157th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 157th (A) **Meeting Date** November 21, 2018

Subject: Environment Clearance for Industrial Project- Synthetic Organic Chemical Industry

Is a Violation Case: No

General Information: Venue: CSIR- National Chemical Laboratory (NCL)Guesthouse, Pashan Road, Pune- 411008,

1.Name of Project	M/s Jain Research Laboratories Pvt Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Babulal Jain
4.Name of Consultant	SGM Enviro (I) Pvt Ltd, Pune
5.Type of project	Industrial Project- Synthetic Organic Chemical Industry
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot No.- A-87/1, MIDC Kurkumbh , Village- Kurkumbh, Tehsil- Daund, District- Pune, Maharashtra
9.Taluka	Daund
10.Village	Kurkumbh
11.Area of the project	Industrial Area (MIDC Kurkumbh)
12.IOD/IOA/Concession/Plan Approval Number	MIDC plot possession letter has been obtained
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 8000
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	10,675
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.): 8000
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	150000000

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	8 Quarters will be provided for the workers

24.Number of expected residents / users	16
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	9.00 m
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Existing temporary shed will be cleared and the solid waste generated will be sent to authorized dealer.

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Baclofen	0	1	1
2	Pregabalin	0	5	5
3	Dipyridamole	0	1	1
4	Triamterene	0	1	1
5	Hydralazine Hydrochloride	0	1	1
6	Verapamil	0	1	1
7	valproic acid Sodium salt	0	2	2
8	Amiloride	0	1	1
9	Metoprolol Tartrate	0	4	4
10	Labetalol Hydrochloride	0	0.5	0.5
11	Betaxolol Hydrochloride	0	0.25	0.25
12	Sotalol Hydrochloride	0	0.5	0.5
13	Timolol maleate	0	0.25	0.25
14	Carvedilol	0	2	2
15	Guaiphenesin	0	5	5
16	Methocarbamole	0	2	2
17	Chlorophensin	0	4	4
18	Chlorophensin carbamate	0	2	2

19	Mephensin	0	2	2
20	Dithranol	0	0.2	0.2
21	Clotrimazole	0	5	5
22	Allopurinol	0	2	2
23	Domperidone	0	2	2
24	Cyclopropylamine	0	25	25
25	R-Epichlorohydrine and its delivatives	0	10	10
26	Formamidine Acetate	0	5	5
27	CARBOXYLIC ACIDS, ANHYDRIDES, DERIVATIVES such as Dimethyl Acrylic Acid ,Glutaric Acid ,Suberic Acid,3-Hydroxy Glutaric Acid,Pimelic Acid,Methyl Succinic Acid,Phenyl Succinic Acid	0	20	20
28	UV Curing Agents based on Substituted Barbuturates/ Triphenyl Trifalte / Ketone	0	2	2
29	SYNTHETIC FRAGRANCES such as Benzyl Acetone and its derivatives, Cyclic carbonates, Cyclopentanone and its Derivatives ,C5- to C16 Cyclic Ketones	0	40	40
30	Byproduct- Ammonium Sulphate	0	10	10
31	Byproduct- Ammonium Chloride	0	7	7
32	Byproduct- Sodium Sulphate	0	8	8
33	Byproduct- PotaissumSulphate	0	2	2
34	Sodium Nitrite	0	1	1

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	107.7 CMD
	Recycled water - Flushing (CMD):	9.3 CMD
	Recycled water - Gardening (CMD):	5
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	117.00 CMD
	Fire fighting - Underground water tank(CMD):	(ground Level water tank= 200 m3)
	Fire fighting - Overhead water tank(CMD):	25 m3
	Excess treated water	Treated water from ETP will be sent to CETP
Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	107.7 CMD
	Recycled water - Flushing (CMD):	9.3 CMD
	Recycled water - Gardening (CMD):	5
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	117.00 CMD
	Fire fighting - Underground water tank(CMD):	(ground Level water tank = 200 m3)
	Fire fighting - Overhead water tank(CMD):	25 m3
	Excess treated water	Treated water from ETP will be sent to CETP
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	7	7	0	1	1	0	6	6
Industrial Process	0	Industrial Processes=40 + Floor washing=10	50	0	18	18	0	32	32
Cooling tower & thermopack	0	Cooling Tower=25 + Boiler=25	50	0	49	49	0	1	1
Gardening	0	10	10	0	10	10	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	80-90 m
	Size and no of RWH tank(s) and Quantity:	The rainwater harvesting structure will be decided during detailed engineering of the project.
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	The rainwater harvesting structure will be decided during detailed engineering of the project.
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	5 Lac
	Budgetary allocation (O & M cost) :	0.5 Lac
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	Through MIDC drain
	Quantity of storm water:	10 Cum/sec
	Size of SWD:	300 x 300 mm
Sewage and Waste water	**Sewage generation in KLD:**	6
	STP technology:	Primary + Secondary
	Capacity of STP (CMD):	1 STP of 15CMD capacity
	Location & area of the STP:	On Ground
	Budgetary allocation (Capital cost):	5 Lac
	Budgetary allocation (O & M cost):	2.0 Lac

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Municipal waste shall be segregated. The biodegradable waste will be composted and non-biodegradable waste send to authorized dealer.
	Disposal of the construction waste debris:	Waste will be sent to Authorized vendors
Waste generation in the operation Phase:	**Dry waste:**	i. Plastic Drums ii. MS drums iii. Paper Drums = 100 Nos/month Each, Scrap=0.5 MT/M, Gunny Bags= 0.5 MT/M
	Wet waste:	NA
	Hazardous waste:	Spent Carbon / Organic solid Waste= 5 MT/M, Distillation residue= 2 MT/M, Waste Oil,Oil soaked Cotton And other Solid waste= 0.5 MT/M
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	0.15 TPM
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Municipal waste shall be segregated. The biodegradable waste will be composted and non-biodegradable waste send to authorized dealer.
	Wet waste:	NA
	Hazardous waste:	Hazardous waste produced will be sent to CHWTSDF
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	STP sludge will be used as manure
	Others if any:	NA
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	pH	-	4-9	5.5-8.5	5.5-8.5
2	BOD	Mg/lit	<2000	<2000 mg/lit	<100 mg/l
3	COD	Mg/lit	<6000	<6000 mg/lit	<250 mg/l
4	TSS	Mg/lit	<2000	<1000 mg/lit	<100 mg/
5	TDS	Mg/lit	<4000	<4000	<2100 mg/l

Amount of effluent generation (CMD):	33 CMD
Capacity of the ETP:	ETP Capacity -25 CMD MEE capacity 15 CMD
Amount of treated effluent recycled :	9.3 CMD
Amount of water send to the CETP:	21.3 CMD
Membership of CETP (if require):	Yes. Applied for Membership of CETP from MIDC, Kurkumbh
Note on ETP technology to be used	Primary Treatment will be provided.
Disposal of the ETP sludge	ETP Sludge from the clarifiers shall be released periodically into Sludge Drying Beds and cakes to be disposed off to CHWTSDF site.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Carbon / Organic solid Waste	18.2	MT/M	0	5.00	5.00	CHWTSDF
2	Distillation residue	20.3	MT/M	0	2.00	2.00	CHWTSDF
3	Waste Oil, Oil soaked Cotton And other Solid waste	5.2	MT/M	0	0.5	0.5	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	2 No of Boilers- 1 tones per hour + 4 tones per hour	Coal or Agro Waste Chips-20 MT/Day	1	30	0.75	220 - 240
2	Thermic Fluid Heater 3 Lac Kcl/hr	FO/ LDO - 500 Kg / Day	2	30	0.4	250 - 260
3	2 Nos of DG sets of 100 KVA & 250 KVA	HSD	3	2.5 Above Roof	0.15	70

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal or Agro Waste Chips	00	20 MT/Day	20 MT/Day
2	FO/ LDO	00	0.5 MT/Day	0.5 MT/Day
41.Source of Fuel		Local Vendor		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	1212 sq. m
	No of trees to be cut :	00
	Number of trees to be planted :	100
	List of proposed native trees :	Refer Pt no. (vi) below
	Timeline for completion of plantation :	Approximately 1 Year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ficus religiosa	Peepal Tree	8	Deciduous, Evergreen , used as traditional medicine
2	Azadirachta indica	Neem	10	Evergreen, Native, Non-flowering
3	Mangifera Indica	Mango	8	Evergreen, long lived , Native.
4	Delonix regia	Gulmohar	9	Flowering plant,Ornamental tree.
5	Peltophorum pterocarpum	Yellow Gulmohar	8	Deciduous treewith orange-yellow fragrant flowers, Ornamental tree,
6	Cassia fistula	Bahava	9	Native, Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
7	Bauhinia racemosa	Apta	10	Native, Small tree with small white flowers, Butterfly host plant
8	Butea monosperma	Flame tree	9	Native, Medium sized deciduous tree. Beautiful orange flowers, Butterfly host plant
9	Pithecellobium saman	Rain tree	10	Fast-growing, Flowering tree
10	Pongamia pinnata	Karanj	10	Deciduous, Native, Flowering
11	Caryota urens	Fish Tail palm	9	Native, Tall evergreen 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	NA	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	The source of power is MSEB
	During Construction Phase: (Demand Load)	25 KVA
	DG set as Power back-up during construction phase	No
	During Operation phase (Connected load):	500 KVA
	During Operation phase (Demand load):	350 KVA
	Transformer:	500 KVA
	DG set as Power back-up during operation phase:	Two DG set having 100 KVA & 250 KVA capacities will be used in case of power failure
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Conservation Methods
1.LEDs :
2. Solar Net-Metering : 100 KW
3. Variable Frequency Drive (VFD)
4. STAR RATED HT TRANSFORMER
5. IE2 / IE 3
6. Extra Thick Aramacell Insulation on Chilled brine Lines / Brine Chiller
7. Dense Pipeline Insulation by pipe sections

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LEDs	750 kwH/Month
2	Solar Net-Metering	12000 KwH/ Month
3	1. Variable Frequency Drive (VFD) 2. STAR RATED HT TRANSFORMER 3. IE2 / IE 3 4. Extra Thick Aramacell Insulation on Chilled brine Lines / Brine Chiller	Energy Conservation by 7 %
4	Dense Pipeline Insulation by pipe sections	Energy Conservation by 5 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Water	NA	ETP/ STP
Air	NA	Adequate Stack Height as per CPCB norms
Noise	NA	Acoustic Enclosures

Solid waste	NA	Sent to authorized agency

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	95 Lacs
	O & M cost:	2.5 Lacs per Annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution	Air Pollution Control Measures- Stack as per CPCB norms	16.0	0.50/Y
2	Water Pollution	Water Pollution Control Measures- ETP, STP, MEE etc	80.0	32.00/ Y
3	Noise Pollution	Noise Pollution Control	2.0	0.50
4	Environment Monitoring and Management	Environment Monitoring and Management	-	1.00
5	Occupational Health	Occupational Health	5.0	0.5
6	Green Belt	Green Belt Development	5.0	2.00
7	Rain Water Harvesting	Rain Water Harvesting	5.0	0.5
8	Solid waste management	Solid waste management	10.0	0.5
9	Energy Conservation	Energy Conservation Measures	95.0	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
Separate Storage facility in the industry	NA	Confined Storage	100 MT	80 MT	50 MT	Local Vendor	By Road

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	325 sqm
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	Nearest Road- NH- 9 (1 km in South-West direction)
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	5 (f)
	Court cases pending if any	NA
	Other Relevant Informations	No
	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 in the 139th meeting of SEAC-1 held on 30th June, 2017 where in ToR was grnated.

DECISION OF SEAC

PP requested to postpone the proposal.

Hence, deferred.

Specific Conditions by SEAC:

1) PP to provide road width of six meters around all manufacturing units and hazardous storage units having turning radius of nine meters.
2) PP to provide 33% green coverage.
3) PP to include product wise list of raw material and its quantity to be used in the EIA report.
4) PP to submit HAZOP and QRA report along with EIA report for individual product and its stages. This shall include spillage and leakage control protocols, procedures and mitigation measures.
5) PP to submit copies of On Site and Off Site Emergency plan.
6) PP to include details of handling of byproducts like reuse, disposal, sale to authorized vendor etc.
7) PP to submit copy of membership and permissions obtained from CETP for disposal of effluent.
8) PP to include detailed product wise material balance in the EIA report with quantities.

FINAL RECOMMENDATION

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

157th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 157th (A) **Meeting Date** November 21, 2018

Subject: Environment Clearance for Proposed Capacity Expansion of BPCL Manmad Installation at Panewadi, Manmad, Maharashtra.

Is a Violation Case: No

1.Name of Project	Proposed Capacity Expansion (2NO'S X 36000 KL HSD TANKS) of BPCL Manmad Installation at Panewadi, Manmad, Maharashtra.
2.Type of institution	Semi Government
3.Name of Project Proponent	Bharat Petroleum Corporation Limited (BPCL)
4.Name of Consultant	Prakruti Engineers & Consultants, Rajrajeshwari colony, Nr. Rajrajeshwari Mangal Karyalaya, Jail Road, Nashik Road, Nashik, Maharashtra - 422101.
5.Type of project	Others
6.New project/expansion in existing project/modernization/diversification in existing project	Product Storage Capacity expansion by construction of Two additional tanks: 2 x 36000 KL HSD Tanks.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	The existing petroleum installation was established prior of EIA Notification 2006. The plant regularly practices the conditions laid by the PCB
8.Location of the project	Survey no 18-27 of Nagapur, Panewadi, Manmad Nandgaon Road, Manmad – 423104.
9.Taluka	Nandgaon
10.Village	Panewadi, Manmad
Correspondence Name:	Mr. Tushar Paimode
Room Number:	NA
Floor:	NA
Building Name:	BPCL Manmad Installation
Road/Street Name:	Manmad – Nandgaon road
Locality:	NA
City:	Manmad
11.Area of the project	Others
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)	No work will be initiated without obtaining Environmental Clearance
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	226 acres
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 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	529600000

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 (Nearest Fire Station is at Manmad)
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 structures includes the Admin Building, Canteen, Drivers Rest Room, Parking area, and Storage tanks for MS, HSD, SKO, Ethanol
30.Details of the demolition with disposal (If applicable)	Not applicable as the expansion will be carried out within the existing plants premises

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Motor Spirit	85460.2 KL	0	85460.2 KL
2	High Speed Diesel	234445 KL	72000 KL	306445 KL
3	Super Kerosene Oil	16700 KL	0	16700 KL
4	Ethanol	1258 KL	0	1258 KL
5	Bio Diesel	6830 KL	0	6830 KL

32.Total Water Requirement

Dry season:	**Source of water**	Bore well
	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**	Bore well
	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	15	0	15	0	0	0	5.8	0	5.8

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5m -10m
	Size and no of RWH tank(s) and Quantity:	2 tank = 50 X 50 m and 16 X 9 m
	Location of the RWH tank(s):	Back side of existing tank farm area
	Quantity of recharge pits:	01
	Size of recharge pits :	2m x 3m
	Budgetary allocation (Capital cost) :	100000
	Budgetary allocation (O & M cost) :	20000
	Details of UGT tanks if any :	-----
35.Storm water drainage	**Natural water drainage pattern:**	Natural water drainage pattern is preserved
	Quantity of storm water:	-
	Size of SWD:	NA
Sewage and Waste water	**Sewage generation in KLD:**	5.8 KLD
	STP technology:	STP of capacity 10 KLD is provided.
	Capacity of STP (CMD):	STP of capacity 10 KLD is provided.
	Location & area of the STP:	Not Applicable
	Budgetary allocation (Capital cost):	Not Applicable
	Budgetary allocation (O & M cost):	30000 PM
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	The solid waste generation on the proposed site will be due to the various construction materials like cement, brick, steel, sand stone, paint and varnishes.
	Disposal of the construction waste debris:	Most of the construction materials like soil, bricks, concrete will be reused for back filling and road construction works and metal scraps will be sold to metal recyclers
Waste generation in the operation Phase:	**Dry waste:**	paper , cartons, plastics etc - 4 kg approx.
	Wet waste:	Biodegradable canteen waste -8 kg approx.
	Hazardous waste:	spent batteries , waste oil , empty drums of oil/ chemicals , fluorescent tubes , 165 KL/annum tank bottom sludge (once in 5 years)
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	STP sludge is used as manure for our plants.
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized vendor or disposed as per applicable MSW rules 2016
	Wet waste:	The composted waste will be used as manure .
	Hazardous waste:	Total tank bottom sludge thus generated is sent to CHWTSDF Pune.
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	STP sludge is used as manure.
	Others if any:	NA
Area requirement:	**Location(s):**	133.44 acres
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH Value	--	7.53	7.51	6.0 - 8.5
2	TSS	mg/l	115	55	100
3	COD	mg/l	246	121	250
4	BOD	mg/l	84	52	100
5	O & G	mg/l	10	03	10

Amount of effluent generation (CMD):	2.8 CMD
Capacity of the ETP:	3 CMD
Amount of treated effluent recycled :	NA
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	Oil Water separator.
Disposal of the ETP sludge	By Bio remediation process.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Tanks Bottom Sludge	Hazardous	KL/Annum	160	160	320	Once in 5 years to CHWTSDF (Pune)

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	2 x 630 kVA, 1 x 300 kVA, 1 x 250 kVA	HSD	4	7	0.15	70 degree

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	2 x 630 kVA, 1 x 300 kVA, 1 x 250 kVA	0	70 L/ Hr for 630 KVA, 40 L/Hr for 250 KVA, 50 L/Hr FOR 300 KVA DG set.
41.Source of Fuel		From Petroleum retail outlets		
42.Mode of Transportation of fuel to site		By Roadways		

43.Green Belt Development	**Total RG area :**	84.22 acres i.e. 37 % of total plot area is developed into Green belt.
	No of trees to be cut :	NA
	Number of trees to be planted :	NA
	List of proposed native trees :	NA
	Timeline for completion of plantation :	NA

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	Syzigium cumini	Jambhul	NA	NA
2	Butea monosperma	Palash	NA	NA
3	Mangifera indica	Aamba	NA	NA
4	Emblica officinalis	Aawla	NA	NA
5	Anthocephalus cadamba	Kadamb	NA	NA
6	Azardiracta indica	Kalu Nimb	NA	NA
7	Tectona grandis	Saawan	NA	NA
8	Albizia lebbeck	Shirish	NA	NA
9	Bombax ceiba	Shemal	NA	NA
10	Dalbergia latifolia	Shisham	NA	NA
11	Anogeissus latifolia	Dhawada	NA	NA
12	Haldina cordifolia	Karam	NA	NA
13	Haldina cordifolia	Karam	NA	NA
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Board 1150 kVA
	During Construction Phase: (Demand Load)	1150
	DG set as Power back-up during construction phase	1 x 125 kVA capacity
	During Operation phase (Connected load):	1150
	During Operation phase (Demand load):	-
	Transformer:	-
	DG set as Power back-up during operation phase:	Existing DGs 2 X 630 KVA, 1 X 250 KVA, 1 X 300 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	-

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

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

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Existing DGs 2 X 630 KVA, 1 X 250 KVA, 1 X 300 KVA	Dust	0.5
2	Hygiene & Sanitation	Worker Health	2
3	Environmental Monitoring	Air, Water, Soil Noise sampling & testing	0.5
4	Medical Health check up of workers	Worker Health	0.5
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/ Noise Pollution Control	Dust suppression , acoustic enclosure , vapour recovery system for tanks	3	0.3
2	Water pollution control/rain water	-	1	0.3
3	Occupational Health	Routine health check up	0.5	0.1
4	Solid Waste Management	-	0.5	0.1
5	Green Belt Development	Tree plantation and green area development	1	0.5
6	Environmental Monitoring	Air, water, noise sampling	0.5	0.2

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Separate Entry & Exit gate, Separate Emergency Exit are made available.

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	25000 SqM
	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:	NA
	Width of all Internal roads (m):	-
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None in 10 KM radius of the plant area
	Category as per schedule of EIA Notification sheet	6(b) Isolated storage & Handling of Hazardous chemicals
	Court cases pending if any	No
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	19-05-2016

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
4	Prakruti Engineers & Consultants, Rajrajeshwari colony, Nr. Rajrajeshwari Mangal Karyalaya, Jail Road, Nashik Road, Nashik, Maharashtra - 422101.	ABC Techno Labs India Pvt Ltd. Head Office: ABC TOWER No. 400 , 13th Street, SIDCO Industrial Estate- North Phase , Ambattur Chennai – 600 098 Tamil Nadu, India.; Regional Office: A355, Balaji Bhavan, Plot No. 42 A, Sector 11, CBD Belapur, Navi Mumbai – 400614, Maharashtra.
15	226 acres	914590 sq.m

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 6(b)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

During deliebratins it was observed that the consultant mentioned in the consolidated statement is not accredited. PP informed that they have appointed ABC Techno lab India Pvt. Ltd. as their accredited consultant.

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.

PP to carry out Public Consultation as per procedure stipulated in the EIA Notification, 2006 and submit point wise compliance of the issues raised during Public Consultation.

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

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

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

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

Specific Conditions by SEAC:

1) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
2) PP to ensure to maintain green belt area as shown in lay out submitted during the appraisal of proposal No. 825.
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
4) PP to include water and carbon foot print monitoring in the Environment Management Plan.
5) PP to obtain permission from competent Authority to draw ground water.
6) PP to carry out HAZOP/Risk Assessment and submit Disaster Management Plan.
7) PP to provide STP for the treatment of domestic sewage.
8) PP to use new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly.
9) PP to include VOC's in the base line data monitoring.

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.

157th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 157th (A) **Meeting Date** November 21, 2018

Subject: Environment Clearance for Expansion and Construction of 7 Nos. of additional U/G & A/G storage tanks of total capacity 795 KL(Six U/G Tanks of MS-1x45KL, SKO-1x45KL, HSD-1x45KL, Bio-Diesel -1x45KL, HSD Sump-1x20KL, MS sump-1x15KL and one Transmix A/G tank- 1x580KL) at existing HPCL Loni terminal, Village-Kadam Wakwasti, P.O Loni Kalbhor Teshil- Haveli, Pune, MH- 412 201

Is a Violation Case: No

1.Name of Project	Expansion and construction of additional storage tanks of MS, SKO, HSD , Bio-Diesel and other allied facilities at HPCL Loni terminal, Village-Kadam Wakwasti, P.O Loni Kalbhor Teshil- Haveli, Pune, MH- 412 201
2.Type of institution	Semi Government
3.Name of Project Proponent	Hindustan Petroleum Corporation Ltd, Loni Terminal, (Pune)
4.Name of Consultant	Vardan Environet, Gurgaon (Haryana)
5.Type of project	Other, 6(b) Isolated storage & handling of hazardous chemicals (As per threshold planning) Industrial Projects - 2
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion and construction of 7 Nos. of additional U/G & A/G storage tanks of total capacity 795 KL(Six U/G Tanks of MS-1x45KL, SKO-1x45KL, HSD-1x45KL, Bio-Diesel -1x45KL, HSD Sump-1x20KL, MS sump-1x15KL and one Transmix A/G tank- 1x580KL) at existing HPCL Loni terminal, Pune, Maharashtra
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, EC has granted via letter No. SEAC-2009/CR.184/TC2 on 15th July 2010 for Construction of MS, SKO, HSD & Ethanol storage tanks and allied facilities at Loni Terminal
8.Location of the project	Survey No.156, 158,151,160 to 167
9.Taluka	Haveli
10.Village	Kadam Wakwasti
Correspondence Name:	Bhaskar Jha, Chief Installation Manager
Room Number:	HINDUSTAN PETROLEUM CORPORATION LIMITED (HPCL)
Floor:	LONI TERMINAL
Building Name:	HPCL LONI TERMINAL
Road/Street Name:	Village-Kadam Wakwasti, P.O Loni Kalbhor
Locality:	Taluka Haveli
City:	Pune, MAHARASHTRA-412 201
11.Area of the project	Yes, HINDUSTAN PETROLEUM CORPORATION LIMITED (HPCL)
12.IOD/IOA/Concession/Plan Approval Number	We are PESO approved
	IOD/IOA/Concession/Plan Approval Number: We are PESO approved
	Approved Built-up Area: 157827
13.Note on the initiated work (If applicable)	No work will be initiated without obtaining Environmental Clearance
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	254952 m2
16.Deductions	Not applicable
17.Net Plot area	254952 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 2468.58
	b) Non FSI area (sq. m.): 1862.76
	c) Total BUA area (sq. m.): 4331.32
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	NA
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA

21.Estimated cost of the project	16000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Admin building	2	10

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

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Motor Spirit (MS)	59572 KL	45 KL	59617 KL
2	High Speed Diesel(HSD)	128926 KL	45 KL	128971 KL
3	Superior Kerosene Oil(SKO)	18650 KL	45 KL	18695 KL
4	Ethanol(ETH)	5252 KL	0 KL	5252 KL
5	Bio-Diesel	0 KL	45 KL	45 KL
6	Transmix /SLOP tank	798 KL	580 KL	1378 KL
7	MS Sump	0 KL	15 KL	15 KL
8	HSD Sump	0 KL	20 KL	20 KL

32.Total Water Requirement

Dry season:	**Source of water**	Hired water tanker and Mula Mutha River
	Fresh water (CMD):	8 KLD
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	15 KLD
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	23 KLD
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	7000 KL
	Excess treated water	0
Wet season:	**Source of water**	Hired water tanker and Mula Mutha River
	Fresh water (CMD):	8 KLD
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	10 KLD
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	18 KLD
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	7000 KL
	Excess treated water	0
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Gardening	15	0	15	0	0	0	0	0	0
Industrial Process	0	0	0	0	0	0	0	0	0
Domestic	5	3	8	0	0	0	3	1	4

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10 m
	Size and no of RWH tank(s) and Quantity:	At present the runoff generated within plant premises is collected through existing storm water drains and connected to rainwater collection tank, which is used for gardening, cleaning and washing
	Location of the RWH tank(s):	It is beside canteen
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	NA
	Quantity of storm water:	NA
	Size of SWD:	NA
Sewage and Waste water	**Sewage generation in KLD:**	4
	STP technology:	Septic Tank followed by Soak Pit are provided for discharge of domestic sewage
	Capacity of STP (CMD):	0
	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:**	The solid waste generation on the proposed site will be due to the various construction materials like cement, bricks, steel, sand stone, paints and varnishes.
	Disposal of the construction waste debris:	Most of the construction materials like soil, bricks, concrete will be reused for back filling and road construction works and metal scrapes will be sold to metal recyclers.
Waste generation in the operation Phase:	**Dry waste:**	Paper, cartons, Plastics etc-4 Kg approx.
	Wet waste:	Biodegradable canteen waste- 8 Kg approx.
	Hazardous waste:	No hazardous waste will be generated as plant activity involves only receipt, storage & dispatch of Petroleum products. Waste containing Oil and Residue (12.48 MT/A) Only. Oily sludge generated intermittently during tank cleaning operations which will be send to the authorized disposal facility. HPCL is a member of Common Hazardous waste Transport Storage and Disposal Facility(CHWTSDF). HPCL has agreement with the authorized vendors
	Biomedical waste (If applicable):	N/A
	STP Sludge (Dry sludge):	None
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Handed over to the authorised vendor
	Wet waste:	Reused as manure for gardening
	Hazardous waste:	No hazardous waste will be generated as plant activity involves only receipt, storage & dispatch of Petroleum products. Oily sludge generated intermittently during tank cleaning operations which will be send to the authorized disposal facility. M/s HPCL is a member of Common Hazardous waste Transport Storage and Disposal Facility(CHWTSDF).
	Biomedical waste (If applicable):	N/A
	STP Sludge (Dry sludge):	Sewage will be disposed in soak-pit and septic tank.
	Others if any:	NA
Area requirement:	**Location(s):**	NA
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Oil & Grease	Mg/L	NA	NA	<10
2	PH	-	NA	NA	5.5-9
3	BOD	Mg/L	NA	23.7	<30
4	COD	Mg/L	NA	95	<100
5	SS	Mg/L	NA	35	<50

Amount of effluent generation (CMD):	Since this project is an Isolated Storage Terminal therefore there is no water requirement for the process. The effluent generated is zero, however the runoff generated during rains is connected to the ETP for treatment as it gets contaminated. This treated runoff is recycled back for gardening purpose.
Capacity of the ETP:	150 KLD
Amount of treated effluent recycled :	100 KLD
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	Activated Sludge Process
Disposal of the ETP sludge	Shall be sent to CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Waste/residues containing oil	5.2	MT/A	12.48 MT/A	0	12.48 MT/A	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	DG set (500 KVA)	30 LTD	1	5.5 m above the roof of the building	NA	NA
2	DG Set (250 KVA)	20 LTD	1	5.5 m above the roof of the building	NA	NA

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	50	30	80
41.Source of Fuel		Owned		
42.Mode of Transportation of fuel to site		Owned Pipeline		

43.Green Belt Development	**Total RG area :**	89030 meter sq.
	No of trees to be cut :	NA
	Number of trees to be planted :	NA
	List of proposed native trees :	NA
	Timeline for completion of plantation :	NA

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

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

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Ltd and owned Rooftop Solar Power System (50 KW)
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	1 x 500 KVA (Existing) & 1 x 250 KVA (Existing)
	During Operation phase (Connected load):	2100 KVA (Existing)
	During Operation phase (Demand load):	2061 KVA (Existing)
	Transformer:	Yes,
	DG set as Power back-up during operation phase:	1 x 500 KVA, 1x 250 KVA , 2 X 1000 kVA(Proposed) These proposed DG sets will replaced the existing DG sets.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

The project proponent has installed 50 KW solar system on roof and also has LED lights in street lighting as well as within the plant premises.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar and LED Lighting System	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Adequate Stack height has been provided for DG set, greenbelt development done within the plant.	Adequate Stack Height shall be provided to proposed D G Sets
Waste water	Oil Water Separator has been provided followed by ETP and domestic waste water sent to septic tank followed by soak pit	Oil Water Separator has been provided followed by ETP and domestic waste water sent to septic tank followed by soak pit
Noise	Acoustic enclosure has been provided for DG sets	Acoustic Enclosures shall be provided to proposed D G Sets

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	0
	O & M cost:	1.20 Lacs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Expenditure of on Environment Management	Air, water, Noise & Labour	Rs 12.60 (approximately)

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Environment Management and Safety	Environment Pollution Control & Health, Safety Measures	300 Lacs	12.60 Lacs

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
HSD	Existing above ground tank	As per layout	22997 KL	22997 KL	As per requirement	-	By rail & pipeline
HSD	Existing above ground tank	As per layout	23587 KL	23587 KL	As per requirement	-	By rail & pipeline
HSD	Existing above ground tank	As per layout	23344 KL	23344 KL	As per requirement	-	By rail & pipeline
MS	Existing above ground tank	As per layout	23869 KL	23869 KL	As per requirement	-	By rail & pipeline
MS	Existing above ground tank	As per layout	9641 KL	9641 KL	As per requirement	-	By rail & pipeline
MS	Existing above ground tank	As per layout	9699 KL	9699 KL	As per requirement	-	By rail & pipeline
MS	Existing above ground tank	As per layout	4455 KL	4455 KL	As per requirement	-	By rail & pipeline
MS	Existing above ground tank	As per layout	4558 KL	4558 KL	As per requirement	-	By rail & pipeline
ETHANOL	Existing above ground tank	As per layout	4276 KL	4276 KL	As per requirement	-	By Road Tankers
HSD	Existing above ground tank	As per layout	10531 KL	10531 KL	As per requirement	-	By rail & pipeline
HSD	Existing above ground tank	As per layout	10105 KL	10105 KL	As per requirement	-	By rail & pipeline
HSD	Existing above ground tank	As per layout	10118 KL	10118 KL	As per requirement	-	By rail & pipeline
HSD	Existing above ground tank	As per layout	11000 KL	11000 KL	As per requirement	-	By rail & pipeline
HSD	Existing above ground tank	As per layout	7344 KL	7344 KL	As per requirement	-	By rail & pipeline
MS	Existing above ground tank	As per layout	7350 KL	7350 KL	As per requirement	-	By rail & pipeline

MS	Existing above ground tank	As per layout	7350 KL	7350 KL	As per requirement	-	By rail & pipeline
HSD	Existing above ground tank	As per layout	9900 KL	9900 KL	As per requirement	-	By rail & pipeline
SKO	Existing above ground tank	As per layout	7350 KL	7350 KL	As per requirement	-	By rail & pipeline
SKO	Existing above ground tank	As per layout	5650 KL	5650 KL	As per requirement	--	By rail & pipeline
SKO	Existing above ground tank	As per layout	5650 KL	5650 KL	As per requirement	-	By rail & pipeline
ETHANOL	Existing above ground tank	As per layout	396 KL	396 KL	As per requirement	-	By Road Tankers
ETHANOL	Existing above ground tank	As per layout	535 KL	535 KL	As per requirement	-	By Road Tankers
SLOP	Existing above ground tank	As per layout	399 KL	399 KL	As per requirement	-	By rail & pipeline
SLOP	Existing above ground tank	As per layout	399 KL	399 KL	As per requirement	--	By rail & pipeline
ETHANOL	Existing underground Tank	As per layout	45 KL	45 KL	As per requirement	-	By Road Tankers
MS	Proposed underground Tank	As per layout	45 KL	45 KL	As per requirement	-	By rail & pipeline
HSD	Proposed underground Tank	As per layout	45 KL	45 KL	As per requirement	-	By rail & pipeline
SKO	Proposed underground Tank	As per layout	45 KL	45 KL	As per requirement	-	By rail & pipeline
BIO-DIESEL	Proposed underground Tank	As per layout	45 KL	45 KL	As per requirement	-	By Road Tankers
TRANSMIX TANK	Proposed aboveground Tank	As per layout	580 KL	580 KL	As per requirement	-	By rail & pipeline
HSD SUMP	Proposed underground Tank	As per layout	20 KL	20 KL	As per requirement	-	By rail & pipeline
MS Sump	Proposed underground Tank	As per layout	15 KL	15 KL	As per requirement	-	By rail & pipeline

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):	NA
	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	Industrial Project Categorized as 6(b) as per EIA Notification 2006
	Court cases pending if any	NA
	Other Relevant Informations	There is no manufacturing process involved in the Terminal. The Rail Wagon Terminal has been handling and storing various petroleum products like MS, SKO, HSD, Ethanol and Biodiesel.
	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
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 6(b)B1 as per EIA Notification, 2006 for expansion of existing unit. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

PP to carry out Public Consultation as per procedure stipulated in the EIA Notification, 2006. PP to submit point wise compliance of the isuses rasied during Public Consultation.

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

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

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

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

DECISION OF SEAC

PP has obtained earlier EC vide No. SEAC-2/CR-184/TC-2 dated 15.07.2010; PP to submit certified copy of compliance of earlier EC from Regional Office of MoEF&CC, Nagpur as per OM issued by MoEF&CC on 07/09/2017

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 lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
2) PP to 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
3) PP to submit details of proposed effluent treatment plant.
4) PP to submit copy of agreement made with irrigation department for lifting of water from Mula - Mutha River.
5) PP to provide STP for the treatment of domestic sewage.
6) PP to carry out HAZOP/Risk Assessment and submit Disaster Management Plan.
7) PP to include VOC's in the base line data monitoring.
8) PP to include water and carbon foot print monitoring in the Environment Management Plan.
9) PP to use new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly.

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.

157th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 157th (A) **Meeting Date** November 21, 2018

Subject: Environment Clearance for Proposed construction of 4 x 500 MT capacity LPG Bottling Plant including 2 x 36 filling guns electronic carousel , 8 nos. of tank truck unloading/loading bays at Plot No E-1/7, Chavane Village, Rasayani, Patalganga, Panvel, District: Raigad, Maharashtra

Is a Violation Case: No

1.Name of Project	Environmental Clearance for proposed construction of 4 x 500 MT capacity LPG Bottling Plant including 2 x 36 filling guns electronic carousel , 8 nos. of tank truck unloading/loading bays at Plot No E-1/7, Chavane Village, Rasayani, Patalganga, Panvel, District: Raigad, Maharashtra
2.Type of institution	Semi Government
3.Name of Project Proponent	Hindustan Petroleum Corporation Limited (HPCL)
4.Name of Consultant	ABC Techno Labs India Pvt. Ltd. ; Head office : No. 2, 2nd street, Thangam Colony, Anna Nagar West, Chennai – 600 040 ; Regional Office : A-355, Balaji Bhavan, Plot 42 A, Sect 11, CBD Belapur, Navi Mumbai 400614 ;Tel : 022-2758 0044/55; Email ID: chaitanyasathe@abctechnolab.com
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	This is a new plant, the proposed capacity is 2000 (4 x 500 MT) LPG storage in MSV
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot No E-1/7, Rasayani.
9.Taluka	Tehsil- Panvel
10.Village	Chavane
Correspondence Name:	Shri . V.Venu Madhav
Room Number:	8
Floor:	NA
Building Name:	Hindustan Bhavan,
Road/Street Name:	SV Marg,
Locality:	Ballard Estate
City:	Mumbai
11.Area of the project	Not applicable
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.)	141640 sq.m
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 28-08-2018
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	28.5

21.Estimated cost of the project	2492600000

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	42 workers during operations; 150 during constructions
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)	7 M wide at distance 5 km
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Yes
29.Existing structure (s) if any	Yes
30.Details of the demolition with disposal (If applicable)	Nil

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	LPG	0	180 TMTPA	180 TMTPA

32.Total Water Requirement

Dry season:	**Source of water**	Borewells at the project site.
	Fresh water (CMD):	36
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	2
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	36
	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**	Borewells at the project site.
	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	4	4	0	0	0	0	1.5	1.5
Industrial Process	0	30	30	0	0	0	0	3	3
Gardening	0	2	2	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	--
	Size and no of RWH tank(s) and Quantity:	--
	Location of the RWH tank(s):	--
	Quantity of recharge pits:	--
	Size of recharge pits :	--
	Budgetary allocation (Capital cost) :	Not applicable
	Budgetary allocation (O & M cost) :	Not applicable
	Details of UGT tanks if any :	--
35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	--
	Size of SWD:	--
Sewage and Waste water	**Sewage generation in KLD:**	1.5
	STP technology:	septic tank & soak pit.
	Capacity of STP (CMD):	0
	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:**	25 kg
	Disposal of the construction waste debris:	It will be disposed as per applicable Solid Waste Management Rules -2016.
Waste generation in the operation Phase:	**Dry waste:**	--
	Wet waste:	--
	Hazardous waste:	Spent oil- 15 LPM
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--

Mode of Disposal of waste:	**Dry waste:**	--
	Wet waste:	--
	Hazardous waste:	It will handed over to authorized hazardous waste recyclers.
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--
Area requirement:	**Location(s):**	--
	Area for the storage of waste & other material:	within in the plant
	Area for machinery:	--
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	0
	O & M cost:	0

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	--	--	--	--	--

Amount of effluent generation (CMD):	3 KLD
Capacity of the ETP:	10 KLD
Amount of treated effluent recycled :	3
Amount of water send to the CETP:	0
Membership of CETP (if require):	--
Note on ETP technology to be used	BAR SCREEN,OIL & GREASE TRAP,EQUALISATION TANK, REACTION TANK,SETTLING TANK,BUFFER TANK,ACTIVATED CARBON FILTER,TREATED WATER COLLECTION TANK
Disposal of the ETP sludge	sent to authorised Party

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent oil	--	LPM	0	15	15 LPM	It will handed over to authorized hazardous waste recyclers.

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	D.G. Set- 2 x 600 KVA	2000 Lit/ Month	1	3.5	--	--
2	D.G. Set- 1 x 250 KVA	--	1	3.5	--	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	0	2000 Lit/ Month	will be used in case of power failure

41.Source of Fuel	near by supply source
42.Mode of Transportation of fuel to site	by road

43.Green Belt Development	**Total RG area :**	49776.33
	No of trees to be cut :	0
	Number of trees to be planted :	50
	List of proposed native trees :	Cassia fistula, Neolamarckia cadamba, Butea monosperma, Holoptelea integrifolia, Schleichera oleosa, Xylia xylocarpa, Bombax ceiba, Terminalia elliptica,
	Timeline for completion of plantation :	With Completion of Construction phase.

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia Fistula	Bahava	6	Medicinal value, Drought tolerant species, ornamental, flowering plant
2	Neolamarckia Cadamba	Kadam	4	--
3	Butea Monosperma	Palas	12	--
4	Bombax Ceiba	Kate-Sawar	7	--
5	Schleichera Oleosa	Kusum	10	--
6	Terminalia Elliptica	Asan	3	Indigenous, Pollution resistant, gives shade
7	Azadirachta Indica	Kadulimb	5	Native, Medicinal value, to control soil erosion, Evergreen
8	Mangifera Indica	Mango	3	Fruit plant, fragrant flowers or leaves, attracts birds/butterflies/bees
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)	100 KVA
	DG set as Power back-up during construction phase	--
	During Operation phase (Connected load):	750 KVA
	During Operation phase (Demand load):	--
	Transformer:	--
	DG set as Power back-up during operation phase:	2 x 600 KVA and 1 x 250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

--

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	--	0

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	180 lacs
	O & M cost:	23 lacs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Nil	Nil	0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	landscape	Green Belt / Horticulture	30	5
2	water conservation	Rain Water Harvesting	30	2
3	waste water treatment	Water management	80	10
4	--	Signage's for EMP	10	1

5	Pollution control	Noise Control Measures	10	2
6	Environmental Monitoring	Environmental Monitoring	10	1
7	Environmental Awareness and Training	Environmental Awareness and Training	10	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
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:	One Junction at main Road
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	10000 Sq.m
	Area per car:	dedicated car parking Shed size 15X6 M,2 wheeler parking Shed size 15X 2.5 M
	Area per car:	dedicated car parking Shed size 15X6 M,2 wheeler parking Shed size 15X 2.5 M
	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):	5m wide
	CRZ/ RRZ clearance obtain, if any:	Not Applicable

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Yes, General Condition: The Karnala Bird Sanctuary lies within a distance of 5 KM approx. from the project .
	Category as per schedule of EIA Notification sheet	B
	Court cases pending if any	No
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-08-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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

DECISION OF SEAC

PP submitted in their consolidated statement that, the distance of Karnala Bird Sanctury is within 5 km from the project site. But PP was not having any authentic docuement to verify the distance.

PP informed that, they will obtain the distance certificate from competent Authority and submit to the committee, till that time PP requested to postpone the proposal.

Hence, deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

157th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 157th (A) **Meeting Date** November 21, 2018

Subject: Environment Clearance for Expansion of "Chemical Manufacturing Plant"

Is a Violation Case: No

1.Name of Project	Expansion of "Chemical Manufacturing Plant"
2.Type of institution	Private
3.Name of Project Proponent	M/s Excel Industries Limited
4.Name of Consultant	M/s Perfact Enviro Solutions Pvt. Ltd
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	No, the unit was established before the EIA Notification,2006. Therefore, Environment Clearance was taken. The unit has valid consent to operate.
8.Location of the project	Plot no. 112, 20/1 & OS-2
9.Taluka	Roha
10.Village	MIDC Dhatav
Correspondence Name:	NA
Room Number:	NA
Floor:	NA
Building Name:	NA
Road/Street Name:	NA
Locality:	NA
City:	NA
11.Area of the project	Maharashtra Industrial Development Corporation
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 47622.61
13.Note on the initiated work (If applicable)	This is already existing industry
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	95569 sqm
16.Deductions	0
17.Net Plot area	95569 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 47622.61
	b) Non FSI area (sq. m.):
	c) Total BUA area (sq. m.): 47622.61
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: 01-08-2018
19.Total ground coverage (m2)	32532
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	34.04
21.Estimated cost of the project	455000000

22.Number of buildings & its configuration

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

1	NA	NA	NA

23.Number of tenants and shops	NA
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12 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	It is existing industry having production of 91,434 TPA (Product: 47,905 TPA and By-product: 43,529 TPA)
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	Phosphorus trichloride (PCl3)	833	1667	2500
2	Thio Phosphoryl Chloride (PSCl3)	17	626	643
3	Phosphorus Pentasulphide (P2S5)	1400	847.5	2247.5
4	Diethyl/Dimethyl Di Thiophosphoric Acid [DTA (E)/(M)]	100	0	100
5	Diethyl/Dimethyl Thiophosphoryl chloride [DETC (E)/(M)]	1271	896	2167
6	Dimethyl Phophoro Amido Thioate (DMPAT)	0	417	417
7	2-Nitrobenzyl Bromide (NBBR)	0	42	42
8	1-(4-Chlorophenyl)-1 H-pyrazol-3-01 (4 CPZ)	0	42	42
9	3-Methoxy-4-methyl-1,2,4-triazolin-5-one (MMT Monohydrate)	0	17	17
10	2-Chloro-5-chloro-methyl thiazole (CCMT)	0	83	83
11	N-Phosphino Methyl Imino Diacetic Acid (NPMIDA)	100	0	100
12	N,N Dimethyl Amino Thio Acetamide Hydrochloride (DMATA.HCl),NI4	8.3	0	8.3
13	2-Methyl / Ethyl Nromo Butyrate (M2BB/E2BB)	50	0	50
14	Phenyl Hydrazine / Phenyl Hydrazine Hydrochloride/4-chloro Phenyl Hydrazine Hydrochloride.	0	83.3	83.3
15	Ethyl 4 - methyl - 5 thaizole carboxylate (TAZ)	0	1.25	1.25
16	Ethyl 2-chloro aceto acetate (E2CA)	0	1.7	1.7
17	Ethyl-2-(4-hydroxyphenyl)-4-methyl-1,3-thiazole-5-carboxylate(T2)	0	4.2	4.2
18	Styrene phosphonic acid (SPA)	20	22	42
19	Para Ethoxy Ethyl Benzoate (PEEB)	30	0	30
20	Para Iso Propoxy Ethyl Benzoate (RELD)	0	20	20
21	EXFLAR - N (Melamine cyanurate)	8.4	0	8.4
22	1,1,1, Tris (4- Hydroxy Phenyl) Ethane (THPE)	0	0	5
23	Flame Retardants-1] Tricryl phosphate2] Triphenyl phosphate 3] Triethyl phosphate 4) Triethyl Phosphite	0	83.4	83.4
24	EXCLAR-414 1,3:2,4-Bis(3,4-dimethylbenzylidene) sorbitol	6.5	0	6.25

25	EXHALS-481 Bis (2,2,6,6-Tetramethyl-4-piperidinyl) sebacate.	8.34	0	8.34
26	Dimethyl Bisphenol Cyclohexane (DMBPC)	10	0	10
27	Amino Trimethylene Phosphonic Acid (ATMP) and Salts /Diethyl Triamine Pentamethylene Phosphonic Acid (DTPMPA) and Salts	120	0	120
28	Butaphosphan	0	1.7	1.7
29	R & D and Pilot Plant for intermediates, Pharmaceuticals and Drugs	5	5	10

32.Total Water Requirement

Dry season:	**Source of water**	MIDC supply
	Fresh water (CMD):	1505
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	1595
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	608
Wet season:	**Source of water**	MIDC Supply
	Fresh water (CMD):	1505
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	1595
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	608
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	75	0	75	0	0	0	75	0	75

Gardening	30	0	30	30	0	30	0	0	0
Industrial Process	370	380	750	70	70	140	300	310	610
Cooling tower & thermopack	600	140	740	570	120	690	30	20	50

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	4 m
	Size and no of RWH tank(s) and Quantity:	No. of RWH tanks: 1 & Quantity: 100 KL
	Location of the RWH tank(s):	surface
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	3.0 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 2250/month
	Details of UGT tanks if any :	Total Under Ground Storage: 256 Kl are as follows Methanol : 16 kl Ethanol : 16 kl x 2 and 40 kl x 45 Toluene : 16 Kl x 2 Diesel : 16 Kl
35.Storm water drainage	**Natural water drainage pattern:**	Available (already existing on site)
	Quantity of storm water:	NA
	Size of SWD:	NA
Sewage and Waste water	**Sewage generation in KLD:**	75
	STP technology:	NA
	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:**	During the construction phase, 8 kg/day of solid waste shall be generated from labor
	Disposal of the construction waste debris:	Waste shall be sent to the designated waste disposal site.

Waste generation in the operation Phase:	**Dry waste:**	25 kg/day
	Wet waste:	56 kg/day
	Hazardous waste:	20.3 Distillation Residue, 21.1 Process wastes, residue & sludge, Residue from filtration of Sulphur (B8), 34.3 Chemical Sludge from waste water treatment, 5.1
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	Boiler Ash- 2100 TPA
Mode of Disposal of waste:	**Dry waste:**	Collected by private garbage collection agency and recycled at the Govt authorised plant
	Wet waste:	The waste will be sent to Organic Waste Convertor
	Hazardous waste:	TSDF Site
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	To brick Manufacture
Area requirement:	**Location(s):**	Surface
	Area for the storage of waste & other material:	Hazardous waste - 287 sq.mt , ETP operation - 4613 sq.mt
	Area for machinery:	22772.4 sq.mt
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	36 Crore
	O & M cost:	2.5 Cr/Annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	Hazen	2.0	6.0-7.0	5.5-9.0
2	Colour	-	colourless	colourless	colourless
3	TDS	mg/l	12000-14000	< 200	< 2100
4	TSS	mg/l	100 – 200	<85	< 100
5	COD	mg/l	8000-10000	230	< 250
6	BOD	mg/l	5000 – 7000	25	<30

Amount of effluent generation (CMD):	640 KLD
Capacity of the ETP:	ETP-650 KLD & MEE- 100 KLD
Amount of treated effluent recycled :	90 KLD
Amount of water send to the CETP:	608 KLD
Membership of CETP (if require):	Yes
Note on ETP technology to be used	Raw Effluent Collection/Equalization We have a fully operative effluent treatment facility comprising of Auto neutralization, Equalization tanks, Secondary and
Disposal of the ETP sludge	TSDF site

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal

1	Distillation residue of M2BB/E2BB Product	20.3 Distillation Residue	MT/A	24	0	24	TSDF site
2	Distillation Bottom from R&D, Pilot plant Products	20.3 Distillation Residue	MT/A	20	20	40	TSDF site
3	Distillation Bottom of THPE product	20.3 Distillation Residue	MT/A	1.75	0	1.75	TSDF site
4	Distillation Bottom of SPA product	20.3 Distillation Residue	MT/A	5.4	5.4	10.8	TSDF site
5	Distillation Bottom of PEEB product	20.3 Distillation Residue	MT/A	5	0	5	TSDF site
6	Distillation Bottom of RELD product	20.3 Distillation Residue	MT/A	0	8	8	TSDF site
7	Distillation Bottom of DETC product	20.3 Distillation Residue	MT/A	229	161	390	TSDF site
8	Distillation Bottom of DMTC product	20.3 Distillation Residue	MT/A	0	5	5	TSDF site
9	Distillation Bottom of Phenyl Hydrazin	20.3 Distillation Residue	MT/A	0	100	100	TSDF site
10	Disttilation Residue of Butaphospan product	20.3 Distillation Residue	MT/A	0	16	16	TSDF site
11	Disttilation bottom of DMBPC product	20.3 Distillation Residue	MT/A	0	3.6	3.6	TSDF site
12	Disttilation bottom of TAZ product	20.3 Distillation Residue	MT/A	0	0.5	0.5	TSDF site
13	Distillation Bottom of DMATA.HCI	20.3 Distillation Residue	MT/A	31	0	31	TSDF site
14	Disttlation bottom of Ni4 product	20.3 Distillation Residue	MT/A	0	10	10	TSDF site
15	Sludge Arising from P4	21.1 Process wastes, residue & sludge	MT/A	0	9.56	9.56	TSDF site
16	Salt from Ni4 Product	21.1 Process wastes, residue & sludge	MT/A	0	234	234	TSDF site
17	Residue from filtration of Sulphur	Residue from filtration of Sulphur (B8)	MT/A	100	50	150	TSDF site
18	Charcoal Residue	34.3 Chemical Sludge from waste water treatment	MT/A	2.1	0	2.1	TSDF site
19	Sludge arising from treatment of high COD waste streams form DETC Process	34.3 Chemical Sludge from waste water treatment	MT/A	7500	9375	16875	TSDF site
20	Sludge arising from treatment of high COD waste streams form DMPAT Process	34.3 Chemical Sludge from waste water treatment	MT/A	0	500	500	TSDF site
21	Sludge arising from secondary treatment of waste water	34.3 Chemical Sludge from waste water treatment	MT/A	800	0	800	TSDF site
22	Spent Lubricating agent system oils	5.1 Used or spent oil 5.2 wastes or residues containing oil	MT/A	5	5	5	TSDF site
23	Discarded containers/barrels/liners/Containers of hazardous chemicals and hazardous waste	33.3 Empty barrels/containers/liners contaminated with hazardous chemicals/wastes	no/yr	1000	0	1000	TSDF site
24	Residue containing iron sulfide, silica and carbon from product distillation.	B4 Residue containing iron sulfide, silica and carbon from product distillation	MT/A	30	0	30	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	Boiler 12TPH	Coal- 24 TPH	S1	42	1.18	415 Kelvin
2	Boiler 6TPH	Coal	S1	42	1.18	415 Kelvin
3	Boiler 12TPH	Coal- 25 TPH	S1	42	1.18	415 Kelvin
4	Generator- 1010 KVA	HSD- 4 T/day	S10	4.5	0.304	388 Kelvin
5	Generator- 750 KVA	HSD- 2 T/day	S9	3.5	0.203	396
6	Generator- 380 KVA	HSD- 1.5 T/day	PS-1 (A)	3.5	0.203	485 Kelvin
7	PCL3	NA	S2	18	0.05	307 Kelvin
8	DETC – I	NA	S3	6	0.05	307 Kelvin
9	DETC – II	NA	S5	6	0.05	307 Kelvin
10	DETC – I	NA	S4	6	0.15	305 Kelvin
11	DETC – II	NA	S6	6	0.15	309 Kelvin
12	NPMIDA	NA	S7 (A)	18	0.15	-
13	NPMIDA	NA	S7 (B)	22	0.07	-
14	NPMIDA	NA	S7 (C)	8	0.15	-
15	SPA	NA	S8	6	0.05	308 Kelvin
16	Pilot Plant	NA	S11	6	0.05	309 Kelvin
17	Pilot Plant	NA	S12	6	0.05	307 Kelvin
18	ATMP	NA	ATMP	6	0.05	-
19	Oil hearing unit	Furnace Oil - 1 T/day	S14	16	0.25	452 Kelvin
20	P2S5 (P2) Plant	Furnace Oil - 1 T/day	PS2	16	0.20	327 Kelvin
21	P2S5 (P2) Plant	NA	PS3	10	0.20	305 Kelvin
22	P2S5 (P3) Plant	Furnace Oil - 1.05 T/day	PS3	16	0.20	312 Kelvin
23	P2S5 (P3) Plant	NA	PS5	10	0.20	307 Kelvin
24	DMPAT	NA	S15	6	0.05	-
25	MPP	NA	S16	6	0.002	-
26	MPP	NA	S17	6	0.002	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	29 T/day	20 T/day	49 T/day
2	HSD	7.5 T/day	0	7.5 T/day
3	Furnace Oil	3.05 T/day	0.95 T/day	4 T/day
41.Source of Fuel		Coal - Imported from Indonesia (Mine) , HSD/Furnace Oil - from Refinery		
42.Mode of Transportation of fuel to site		Road transport		

43.Green Belt Development	**Total RG area :**	31555 sq.mt
	No of trees to be cut :	0
	Number of trees to be planted :	155
	List of proposed native trees :	Date Palm, White frangipani, False Ashoka, Coconut, Indian-almond, Mango, Weeping fig, Gulmohar tree, Dracaena, Ixora, Ashoka, Indian shot, Raatrani
	Timeline for completion of plantation :	3 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Phoenix Dactylifera	Date Palm	11	Cultivated primarily for fruit eaten fresh or dried, being a high energy food of high sugar content, as well as a good source of iron and potassium also have medicinal properties.
2	Plumeria alba	White frangipani	6	Root bark, flower and seed used in medicine.
3	Polyalthia longifolia	False Ashoka	30	Used for making barrels
4	Cocos nucifera	Coconut	8	Cultivated primarily for fruit eaten fresh or dried, used in cosmetics and also have medicinal properties.
5	Terminalia catappa	Indian-almond	18	Raw seed eaten fresh or roasted and rest Bark, leaves and fruits used in medicine
6	Mangifera indica	Mango	2	Cultivated primarily for fruit eaten fresh and rest Bark, leaves have medicinal properties.
7	Ficus benjamina	Weeping fig	14	An ornamental plant also used for air cleaning.
8	Delonix regia	Gulmohar tree	5	Gulmohar is an ornament plant in all over world and parts are used as a traditional medicine
9	Dracaena marginata	Dracaena	10	Dracaena is an ornament plant in all over world
10	Ixora chinensis	Ixora	12	Used as an ornamental hedge and parts are used as a medicine
11	Saraca indica	Ashoka	15	Root bark, flower and seed used in medicine.
12	Canna indica	Indian shot	5	Canna indica is an ornament plant in all part of the world
13	Cestrum nocturnum	Raatrani	5	Used as an ornamental hedge and parts are used as a medicine
14	Cycas revoluta	Sago palm	8	Leaves and seed used in medicine.
15	Tabernaemontana divaricata	Crape jasmine	6	It is used as a traditional medicine
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL (Maharashtra State Electricity Distribution Company Limited)
	During Construction Phase: (Demand Load)	25 KVA
	DG set as Power back-up during construction phase	3 Nos. of DG Set having Capacity 380 KVA, 750 KVA & 1010 KVA
	During Operation phase (Connected load):	6866 KVA
	During Operation phase (Demand load):	3950 KVA
	Transformer:	3 MVA each, 22 KV Input and 3 Phase 440 V output
	DG set as Power back-up during operation phase:	3 Nos. of DG Set having Capacity 1010 KVA, 750 KVA & 380 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	None

48.Energy saving by non-conventional method:

Use of LED lamps in place of conventional Mercury Vapour lamps, Installation of energy efficient Motors, Installation of Energy Pumps.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Electricity consumption of lighting is reduced by 5	100 KW to 50 KW

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air pollution from coal boiler	Chimney (cyclone type dust collector)	Chimney (cyclone type dust collector)
Air pollution from DG sets	Stacks has been provided	-
Air pollution from flue gases from process	Common Scrubbers, Packed Column Scrubber	Common Scrubbers, Packed Column Scrubber

Waste water stream	ETP & MEE	ETP & MEE
Noise from Machinery area, canteen etc	Earmuffs	Earmuffs

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	LED Lamps - 22.0 Lakhs, Energy Efficient Motors - 10 Lakhs, Energy Efficient Pumps- 25 Lakhs (2018-2019)
	O & M cost:	5 Lakh

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 and Noise pollution control system	PM, Leq	3 Lakh

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Plant and Machinery (APCM)	APCS and monitoring	30	240
2	Solid Waste Management	Filter press for sludge De-watering	100	0.6
3	Waste Water Management	ETP and MEE	1500	223
4	Landscaping/Plantation	Plantation	50	8

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	11573 sq.mt
	Area per car:	7.5 sq.mt
	Area per car:	7.5 sq.mt
	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):	9
	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	NO COURT CASE
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	08-05-2018

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

PP has obtained ToR from MOEF&CC vide letter No. IA-J-11011/86/2018 dated 23.04.2018 for their proposed project at Plot No. 11, 20/1, OS-2 MIDC Area, Dhatav, Roha, Dist. Raigad.

DECISION OF SEAC

During deliberations it was observed that the Dhatav(ct) is included in the list of ecosensitive villages published in the draft Notification issued by MoEF&CC 3rd October, 2018.

Ministry of Environment and Forest, New Delhi has issued Directions under Section 5 of the Environment (Protection) Act, 1986 dated 13.11.2013 and Office Memorandum dated 20.12.2013 regarding prohibition of activities in the area identified as Ecologically Sensitive Area (ESA) under the High Level Working Group (HLWG) formulated for Western Ghat by Ministry of Environment, Forest and Climate Change, Government of India, New Delh.

The direction states as below,

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

1. Mining, quarrying and sand mining.

2. Thermal Power Plants.

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

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

5. Red Category of Industries

The proposal under reference falls at Sr. No. 5 above.

SEAC is of the opinion that, proposed expansion of industry is prohibited in Ecosensitive Area as mentioned above.

However MoEF&CC vide their EDS dated 20.05.2018 & 29.06.2018 have communicated to the PP as under respectively,

"Appicability of general condition needs to be justified with supporting docuemnts (Final Notification of Western Gahts declaring the same as ESZ/ESA) for considering the proposal at central level."

"The project/activity is covered under category "B" of item 5(f) of the schedule to the EIA Notification, 2006, which is th ejurisdiction of SEAC/SEIAA. Please submit your proposal accordingly."

In this proposal under reference ToR is granted by EAC, MoEF&CC and directed the PP to approach to the SEIAA as proposed project falls under category "B".

In view of above circumstances, SEAC decided to refer the proposal to the SEIAA for guidance on follwing point,

Whether proposal under reference may be apprasied as category "B" as per EIA Notification, 2006.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.

157th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 157th (A) **Meeting Date** November 21, 2018

Subject: Environment Clearance for Environment Clearance for DG set installation of - Existing capacity 1.6 MW x 2, 1.2 MW X 1, Proposed Capacity 1.8 MW x 3 and Total capacity of (Existing 4.4 MW + Proposed 5.4 MW) DG Set = 9.8 MW

Is a Violation Case: No

1.Name of Project	Sterlite Technologies Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Sterlite Technologies Ltd.
4.Name of Consultant	Pollution and Ecology Control Services
5.Type of project	Industrial Project
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	AL-23
9.Taluka	Shendre
10.Village	Shendra MIDC
Correspondence Name:	Sterlite Technologies Ltd , MIDC Shendra, Aurangabad. Maharashtra-India
Room Number:	Plot No AL 23
Floor:	-
Building Name:	-
Road/Street Name:	Shendre MIDC Road
Locality:	MIDC Shendre
City:	Aurangabad
11.Area of the project	MIDC Area
12.IOD/IOA/Concession/Plan Approval Number	Possession receipt By Maharashtra Industrial Development Corporation (MIDC) Dated -26/05/2010
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Consent to Operate by MPCB, Via Consent Order no: Formate 1.0/130/CAC-Cell/UAN No-0000005031/3rd CAC/1704000080 dated-03/04/2017
15.Total Plot Area (sq. m.)	60,000 Sqm (as per Possession receipt of MIDC)
16.Deductions	Open space: 22000 Sq m (As per MPCB Consent)
17.Net Plot area	38000 Sqm
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.): 00
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: 26-05-2010
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	88000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Shed for DG Set (1)	1	10 mtr.
2	Shed for DG Set (1)	1	10 mtr.

23.Number of tenants and shops	Not Applicable
24.Number of expected residents / users	About 150-200 no. users including worker & staff.
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)	15 m approach road hum SH (20 m. Wide)
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Road width -9 mt Turning radius-12 mt
29.Existing structure (s) if any	Existing industrial Shed and office building is 16450 Sq.m.
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	DG Set installation	1.6 MW x 2 , 1.2 MW x 1 = 4.4 MW	1.8 MW x 3 = 5.4 MW	9.8 MW

32.Total Water Requirement

Dry season:	**Source of water**	MiDC
	Fresh water (CMD):	5
	Recycled water - Flushing (CMD):	4
	Recycled water - Gardening (CMD):	5
	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**	MIDC
	Fresh water (CMD):	5
	Recycled water - Flushing (CMD):	4
	Recycled water - Gardening (CMD):	0
	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)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0	9	9	0	1.8	1.8	0	7.2	7.2
Gardening	0	5	5	0	5	5	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre monsoon : 5.0-8 m bgl Post monsoon : 3.0-5.0 m bgl
	Size and no of RWH tank(s) and Quantity:	Not Proposed
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	Will be elaborate in EIA Report
	Size of recharge pits :	Will be elaborate in EIA Report
	Budgetary allocation (Capital cost) :	Will be elaborate in EIA Report
	Budgetary allocation (O & M cost) :	Will be elaborate in EIA Report
	Details of UGT tanks if any :	Will be elaborate In EIA Report
35.Storm water drainage	**Natural water drainage pattern:**	The storm water drainage will be designed according to contours. The storm water collected through the storm water drains of adequate capacity will be led to recharge pits
	Quantity of storm water:	Will be elaborate in EIA Report
	Size of SWD:	Will be elaborate in EIA Report
Sewage and Waste water	**Sewage generation in KLD:**	NA
	STP technology:	NA
	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:**	Not Applicable
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	**Dry waste:**	Not Applicable
	Wet waste:	Not Applicable
	Hazardous waste:	Used Oil: 7000 It/Year
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	Used oil will be handover to Maharashtra Enviro Power Ltd (MEPL) for Treatment Storage and Disposal.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	Near Sub station area: DG Set installation
	Area for the storage of waste & other material:	Near Gas room
	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	NA	NA	NA	NA	NA

Amount of effluent generation (CMD):	NA
Capacity of the ETP:	NA
Amount of treated effluent recycled :	MA
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	NA
Disposal of the ETP sludge	NA

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used Oil	5.1	Ltr/year	3143	3857	7000	Used oil will be handover to Maharashtra Enviro Power Ltd (MEPL) for Treatment, Storage and Disposal.

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG SET (2250 KVA)	Diesel , 2610.6 ltr/day	Stack 1	30	0.450	475 degree C
2	DG SET (2250 KVA)	Diesel , 2610.6 ltr/day	Stack 1	30	0.450	475 degree C
3	DG SET (2250 KVA)	Diesel , 2610.6 ltr/day	Stack 1	30	0.450	475 degree C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	6380 ltr/day	7832 ltr/day	14212 ltr/day
41.Source of Fuel		Diesel Authorized Distributor		
42.Mode of Transportation of fuel to site		Tanker/Barrel		

43.Green Belt Development	**Total RG area :**	20210 Sq.m.
	No of trees to be cut :	None
	Number of trees to be planted :	1721 Tree planted in existing premises and 300 trees to be planted
	List of proposed native trees :	Neem, Nandrulk , Sita Ashok, Shirish , Royal Palm, Palas, Maharukh, Laxmi Taru
	Timeline for completion of plantation :	NA

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	Neem	30	Medicinal Value
2	Ficus microcarpa	Nandruk	50	Medicinal Value
3	Saraca asoca	Sita Ashok	50	Beautification
4	Roystonea regia	Royal Palm	50	Beautification
5	Albizzi alebek	Shlrish	20	Large Tree
6	Buteamono sperma	Palas	50	Beautification
7	Simaroubaglauca	LaxmlTaru	30	Medicinal Value
8	Allathus excelsa	Maharukh	20	Medicinal Value
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	State Electricity Board
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	NA
	During Operation phase (Demand load):	NA
	Transformer:	NA
	DG set as Power back-up during operation phase:	Existing 2000 KVA (1.6 MW) x 2, 1500 KVA (1.2 MW) x 1, Proposed DG Set 2500 KVA (1.8 MW) x 3
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
DG Set	Stacks	Stacks

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Air & Noise monitoring	3.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Environmental Monitoring	Ambient Air quality, Noise Level, Exhaust from DG Set.	--	6.0
2	Water	RWH	6	0.20
3	Land Environment	Gardening	10	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
Diesel	NA	Near Gas room	-	-	--	Diesel Authorized Distributor	Tanker/ Barrel

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Plant is approached through 15 m. wide tar MIDC Road connected to Jalna -Aurangabad Highway
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):	Width of all internal roads (m) - 6 mtr
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Category B as per schedule 1(d)
	Court cases pending if any	NA

	Other Relevant Informations	Application for ToR
	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 1(d)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015. PP proposes to install 2500 KVA D G Sets for back up.

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

DECISION OF SEAC

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.

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

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

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

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

Specific Conditions by SEAC:

1) PP to submit layout plan showing roads, storm water drains and contour on the plot. PP also to submit storm water drain calculations.
2) PP to submit design details of air pollution control equipment provided to the proposed DG sets including acoustic enclosure.
3) PP to include calculations for the power generation efficiency in the EIA report.
4) PP to include details of electrical safety in the EIA report and submit disaster management plan.
5) PP to obtain necessary approvals, licenses for on site storage of diesel.
6) PP to submit building drawings along with cross sections proposed for the DG set installation.

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.

157th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 157th (A) **Meeting Date** November 21, 2018

Subject: Environment Clearance for Proposed 250 kg / hr. Common Bio – Medical Waste Treatment Facility (CBMWTF) at Village-Phandari Sadak Arjuni, Maharashtra to cater about 6,000 beds covering 2 Districts (Bhandara and Gondia) and all the districts falling within 75 km radius.

Is a Violation Case: No

1.Name of Project	Proposed 250 kg / hr. Common Bio – Medical Waste Treatment Facility (CBMWTF) at Village-Phandari Sadak Arjuni, Maharashtra to cater about 6,000 beds covering 2 Districts (Bhandara and Gondia) and all the districts falling within 75 km radius.
2.Type of institution	Private
3.Name of Project Proponent	Vidarbha Enviro Solutions LLP / Gulam Dastgir Pathan
4.Name of Consultant	Visiontek Consultany Services Pvt. Ltd. Bhubaneshwar, Odisha.
5.Type of project	Others - Proposed 250 kg / hr. Common Bio – Medical Waste Treatment Facility (CBMWTF) at Village-Phandari Sadak Arjuni, Maharashtra to cater about 6,000 beds covering 2 Districts (Bhandara and Gondia) and all the districts falling within 75 km radius.
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	NA
8.Location of the project	Khasra No. 548/2 and 98
9.Taluka	Sadak-Arjuni
10.Village	Phandari (Halbitola)
Correspondence Name:	Gulam Dastgir Pathan
Room Number:	NA
Floor:	NA
Building Name:	NA
Road/Street Name:	Near Rest House, Balaghat Road, Gondia
Locality:	Tal-Gondia
City:	Gondia
11.Area of the project	Other area - Pandhari Gram Panchayat
12.IOD/IOA/Concession/Plan Approval Number	Approval Received from Pandhari Gram Panchayat
	IOD/IOA/Concession/Plan Approval Number: Approval Received on 17/07/2018
	Approved Built-up Area: 570
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Approval Received from Pandhari Gram Panchayat on 17
15.Total Plot Area (sq. m.)	5463.25 Sqm. (1.35 Acre)
16.Deductions	NA
17.Net Plot area	5463.25 Sqm. (1.35 Acre)
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 570
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 17-07-2018
19.Total ground coverage (m2)	NA
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	25565000

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

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)	Nearest Fire Station is Birsi Airport Fire Station. It is about 31 km away from the Project Site towards NE. Width of the Road from the nearest Fire Station to the Project Site is 6.0 Mtr.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 7.5 meter width of turning radius has been kept for proper movement of vehicles
29.Existing structure (s) if any	There is no Existing Structure.
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	NA	NA	NA	NA

32.Total Water Requirement

Dry season:	**Source of water**	Pandhari Gram Panchayat
	Fresh water (CMD):	11
	Recycled water - Flushing (CMD):	00
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	20
	Fire fighting - Underground water tank(CMD):	20
	Fire fighting - Overhead water tank(CMD):	00
	Excess treated water	00
Wet season:	**Source of water**	Pandhari Gram Panchayat
	Fresh water (CMD):	2
	Recycled water - Flushing (CMD):	00
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	11
	Fire fighting - Underground water tank(CMD):	20
	Fire fighting - Overhead water tank(CMD):	00
	Excess treated water	00
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Industrial Process	0	7	7	0	0	0	0	7	7
Domestic	0	2	2	0	0.2	0.2	0	1.8	1.8
Gardening	0	9	9	0	9	9	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1.3 to 2.8 mbgl
	Size and no of RWH tank(s) and Quantity:	Since it is a Bio-medical Waste Management Project, rain water harvesting at site is not proposed.
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	One Number of UGT for Fire Water Storage will be constructed. Capacity of the Tank will be 22 KL. Fire Water Requirement is about 20 KL.
35.Storm water drainage	**Natural water drainage pattern:**	The Site has Natural Slope from South direction to North direction.
	Quantity of storm water:	1.8 m3 / Min
	Size of SWD:	Depth of the Storm water Drain (SWD) will be 0.5m and width will be 0.3m. The slope will be maintained throughout the SWD in such a way that the velocity of the flowing water will be more than 0.3m/sec. Actually the velocity of the flowing water will be required 0.2m/sec but for drainage, design velocity of the flowing water has been considered as 0.6m/sec.
Sewage and Waste water	**Sewage generation in KLD:**	1.8 KLD
	STP technology:	About 1.8 KLD Sewage will be generated in the proposed project. Sewage will be collected in the Septic Tank first and then the over flow of septic tank will be fed to the Aeration Tank of Effluent Treatment Plant of 13.0 KLD Capacity and then it will be treated up to Advanced Tertiary Level. One Number of ETP has been Proposed and any separate STP has not been proposed.
	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:**	Excavated material will be generated. Construction debris will be generated. Recyclable waste will be generated through the construction. Excavated Top soil will be generated during construction.
	Disposal of the construction waste debris:	Entire excavated material (except top soil) will be used for backfilling. Construction debris will be utilized within the site upto maximum extent. All the recyclable waste generated through the construction will be handed over to authorized recyclers. Top Soli will be used for plantation.
Waste generation in the operation Phase:	**Dry waste:**	About 113 kg/day Ash from Incineration will be generated. 12,750 kg/day Dry waste will be sent to Autoclave and then Shredder.
	Wet waste:	All the wet wastes such as human or animal tissues, body parts, blood or other body fluids etc. will be collected from hospitals.
	Hazardous waste:	About 113 kg/day Ash from Incineration will be generated. ETP Sludge will be generated.
	Biomedical waste (If applicable):	It is a Proposed 250 kg / hr. Common Bio – Medical Waste Treatment Facility (CBMWTF) at Village-Pandhari, Sadak Arjuni, Maharashtra to cater about 6,000 beds covering 2 Districts (Bhandara and Gondia) and all the districts falling within 75 km radius.
	STP Sludge (Dry sludge):	About 1.8 KLD Sewage will be generated in the proposed project. Sewage will be collected in the Septic Tank first and then the over flow of septic tank will be fed to the Aeration Tank of Effluent Treatment Plant of 13.0 KLD Capacity and then it will be treated up to Advanced Tertiary Level. One Number of ETP has been Proposed and any separate STP has not been proposed.
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Ash from Incineration and other hazardous wastes will be sent to CHWTSDF.
	Wet waste:	All the wet wastes such as human or animal tissues, body parts, blood or other body fluids etc. will be burnt in the Incinerator.
	Hazardous waste:	All Haz. Waste shall be stored separately and shall be strictly sent to CHWTSDF as per Hazardous and Other Waste (Management & Trans Boundary) Rules, 2016.
	Biomedical waste (If applicable):	All bio-medical waste shall be managed as per Bio-medical Waste Management Rule, 2016
	STP Sludge (Dry sludge):	About 1.8 KLD Sewage will be generated in the proposed project. Sewage will be collected in the Septic Tank first and then the over flow of septic tank will be fed to the Aeration Tank of Effluent Treatment Plant of 13.0 KLD Capacity and then it will be treated up to Advanced Tertiary Level. One Number of ETP has been Proposed and any separate STP has not been proposed. ETP sludge will be sent to CHWTSDF.
	Others if any:	NA
Area requirement:	**Location(s):**	The Proposed project of M/s. Vidarbha Enviro Solutions is located at Village: Pandhari (Halbitola), Tehsil: Sadak Arjuni, District: Gondia, Maharashtra.
	Area for the storage of waste & other material:	Approx. 164 sqm of area has been demarcated for storage of different type of waste generated from the treatment facility. These storage areas have separated based on the type of waste to be stored.
	Area for machinery:	Approximately 188 sqm. area has been demarcated for Incinerator, Autoclave, shredder.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	25565000
	O & M cost:	Rs 240000

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	4 to 6	6.5 to 8.5	5.5 to 9.0
2	TSS	mg/litre	300 to 600	50 to 100	<100
3	BOD	mg/litre	250 to 400	20-30	<100
4	O & G	mg/litre	20 to 30	5 to 10	<10
5	COD	mg/litre	750 to 1000	200 to 250	<250
Amount of effluent generation (CMD):		9.0 CMD			
Capacity of the ETP:		13 CMD			
Amount of treated effluent recycled :		9 CMD			
Amount of water send to the CETP:		Treated Water will be completely recycled / reused in the Plant and there will be no liquid discharge outside the plant premises. It will be a Zero Liquid Discharge (ZLD) Plant.			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		Advanced Tertiary Treatment			
Disposal of the ETP sludge		ETP sludge shall be sent to CHWTSDF, Butibori Nagpur			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP Sludge	34.3	NA	NA	As per actual	As per actual	CHWTSDF
2	Incineration Ash	BMW-cat No. 9	NA	NA	113 kg/day	113 kg/day	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	Incineration	HSD 65 ltr/hr.	1	30	0.550	90 (oC)
2	D.G Set	HSD 350 ltr./month	1	5.0 m above the roof	0.200	40 (oC)

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	66 ltr./hr	66 ltr. /hr.
41.Source of Fuel		Local Market		
42.Mode of Transportation of fuel to site		Fuel will be transported to the site by sealed MS Drums through Closed Containers.		

43.Green Belt Development	**Total RG area :**	1802.87 m2 (33% of the Total Plot Area)
	No of trees to be cut :	NA
	Number of trees to be planted :	289 Nos. of Trees will be Planted along the boundary of the Project Site.
	List of proposed native trees :	As listed below
	Timeline for completion of plantation :	Within 1 Month during construction period

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	Neem	57	Evergreen
2	Cassia fistula	Golden shower	57	Deciduous
3	Hibiscus rosasinensis	Jaswand	57	Evergreen
4	Butea monosperma	Palas	57	Deciduous
5	Ficus religiosa	Pipal	61	Evergreen
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL (Dava Sub Station)
	During Construction Phase: (Demand Load)	20 kVA
	DG set as Power back-up during construction phase	50 kVA
	During Operation phase (Connected load):	50 kVA
	During Operation phase (Demand load):	30 kVA
	Transformer:	30 kVA
	DG set as Power back-up during operation phase:	50 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

it is a Proposed project. It will be done during the Operational Phase of the Project.

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
Incinerator (Air Pollution)	NA	Venturi Scrubber, Quencher, Multi Cyclonic Droplet Separators, Flooded scrubber with Quenching Arrangement. Media of the Scrubber will be Water.
Autoclave, Washing Area and Domestic Waste Water (Water Pollution)	NA	About 1.8 KLD Sewage will be generated in the proposed project. Sewage will be collected in the Septic Tank first and then the over flow of septic tank will be fed to the Aeration Tank of Effluent Treatment Plant of 13.0 KLD Capacity and then it will be treated up to Advanced Tertiary Level. One Number of ETP has been Proposed and any separate STP has not been proposed. 9 KLD Effluent will be generated in the proposed project which will be fed to ETP and then it will be treated up to Advanced Te
Incinerator & ETP (Hazardous Solid Waste)	NA	About 113 kg/day Ash from Incineration will be generated. ETP Sludge will be generated. These will be Will be disposed to CHWTSDF.
Incinerator, Shredder & D.G.Set (Noise Pollution)	NA	Noise generating equipments will be kept in closed structures. Acoustic systems will be provided to D.G. set. The workers will also be provided with ear muff, ear plug while working at noisy area.

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Pollution Management	Regular Water Sprinkling to reduce Fugitive Emission	1.0
2	Water Pollution Management	Supply of Potable Water for domestic purpose by tankers & arrangement of Bio-toilets at the site	1.0
3	Solid & Hazardous Waste Management	Solid Wastes generated during constructional phase would be storage disposed properly. Hazardous Waste would be handed over to authorized vendor.	1.0

4	Occupational Health & Safety	PPEs will be provided, Fire Safety Arrangements and First-aid Facility will be provided	1.0
5	Green Belt Development	Plantation will be completed during the constructional phase. 289 Nos. of Trees will be Planted along the boundary of the Project Site.	1.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Environment	Venturi Scrubber, Quencher, Multi Cyclonic Droplet Separators, Flooded scrubber with Quenching Arrangement. Media of the Scrubber will be Water.	5.0	3.0
2	Water Environment	About 1.8 KLD Sewage will be generated in the proposed project. Sewage will be collected in the Septic Tank first and then the over flow of septic tank will be fed to the Aeration Tank of Effluent Treatment Plant of 13.0 KLD Capacity and then it will be treated up to Advanced Tertiary Level. One Number of ETP has been Proposed and any separate STP has not been proposed. 9 KLD Effluent will be generated in the proposed project which will be fed to ETP and then it will be treated up to Advanced Te	10	2.0
3	Hazardous Solid Waste	About 113 kg/day Ash from Incineration will be generated. ETP Sludge will be generated. These will be Will be disposed to CHWTSDF.	5.0	5.0

4	Environment Monitoring and Management	Post Project Environmental Monitoring: Ambient Air Quality, Stack Emission, Noise, Effluent Quality, Work Zone Monitoring.	5.0	8.0
5	Green Belt Development	Green Belt will be developed in 1802.87 m2 area (33% of the Total Plot Area). 289 Nos. of Trees will be Planted along the boundary of the Project Site.	1.0	1.0

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
HSD	Liquid	Fuel Storage within Plant Premises	1100 Ltrs.	1100 Ltrs	31680 Ltrs.	Local Market	Sealed MS Drums and through Closed Containers

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:	60 M2
	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:	Steel Body Covered 4 Wheelers will be provided for the transportation of Bio-medical Waste from source to the project site. At a time about 2 - 3 Two Wheelers and about 1 - 2 Four Wheelers can parked within the plant premises.
	Public Transport:	NA
	Width of all Internal roads (m):	7.0 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Boundary of Nagzira Wildlife Sanctuary is about 1.36 Km away from the Project Site towards NE
	Category as per schedule of EIA Notification sheet	7 (da) B
	Court cases pending if any	NA
	Other Relevant Informations	No
	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 7d(a)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

DECISION OF SEAC

During deliberations it was observd that, PP has not submitted site selection approval from prescribed Authority and stake holders as mentioned in the Bio Medical Management Rules published on 28.03.2016.

In view of above SEAC decided to defer the proposal till PP submit above documents.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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