, card boards, wooden flanks, boxes will be sold to recycler & inert debris will be used as filling material within project plot
Waste generation in the operation Phase:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	1) Spent Solvents - 0.83 T/M 2) Distillation Technical Grade Residue - 2.92 T/M 3) MEE Salt - 666.67 T/M 4) ETP Sludge - 18 T/M 5) Packaging waste material - 500 kg/M 6) Empty Carboys, Containers, Drums - 250 units/month
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	1) Spent Solvents will be recycled within process, 2) Empty Drums, Carboys, Containers will be recycled through MPCB authorized vendors 3) Distillation Technical Grade Residue will be either sent to CHWTSDF Ranjangaon/Sale to authorized vendor for recycling 4) MEE Salt will be either sent to CHWTSDF Ranjangaon/Sale as raw material 5) ETP Sludge will be sent to CHWTSDF Ranjangaon 6) Packing waste material will be sent to CHWTSDF Ranjangaon
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	South East Corner of Plot
	Area for the storage of waste & other material:	100 m2
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	1.16	7.10	5.5 - 9
2	SS	mg/l	5,228.0	BDL	100.0
3	TDS	mg/l	2,96,058.0	165.30	2100.0
4	BOD (27 degree C)	mg/l	9,710.0	27.0	30.0
5	COD	mg/l	28,800.0	125.0	250.0

Amount of effluent generation (CMD):	193.6
Capacity of the ETP:	ETP - 200 CMD, MEE - 200 CMD & R.O - 230 CMD
Amount of treated effluent recycled :	Recycled effluent - 171.15 (R.O Permeate), Boiler condensate recovery - 144.0 CMD
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	1) HCOD-HTDS effluent from manufacturing process, scrubber blow down & R.O reject will be subjected to MEE 2) LCOD- LTDS effluent comprising of boiler, cooling tower blow downs & domestic sewage will be subjected full fledged ETP comprising of primary, secondary & tertiary treatment scheme followed by R.O
Disposal of the ETP sludge	CHWTSDF, Ranjangaon

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Solvents	20.2	T/M	--	0.83	0.83	Will be recycled within the process
2	Distillation Technical Grade Residue	20.3	T/M	0.42	2.5	2.92	CHWTSDF, Ranjangaon / Sale to authorized vendor for recycling

3	MEE Salt	37.3	T/M	--	666.67	666.67	CHWTSDF, Ranjangaon / Sale as Raw material
4	ETP Sludge	35.3	T/M	0.25	17.75	18.0	CHWTSDF, Ranjangaon
5	Packing waste material	33.1	T/M	0.1	0.4	0.5	CHWTSDF, Ranjangaon
6	Empty Drums, Carboys, Containers	--	Units/M	100.0	150.0	250.0	Recycle through MPCB Authorized 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	Process Scrubber	--	1	11	0.15	--
2	4 TPH Steam Boiler	Coal - 638.3 kg/hr.	2	32.5	0.96	112 oC
3	2 Nos. - 10 TPH Steam Boilers	Coal - 3191.4 kg/hr	3 (Common Stack)	49	1.145	130 oC
4	D.G - 500 kVA	High Speed Diesel - 50 l/hr.	4	4.5	0.45	185 oC
5	D.G - 500 kVA	High Speed Diesel - 50 l/hr.	5	4.5	0.45	185 oC
6	D.G - 500 kVA	High Speed Diesel - 50 l/hr.	6	4.5	0.45	185 oC
7	D.G - 500 kVA	High Speed Diesel - 50 l/hr.	7	4.5	0.45	185 oC

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Caol	5.0 MT/D	25.0 MT/D	30.0 MT/D
2	High Speed Diesel	20.0 l/hr.	200.0 l/hr.	200.0 l/hr.
41.Source of Fuel		Local vendor		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	7990.85 m2
	No of trees to be cut :	--
	Number of trees to be planted :	435
	List of proposed native trees :	Alstonia scholaris,
	Timeline for completion of plantation :	Till Project completion

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	20	A native deciduous tree visited with large leaf area which helps in dust settling
2	Oroxylum indicum	Tetu	20	A native ornamental tree
3	Nerium oleander	Kaner	20	A native drought resistant hardy species, with fragrant flowers
4	Schleichera oleosa	Kusum	20	A native tree found in abundance in Sahyadris
5	Terminalia elliptica	Ain	20	A native evergreen broad leaved tree common in the Sahyadris
6	Terminalia paniculata	Kinjal	20	A native tree having large distribution in Sahyadris
7	Alstonia scholaris	Saptaparni	20	A native evergreen tree having high dust settling index
8	Butea monosperma	Palash	20	A native brilliantly flowering tree fairly common and abundant across the Pune District
9	Erythrina variegata	Panghara	20	A highly valued native ornamental tree
10	Cassia fistula	Bahava	20	A native ornamental tree with excellent bloom
11	Helicteres isora	Murudsheng	20	A native shrub extensively found in the tracts & plains of sahyadri used as roost plant by variety of birds
12	Tabernaemontana alternifolia	Naagkuda	20	A native flowering tree
13	Macaranga peltata	Chandwar	20	A native tree found in abundance across the Sahyadri range
14	Azadirachta indica	Neem	55	A native evergreen tree known for plantation in polluted area
15	Bridelia retusa	Asana	20	Native evergreen tree
16	Bombax ceiba	Sawar	20	Native ornamental tree
17	Pterospermum acerifolium	Muchkund	20	A native evergreen tree used for ornamental plantations
18	Cordia dichotoma	Shelu	20	Native deciduous tree
19	Neolamarckia cadamba	Kadamba	20	A native evergreen tree with thick canopy
20	Derris indicia	Karnaj	20	A native tree blooming throughout the year
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	2400 kW
	During Operation phase (Demand load):	900 kVA
	Transformer:	1 No. - 500 kVA
	DG set as Power back-up during operation phase:	500 kVA x 4 Nos.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar street lights	16 Nos.

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Waste water generated form industrial activities	Conventional ETP of 10 CMD along with MEE 24 CMD & Sewage passed through Septic Tank and taken to secondary of ETP	Up gradation of ETP to 200 CMD capacity & MEE to 250 CMD capacity & installation of R.O of 230 CMD capacity
Manufacturing process	--	Installation of process (acid) scrubber of 2000 CFM capacity
1.5 & 4.5 TPH Steam Boilers	Common stack of 32.5 m height	Stack of 32. 5 m height for 4.5 TPH Steam Boiler, Note: Existing steam boiler of 1.5 will be sold out
2 Nos. Steam Boilers - 10 TPH	--	Common stack of 49.0 m height
D.G - 250 kVA	Stack of 3.5 height	This D. G will be sold out
D.G - 500 kVA	--	Stack of 4.5 m height
D.G - 500 kVA	--	Stack of 4.5 m height
D.G - 500 kVA	--	Stack of 4.5 m height
D.G - 500 kVA	--	Stack of 4.5 m height

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1,92,000.00
	O & M cost:	30,000.00

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air	Installation of 1 No. process scrubber of 2000 CFM capacity, provision of new common stack of 49 m for 2 No. 10 TPH steam boilers & provision of cyclone dust collector and bag filter for 2 No. 10 TPH steam boilers	70.0	10.0
2	Water	Up gradation of ETP to 200 CMD capacity & MEE to 200 CMD capacity & installation of R.O of 230 CMD capacity	350.0	30.45
3	Noise	Installation of anti-vibration pads for machineries, & Construction of enclosures for D.G's & Steam Boilers	10.0	0.5
4	Noise	Installation of anti-vibration pads for machineries, & Construction of enclosures for D.G's & Steam Boilers	10.0	0.5
5	Solid Waste Management	Purchase of additional containers/bags for storage of solid waste, concrete paving of hazardous waste storage area	2.5	0.75
6	Solid Waste Management	Purchase of additional containers/bags for storage of solid waste, concrete paving of hazardous waste storage area	2.5	0.75
7	Environment Monitoring and Management	Periodic moitoring of various environmental components & parameters	--	5.5

8	Rain Water Harvesting	Installation of RWH system & annual cleaning and maintenance of RWH tank	7.5	0.75
9	Energy Conservation	Installation of solar lights within project premises	1.92	0.3

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Styrene	Liquid	UG storage tank	50.0	50.0	720.0	Imports via. Kandla	Road Tanker
Hydrogen peroxide (50%)	Liquid	Surface tank (Tank farm)	0.5	0.5	559.0	Domestic	Road Tanker
Sodium Hydroxide (50%)	Liquid	Surface tank (Tank farm)	50 .0	50.0	488.0	Domestic	Road Tanker
Hydrochloric acid	Liquid	Surface tank (Tank farm)	50.0 & 20 .0	70 .0	732.0	Domestic	Road Tanker
Hydrogen gas	Gas	Hydrogen Quad	60.0 & 20 .0	80 .0	12.68	Domestic	Road Cylinder Trolley
Nitrosonapthol	Solid/Powder	RM Store	20.0 kg HDPE Drum	0.02	0.012	Domestic	Road Truck
Palladium on C Catalyst	Solid/Powder	RM Store	20 kg (3 bags)	0.06	0.024	Domestic	Road Truck
Sodium bicarbonate	Solid/Powder	RM Store	20 kg/bag (500 bags)	10 .0	6.0	Domestic	Road Truck
NaOH flakes	Solid	RM Store	50 kg/Bag (100 bags)	5 .0	3.2	Domestic	Road Truck
Methanol	Liquid	Underground storage tank	25 .0	25.0	264.0	Imports	Road Tanker
Acetaldehyde	Liquid	Surface Tank	30 .0	60 .0	313.0	Domestic	Road Tanker
Methyl Ethyl Ketone	Liquid	Underground storage tank	50 .0	50 .0	189.0	Domestic	Road Tanker
Sulfuric Acid (98%)	Liquid	Surface tank farm area	12 .0	12.0	55.0	Domestic	Road Tanker
Sodium Carbonate	solid	RM store	50KG HDPE bag (400.0)	20 .0	15.0	Domestic	Road Tanker
Acetaldol	Liquid	Surface tank farm	15.0 & 25.0	25 .0	80.0	Domestic	Road Tanker
Raney Ni Catalyst	Solid	RM store	20 kg Drum (50 Drums)	1.0	1.0	Domestic	Road Truck
Acetic Acid	Liquid	Surface tank	25.0	25.0	44.0	Domestic	Road ISO Container
Benzaldehyde	Liquid	Surface storage tank farm	40 KL - 2 Nos.	80.0	520.0	Domestic	Road Truck

Pt on C Catalyst	Solid	RM store	20 kg drum (3 drums)	0.06	0.03	Domestic	Road Truck
Iso Amyl Alcohol	Liquid	Surface tank farm	25.0	25.0	20.0	Imports	Road ISO Container
Salicylic Acid	Liquid	Surface tank	30.0	30.0	30.0	Imports	Road Truck
Toluene	Liquid	RM Store	10.0	10.0	10.0	Imports	Road Tanker
Benzyl Chloride	Liquid	Storage tank	20 .0	20 .0	50.0	Domestic	Road Tanker
Acetophenone	Liquid	Storage tank	10.0	10.0	40.0	Domestic	Road Tanker
Sodium Acetate	Solid	RM Store	50 kg HDPE Bags (200 bags)	10.0	50.0	Domestic	Road Tanker
Dicyclopentadiene	Liquid	Tank Farm	10.0	15.0	60.0	Domestic	Road Tanker
Myrcene	Liquid	Tank Farm	10.0	10.0	40.0	Domestic	Road Tanker
Phospheric Acid	Liquid	Tank Farm	10.0	10.0	15.0	Domestic	Road Tanker

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:**	NA
	Number and area of podia:	NA
	Total Parking area:	2431.46 m2
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	--
	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	NA

	Court cases pending if any	NA
	Other Relevant Informations	1. Fresh water requirement during dry season = 469.60 CMD 2. Fresh water requirement during wet season = 420.6 CMD 3. Entire project after expansion will be run as Zero Liquid Discharge (ZLD) Activity
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	20-09-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006 for the expansion of their existing manufacturing plant. 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

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.

DECISION OF SEAC

Draft Terms of Reference (TOR) have been discussed and finalized during the meeting of SEAC-1. The committee prescribed the following additional TOR along with Standard TOR as available on the Ministry of Environment, Forest and Climate Change website for preparation of EIA-EMP report.

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of board of directors and memorandum of articles.
2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
3) PP to carry out life cycle analysis of the activities carried out on site with respect to the acidification potential, eutrophication potential, green house and ozone depletion potential etc and proposed mitigation measures to reduce the identified potentials.
4) 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.
5) PP to include detailed water balance calculations along with design details of zero liquid discharge ETP in the EIA report.
6) PP to carry out HAZOP and QRA and submit disaster management plan.
7) PP to submit hazardous chemical handling protocol
8) PP to include details of generation and disposal of hazardous waste including by - products as per Hazardous and other waste (Management and Transboundry Movement) Rules, 2016 in the EIA report.
9) PP to submit details of Indian/international standards with respect to the human health hazards applicable for the prefumary manufacturing and also to submit comparative statement for the quality of proposed prodicts against the Indian/Internation standards.
10) PP to include water and carbon foot print monitoring in the EMP.
11) PP to submit technical note on how proposed expansion will be accommodated in the existing manufacturing plant along with equipment layout, spaces required for storage of raw materials and finished products etc.
12) PP to submit structural stability certificate of existing building with respect to the proposed expansion.
13) PP to use new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly PP to provide lightening arrestor.
14) PP to prepare the Legal Register with respect to compliance of various Acts , Rules and Regulations applicable to the manufacturing activities.

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.

Agenda of 163rd Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 163 **Meeting Date** March 13, 2019

Subject: Environment Clearance for Alchemy Laboratories Pvt Ltd

Is a Violation Case: No

1.Name of Project	Alchemy Laboratories Pvt Ltd
2.Type of institution	Private
3.Name of Project Proponent	Dr. Bhanudas Jagannath Mohite
4.Name of Consultant	Sadekar Enviro Engineers Pvt Ltd
5.Type of project	Greenfield Project of API intermediates manufacturing unit falling under Schedule 5(f),Category B-1 under EIA notification 2006.
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	Not Applicable
8.Location of the project	Plot No:D-62, Mahad Industrial Area, Village Birwadi, District Raigad, State Maharashtra.
9.Taluka	Mahad
10.Village	Birwadi
Correspondence Name:	Dr. Bhanudas Jagannath Mohite
Room Number:	Plot No 93
Floor:	Not applicable
Building Name:	Dnyaneshwari Bunglow
Road/Street Name:	Sector 20, Kharghar
Locality:	Kalmboli
City:	Kharghar, panvel
11.Area of the project	Maharashtra Industrial Development Corporation (Mahad)
12.IOD/IOA/Concession/Plan Approval Number	--
	IOD/IOA/Concession/Plan Approval Number: --
	Approved Built-up Area: 3886
13.Note on the initiated work (If applicable)	No work will be initiated until environmental clearance is obtained
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	--
15.Total Plot Area (sq. m.)	16044 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.): 7448
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: 18-09-2017
19.Total ground coverage (m2)	3886
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	230000000

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 meter
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 meter
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	Anaesthesia	-	-	-
2	Propofol	0	5	5
3	Sevoflurane	0	50	50
4	Desflurane	0	50	50
5	Anti Peptic ulcer	-	-	-
6	Ompeprazole	0	5	5
7	Anti TB	-	-	-
8	Ethionamide	0	5	5
9	Prothionamide	0	5	5
10	Anti-bacteria	-	-	-
11	Levofloxacine	0	5	5
12	Anti-diabetic	-	-	-
13	Metformin Hydrochloride	0	400	400
14	Gliclizide	0	5	5
15	Anti-histamine	-	-	-
16	L-Cloperastine Fendizoate	0	1	1

17	Anti-Muscarinic	-	-	-
18	P-Amino Salicyclic Acid	0	50	50
19	Anti-Stroke	-	-	-
20	Clopidogril	0	2	2
21	Histamine	-	-	-
22	Dimenhydrinate	0	1	1
23	Hypertension	-	-	-
24	Atorvastatine	0	5	5
25	Rosuvastatin	0	1	1
26	Migraine	-	-	-
27	Isometheptene Mucate/HCl	0	5	5
28	Parkinson	-	-	-
29	Pramipexole HCl	0	0.1	0.1
30	Steroidal hormone	-	-	-
31	Dydrogestereone	0	0.3	0.3
32	By Product	-	-	-
33	Potassium Fluoride	0	75	75
34	Potassium Fluoride & Potassium Chloride	0	75	75
35	Formulation	-	-	-
36	Liquid Bottle Filling (250 ml)	0	500000 Nos.	500000 Nos.
37	Tablet (500 mg)	0	200000000 Nos.	200000000 Nos.

32.Total Water Requirement

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

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

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	0	5	5	0	1	1	0	4	4
Industrial Process	0	31	31	0	0	0	0	39	39
Cooling tower & thermopack	0	88	88	0	71	71	0	17	17
Gardening	0	20	20	0	20	20	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5-10 m bgl
	Size and no of RWH tank(s) and Quantity:	10 KL capacity x 1 Nos.
	Location of the RWH tank(s):	Near security cabin (North Side of the Plot)
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	4 lakh
	Budgetary allocation (O & M cost) :	15000
	Details of UGT tanks if any :	Solvent Storage yard, Rain Water harvesting tank & fire water tank

35.Storm water drainage	**Natural water drainage pattern:**	Storm water drainage will be provided with adequate capacity
	Quantity of storm water:	9.2 m3
	Size of SWD:	total length: 729 m x width 0.6 m x height 0.6m
Sewage and Waste water	**Sewage generation in KLD:**	4
	STP technology:	Domestic Waste water will be treated in Aeration Tank of the ETP
	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:**	Construction wastes such as debris, scraps, excavated soil, cement bags, iron/steel scraps & cardboards.
	Disposal of the construction waste debris:	Construction waste will be landfilled within the plot.
Waste generation in the operation Phase:	**Dry waste:**	Non Contaminated Empty drums-50 Nos/M & Plastic Bags- 100 Nos/M
	Wet waste:	Not Applicable
	Hazardous waste:	Process Residue and wastes :79 MT/M, Spent carbon: 6 MT/M, Distillation residues: 160 MT/M, Discarded Containers: 5 MT/M, ETP Sludge: 12 MT/M, MEE Residue :60 MT/M, Spent Oil : 300 Lit/A
	Biomedical waste (If applicable):	Biomedical Waste: Yellow (c): 5 Kg/M v)
	STP Sludge (Dry sludge):	Not Applicable, Only ETP sludge will be generated
	Others if any:	E-waste : generated as per Schedule 1 of E-waste management rule,2016: 10 Kg/M
Mode of Disposal of waste:	**Dry waste:**	Disposal to MPCB authorized recycler
	Wet waste:	Not Applicable
	Hazardous waste:	Disposal to CHWTSDF or sale to MPCB authorized vendor
	Biomedical waste (If applicable):	disposal at CBMWTSDF
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Disposal to authorized recycler
Area requirement:	**Location(s):**	South side of the Plot
	Area for the storage of waste & other material:	100 sq.m
	Area for machinery:	Not Applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	2 Lakh
	O & M cost:	1 Lakh/year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	5.0-7.5	5.5-9.0	5.5-9.0
2	COD	mg/l	25000-30000	120-200	250
3	BOD	mg/l	7000-9000	10-30	100
4	TDS	mg/l	35000-40000	300-600	2100

Amount of effluent generation (CMD):	60
Capacity of the ETP:	80 CMD
Amount of treated effluent recycled :	50 CMD from treated effluent & 12 CMD from Boiler Condensate return
Amount of water send to the CETP:	Not Applicable (It is a Zero Liquid Discharge Project)
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	The HCOD-HTDS effluent from manufacturing process will be sent to Stripper MEE & LCOD-LTDS effluent i.e. boiler & cooling tower blow downs will be sent to conventional ETP, MEE condensate along with domestic sewage will be sent to aeration tank of secondary treatment which will be further sent to R.O system , R.O reject will be subjected to MEE & R.O permeate will be reused thus the project will be Zero Liquid Discharge activity .
Disposal of the ETP sludge	CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Process Residue and wastes	28.1	MT/M	0	79	79	Sale to MPCB Authorized Vendor
2	Distillation residues	20.3	MT/M	0	160	160	Sale to MPCB Authorized Vendor
3	Spent carbon	28.3	MT/M	0	5.5	5.5	CHWTSDF
4	Discarded Containers	33.1	MT/M	0	5	5	Sale to MPCB Authorized Vendor
5	ETP Sludge	35.3	MT/M	0	12	12	CHWTSDF
6	MEE Residue	37.3	MT/M	0	60	60	CHWTSDF
7	Spent Oil	5.1	Lit/A	0	300	300	Sale to MPCB Authorized 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	Boiler	FO (1.6 KL/D)	1	31	0.9	145
2	D G set	HSD (147 Ltr/Hr)	2	11	0.2	183
3	Scrubber 1	-	3	5 m above roof	0.2	35
4	Scrubber 2	-	4	5 m above roof	0.2	35

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	FO	0	1.6 KL/D	1.6 KL/D
2	HSD	0	147 Ltr/Hr	147 Ltr/Hr
41.Source of Fuel		Local		
42.Mode of Transportation of fuel to site		Road		

43.Green Belt Development	**Total RG area :**	6719 sq.m
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	993 Nos.
	List of proposed native trees :	Listed in the below table all of them are native species
	Timeline for completion of plantation :	2 years after grant of EC

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Bahava	72	Native ornamental tree having flowers attracting bees and butterflies
2	Bombaxceiba	Sawar	64	A native tree with large showy flowers visited by birds
3	Macaranga peltata	Chandwar	52	A native tree found in abundance across the sahyadri range.
4	Schleichera oleosa	Kusum	57	A native tree found in abundance in Sahyadris.
5	Microcos paniculata	Shirali	58	A native evergreen tree abundantly found across the Sahyadri ranges
6	Terminalia elliptica	Ain	45	A native evergreen broad leaved tree common in the Sahyadris.
7	Terminalia paniculata	Kindal	68	Kindal is a tropical tree with a large natural distribution in Western Ghats
8	Terminalia bellirica	Baheda	76	A native medicinally important tree.
9	Cordia dichotoma	Shelu	87	Native deciduous tree attracting various insects
10	Helicteres isora	Murudsheng	67	native shrub extensively found in the tracts & plains of sahyadri used as roost plant by variety of birds.
11	Holoptelea integrifolia	Vavala	45	native tree abundantly found in Raigad District
12	Buteamonosperma	Palash	67	A native brilliantly flowering tree fed by local birds fairly common and abundant across the Raigad District

13	Oroxylum indicum	Tetu	27	A native ornamental tree
14	Azadirachta Indica	Neem	100	A native evergreen tree known for plantation in polluted area.
15	Callicarpato mentosa	Aisar	49	A native evergreen tree with beautiful flowers & thick hairy leaves which helps in dust settling.
16	Neolamarckia Cadamba	Kadamba	25	A native evergreen tree with thick canopy.
17	Pterospermum acerifolium	Muchkund	34	A native ornamental tree.
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Not Applicable	Not Applicable	Not Applicable

47.Energy

Power requirement:	**Source of power supply :**	MSEB
	During Construction Phase: (Demand Load)	50 KW
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	1000 KVA
	During Operation phase (Demand load):	990 KVA
	Transformer:	1650 KVA
	DG set as Power back-up during operation phase:	750 KVA x 1Nos.
	Fuel used:	HSD for D.G set
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Lights	5-12 % approx.

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Wastewater	Not Applicable	Effluent Treatment Plant of Capacity 80 CMD, MEE of capacity 60 CMD & RO of capacity 70 CMD

Process Emission	Not Applicable	2 Nos. Scrubber with the stack height of 5 m above roof
Boiler	Not Applicable	Appropriate Stack Height of 31 meters
D G Set	Not Applicable	Stack Height of 11 m
Hazardous waste	Not Applicable	Will be sent to authorized recycler or for disposal to CHWTSDF
Non Hazardous Waste	Not Applicable	sold to authorised re-processor/brick manufacturers

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	2 lakh
	O & M cost:	40,000 /Year

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 Emission	Dust Suppression	0.50
2	Water Environment	Existing Sanitation facilities will be utilized	0.25
3	Solid Hazardous Waste	Handling, Transportation & disposal of non- haza	2
4	Noise Environment	PUC certified vehicles, PPE etc	0.25

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air	Common stack of 31 meters, Scrubber for process emissions	110	2
2	Water	Installation of ETP, MEE & RO	320	87
3	Noise	Installation of antivibration pads, & Construction of enclosures for D.G & Boilers	23	0.5
4	Environment Monitoring	Monitoring of various environmental parameters	13	1.5
5	Occupational Health	Glares, Breathing Masks, Gloves, Boots, Helmets, Ear Plugs etc. & annual healthmedical checkup of workers	25	2.45
6	Green belt	Green belt development & maintenance	3	1
7	Rain Water Harvesting	Rain Water Harvesting Tank	4	0.15

8	Solid Waste	Solid Waste Management & Disposal	-	5
9	Power Saving Measures	Installation of Solar lights in the project premises	2	0.4

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Iso Propyl Alcohol	Liquid	UG Tank	20	19	83	Local	Road
Dimethylformamaide	Liquid	Drums	2	2	891	Local	Road
NN Dimethylamine HCl	Liquid	Drums	2	2	266	Local	Road
Dicyanoamide	Solid	PP Container	0.5	0.5	227	Local	Road
Charcoal + Celite	Solid	Solid	0.5	0.5	251	Local	Road
Toluene	Liquid	UG Tank	20	19	99	Local	Road
Conc H2SO4	Liquid	Carboy	0.1	0.1	20	Local	Road
p-Hydroxy Benzoic acid	Solid	Bags	0.5	0.5	7	Local	Road
2-Ethoxyethanol	Liquid	Drums	0.5	0.5	22	Local	Road
KOH	Solid	Bags	0.5	0.5	4	Local	Road
KSM 1	Solid	Bags	1.4	1.4	14	Imported	Road
KSM 2	Solid	Bags	1.1	1.1	8	Imported	Road
Potassium Carbonate	Solid	Bags	0.5	0.5	0.4	Local	Road
Ethyl Acetate	Liquid	Drums	0.2	0.2	0.3	Local	Road
Camphor	Solid	Bags	0.01	0.01	0.02	Local	Road
Acetone	Liquid	UG Tank	20	19	66	Local	Road
p-Toluenesulphonylurea	Solid	Bags	1	1	6	Local	Road
1,2-cyclopentanedicarboxylic anhydride	Solid	Bags	0.2	0.2	2	Imported	Road
Triethylamine	Liquid	Drums	0.1	0.1	0.2	Local	Road
HCl	Liquid	Drums	0.5	0.5	0.9	Local	Road
DMSO	Liquid	Drums	0.6	0.6	5	Imported	Road
N-Methyl Piparazine	Solid	Bags	0.1	0.1	2	Imported	Road
Pivalic Acid	Liquid	Carboy	0.2	0.2	1	Local	Road
NaOH	Solid	Bags	1	1	51	Local	Road
Cyclohexane	Liquid	Drums	2	2	16	Local	Road
Acetonitrile	Liquid	Drums	2	2	18	Local	Road
Cal.Acetate	Solid	Bags	0.5	0.5	2	Local	Road
Aniline	Liquid	Drums	0.5	0.5	0.03	Local	Road
Sodium Nitrate	Solid	Bags	0.1	0.1	0.03	Local	Road
Sodium Dithionate	Solid	Bags	0.1	0.1	0.03	Local	Road
Levocloperastine HCl	Solid	Bags	0.2	0.2	0.5	Local	Road
Fendizoic Acid	Solid	Bags	0.2	0.2	0.6	Imported	Road
1,1,1 3,3,3 -Hexafluro Isopropyl Chloromethyl ether	Liquid	Drums	5	5	50	Imported	Road
KF	Solid	Bags	5	5	1.5	Local	Road

1-chlorine-2,2,2-trifluoride ethyl difluoro methyl ether	Liquid	Drums	2	2	50	Imported	Road
HF gas	Gas	Cylinder	0.5	0.5	75	Local	Road
Diphenhydramine	Liquid	Drums	1	1	1	Local	Road
8-Chlorothiophyllene	Solid	Bags	1	1	1	Local	Road
Isometheptene Base	Liquid	Drums	1	1	1	Local	Road
Mucic Acid	Liquid	Drums	0.5	0.5	1	Local	Road
Hydrogen Sulphide gas	Gas	Cylinder	1	1	2	Local	Road
2-Ethylnicotinonitrile	Liquid	Drums	0.5	0.5	4.5	Local	Road
Triethanol amine	Liquid	Drums	1	1	10	Imported	Road
2-Propylnicotinonitrile	Liquid	Drums	0.5	0.5	4.5	Imported	Road
Diisopropylethylamine	Liquid	Carboy	0.2	0.2	0.1	Local	Road
m-Chloroperbenzoic acid	Solid	Bags	1	1	1.1	Local	Road
Dichloromethane	Liquid	Drums	3	3	31.5	Local	Road
Methanol	Liquid	Drums	3	3	19.5	Local	Road
Progestereone	Solid	Bags	0.01	0.01	0.39	Imported	Road
Salicylice Acid	Solid	Bags	0.5	0.5	7	Local	Road
Triethyene Glycol	Liquid	UG Tank	20	19	150	Local	Road
NaCl	Solid	Bags	5	5	50	Local	Road
NaOH	Solid	Bags	1	1	51	Local	Road
Triethylene Glycol	Liquid	UG Tank	20	19	150	Local	Road
Progestereone	Solid	Bags	0.01	0.01	0.39	Imported	Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	--
Parking details:	**Number and area of basement:**	--
	Number and area of podia:	--
	Total Parking area:	1972.71 sq.m
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	--
	Public Transport:	--
	Width of all Internal roads (m):	6 meters
	CRZ/ RRZ clearance obtain, if any:	Not Applicable

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	Schedule 5(f) & Category B-1
	Court cases pending if any	Not Applicable
	Other Relevant Informations	None
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	20-01-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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

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

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

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.

DECISION OF SEAC

Draft Terms of Reference (TOR) have been discussed and finalized during the meeting of SEAC-1. The committee prescribed the following additional TOR along with Standard TOR as available on the Ministry of Environment, Forest and Climate Change website for preparation of EIA-EMP report.

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
3) PP to submit plan layout showing contour levels, storm water drain lines and location of rain water harvesting facilities along with calculations.
4) PP to carry out life cycle analysis of the activities carried out on site with respect to the acidification potential, eutrophication potential, green house and ozone depletion potential etc and proposed mitigation measures to reduce the identified potentials.
5) 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.
6) PP to include detailed water balance calculations along with design details of zero liquid discharge ETP in the EIA report.
7) PP to carry out HAZOP and QRA and submit disaster management plan.
8) PP to include details of generation and disposal of hazardous waste including byproducts as per Hazardous and other waste (Management and Trans boundary Movement) Rules, 2016 in the EIA report.
9) PP to include water and carbon foot print monitoring in the EMP.
10) PP to submit hazardous chemical handling protocol
11) PP to use new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly PP to provide lightening arrestor.
12) PP to prepare the Legal Register with respect to compliance of various Acts , Rules and Regulations applicable to the manufacturing activities.

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.

Agenda of 163rd Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 163 **Meeting Date** March 13, 2019

Subject: Environment Clearance for Environmental Clearance for API and intermediate manufacturing unit of USV Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	M/s USV Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr Bhalchandra Katkar
4.Name of Consultant	M/s Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Substitution with expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, earlier EC has been obtained by M/s Pharma Base India Pvt Ltd vide – F. No. J-11011/385/2004-IA II (I) dated 09th Oct. 2006.
8.Location of the project	Plot no - N-35, Additional Ambernath MIDC
9.Taluka	Ambernath
10.Village	Anand Nagar
Correspondence Name:	USV Private Limited
Room Number:	-
Floor:	-
Building Name:	USV Private Limited
Road/Street Name:	Arvind Vitthal Gandhi Chowk, BSD Marg
Locality:	Govandi
City:	Mumbai
11.Area of the project	Additional Ambernath MIDC
12.IOD/IOA/Concession/Plan Approval Number	Not applicable
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area: 10863
13.Note on the initiated work (If applicable)	NONE
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	19729
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.): 10863
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: 15-02-2019
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	740900000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
2	Not applicable	Not applicable	Not applicable

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)	10 meters
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	10 meters
29.Existing structure (s) if any	Plant Building, Admin, Utility Building, Q.A and Q.C building, ETP area, Electric sub-station.
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	Glimepiride	--	0.375	0.375
2	Glipizide	--	1.35	1.35
3	AC Pentadiene	--	0.72	0.72
4	AC Crotonaldehyde	--	0.315	0.315
5	ChloroAtovaquone	--	1.125	1.125
6	Dola Tricyclic alcohol	--	0.075	0.075
7	Dabigartan exilate mesylate	--	2.8	2.8
8	other intermediates and bulk drugs	--	6.5	6.5

32.Total Water Requirement

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

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	10	25	35	2	5	7	8	20	28
Industrial Process	20	134	154	1	0	0	19.0	135	154
Cooling tower & thermopack	20	321	341 (105 CMD Condensate recycled from boiler)	19.5	151.5	171	0.5	64.5	65
Gardening	10	10	20	10	10	20	-	-	-

Fresh water requirement	60	490	550 (105 CMD Condensate recycled from boiler)	32.5	166.5	198	27.5	219.5	247

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	8 – 9 m below ground level
	Size and no of RWH tank(s) and Quantity:	-
	Location of the RWH tank(s):	-
	Quantity of recharge pits:	4 nos.
	Size of recharge pits :	2 m x 3m x 3 m
	Budgetary allocation (Capital cost) :	Rs 600000
	Budgetary allocation (O & M cost) :	Rs 100000
	Details of UGT tanks if any :	Details of UGT Tanks if any: Acetone – 15 KL x 1 nos. Methanol – 15 KL x 1 nos.
35.Storm water drainage	**Natural water drainage pattern:**	The natural storm water drain has been disturbed. The industry has provided storm water drain throughout the plot premises.
	Quantity of storm water:	14.20 m3/hr
	Size of SWD:	Total length 148 mts Width 1 meter Depth 0.8 meters
Sewage and Waste water	**Sewage generation in KLD:**	28 KLD
	STP technology:	Sewage effluent will be treated in Aeration tank .
	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:**	Construction wastes: There will be generation of construction wastes such as scraps, excavated soil, used cement bags, iron / steel scrap and card boards accounting to 200 Tons.
	Disposal of the construction waste debris:	Disposal of Construction waste: Wastes generated during construction activity will be disposed off through local waste disposal system
Waste generation in the operation Phase:	**Dry waste:**	M.S Scrap – 20 MT/A, Wooden Pellets – 6 MT/A, Paper waste – 6 MT/A, Battery waste – 1 MT/Annum, E-waste – 800 kg/Annum.
	Wet waste:	Wet waste will be disposed through local Municipal Waste Disposal System.
	Hazardous waste:	Mentioned at Serial no - 45
	Biomedical waste (If applicable):	Biomedical waste – Yellow Category – 100 kg/Annum.
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable

Mode of Disposal of waste:	**Dry waste:**	Disposed through approved vendors
	Wet waste:	Disposed through local Municipal Waste Disposal System.
	Hazardous waste:	The recyclable / reprocessable waste will be sent to authorized recyclers and the rest will be sent to CHWTSDF.
	Biomedical waste (If applicable):	Disposed to MPCB Authorized facility.
	STP Sludge (Dry sludge):	Not Applicable.
	Others if any:	Not Applicable.
Area requirement:	**Location(s):**	Near ETP
	Area for the storage of waste & other material:	108 sq. mtr.
	Area for machinery:	N.A.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 600000
	O & M cost:	Rs 100000

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	Not Applicable	5	6.0 to 8.5	5.5 to 9.0
2	TDS	mg/l	20000	1000	2100
3	BOD	mg/l	15000	50	100
4	COD	mg/l	40000	100	250
5	O & G	mg/l	150	05	10

Amount of effluent generation (CMD):	247
Capacity of the ETP:	250
Amount of treated effluent recycled :	233
Amount of water send to the CETP:	Nil
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Stream segregation as High TDS/COD and low TDS/COD, High TDS/COD stream to be sent to Stripper followed by MEE and then to ATFD. The MEE & ATFD condensate generated from process effluent will be sent to ETP with primary, secondary and tertiary treatment along with low TDS/COD effluent. The treated water will be sent to R.O plant. The R.O permeate will be used for cooling – tower make –up, and the R.O reject will be recirculated back to MEE.
Disposal of the ETP sludge	Disposed to CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent carbon	28.3	TPM	0.4	1.26	1.66	To CHWTSDF
2	Catalyst waste	28.2	TPM	--	0.016	0.016	To authorized re processors / CHWTSDF
3	Residue & Waste	28.1	TPM	0.008	36.492	36.5	To CHWTSDF

4	Discarded Container/Barrels/ Liners	33.1	TPM	10	--	10	To authorized re processors / To CHWTSDF
5	ETP Sludge	35.3	TPM	10	1.66	11.66	To CHWTSDF
6	MEE Residue	37.3	TPM	--	39.83	39.83	To CHWTSDF
7	Spent oil	5.1	TPM	--	0.58	0.58	To authorized re processors / To CHWTSDF
8	Distillation Residue	36.1	TPM	3	--	3	To authorized re processors / To CHWTSDF
9	Spent solvents	28.6	TPM	--	1250	1250	To authorized re processors / To CHWTSDF
10	Waste / residue containing oil	5.2	TPM	--	0.58	0.58	To CHWTSDF
11	Off specification product	28.4	TPM	--	2.0	2.0	To CHWTSDF
12	Date expired product	28.5	TPM	--	1.0	1.0	To CHWTSDF
13	Contaminated aromatic aliphatic or Napthalic solvents not fit for original intended use.	20.1	TPM	10	--	10	To CHWTSDF
14	Chemical containing residue arising from decontamination	34.1	TPM	--	0.833	0.833	To CHWTSDF
15	Flue gas cleaning residue	35.1	TPM	--	1.25	1.25	To CHWTSDF
16	Spent ion exchange resign containing toxic metal	35.2	TPM	--	0.041	0.041	To CHWTSDF
17	Oil and grease skimming residue	35.4	TPM	--	0.41	0.41	To CHWTSDF

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler 1	FO/CNG	1	30	0.380	180
2	Boiler 2	FO/CNG	1	30	0.380	180
3	Boiler 3	FO/CNG	2	37	0.450	180
4	D.G	HSD	1	6	0.150	148
5	D.G	HSD	2	30	0.300	148
6	Scrubber Existing	Not applicable	1	5mtr from top of building	0.150	35
7	8 numbers Scrubber (future)	Not applicable	2-3	5mtr from top of building	150	35

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total

1	FO/CNG	FO/CNG F.O – 1.728 MT/Day	F.O – 7.272 MT/Day CNG- 8406m³/Day	FO-9 MT/Day. CNG- 8406m³/Day
41.Source of Fuel		Authorized sellers		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	6532 sq. m
	No of trees to be cut :	Nil
	Number of trees to be planted :	767
	List of proposed native trees :	Mentioned in below table.
	Timeline for completion of plantation :	August 2022.

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	Syzygium cumini	Jambul	192	Deep rooted tree and good for pollution abatement
2	Mangifera indica	Mango	193	Deep rooted tree and good for pollution abatement
3	Delonix regia	Gulmohar	190	Deep rooted tree and good for pollution abatement
4	Azadarichta indica	Neem	194	Deep rooted tree and good for pollution abatement
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	N.A	N.A	N.A

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	3000 KW
	During Operation phase (Demand load):	2180 KVA
	Transformer:	Existing 1000 KVA Proposed 1600 KVA
	DG set as Power back-up during operation phase:	DG 1 : 625 KVA, DG 2 : 1500 KVA, DG 3 : 1500 KVA(standby).
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

Solar panels

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Continuous monitoring and measuring	5 % power can be saved by using Solar power

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Boiler 1 Existing	Low Nox burner and stack height 30 mts will be provided to ensure proper dispersion of pollutants	-
Boiler 2 Existing	Low Nox burner and stack height 30 mts will be provided to ensure proper dispersion of pollutants	-
Boiler 3 Proposed	-	Low Nox burner, stack height of 37 mts will be provided to ensure proper dispersion of pollutants
DG 1	Fuel efficient DG and stack height 6 m	Not applicable
DG 2	Fuel efficient DG and stack height 6 m	Not applicable
DG 3	-	Fuel efficient DG and stack height 30 meters
1 no Process scrubber of 2000 CFM	Stack height is 5 mts	-
8 nos Process scrubber of 2000 CFM	-	As per design requirement. Stack height is 5 mts
Industrial and Sewage effluent	ETP with primary secondary and tertiary tretament is provided	The existing ETP will be upgraded by installation of MEE with stripper followed by ATFD, ETP with primary, secondary treatment with anaerobic and aerobic reactors, followed by tertiary treatment will be provided. R.O system will be installed to finally achieve ZLD.

Solid waste management	The recyclable / reprocessable will be sent to authorized recyclers, other waste will be sent to CHWTSDF for disposal.	The recyclable / reprocessable will be sent to authorized recyclers, other waste will be sent to CHWTSDF for disposal.
Noise	Green belt has been developed. Acoustic enclosures has provided to D.G Set.	A thick green belt accounting to 33% of the plot area will be developed. Acoustic enclosures will be provided to D.G Set.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 30,00000.00
	O & M cost:	Rs 50,000.00

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Sprinkling in construction phase, provision of PPE's to workers (Masks)	Rs 7.2 Lacs per annum
2	Noise	PPE's to be provided to works (ear muffs and ear plugs)	Rs 0.6 Lacs per annum

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	9 numbers scrubbers (One existing and 8 proposed)	144	2.4
2	Water	ZLD based ETP	550	170
3	Noise	Acoustic enclosure	9.0	0.5
4	Occupational Health	PPE , OHS	2.0	15.0
5	Green Belt	Maintenance of green belt	10	3.0
6	Solid Waste	Membership of CHWTSDF and disposal of waste	30	420
7	Rain water harvesting	Maintenance of rain water harvesting system	6	1
8	Environmental monitoring	Environmental monitoring of ambient air, stack monitoring, effluent inlet and outlet, noise	-	2.5

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

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

Acetone	Liquid	Tank farm	15	15	98.7	Available suppliers	By Road
Methanol	Liquid	Tank farm	15	15	84.5	Available suppliers	By Road
DMF	Liquid	Tank farm	20	20	19.5	Available suppliers	By Road
THF	Liquid	Drum store	5	5	8.4	Available suppliers	By Road
Ethyl acetate	Liquid	Tank farm	10	10	117.70	Available suppliers	By Road
Iso Propyl Alcohol	Liquid	Tank farm	10	10	28.4	Available suppliers	By Road
Glacial acetic acid	Liquid	Drum store	5	5	22.90	Available suppliers	By Road
Cautic soda lye(tanker)	Liquid	Tank farm	10	10	10.76	Available suppliers	By Road
Ammonia gas	Gas	Shed	0.1	0.1	0.40	Available suppliers	By Road
MDC	Liquid	Drum store/ Tank farm	5	5	82.40	Available suppliers	By Road
Hexane	Liquid	Drum store	3	3	8.20	Available suppliers	By Road
Vinyl Magnesium chloride 1.6 M in THF	Liquid	Stores	1	1	2.30	Available suppliers	By Road
Toluene	Liquid	Tank farm	10	10	53.60	Available suppliers	By Road
Pyridine	Liquid	Stores	0.2	0.2	0.70	Available suppliers	By Road
MTBE	Liquid	Drum store	3	3	15.50	Available suppliers	By Road
Sulfolane	Liquid	Drum store	2	2	4.30	Available suppliers	By Road
Acetonitrile	Liquid	Tank farm	2	2	5.0	Available suppliers	By Road
Cyclo Hexane	Liquid	Tank farm	10	10	30.20	Available suppliers	By Road

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	2413 sq.m
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	6 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	Schedule 5 (f),Category - B
	Court cases pending if any	Nil
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 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.

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

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 2% CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

DECISION OF SEAC

Draft Terms of Reference (TOR) have been discussed and finalized during the meeting of SEAC-1. The committee prescribed the following additional TOR along with Standard TOR as available on the Ministry of Environment, Forest and Climate Change website for preparation of EIA-EMP report.

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of board of directors and memorandum of articles.
2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
3) PP to submit plan layout showing contour levels, storm water drain lines and location of rain water harvesting facilities along with calculations.
4) PP to carry out life cycle analysis of the activities carried out on site with respect to the acidification potential, eutrophication potential, green house and ozone depletion potential etc and proposed mitigation measures to reduce the identified potentials.
5) As the plant is closed from many years PP to include detailed demolition plan in the EIA report with respect to the safety of the workers engaged in the demolition activity along with proposed mitigation measures.
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 along with design details of zero liquid discharge ETP in the EIA report.
8) PP to carry out HAZOP and QRA and submit disaster management plan.
9) PP to include details of generation and disposal of hazardous waste including by products as per Hazardous and other waste (Management and Trans boundary Movement) Rules, 2016 in the EIA report.
10) PP to include water and carbon foot print monitoring in the EMP.
11) PP to use new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly PP to provide lightening arrestor.
12) PP to prepare the Legal Register with respect to compliance of various Acts , Rules and Regulations applicable to the manufacturing activities.

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.

SEAC Meeting number: 163 **Meeting Date** March 13, 2019

Subject: Environment Clearance for Expansion project of API and Intermediate chemicals manufacturing unit of Unichem Laboratories Ltd.

Is a Violation Case: No

1.Name of Project	Unichem Laboratories Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Unichem Laboratories Limited
4.Name of Consultant	Sadekar Enviro Engineers Private Limited
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion of existing API manufacturing unit
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No. PP have valid CTO from MPCB no. Format 1.0/ BO/CAC-Cell/ EIC No RD-3222-16/14th CAC/3317 dated 08.03.2016 valid up to 30.04.2020
8.Location of the project	Plot No. 99, MIDC-Dhatav,
9.Taluka	Roha
10.Village	Roth
Correspondence Name:	Mr. Umakant G Kadam (GM Roha Unit)
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	Unichem Laboratories Limited, Plot no. 99, MIDC Dhatav, Roha
Locality:	Taluka Roha
City:	Roha
11.Area of the project	Other (MIDC Dhatav)
12.IOD/IOA/Concession/Plan Approval Number	Not applicable
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area: 24496.46
13.Note on the initiated work (If applicable)	Expansion activity will start after acquiring prior environmental clearance.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC approval
15.Total Plot Area (sq. m.)	Not applicable
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 27188
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: 18-10-2017
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	500000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	-
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	Existing production block , utility building, ETP, MEE, warehouse , administration building
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	Amlodipine Besylate	20	-9	11
2	Amlodipine Maleate	3	-1	2
3	Bisoprolol Fumarate	8	2	10
4	Clonidine Hydrochloride	0.25	0.25	0.5
5	Labetalol Hydrochloride	5	0	5
6	Lacidipine	0.02	0.48	0.5
7	Bendroflumethiazide	2	0	2
8	Hydrochlorothiazide	60	70	130
9	Aripiprazole	0.2	0.3	0.5
10	Tigabine Hydrochloride	0.02	0.48	0.5
11	Buprenorphine Hydrochloride	0.02	0.48	0.5
12	Donepezil Hydrochloride	0.08	0.42	0.5
13	Meloxicam	5	7	12
14	Metronidazole	269	-19	250

15	Pramipexole dihydrochloride monohydrate	0.02	0.18	0.2
16	Zolmitriptan	0.02	0.18	0.2
17	Rizatriptan Benzoate	0.01	0.49	0.5
18	Tamsulosin Hydrochloride	0.01	0.49	0.5
19	Tizanidine hydrochloride	0.05	0.15	0.2
20	Tolterodine Tartrate	0.05	0.15	0.2
21	Brimonidine tartrate	0.02	-0.02	0
22	Fenofibrate	5	-5	0
23	Doxazosin Mesylate	0	1	1
24	Paliperidone	0	0.5	0.5
25	Apixaban	0	1	1
26	Rivaroxaban	0	1	1
27	Baclofen	0	0.5	0.5
28	Piroxicam	0	0.5	0.5
29	Prasugrel Hydrochloride	0	0.5	0.5
30	Solifenacin succinate.	0	0.2	0.2
31	Tadalafil	0	0.5	0.5
32	Teneligliptin Hydrobromide	0	0.5	0.5
33	Teriflunomide	0	0.5	0.5
34	Tofacitinib citrate	0	0.5	0.5
35	Vortioxetine Hydrobromide	0	0.5	0.5
36	4-(4-fluorobenzoyl) butyric acid (Keto Acid)	0	60	60
37	Taxol	0	0.5	0.5
38	R & D Product	0	5	5

32.Total Water Requirement

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

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	50	0	50	10	0	10	40	0	40
Industrial Process	180	-35	145	62	-58.8	3.2	118	35	153
Cooling tower & thermopack	80	265	345	48	187	235	32	58	90
Gardening	40	10	50	40	10	50	0	0	0

Fresh water requirement	350	240	590	160	138.2	298.2	190	93	283

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5-10 m
	Size and no of RWH tank(s) and Quantity:	2 tank of 20 kl capacity
	Location of the RWH tank(s):	near plant 7 & 8
	Quantity of recharge pits:	--
	Size of recharge pits :	--
	Budgetary allocation (Capital cost) :	--
	Budgetary allocation (O & M cost) :	50000
	Details of UGT tanks if any :	Ethyl Alcohol 12 KL Ethyl Alcohol 12 KL Methanol 12 KL Methanol 12 KL Iso Propyl Alcohol 12 KL Iso Propyl Alcohol 12 KL Ethyl alcohol with 5% Acetone 12 KL Monomethyl Amine in methanol 12 KL Acetonitrile 12 KL Orthoxylene 12 KL MIDC Raw Water Tank 120 KL
35.Storm water drainage	**Natural water drainage pattern:**	Internal storm water drains are connected to MIDC drains.
	Quantity of storm water:	58.51 m3/hr
	Size of SWD:	1 X 2 Meter size drain along plot boundary
Sewage and Waste water	**Sewage generation in KLD:**	50
	STP technology:	Sewage is treated in septic tank and overflow is mixed with effluent in aeration tank of ETP.
	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 pre construction waste will be generated.
	Disposal of the construction waste debris:	it will be landfilled within premise.
Waste generation in the operation Phase:	**Dry waste:**	E waste, battery waste , plastic waste and metal scrap
	Wet waste:	Hazardous waste
	Hazardous waste:	Please refer point 45
	Biomedical waste (If applicable):	Yes. It will be disposed to MPCB registered treatment facility for Roha region.
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	non hazardous waste will be disposed through registered vendors.
	Wet waste:	CHWTSDF / MPCB Authorise Recycler
	Hazardous waste:	disposed to CHWTSDF/ sold to authorised recycler or reprocessor / disposed to co-processing unit
	Biomedical waste (If applicable):	disposed to MPCB registred processor for Roha region
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	demarkated area is provided for hazardous waste /BMW / Battery waste /E-waste storage within premise.
	Area for the storage of waste & other material:	provided
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	10 lacs.
	O & M cost:	75 lacs

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	2.5-3	7-8.5	6.5-8.5
2	TSS	mg/L	500	26	100
3	COD	mg/L	20000	175	250
4	BOD	mg/L	7000	57	100
5	oil and grease	mg/L	20	5.45	10
6	chloride	mg/L	500	300	600
7	sulfate	mg/L	700	500	1000
8	TAN	mg/L	200	20	50
9	%Sodium	mg/L	5	5	60%

Amount of effluent generation (CMD):	283 CMD
Capacity of the ETP:	300
Amount of treated effluent recycled :	NA
Amount of water send to the CETP:	283
Membership of CETP (if require):	yes. Industry is the member of RIA CETP

Note on ETP technology to be used	Effluent segregation will be done. High load effluent is being treated through Strippers 2 Nos., three stage Multiple effect evaporator (MEE) and ATFD. Low load effluent is treated in ETP consisting primary , secondary and tertiary treatment.
Disposal of the ETP sludge	Treated effluent shall be disposed to CETP, Roha

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	used/spent oil	5.1	MT/A	1	2	3	Sale to authorized recyclers /Disposal to CHWTSDF
2	Distillation residues	20.3	MT/A	3	4.5	7.5	Disposal to CHWTSDF, / Co-processing
3	Spent Solvents	28.6	MT/A	260	400	660	Recycle, reuse/sale to authorized recyclers /Disposal to CHWTSDF
4	Empty barrels/ containers /liners contaminated with hazardous chemicals / wastes	33.1	MT/A	4000	1000	5000	Disposal to CHWTSDF, /Sale to authorized recyclers
5	Chemical sludge from wastewater treatment	35.3	MT/A	18	17	35	Disposal to CHWTSDF, / Co-processing
6	Concentration / Evaporator residue	37.3	MT/A	--	5500	5500	Co-processing/ Sale to authorized recyclers/ Disposal to CHWTSDF,
7	Spent catalyst	28.2	MT/A	20	22	42	Disposal to CHWTSDF, / authorized Co-processing
8	Date expired products	28.5	MT/A	1	1	2	CHWTSDF
9	Date expired products	28.5	MT/A	1	1	2	CHWTSDF
10	Date expired products	28.5	MT/A	1	1	2	CHWTSDF
11	Ash from incinerator and flue gas cleaning residue	37.2	MT/A	1	4	5	CHWTSDF
12	Spent ion exchange resin containing toxic metals	35.2	MT/A	0.5	1.5	2	CHWTSDF
13	Spent carbon or filter medium	36.2	MT/A	0.5	19	19.5	CHWTSDF
14	Waste/residue containing oil	5.2	MT/A	1	1	2	CHWTSDF

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler (Exisiting)	FO-250 L/hr	1	35	0.4	110
2	Thermic fluid heater (existing)	FO-80 L/hr	2	23	0.3	110

3	Thermic fluid heater (existing)	FO- 50 L/hr	3	21	0.3	110
4	Boiler (Proposed)	FO-300 L/hr	1	42	1.7	90
5	180 KVA D. G. set (Existing)	HSD-40 L/hr	4	3.5 from roof	0.150	100
6	750 KVA D. G. set (Existing)	HSD-130 L/hr	5	3.5 from roof	0.150	100
7	1250 KVA D. G. set (Proposed)	HSD-250 L/hr	6	as per CPCB guidelines	0.200	100
8	1250 KVA D. G. set (Proposed)	HSD-250 L/hr	7	as per CPCB guidelines	0.200	100

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Furnace Oil (L/hr)	380	300	680
2	HSD (L/hr)	170	500	670
41.Source of Fuel		Local vendor		
42.Mode of Transportation of fuel to site		by road		

43.Green Belt Development	**Total RG area :**	Total green belt after expansion will be 16132 sq. m.
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	2400
	List of proposed native trees :	Waras, Mango, Jambhul, Phanas, Kusum, ain, Palash, Pangahara,Neem, Chafa, Kindal, Kusum and other local plant species
	Timeline for completion of plantation :	2 years after receipt of Environment Clearance

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Mangifera indica	mango	250	A native evergreen tree with large canopy & large leaf area which helps in dust settling
2	Albizia lebbeeck	shirish	150	A native tree with thick canopy
3	Nerium oleander	Kaner	155	A native hardy species, drought resistant with fragrant flowers
4	Schleichera oleosa	Kusum	145	A native tree found in abundance in Sahyadris
5	Azadirachta indica	Neem	150	A native evergreen tree known for plantation in polluted area
6	Cassia fistula	Bahava	100	Native ornamental tree having flowers attracting bees and butterflies
7	Neolamarckia cadamba	Kadamba	145	A native evergreen tree with thick canopy
8	Holoptelea integrifolia	Vavala	150	A native tree abundantly found in the Raigad district

9	Terminalia arjuna	Arjun	150	A native evergreen tree with large canopy
10	Derris indica	Karanja	100	A native tree blooming throughout the year
11	Delonix Regia	Gulmohar	200	flower bearing deciduous tree
12	Polyalthia Longifilia	Ashok	250	A evergreen tree
13	Polyalthia Longifilia	Ashok	250	A evergreen tree
14	Microcos paniculata	Shirali	150	A native evergreen tree abundantly found across the Sahyadri ranges
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	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	As per existing load
	DG set as Power back-up during construction phase	As per existing capacity
	During Operation phase (Connected load):	6000 kW
	During Operation phase (Demand load):	3550 KVA
	Transformer:	4500 KVA
	DG set as Power back-up during operation phase:	Total 3430 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

CFL & Sodium mercury vapor lamp are replaced by LED lamps to reduce power consumption , Solar street lights will be provided in future.

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

Waste Water	Combined treatment of trade and domestic effluent of design capacity of 300 CMD. Segregation is done; High stream effluent is treated through Stripper coloumn, Three stage MEE and ATFD etc. MEE condensate is treated in aeration tank of the ETP. Treated effluent from ETP is sent to Common Effluent Treatment Plants for further treatment and disposal.	Same treatment scheme shall be continued. Existing ETP capacity is adequate to treat additional quantity of liquid effluents from proposed expansion project.
Air emissions from Bolier/TFH , Process & DG set	For boiler emissions, stacks with adequate height are provided. Scrubbers (11 units of acid scrubbers; 3 units of alkali scrubbers) are provided to mitigate process emissions. Stacks of 3.5 m height above roof are provided to DG set	For proposed boiler, stack of adequate height as per CPCB guidelines shall be provided. Additional scrubbers (3 alkali; 9 acidic) are proposed for mitigation of process emissions. Scrubber stacks of 5 m height above roof shall be provided. D.G. set stack shall be provided as per CPCB guidelines.
Solid Waste Management	Solid hazardous waste is sent to CHWTSDF or sold to MPCB authorised recyclers; Non hazardous waste is sold to MPCB authorized vendors / recyclers	Solid hazardous waste shall be sent to CHWTSDF or will be sent for co-processing or will be sold to MPCB authorised recyclers. Non hazardous waste shall be sold to MPCB authorised vendors / recyclers.
Noise Pollution	Anti-vibration pads and acoustic enclosures to high noise generating equipment are provided.	Anti-vibration pads and acoustic enclosures to high noise generating equipment shall be installed.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	500000
	O & M cost:	50000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water Pollution Control	Construction runoff will be treated in existing ETP, Existing sanitation facilities shall be utilized by construction workforce.	0.5
2	Air Pollution Control	Water sprinkling to control fugitive emissions, Provision of Wind barrier.	2

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Green belt development	Tree plantation shall be carried out in Adequate area of green belt	15	7.5
2	Water Pollution Control	Operation and Maintenance of ETP;	550	250.84
3	Air Pollution Control	Installation of process scrubbers, boiler and scrubber stacks,	30	28.25
4	Occupational Health and Safety Assessment	Gloves, Breathing Masks, Gloves, Boots, Helmets, Ear Plugs & annual health medical check up of workers.	15	75.00

5	Noise Pollution Control	Installation of vibration pads and acoustic enclosures to high noise generating equipment	5	0.50
6	Environment Monitoring and Management	Post project monitoring of Environmental components, Installation of real time effluent and emission monitoring system.	5	7.52
7	Solid Waste Management	Segregation, handling and storage of hazardous waste	NA	200
8	Water conservation	Rain water harvesting system shall be implemented	5	1.5

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Sulphuric Acid	Liquid	AGT	30	30	1510 MT/A	Local	By Road
Caustic lye	liquid	AGT	40	40	1273758 MT/A	Local	By road
Oleum	liquid	AGT	20	20	1724537 MT/A	local	By road
Nitric Acid	Liquid	AGT	10	10	415046 MT/A	local	By road
Glyoxal	liquid	AGT	30	30	1608796 MT/A	Local	By road
Acetic Acid	liquid	AGT	30	30	623816 MT/A	local	By road
Liquor Ammonia	liquid	AGT	30	30	6073924 MT/A	local	By road
Ethylene Oxide	liquid	AGT	10	10	390625 MT/A	local	By road
Acetaldehyde	liquid	AGT	15	15	497685 MT/A	local	By road
Methanol	liquid	UGT	30	30	744690 MT/A	local	By road
Iso propyl alcohol	Liquid	UGT	20	20	267584 MT/A	local	By Road
Mono methyl Amine 40 % solu.	liquid	UGT	20	20	79583 MT/A	local	By Road
Acetone	liquid	Drum storage	10	10	220316 MT/A	local	By road
Hydrochloric Acid	liquid	Drum Storage	5	5	5270 MT/A	local	By road
Acetonitrile	liquid	Drum Storage	5	5	50471 MT/A	local	By road
Dimethyl Glutarate	Liquid	Drum Storage	10	10	67769 MT/A	Import	By Road
Tetrahydrofurane	liquid	Drum Storage	10	10	901659 MT/A	local	By road
Epichlorohydrin	liquid	Drum storage	10	10	31693 MT/A	local	By road
Chloroform	liquid	Drum storage	5	5	140511 MT/A	local	By road
Acetyl chloride	liquid	Drum storage	10	10	67769 MT/A	local	By Road

Toluene	liquid	Drum storage	10	10	182665 MT/A	Local	By road
Aluminium Chloride	Solid	Bag storage	10	10	117352 MT/A	local	By road
Isopropoxy Ethanol	liquid	Drum storage	10	10	109166 MT/A	local	By road
Ethyl Acetate	liquid	Drum storage	10	10	390817 MT/A	Local	By road
Fluro benzene	Liquid	Drum storage	10	10	344302 MT/A	Local	By Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	NA
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	Minimum 6 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	B1
	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	18-12-2018

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

DECISION OF SEAC

PP remained absent.

Hence, deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC Meeting number: 163 **Meeting Date** March 13, 2019

Subject: Environment Clearance for Production capacity expansion of dyes & dye formulation unit

Is a Violation Case: No

1.Name of Project	M/s. Arlex Chemi Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vinod Paharia
4.Name of Consultant	M/s. Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Schedule 5(f), category B-1. industrial project-Expansion
6.New project/expansion in existing project/modernization/diversification in existing project	Production capacity expansion of existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot E-43, Tarapur MIDC, Boisar -401506, Dist. Palghar, Maharashtra.
9.Taluka	Boisar
10.Village	Salwad
Correspondence Name:	Mr. Vinod Paharia
Room Number:	B-1302
Floor:	13
Building Name:	Cello Triumph
Road/Street Name:	I. B. Patel Road
Locality:	Goregaon East
City:	Mumbai
11.Area of the project	Other area- Plot no. E-43, MIDC Tarapur, Boisar,Dist. Palghar,
12.IOD/IOA/Concession/Plan Approval Number	NA for industrial projects
	IOD/IOA/Concession/Plan Approval Number: NA for industrial projects
	Approved Built-up Area: 1800
13.Note on the initiated work (If applicable)	Expansion work will be started after grant of EC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	4050 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.): 2465.26
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 2465.26
	Approved Non FSI area (sq. m.): not applicable
	Date of Approval: 01-01-1900
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	65000000

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)	6 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	Production block, utility block, administration building, warehouse, ETP area
30.Details of the demolition with disposal (If applicable)	610.52 sq.m area will be demolished and rebuilt. The construction waste will be disposed through municipal system or it will be used for landfilling inside the premise.

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Vat Dyes	3	17	20
2	Indigosols	0	7.5	7.5
3	Food Colour - Erythrosine	0	4	4
4	Solvent Red 197	0	1	1
5	Pigment Red 122	0	3	3
6	Vat Micro Disperse & Powder Fine Dyes (Formulation)	6	0	6
7	Repacking of Dyes (Formulation)	3	0	3
8	Copper Sulphate (By-product) OR	1.56	16.19	17.75
9	Quniulphos (By-product)	16.67	0	0

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	173.6
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	173.6
	Fire fighting - Underground water tank(CMD):	2 Lakh litre
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	167
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	173.6
	Fire fighting - Underground water tank(CMD):	2 Lakh litre
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	2	3	5	1	0	1	1	3	4
Industrial Process	22	123	145	2.15	2.35	4.5	19.85	140.55	160.4
Cooling tower & thermopack	1	16	17	0.85	12.55	13.4	0.15	2.45	2.6
Gardening	3	3.6	6.6	3	3.6	6.6	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3-4 m
	Size and no of RWH tank(s) and Quantity:	1 tank of 20 KL capacity will be provided
	Location of the RWH tank(s):	under main office
	Quantity of recharge pits:	no recharge pits. RWH tank will be provided
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	300000
	Budgetary allocation (O & M cost) :	30000
	Details of UGT tanks if any :	process water tank -1.5 lakh L capacity , RWH tank- 20 KL capacity and Fire hydrant water tank 2 lakh L capacity
35.Storm water drainage	**Natural water drainage pattern:**	storm water drainage line is provided along plot boundary
	Quantity of storm water:	0.98 M3/hr
	Size of SWD:	along the plot boundary connected to MIDC drains.
Sewage and Waste water	**Sewage generation in KLD:**	4
	STP technology:	sewage is treated in septic tank. Overflow from septic tank will be treated with effluent in aeration tank.
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	0
	Budgetary allocation (O & M cost):	0

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction wastes such as left off concrete, stone, aggregates, wooden piles, excavated materials etc
	Disposal of the construction waste debris:	The solid waste generated in the construction phase would be disposed off through local Municipal Corporation or it will be used for landfilling inside premises.
Waste generation in the operation Phase:	**Dry waste:**	non hazardous waste will be disposed through scrap dealers
	Wet waste:	Process waste.Please refer hazardous waste.
	Hazardous waste:	The overall operation of the company will involve generation of hazardous waste like ETP Sludge, Process waste, Discarded container, Copper Sludge, Used oil, Distillation residue, waste cloth and MEE residue.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Non hazardous waste will be disposed through authorised recyclers or scrap vendours
	Wet waste:	Hazardous wet waste will be disposed through CHWTSD Facility. no other wet waste will be produced.
	Hazardous waste:	The overall operation of the company will involve generation of hazardous waste like ETP Sludge, Process waste, Distillation residue and MEE residue which will be disposed through CHWTSDF, Taloja or sold to MPCB authorised reprocessor.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	Near ETP
	Area for the storage of waste & other material:	As per plot layout
	Area for machinery:	As per plot layout in Production building and utility building
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	50000
	O & M cost:	500000

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	4.0	5.5-9.5	5.5-9.5
2	TSS	mg/L	250	<100	100
3	BOD	mg/L	1500	<100	100
4	COD	mg/L	5200	<250	250
5	Oil and grease	mg/L	12	<10	10
6	Cyanide	mg/L	BDL	<0.2	0.2
7	Copper	mg/L	<3	<3	3
8	Zinc	mg/L	<15	<15	15

Amount of effluent generation (CMD):	167
Capacity of the ETP:	175
Amount of treated effluent recycled :	Expansion project will be ZLD unit. Max. 147 CMD effluent shall be recycled to plant.
Amount of water send to the CETP:	21 CMD. Expansion project will be ZLD. After commissioning of the new CETP, Tarapur as per CPCB/MPCB norms treated effluent will be discharged to CETP.
Membership of CETP (if require):	Company has membership of existing TIMA CETP no. 368 and contributed to the upcoming new CETP.
Note on ETP technology to be used	The Proposed expansion project will be run as ZLD unit comprising of 3 stage fully fledged ETP, MEE and RO. sewage will be treated in septic tank and overflow will be connected to aeration tank of ETP.
Disposal of the ETP sludge	ETP sludge will be disposed to CHWTSDF,Taloja

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Chemical Sludge from wastewater treatment	35.3	MT/M	3.5	35	38.5	CHWTSDF, Taloja.

2	Process Waste and residue	26.1	MT/M	2.8	23.7	26.5	CHWTSDF, Taloja.
3	Discarded Container	33.1	Nos./M	50	150	200	CHWTSDF, Taloja /Disposal by selling to authorised re-seller
4	Used Oil	5.1	Litre/M	-	5	5	Disposal by selling to authorized reseller/ CHWTSDF, Taloja.
5	Copper Sludge	7.4	MT/M	-	17.75	17.75	Disposal by selling to authorized copper sulphate manufacturer/ CHWTSDF,Taloja
6	Waste filter Cloth	36.2	Kg/M	-	2	2	CHWTSDF, Taloja
7	MEE Residue	37.3	MT/d	-	12.3	12.3	CHWTSDF, Taloja

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG stack	20 L/hr HSD	1	3 m above roof	0.15	200
2	scrubber-1	-	2	8	0.46	60
3	scrubber-2	-	2	8	0.46	60
4	scrubber-3 (Proposed)	-	2	8	0.46	60
5	Boiler (existing)	600 L/day FO	3	15	0.35	240
6	Boiler (Proposed)	600 L/day FO	3	30 (common stack)	0.35	240

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Furnace Oil	600 L/day	600 L/day	1200 L/Day
2	HSD	20 L/Hr	0	20 L/Hr
41.Source of Fuel		Local Vendor		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	1320 sqm
	No of trees to be cut :	no trees will be cut
	Number of trees to be planted :	195
	List of proposed native trees :	Bahava, Sawar, Saptaparni, Chandwar, Kusum, Shirali, ain, Kindal, Beheda, Shelu etc.
	Timeline for completion of plantation :	1 year after grant of EC

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance

1	Cassia fistula	Bahava	10	Native ornamental tree having flowers attracting bees and butterflies
2	Bombax ceiba	Sawar	9	A native tree with large showy flowers visited by birds.
3	Terminalia arjuna	Arjun	9	A native evergreen tree with large canopy
4	Macaranga peltata	Chandwar	9	A native tree found in abundance across the sahyadri range
5	Schleichera oleosa	Kususm	9	A native tree found in abundance in Sahyadris.
6	Microcos paniculata	Shirali	9	A native evergreen tree abundantly found across the Sahyadri ranges
7	Terminalia elliptica	Ain	9	A native evergreen broad leaved tree common in the Sahyadris.
8	Terminalia paniculata	Kindal	10	Kindal is a tropical tree with a large natural distribution in Western Ghats
9	Terminalia bellirica	Baheda	9	A native medicinally important tree
10	Cordia dichotoma	Shelu	9	Native deciduous tree attracting various insects.
11	Helicteres isora	Murudsheng	9	A native shrub extensively found in the tracts & plains of sahyadri used as roost plant by variety of birds.
12	Holoptelea integrifolia	Ainasadada	9	A native tree abundantly found in Palghar District
13	Butea monosperma	Palash	9	A native brilliantly flowering tree fed by local birds fairly common and abundant across the Palghar District.
14	Oroxylum indiccum	Tetu	9	A native ornamental tree.
15	Erythrina suberosa	Pangara	10	A native tree found in abundance in Sahyadris.
16	Azadirachta indica	Kadulimb	9	A native evergreen tree known for plantation in polluted area.
17	Dalbergia sissoo	Shisham	9	A native tree found in abundance in Sahyadris.
18	Azadirachta indica	Neem	10	A native evergreen tree known for plantation in polluted area.
19	Callicarpa tomentosa	Aiser	10	A native evergreen tree with beautiful flowers & thick hairy leaves which helps in dust settling
20	Neolamarckia cadamba	Kadamba	9	A native evergreen tree with thick canopy.
21	Pterospermum acerifolium	Muchkund	9	A native evergreen tree used for ornamental plantations.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	261 KW
	DG set as Power back-up during construction phase	250 KVA
	During Operation phase (Connected load):	261 KW
	During Operation phase (Demand load):	315 KVA
	Transformer:	315 KVA
	DG set as Power back-up during operation phase:	250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No high tension line is passing through the plot

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
process emissions	2 alkali scrubbers are installed	1 additional scrubber will be installed.
boiler emissions	stack of 15m is provided to existing stack	one additional boiler will be installed as standby boiler. Both boilers will have common stack 30 m high.
DG set	existing stack is 3.5 m above roof	same as existing.
sewage	septic tank followed by soak pit	sewage will be mixed with effluent in aeration tank
Process effluent	3 stage ETP of 50 CMD is provided. Treated effluent is discharged to CETP. Tarapur	175 CMD capacity ETP consisting primary,secondary, tertiary treatment. Expansion Unit will be operated as ZLD unit by incorporating 3 stage ETP , MEE and RO unit. After commissioning of the new CETP, Tarapur as per CPCB/MPCB norms treated effluent will be discharged to CETP.
Noise	Equipment housing and noise absorbing pads are provided to equipment, green belt around the project boundary	housing and noise absorbing pads will be provided to equipment, green belt around the project boundary
Solid waste management	Hazardous solid waste is disposed to CHWTSDF, Taloja or sold to authorised reprocessors. Non hazardous solid waste is sold to scrap dealers	Hazardous solid waste is disposed to CHWTSDF, Taloja or sold to authorised reprocessors. Non hazardous solid waste is sold to scrap dealers

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	air pollution	water sprikling , wind barrier to control dust emission	2.0
2	water pollution	mobile toilets will be arranged for construction workers	1.0
3	Noise pollution	PPE for workers. Protective enclosures will be provided to noise producing equipment	0.5
4	occupational health	PPE for workers. First aid facilities	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	A common stack of 30 m high for boiler	30	5
2	water pollution	Upgradation of ETP to 175 CMD capacity comprising of primary, secondary & tertiary treatment alongwith installation of MEE & RO	400	90
3	noise pollution	Installation of anti-vibration pads & enclosures for DG set & boiler.	3	0.45
4	Environmental monitoring and management	Quarterly environment monitoring	-	2.5
5	Occupational health	Glares, Breathing Masks, Gloves, Boots, Helmets, Ear Plugs & annual health medical check up of workers.	2.5	0.5
6	Green belt development	a green belt of 1336 sq. m. will be provided	6.3	1.8
7	Solid waste management	separate HW storage area development. HW segregation as per category	0.8	0.15
8	water conservation	RWH tank will be provided. the project will be designed as ZLD.	3	0.9

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Acetic Acid	Liquid	Tank	9	4	12.00	Local	Road
Acetyle Chloride	Liquid	Carbouys	0.05	1	2.88	Local	Road
Aluminum Chloride	Solid	Drum	0.24	10	32.20	Local	Road
Anthranilic Acid	Solid	Carbouys	0.05	0.5	0.48	Local	Road
Benzoyl Chloride	Liquid	Drum	0.2	4	7.77	Local	Road
Bleach 5 % Soln.	Liquid	Carbouys	0.05	10	23.36	Local	Road
Calcium Carbonate	Solid	Bags	0.05	1	3.00	Local	Road
Caustic Lye	Liquid	Tank	9	9	33.5	Local	Road
DMSS	Liquid	Drum	0.25	0.5	2.4	Local	Road
Caustic soda flakes	Solid	Bags	0.05	7	41.8	Local	Road
Chalk Powder	Solid	Bags	0.05	3	3.24	Local	Road
Chlorosulphonic Acid	Liquid	Tank	9	7	6.75	Local	Road
Cuprous Chloride	Solid	Drum	0.05	2	5.42	Local	Road
Dimethyl Formide	Liquid	Drum	0.2	1	5.00	Local	Road
EDC	Liquid	Drum	0.25	2	5.00	Local	Road
Fluorescein	Solid	Bags	0.025	2	1.8	Local	Road
Glucose Powder	Solid	Bags	0.05	0.15	0.15	Local	Road
Hydrochloric Acid	Liquid	Tank	9	9	46.97	Local	Road
Indigo	Solid	Bags	0.025	1	1.92	import	Sea
Iodine	Liquid	Carbouys	0.05	3	3.14	Local	Road
Iron Powder	Solid	Bags	0.05	2	2.25	Local	Road
Iso butyl Alcohol	Liquid	Drum	0.16	2	6.0	Local	Road
Liq. Bromine	Liquid	Glass Bottle	0.024	2	5.26	Local	Road
Mono chloro benzene	Liquid	Drum	0.2	4	14.9	Local	Road
Monochloroacetic Acid	Solid	Bags	0.05	3	10.38	Local	Road
Nephthalene	Solid	Bags	0.05	4	6.58	Local	Road
Nitro benzene	Liquid	Drum	0.2	3	10.26	Local	Road
Ortho Toludine Liquid	Liquid	Drum	0.2	3	8.22	Local	Road
Para Phenitidine	Solid	Drum	0.2	2	3.38	Import	sea
Pyridine Base	Liquid	Drum	0.16	8	24	Import	sea
Salt	Solid	Bags	0.05	10	61.04	Local	Road
Soda Ash	Solid	Bags	0.05	5	6.89	Local	Road
Soda Bicarb	Solid	Bags	0.05	5	13.84	Local	Road
Soda Bicarb	Solid	Bags	0.05	5	13.84	Local	Road
Sodium Cyanide	Solid	Drum	0.05	2	7.92	Local	Road
Sodium Hypochlorite	Liquid	Carbouys	0.05	3	8.64	Local	Road
Sodium Nitrate	Solid	Bags	0.05	2	5.67	Local	Road
Sodium Sulphide	Solid	Bags	0.05	5	15	Import	Sea
Sulphur	Solid	Bags	0.05	5	8.72	Local	Road

Sulphur Monochloride	Liquid	Drum	0.2	6	31	Local	Road
Sulphuric Acid	Liquid	Tank	9	10	28.92	Local	Road
Vaccum Salt	Solid	Bags	0.05	15	60	Local	Road
Vat Dyes	Solid	Drum	0.025	2	4.5	Local	Road
Yellow Dye	Solid	Drum	0.025	1.5	1.5	Local	Road
Zinc Powder	Solid	Bags	0.05	0.5	0.5	Local	Road
methanol	liquid	Drum	0.2	4	18	Local	Road
para toludine	Liquid	Drum	0.2	1	2.4	Local	Road
Phosphoric acid	Liquid	Drum	0.2	1	2.4	Local	Road
Phosphorous Pentoxide	Solid	Bags	0.2	0.6	1.35	Local	Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	--
Parking details:	**Number and area of basement:**	--
	Number and area of podia:	--
	Total Parking area:	37.5 sqm.
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	--
	Public Transport:	--
	Width of all Internal roads (m):	6
	CRZ/ RRZ clearance obtain, if any:	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) -'B1'
	Court cases pending if any	No

	Other Relevant Informations	No other information
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	16-05-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. PP proposes Zero Liquid Discharge . PP proposes scrubber to the process vents . As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes Zero Liquid Discharge effluent treatment plant.
Drainage pattern of the project	PP considered contour levels during design of storm water drains.
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits at project site.
Solid Waste Management	PP committed to dispose the hazardous waste at Common Hazardous Waste Treatment, Storage, and Disposal Facility and sale to Authorized vendors. Details are given at Sr. No. 38 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for proposed project is 260 KW which will be supplied by MSEDCL. PP proposes one DG set of 250 KVA capacity.
Traffic circulation system and risk assessment	PP propsoes internal roads of minimum six meter width along with nine meters of turning radius for smooth circulation of traffic.
Landscape Plan	PP provided 33% green belt within the premises.
Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment and submitted DMP.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes EMP cost of Rs.4.0 Lakhs during construction phase and Rs. 445.60 Lakhs as capital cost and Rs. 101.75 Lakh as O & M cost to maintain environmental parameters.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP 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 153rd meeting of SEAC-1 held on 02.07.2018 wherein ToR was granted to the PP for the preparation of EIA/EMP report.

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.

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 submitted EIA/EMP reprot in the 161st meeting held on 15.02.2019 wherein the proposal was deferred for the complinacf of points as mentioned below,

1. PP to provide adequate parkign area and submit revised layout.

2. PP to submit note on adequacy of propsoed space for the expansion activities considering manufactruing quantities, space required for storage of raw materials, finished products, space required for equipment placing and safe working area around each equipment etc.

3. PP to submit details of purchase of raw material from doemstic /local market to reduce Green House Potential due to transportation activity.

4. PP to prepare and submit CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.

5. PP to include monitoring of water and carbon foot print in the EMP

Now PP submiited the compliance.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to utilize their CER for the eradication of malnutrition in the identified affected area in consultation with the District Authority.
2) PP to include monitoring of water and carbon foot print in the EMP

FINAL RECOMMENDATION

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

Agenda of 163rd Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 163 **Meeting Date** March 13, 2019

Subject: Environment Clearance for Expansion in Already Existing Isolated Storage and Handling of Hazardous Chemicals

Is a Violation Case: No

1.Name of Project	Expansion in Already Existing Isolated Storage and Handling of Hazardous Chemicals along with other Allied Facilities to be developed at BPCL Miraj Pol Depot.
2.Type of institution	Government
3.Name of Project Proponent	Bharat Petroleum Corporation Limited
4.Name of Consultant	ECO CHEM SALES & SERVICES, SURAT, GUJARAT
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	At Plot No. 795/1A/3A/1/1 Miraj Pol Depot
9.Taluka	Miraj
10.Village	Miraj
Correspondence Name:	Mr. Rohit Kumar Prajapati
Room Number:	At Plot No. 795/1A/3A/1/1
Floor:	Not applicable
Building Name:	BPCL
Road/Street Name:	Miraj Pol Depot
Locality:	Nr. Railway Goods Shed
City:	Miraj
11.Area of the project	Miraj Municipal
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 39902
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.)	39,902 m2
16.Deductions	Not applicable
17.Net Plot area	39,902 m2
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	33000000

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)	9m
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	Isolated Storage and Handling of Hazardous Chemicals	16530 KL	1716 KL	18246 KL

32.Total Water Requirement

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

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	1.8	1.2	3.0	0.36	0.24	0.6	1.44	0.96	2.4
Gardening	2.5	7.0	9.5	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10m
	Size and no of RWH tank(s) and Quantity:	2 Nos. of OWS i.e. 50 KL and 35 KL
	Location of the RWH tank(s):	OWS
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	1.20 Lakhs
	Budgetary allocation (O & M cost) :	0.35 Lakhs
	Details of UGT tanks if any :	Tank No. Product Capacity (KL) Class Type of Tank (FR, FCR, UG) Material of Construction (MOC) Nominal Dia. (m) Nominal Height (m) 1 Ethanol 100 A UG MS 3.200 12.600 2 Motor Spirit (MS) 100 A UG MS 3.200 12.600 3 Speed Petrol 100 A UG MS 3.200 12.600 4 Ethanol 200 A UG MS 4.000 16.200 5 Motor Spirit (MS) 200 A UG MS 4.000 16.200
35.Storm water drainage	**Natural water drainage pattern:**	Not Applicable
	Quantity of storm water:	Not Applicable
	Size of SWD:	Not Applicable
Sewage and Waste water	**Sewage generation in KLD:**	2.4
	STP technology:	Not Applicable
	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:**	There will some demolition work.
	Disposal of the construction waste debris:	Construction waste will be filled in low lying area within site.
Waste generation in the operation Phase:	**Dry waste:**	0.42 TPM
	Wet waste:	0.105 TPM
	Hazardous waste:	6.25 KL per month
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable

Mode of Disposal of waste:	**Dry waste:**	collected by municipal corporation
	Wet waste:	for composting
	Hazardous waste:	To TSDF site
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Not applicable
	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 Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	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	Tank Cleaning Sludge	3.3	Hazardous and Other Wastes [Management and Transboundary Movement) Amendment Rules, 2016	50 KLPA	25 KLPA	75 KLPA	To TSDF site

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 DG. Sets	HSD 30 L/h	1, 2	7	0.1	490°C
2	Fire Water engine pumps	HSD 50 L/h	0	7	0.1	101°C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	80 L/h	0	80 L/h
41.Source of Fuel		Self		
42.Mode of Transportation of fuel to site		Not applicable		

43.Green Belt Development	**Total RG area :**	13168 m2
	No of trees to be cut :	0
	Number of trees to be planted :	2430
	List of proposed native trees :	all native tress will be listed in EIA
	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	as per EIA	as per EIA	as per EIA	as per EIA
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 :**	MSEB
	During Construction Phase: (Demand Load)	522 kW
	DG set as Power back-up during construction phase	250 KVA
	During Operation phase (Connected load):	700 kW
	During Operation phase (Demand load):	622 kW
	Transformer:	1100 kW
	DG set as Power back-up during operation phase:	65 KVA; 250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No any

48.Energy saving by non-conventional method:

Solar panel will be sued for street lighting,
LED will be used for illumination.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar panel will be sued for street lighting, LED will be used for illumination.	10

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Not applicable	Not applicable	Not applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	as per EIA
	O & M cost:	as per EIA

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	will be added in EIA report	will be added in EIA report	will be added in EIA report

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	will be added in EIA report	will be added in EIA report	will be added in EIA report	will be added in EIA report

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
Proposed Biodiesel Tank	Liquid	Tank Farm	858 KL	858 KL	Not applicable	Manmad BPCL Depot	Railway wagon
Proposed Ethanol Tank	Liquid	Tank Farm	858 KL	858 KL	Not applicable	Local	TT
Ethanol	Liquid	Tank Farm	100 KL	100 KL	Not applicable	Local	TT
MS	Liquid	Tank Farm	100 KL	100 KL	Not applicable	Manmad BPCL Depot	Railway wagon
Speed petrol	Liquid	Tank Farm	100 KL	100 KL	Not applicable	Manmad BPCL Depot	Railway wagon
Ethanol	Liquid	Tank Farm	200 KL	200 KL	Not applicable	Local	TT
MS	Liquid	Tank Farm	200 KL	200 KL	Not applicable	Manmad BPCL Depot	Railway wagon

HSD	Liquid	Tank Farm	4710 KL	4710 KL	Not applicable	Manmad BPCL Depot	Railway wagon
HSD	Liquid	Tank Farm	4710 KL	4710 KL	Not applicable	Manmad BPCL Depot	Railway wagon
HSD	Liquid	Tank Farm	2316 KL	2316 KL	Not applicable	Manmad BPCL Depot	Railway wagon
SKO	Liquid	Tank Farm	1365 KL	1365 KL	Not applicable	Manmad BPCL Depot	Railway wagon
MS	Liquid	Tank Farm	1365 KL	1365 KL	Not applicable	Manmad BPCL Depot	Railway wagon
MS	Liquid	Tank Farm	1365 KL	1365 KL	Not applicable	Manmad BPCL Depot	Railway wagon

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	120 m2
	Area per car:	7 m2
	Area per car:	7 m2
	Number of 2-Wheelers as approved by competent authority:	10
	Number of 4-Wheelers as approved by competent authority:	6
	Public Transport:	Nil
	Width of all Internal roads (m):	5-8m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable

	Category as per schedule of EIA Notification sheet	Schedule 6 (b) i.e. Isolated Storage and Handling of Hazardous Chemicals - Category B
	Court cases pending if any	No any court cases pending
	Other Relevant Informations	Proposal number for the online application on MoEF is SIA/MH/IND2/21955/2018
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	10-02-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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 in 150th meeting of SEAC-1 held on 04.05.2018 wherein ToR was graned to the PP.

PP to carry out Public Consultation as per procedure stipulated in the EIA Notification 2006 and submit a report.

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.

The proposal was considered in the 161st meeting held on 13.02.2019 wherein PP remained absent.

DECISION OF SEAC

During deliberations it was observed that, PP has not submitted required details for appraisal as mentioned below .

1. PP to submit Pointwise compliance of standard and additional ToR points.

2. PP to submit updated and signed Form- I.

3. PP to correct consolidated statement with respect to product list, water requirement, STP provision, details of storm water drains and rain water harvesting etc.

4. Provision of adequate nubmers of toilets for the working employees and floating population.

5. PP to include VOC monitoring in the EMP.

6. PP to carry out soil monitoring for Sodium Absorbtion Ratio.

7. PP to include reasons for high concentration of Sodium, Chlorides and total hardness in the soil.

8. PP to revise EIA/EMP accordingly and submit revised reports.

In view of above, SEAC decided to defer the proposal till PP submits complinace of above points along with additional ToR points.

Specific Conditions by SEAC:

1) PP to submit layout plan showing 33% green belt, adequate internal road width and turning radius required for heavy vehicles, location of emergency equipment, sewage treatment plant, parking areas etc.
2) PP to submit an undertaking for not violating the requirements of EIA Notification 2006 amended time to time.
3) PP to submit copy of water supply NOC obtained from competent Authority.
4) PP to submit copies of Disaster Management Plan .
5) PP to submit copies of HAZOP and QRA studies along with recommendations and mitigation measures.
6) PP to submit calculation for storm water draining considering the contour plan and maximum rain fall; PP also to submit details of proposed rain water harvesting scheme.
7) PP to submit a separate chapter in the EIA report on modern technologies adopted for on site storage of materials to reduce evaporation losses.
8) PP to submit details of proposed sewage treatment facility.
9) PP to submit Form - 2 along with EIA/EMP report as per OM issued by MoEF&CC on 20.04.2018.
10) 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.

FINAL RECOMMENDATION

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

Agenda of 163rd Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 163 **Meeting Date** March 13, 2019

Subject: Environment Clearance for Environmental Clearance for Basalt Stone Quarry of Shri. N. G. Ajwani located at Survey No. 94/A (Part), At Village-Adivali-Bhutavali, Taluka & District – Thane, Maharashtra, having area 1.42 Ha.

Is a Violation Case: No

1.Name of Project	Shri. N. G. Ajwani
2.Type of institution	Private
3.Name of Project Proponent	Shri. N. G. Ajwani
4.Name of Consultant	M/s Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Survey No. 94/A (Part), At Village-Adivali-Bhutavali, Taluka & District – Thane, Maharashtra,
9.Taluka	Thane
10.Village	Adivali-Bhutavali
Correspondence Name:	Shri. N. G. Ajwani
Room Number:	203
Floor:	-
Building Name:	Swastik Chembers
Road/Street Name:	-
Locality:	Chembur
City:	Mumbai
11.Area of the project	Thane Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 0000
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.)	1.42 Ha
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.): 0000
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: 01-04-2016
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	9000000

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)	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	Basalt Stone	-	6815	6815

32.Total Water Requirement

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

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

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	-	1	1	-	0.2	0.2	-	0.8	0.8
Industrial Process	-	7	7	-	7	7	-	0	0
Gardening	-	4	4	-	4	4	-	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3-5 m below ground level
	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 West. The run-off will be maintained by providing garland drains around the quarry boundary to maintain the natural pattern.
	Quantity of storm water:	Around 10 m3/hr of storm water will be generated within the lease area.
	Size of SWD:	The run off will be connected to garland drains
Sewage and Waste water	**Sewage generation in KLD:**	0.8
	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):	100000
	Budgetary allocation (O & M cost):	10000
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	No overburden will be generated.
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	**Dry waste:**	Not Applicable
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Overburden if any will be backfilled in the mine pit.
Mode of Disposal of waste:	**Dry waste:**	Not Applicable
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Overburden if any will be backfilled in the mine pit area.
Area requirement:	**Location(s):**	Overburden if any will be backfilled in the mine pit area.
	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 Charecterestics		

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	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		
42.Mode of Transportation of fuel to site		Not Applicable		

43.Green Belt Development	**Total RG area :**	0.5 Ha
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	750 nos
	List of proposed native trees :	-
	Timeline for completion of plantation :	Stage Wise for the period of 2 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	Nerium oleander	Kaner	83	A native hardy species, drought resistant with fragrant flowers.
2	Terminalia elliptica	Ain	83	A native evergreen broad leaved tree common in the Sahyadris.

3	Cassia fistula	Bahava	83	Native ornamental tree having flowers attracting bees and butterflies
4	Helicteres isora	Murudsheng	83	A native shrub extensively found in the tracts & plains of sahyadri used as roost plant by variety of birds.
5	Albizia lebbeeck	Sirish	83	A native tree with thick canopy.
6	Moullava spicata	Waghati	83	A native evergreen shrub usually visited by birds and abundantly found in Sahyadris
7	Ervatamia divaricata	Ananta	83	A native tree blooming through the year
8	Bombax ceiba	Sawar	83	A native tree with large showy flowers visited by birds.
9	Derris indica	Karanja	86	A native tree blooming throughout the year
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)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	66 KW
	During Operation phase (Demand load):	55 KVA
	Transformer:	-
	DG set as Power back-up during operation phase:	NA
	Fuel used:	NA
	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
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.
Solid waste pollution	--	The overburden will be used for green belt development , surplus will be backfilled in the pit and afforestation will be done.
Sewage Pollution	--	Septic tank followed by soak pit will be provided

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	Air Pollution	Black topping of approach roads	1.5	0.15
2	Air Pollution	Sprinkling of water on quarry and haul roads	--	1.0
3	Air Pollution & Noise Pollution	Thick green belt development	1.5	0.2
4	Reclamation of pit area	Afforestation will be done in the pit area	1.0	0.2
5	Sewage Pollution	Septic tank followed by soak pit will be provided	1.0	0.1

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

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

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

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	Not Applicable
	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.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental Clearance under category 1(a) B2.

PP has obtianed lease from forest department on 06.06.2006 for 20 yeras.

DECISION OF SEAC

During deliberations, PP requested more time to present the case.

Hence deferred

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda of 163rd Meeting of State Level Expert Appraisal Committee-1 (SEAC-1)

SEAC Meeting number: 163 **Meeting Date** March 13, 2019

Subject: Environment Clearance for Environmental Clearance for Basalt Stone Quarry of Shri. G. H. Ajwani located at Survey No. 94/A (Part), At Village-Adivali-Bhutavali, Taluka & District – Thane, Maharashtra, having area 1.42 Ha.

Is a Violation Case: No

1.Name of Project	Shri. G. H. Ajwani
2.Type of institution	Private
3.Name of Project Proponent	Shri. G. H. Ajwani
4.Name of Consultant	M/s Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Survey No. 94/A (Part), At Village-Adivali-Bhutavali, Taluka - Thane, District – Thane, Maharashtra.
9.Taluka	Thane
10.Village	Adivali-Bhutavali
Correspondence Name:	Shri. N. G. Ajwani
Room Number:	203
Floor:	-
Building Name:	Swastik Chembers
Road/Street Name:	NA
Locality:	Chembur
City:	Mumbai
11.Area of the project	Thane Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 0000
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.)	1.42 Ha.
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.): 0000
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: 01-04-2016
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	9500000

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)	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	Basalt Stone	-	6815	6815

32.Total Water Requirement

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

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

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	-	1	1	-	0.2	0.2	-	0.8	0.8
Industrial Process	-	7	7	-	7	7	-	0	0
Gardening	-	4	4	-	4	4	-	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3-5 m below ground level
	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 West. The run-off will be maintained by providing garland drains around the quarry boundary to maintain the natural pattern.
	Quantity of storm water:	Around 10 m3/hr of storm water will be generated within the lease area.
	Size of SWD:	The run off will be connected to garland drains
Sewage and Waste water	**Sewage generation in KLD:**	0.8
	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):	100000
	Budgetary allocation (O & M cost):	10000
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	No overburden that will be generated.
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	**Dry waste:**	Not Applicable
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Overburden if any will be backfilled in the mine pit.
Mode of Disposal of waste:	**Dry waste:**	Not Applicable
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Overburden if any will be backfilled in the mine pit area.
Area requirement:	**Location(s):**	Overburden if any will be backfilled in the mine pit area.
	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 Charecterestics		

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	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		
42.Mode of Transportation of fuel to site		Not Applicable		

43.Green Belt Development	**Total RG area :**	0.5 Ha
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	750 nos
	List of proposed native trees :	-
	Timeline for completion of plantation :	Stage Wise for the period of 2 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	Nerium oleander	Kaner	83	A native hardy species, drought resistant with fragrant flowers.
2	Terminalia elliptica	Ain	83	A native evergreen broad leaved tree common in the Sahyadris.

3	Cassia fistula	Bahava	83	Native ornamental tree having flowers attracting bees and butterflies
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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)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	66 KW
	During Operation phase (Demand load):	55 KVA
	Transformer:	-
	DG set as Power back-up during operation phase:	82.50 KVA x 1 Nos
	Fuel used:	HSD for D.G. Set (Only in the time of Power failure)
	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
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.
Solid waste pollution	--	The overburden will be used for green belt development , surplus will be backfilled in the pit and afforestation will be done.
Sewage Pollution	--	Septic tank followed by soak pit will be provided

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

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Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution	Black topping of approach roads	1.5	0.15
2	Air Pollution	Sprinkling of water on quarry and haul roads	--	1.0
3	Air Pollution & Noise Pollution	Thick green belt development	1.5	0.2
4	Reclamation of pit area	Afforestation will be done in the pit area	1.0	0.2
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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

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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	Not Applicable
	Category as per schedule of EIA Notification sheet	Schedule 1 (a) Category B2
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	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

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Water Budget	Not Applicable
Waste Water Treatment	Not Applicable
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Air Quality & Noise Level issues	Not Applicable
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