159th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 159th (A) - Day-1 **Meeting Date** February 1, 2019

Subject: Environment Clearance for Environmental Clearance for M/s. N. N. Global Mercantile Pvt. Ltd. at Survey no. 131/1 (Part) & 131/2 (Part), Muthara Village, Taluka - Rajura, District - Chandrapur, Maharashtra

Is a Violation Case: No

1.Name of Project	PROPOSED EXPANSION AND MODERNIZATION TO 0.96 MTPA WET DE-SHALING PLANT
2.Type of institution	Private
3.Name of Project Proponent	Shri Inish Pal Singh Bhatia and Mr. Ravinder Pal Singh Bhatia
4.Name of Consultant	Green Circle, Inc. and Mantras Green Resources Ltd.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Proposed Expansion & Modernization Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environmental Clearance was not required, CTE was obtained on dated 10.10.2014 Consent no. : MPCB/14/09396 & CTO was obtained on dated 16.02.2016 Consent no. MPCB/16/02297/ROC/218/2016.
8.Location of the project	Survey no. 131/1 (Part) & 131/2 (Part), Muthara Village, Taluka - Rajura, District - Chandrapur, Maharashtra
9.Taluka	Rajura
10.Village	Rajura
Correspondence Name:	Pasricha Building, Opp. Janta collage , Civil Line, Nagpur Road, Chandrapur - 442401
Room Number:	NA
Floor:	NA
Building Name:	NA
Road/Street Name:	Civil Line, Nagpur Road,
Locality:	Chandrapur
City:	Chandrapur
11.Area of the project	Other Area
12.IOD/IOA/Concession/Plan Approval Number	Not applicable
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area: 1273.75
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.)	16187.4 sq. m.
16.Deductions	Not applicable
17.Net Plot area	16187.4 sq. m.
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.): 1273.75
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)	8843.4
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not Applicable
21.Estimated cost of the project	12500000

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)	18 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7 m
29.Existing structure (s) if any	Existing industry (as per CTO)
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	Wet De-shaling Plant Capacity	0.5 MTPA	0.46 MTPA	0.96 MTPA

32.Total Water Requirement

Dry season:	**Source of water**	low height bund over nearby nallah, Storage pond for process water and existing tube wells for domestic use
	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**	low height bund over nearby nallah, Storage pond for process water and existing tube wells for domestic use
	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**
Industrial Process	-	-	200	-	-	200	-	-	0.0
Fresh water requirement	-	-	5.0	-	-	5.0	-	-	0.0
Domestic	-	-	0.5	-	-	0.1	-	-	0.4

Gardening	-	-	2.0	-	-	2.0	-	-	0.0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	18.00 to 450.54 m bgl
	Size and no of RWH tank(s) and Quantity:	Harvested water will be collected in bund for storage, which will be utilized in the plant
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 5 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 0.5 Lakhs
	Details of UGT tanks if any :	Harvested water will be collected in bund for storage, which will be utilized in the plant

35.Storm water drainage	**Natural water drainage pattern:**	Towards North
	Quantity of storm water:	0.148 m3/sec
	Size of SWD:	1.5 m x 1.5 m

Sewage and Waste water	**Sewage generation in KLD:**	0.4 KLD
	STP technology:	NA as it will be disposed off into Soak Pit.
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris, Waste concrete, metallic waste, plastics, broken bricks etc.
	Disposal of the construction waste debris:	Construction debris, Waste concrete and broken bricks will be utilized in low-land leveling, secondary concrete, below roads. Some quantity of Excavation soil will be use for back-filling and remaining will be hand over to authorized vendor.
Waste generation in the operation Phase:	**Dry waste:**	Stones & Shales
	Wet waste:	-
	Hazardous waste:	Used oil
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Stones will be used for paving of the surrounding area and for making of approach road and Shales will be disposed off by selling it to the owners of brick Kilns
	Wet waste:	-
	Hazardous waste:	will be sold off to authorized re-processor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	NA
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Phenolic Compound	mg/l	<0.001	<0.001	1.0

Amount of effluent generation (CMD):	0.4 KLD of Domestic effluent will be generated.
Capacity of the ETP:	NA
Amount of treated effluent recycled :	NA
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	NA
Disposal of the ETP sludge	NA

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used oil	5.1	Litres per annum	-	60	60	sold off to authorized re-processor

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 sets: 125 KVA	Diesel: 26.25 Litres/hr	1	7 m	0.2	100 °C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	-	26.25 Litres/hr for D.G set of 125 KVA	26.25 Litres/hr

41.Source of Fuel	Local Market
42.Mode of Transportation of fuel to site	Road Transport

43.Green Belt Development	**Total RG area :**	5344 sq. m. (Existing: 1584 sq.m. & Proposed: 3760 sq. m.)
	No of trees to be cut :	NA
	Number of trees to be planted :	150
	List of proposed native trees :	Neem, Nilgiri, Babool, Saras, Kachnar, Jamun, Ashok etc.
	Timeline for completion of plantation :	1 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	Acacia arabica	Babool	10	it is a medium sized, thorny, nearly evergreen tree that can reach a height of 20-25 m
2	Acacia catechu	Khaie	10	this tree is deciduous & has short hooked spines that reach up to the height of 9 to 12 m
3	Acocia leucophloea	Hiwar	10	The tree is harvested from the wild for a range of purposes, including edible seeds, useful timber, tannins and gum.
4	Adina Cordifolia	Haldu	10	Haldina cordifolia is a deciduous tree with a large crown; generaly growing from 18 - 30 metres tall. The plant is harvested from the wild for its useful timber.
5	Aegle marmelos	Bel	10	Bael or Aegle marmelos is a spiritual, religious and medicinal plant, native of India and Bangaladesh and spread throughout South East Asia. The fruit balances Kaph and Vata doshas, its roots improve digestion, leaves are good for pain, stem for heart and bel flower's for curing of diarrhea.
6	Albizia lebbeck	Saras	10	it is a very fast-growing deciduous tree with an open, large, spreading crown; it usually reaches a height of 15 - 20 metres, with exceptional specimens growing up to 30 metres.
7	Azadirachta indica	Neem	15	All parts of Neem tree used as anthelmintic, anti-fungal, anti-diabetic, antibacterial, antiviral, contraceptive and sedative. Neem tree is used in many medicinal treatment like skin diseases, healthy hair, improve liver function, detoxify the blood, Pest and disease control, fever reduction, dental treatments, cough, asthma, ulcers, piles, intestinal worms, urinary diseases etc.

8	Bauhinia malabarica	Amli	10	It treats oral disorders, helps to cure toothache, Aids in headache, treats hunch back, Aids in wounds, helps in bleeping piles, cures burning sensation.
9	Bouhinia purpurea	Kachnar	10	Bauhinia purpurea is an erect, evergreen shrub or tree with a very bushy crown; it can grow 7 - 10 metres tall.
10	Bouhinia Racemosa	Apta	10	it is a rare medicinal species of flowering shrub with religious significance.
11	Eucalyptus hybrida	Nilgiri	10	Tall evergreen tree with smooth and greyish bark, bark exfoliates in plates or strips.
12	Eugenia Jambolana	Jamun	10	Fruit, fodder, poles, timber, fuel,medicinal (flowers fruits)
13	Ficus religiosa	Peepal	10	Avenue trees, fuel, fodder
14	Saraca asoka	Ashok	15	Shady tree with red-yellow flowers.
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)	Existing facility will be utilized
	DG set as Power back-up during construction phase	Existing facility will be utilized
	During Operation phase (Connected load):	Electricity is already available at site; Enhanced requirement shall be obtained from MSEDCL and total Power requirement is 0.6 MW.
	During Operation phase (Demand load):	Electricity is already available at site; Enhanced requirement shall be obtained from MSEDCL and total Power requirement is 0.6 MW.
	Transformer:	-
	DG set as Power back-up during operation phase:	D. G sets: 125 KVA (For Emergency use only)
	Fuel used:	Diesel will be used in D.G set. (Quantity: 26.25 Litres/hr)
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

1. The proposed project will provide enough day light factors in the building to permit maximum day light to interior to minimize overall energy consump
2. Focusing on the high performance energy efficient U & R values can bring down the building energy consumption i.e. the operational cost for the any commercial buildings.
3. To the extent possible and technically feasible, energy efficient equipment will be selected.
4. Maximize the use of natural lighting through design
5. Gravity flow will be preferred wherever possible to save pumping energy.
6. Proper temperature controls will be provided to reduce load on heating systems

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air Emission	-	• Water shall be sprayed on the coal during the unloading of trucks to prevent fugitive dust emission. • All screens shall be provided with top hood to arrest any fine dust generated during the screening operation. • All transfer points of the belt conveyors shall be provided with water mist sprays to prevent formation of dust. • Prior to the crusher, atomized water spray nozzles shall be installed so as not to allow any generation of dust during the crushing. • Enclose chutes shall be used
Water	-	The wet de-shaling process will be operated in closed water circuit hence there is no process effluent generation from the proposed project. It is proposed to use Powdered Coal (-200 Micron) as the washing Media. The media will be recollected from below the de-watering screens and taken to a conical vessel. Since the screens are fitted with showers for washing off the Media, the collected media would be diluted, so to maintain the required gravity in the system, fresh Media will be added from an
Solid/ Hazardous waste	-	• The solid wastes generated during the course of operation are mostly shale and small quantity of stones associated with the mining operation. • The stones having no calorific value will be used for paving of the surrounding area and for making of approach road. • The shale which has low calorific value is a good fuel for brick kilns and will be disposed-off by selling it to the owners of brick Kilns.

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust suppression	Water sprinkling, dust mask	0.5
2	Green Belt development	Tree plantation	2.0
3	Solid waste management facility	Solid waste collection and disposal facility	0.5

4	Environment Monitoring	Monitoring charges of Air, water, noise	0.5
5	Occupational Health	Health check-up, PPEs	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	Rain Water Harvesting	Rain Water Harvesting	1.0	0.25
2	Air Pollution Control	Pollution control measures	5.0	0.5
3	Water Pollution Control	Pollution control measures	10.0	1.0
4	Noise Pollution Control	Pollution control measures	0.5	0.5
5	Environment Monitoring and Management	Environment Monitoring and Management	-	0.5
6	Health & safety	Occupational Health & Safety	1.5	0.5
7	Green Belt	Green belt development	2.0	0.5
8	Solid /Hazardous waste	Solid waste management	0.5	0.25
9	CSR Activity	-	2.0	-

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
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:	One No.

Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	806 sq. m.
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	-
	Public Transport:	1 Km away from the plant boundary
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	Category "B"
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	18-02-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 2(a)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 in 131st meeting of SEAC-1 where in ToR was granted with few additional points. A site visit was conducted on 09.06.2016 by the committee.

Now PP submitted the EIA/EMP reprot for appraisal.

The proposal was considered in the 146th meeting of SEAC-1 held on 30.01.2018 wherein the proposal was defrred.

DECISION OF SEAC

During deliberations with the PP and his accrediated consultant it was observed that PP neither complied with the ToR points nor having correct / adequate information regarding the project.

In view of inadequate compliance and information provided by the PP, SEAC decided to defer the proposal till PP submits adequate and correct information.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

159th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 159th (A) - Day-1 **Meeting Date** February 1, 2019

Subject: Environment Clearance for Environment Clearance of the Proposed 8500 MT/M of Ketene, Diketene & its derivatives production plant at Plot no 60 & 60/1 MIDC Lote Parshuram, Khed, Ratnagiri by M/s Laxmi Organic Industries Ltd.

Is a Violation Case: No

1.Name of Project	Proposed 8500 MT/M of Ketene, Diketene & its derivatives production plant at Plot no 60 & 60/1 MIDC Lote Parshuram, Khed, Ratnagiri by M/s Laxmi Organic Industries Ltd.
2.Type of institution	Private
3.Name of Project Proponent	M/s Laxmi Organic Industries Ltd.
4.Name of Consultant	Enviro Analysts and Engineers Pvt. Ltd.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Plot no 60 & 60/1 MIDC Lote Parshuram, Khed, Ratnagiri , Maharashtra
9.Taluka	Khed
10.Village	Lote
Correspondence Name:	M/s. Laxmi Organic Industries Limited
Room Number:	3rd floor
Floor:	Third Floor
Building Name:	Chandermukhi
Road/Street Name:	nariman point
Locality:	Nariman Point
City:	Mumbai
11.Area of the project	MIDC Lote Parshuram
12.IOD/IOA/Concession/Plan Approval Number	MIDC Layout Approval
	IOD/IOA/Concession/Plan Approval Number: In process
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	104767 sqm
16.Deductions	0
17.Net Plot area	104767 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 38524
	b) Non FSI area (sq. m.): 715
	c) Total BUA area (sq. m.): 39239
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)	33762
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	32.22
21.Estimated cost of the project	4430000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Diketene Plant	G+4	27
2	Intermediate Plant	G+3	22
3	Diketene Plant Control room & MCC Room	G+2	17
4	INT Control room & MCC Room	G+2	17
5	Co-gen Power Plant	G+3	22
6	Producer gas Plant	G+3	22
7	Administration Block	G+2	15
8	GMP Plant	G+2	17
9	Effluent Treatment Plant (ETP)	Ground	7
10	Tank Farm (TF)1	Ground	7
11	TF2	Ground	7
12	TF3	Ground	7
13	Unloading Area	Ground	7
14	INT. Storage TF7	Ground	7
15	INT. Storage TF6	Ground	7
16	INT. Storage TF5	Ground	7
17	INT Storage TF4	Ground	7
18	Day Tank TF8	Ground	7
19	Day Tank TF9	Ground	7
20	CS2 Storage	Ground	7
21	Day Tank TF10	Ground	7
22	Chlorine and Ammonia Cylinder Storage	Ground	7
23	Warehouse	Ground	7
24	Semi Finish Warehouse	Ground	7
25	Furnace	Ground	7
26	Dimeriser	Ground	7
27	MCBrine	Ground	7
28	MCC Control room	Ground	7
29	Utility	Ground	7
30	Cooling Tower	Ground	7
31	Raw Water tank	Ground	7
32	Transformer room	Ground	7
33	Substation room	Ground	7
34	Stores	Ground	7
35	Coal Handling Plant	Ground	7
36	Coal Yard	Ground	7
37	Admin Building	Ground	7
38	Medical Room/Toilet blocks	Ground	7
39	INT. Utility	Ground	7
40	Hydrogenation Storage Area	Ground	7
41	Nitrogen storage plus PSA unit	Ground	7

42	Nitrogen storage plus PSA unit	Ground	7
43	Nitrogen storage plus PSA unit	Ground	7
44	Nitrogen storage plus PSA unit	Ground	7

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)	30 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	min. 7.5 m
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Monomethyl Acetoacetamide(MMAAA)	0	1000	1000
2	DIMETHYL ACETOACETAMIDE (DMAAA)/Di-Ethyl Acetoacetamide(DEAAA)	0	200	200
3	Oxamyl Oxime	0	50	50
4	Methyl Acetoacet Ester(MAAE)	0	850	850
5	Tertiary Butyal Acetoacet Ester(TBAAE) OR 2 –(Acetoacetoxy) Ethyl Methacrylate(AAEMA) and Ethyl Acetoacet Ester(EAAE)	0	150	150
6	Methyl 3-Amino Crotonate(M3AC)	0	50	50
7	2-Cyano Ethyl Acetoacet Ester(CEAAE)	0	20	20
8	Iso Propyl Acetoacet Ester(IPAA) OR Iso Butyl Acetoacet Ester(IBAA) OR Methoxy Ethyl Acetoacetate(MEAA) OR Cinnamyl Acetoacetate Ester(CAAE) OR Aceto Acet Allyl Ester(AAAE)	0	5	5

9	ACETOACETANILIDE(AAA) OR Acetoacet-m-xylidide (AAMX)	0	550	550
10	ACETOACET O ANISIDIDE (AAOA) OR ACETOACET O Toulidine (AAOT)	0	50	50
11	ACETOACET-O-CHLOROANILIDE (AAOCA) OR N-Acetoacetylsulfanilate potassium (AASp) and ACETOACET P ANISIDIDE(AAPA),	0	20	20
12	ACETOACET PARA CHLORO ORTHO ANISIDIDE (AAPCOA)OR CHLORO-DAEP OR 7 – ACETOACETOXY – 6 METHOXY – 2,3 – DIONE (C-dione)OR Anarso OR AMQD OR Naphthol AS G OR Acetoacet-2-Ethyl Hexyl Amide (ACAD) OR Lercandipine	0	5	5
13	Napthol AS IRG	0	200	200
14	5-Acetoacetyl benzimidazolone(5 AABI)	0	50	50
15	Diketene	0	1500	1500
16	Isopropenyl Acetate(IPNA)	0	100	100
17	Acetyl acetone (ACAC)	0	400	400
18	Calcium acetyl acetone	0	100	100
19	Propionic Anhyride	0	200	200
20	N- acetyl para amino phenol (paracetamol).	0	200	200
21	Trifluoromethyl acetophenone (TFMAP) OR Ethyl trifluroroacetoacetate (ETFAAE)	0	100	100
22	AAH	0	2000	2000
23	Ethyl 4 – Chloro Aceto Acetate(E4CAA)	0	100	100
24	MICA OR MAEM	0	100	100
25	Acesulphame K	0	100	100
26	2-isopropyl,4- methyl,6-hydroxypyrimidines (HOP)	0	50	50
27	1-Tolyl-3- methyl - 5-pyrazolone (p-TMP)	0	50	50
28	Cysteamine HCl	0	200	200
29	Methomyl oxime	0	100	100
30	Co-gen Power Plant	0	3MW	3MW

32.Total Water Requirement

Dry season:	**Source of water**	MIDC/ETP Treated Water
	Fresh water (CMD):	2036
	Recycled water - Flushing (CMD):	896 (Recycle Cooling tower and Process)
	Recycled water - Gardening (CMD):	157
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	3089
	Fire fighting - Underground water tank(CMD):	1000
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	500
Wet season:	**Source of water**	MIDC/ETP Treated Water
	Fresh water (CMD):	2036
	Recycled water - Flushing (CMD):	896 (Recycle cooling tower and Process)
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	2932
	Fire fighting - Underground water tank(CMD):	1000
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	656
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	40	40	0	8	8	0	32	32
Industrial Process	0	1322	1322	0	0	0	0	1502	1502
Cooling tower & thermopack	0	1469	1469	0	1246	1246	0	223	223

Cooling tower & thermopack	0	100	100	0	1	1	0	99	99
Gardening	0	157	157	0	157	157	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2-3.1 m
	Size and no of RWH tank(s) and Quantity:	247 KLD (1 Nos)
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	0
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	20 Lakhs
	Budgetary allocation (O & M cost) :	1 Lakhs
	Details of UGT tanks if any :	MIDC Water Storage Tank, Fire Fighting water storage tank
35.Storm water drainage	**Natural water drainage pattern:**	North to South
	Quantity of storm water:	4.1 m3/sec
	Size of SWD:	0.9 m x0.9 m
Sewage and Waste water	**Sewage generation in KLD:**	32
	STP technology:	Will be treated in ETP along with other effluent
	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:**	Approx. 19072 nos. of empty cement bags, 6.35 MT of steel scrap, 12.7 MT of aggregate waste, 1590 sq.m of broken tiles and 954 nos of Empty paint cans will be generated
	Disposal of the construction waste debris:	Cement bags, steel scrap and paint cans will be sold to recycler whereas aggregates and broken tiles will be reused within site for internal road levelling and terrace china mosaic.
Waste generation in the operation Phase:	**Dry waste:**	11 kg/d
	Wet waste:	27 kg/d
	Hazardous waste:	ETP sludge- Schedule I, Cat. 34.3= 5 T/month
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	Process waste sludge- Schedule I, Cat. 26.1= 20 T/month

Mode of Disposal of waste:	**Dry waste:**	Handed over to Authorized recyclers
	Wet waste:	Composting
	Hazardous waste:	Send to CHWTSDF
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	Send to CHWTSDF
Area requirement:	**Location(s):**	Near ETP
	Area for the storage of waste & other material:	20 Sq. M
	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	-	3-5	6.5-7.5	6.5-7.5
2	COD	mg/l	20000	<250	250
3	BOD	mg/l	8750	70	100
4	TSS	mg/l	200	100	100
5	TDS	mg/l	8700	1800	2100
6	O&G	mg/l	22	5	10
7	Ammonical Nitrogen	mg/l	30	30	<50

Amount of effluent generation (CMD):	1724 KLD
Capacity of the ETP:	2000 KLD
Amount of treated effluent recycled :	1052 during non monsoon and 896 During Monsoon
Amount of water send to the CETP:	500 During Non Monsoon and 656 During Monsoon
Membership of CETP (if require):	IN process
Note on ETP technology to be used	The Effluent arising during process will be collected in equalization tank. Effluent from equalization tank sent to neutralization tanks where caustic slurry added to neutralize the effluent. Effluent from main neutralization tank will be sent to primary settling tank. The main objective of primary settling tank is solid liquid separation. Solids will be settled at the bottom of the tank and clear waste water then goes to UASB feed tank where Condensate collected from MEE (Multi Effect Evaporati
Disposal of the ETP sludge	ETP sludge- Schedule I, Cat. 34.3= 5 T/month will be send to CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP sludge	34.3	T/Month	0	5	5	send to CHWTSDF
2	Process waste Sludge	26.1	T/Month	0	20	20	send to CHWTSDF

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Attached to boiler 1(operating)	Coal 5300 kg/hr.	1	51	1.3	140oC
2	Attached to boiler 2 (Operating)	Coal 1750 kg/hr.	1	36	0.75	140oC
3	Attached to boiler 3(operating)	Coal 1750 kg/hr.	1	36	0.75	140oC
4	Attached to Furnace-1 (operating)	1) Coal for producer gas 1250kg/hr. 2) C-9 221kg/hr. 3) Hydrolyzed Residue 200 kg/hr	1	34	1.2	140oC
5	Attached to Furnace-2 (operating)	1) Coal for producer gas 1250kg/hr. 2) C-9 221kg/hr. 3) Hydrolyzed Residue 200 kg/hr.	1	34	1.2	140oC
6	Attached to Furnace-3 (operating)	Coal for producer gas 1250kg/hr. /C-9 221kg/hr.	1	34	1.2	140oC
7	Common Caustic scrubber (operating)	-	1	30	0.6	35oC
8	Common Caustic scrubber (operating)	-	1	30	0.2	30oC
9	Water Scrubber	-	1	10	0.2	30oC
10	DG set 1050 KVA (stand by)	Diesel	1	30	0.25	160oC
11	DG set 1050 KVA (stand by)	Diesel	1	30	0.25	160oC

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	0	12550 kg/hr.	12550 kg/hr.
2	C-9	0	663 kg/hr.	663 kg/hr.
3	Residue	0	400 kg/hr.	400 kg/hr.
4	Diesel	0	210kg/hr.	210kg/hr.
41.Source of Fuel		Coal- Import (Indonesian Coal) Diesel & other –Authorized vendors		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	34325 sqm
	No of trees to be cut :	0
	Number of trees to be planted :	1300
	List of proposed native trees :	Anthocephalus cadamba Saraca Asoca Mimusops elengi Erythrina variegate Bauhinia racemose Mangifera indica Syzygium cumini Eucalyptus citriodora Zanthoxylum rhetsa Alstonia scholaris Pongamia pinnata Bombax ceiba
	Timeline for completion of plantation :	before operation of project

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	Anthocephalus cadamba	Kadamb	100	an evergreen, tropical tree
2	Saraca Asoca	Sita Ashok	100	an evergreen tree
3	Mimusops elengi	Bakul	100	an evergreen and medicinal tree
4	Erythrina variegate	Pangara	50	an ornamental tree
5	Bauhinia racemose	Apta	100	medicinal tree
6	Mangifera indica	Mango	100	fruit bearing tree
7	Syzygium cumini	Jambhul	100	fruit bearing tree
8	Eucalyptus citriodora	Nilgiri	150	evergreen and magnificent trees, pest resistance.
9	Zanthoxylum rhetsa	Triphala	100	medicinal tree
10	Alstonia scholaris	Satwin	100	medicinal tree
11	Pongamia pinnata	Karanj	150	fast-growing, medium-sized, evergreen or briefly deciduous tree
12	Bombax ceiba	Savar	150	tall deciduous 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 :**	MSEDCL/CPP
	During Construction Phase: (Demand Load)	500 KVA
	DG set as Power back-up during construction phase	500 KVA (1 DG Set)
	During Operation phase (Connected load):	20 MW
	During Operation phase (Demand load):	12.32 MW
	Transformer:	6 x 3 150 KVA
	DG set as Power back-up during operation phase:	2x1050KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar PV for Street Lightning (50KW)
Boiler Feed water heating by Solar (100 M3/Day from 30 0C to 70 0 C)

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV for Street Lightning (50KW)	0.4%
2	Boiler Feed water heating by Solar (100 M3/Day from 30 0C to 70 0 C)	5%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Process Effluent (High COD/TDS)/Domestic Waste leading to Water pollution	NA	1. Effluent treatment consisting UASB (Up flow anaerobic sludge blanket reactor) followed by aerobic treatments (primary, secondary &tertiary treatment) for High COD effluent and Multi Effect Evaporator for High TDS effluent treatment. 2. RO (Reverse osmosis) treatment for Cooling tower and Boiler water blowdown. 3. The total waste water generated will be treated and recycled to the maximum extent and only the present consented quantity shall be sent to CETP
Vent gases/flue gases from Process plant, furnace, Boiler stack	NA	1. Two no's common caustic Scrubber system for acidic vents, 1 no. water scrubber for water soluble vents (ammonia, HCL etc.) which followed by caustic common scrubber. 2. Stack at sufficient height for furnace, boiler flue gases maintaining Sox, NOx norms of MPCB., ESP at Boiler to control dust in flue gases to 50mg/Nm3 3. DG exhaust will be discharged at stipulated height by providing adequate stack height to the DG sets. 4.Coal dust will be controlled by providing fogging and bag filters

From explosions, spillages, fires etc. from storage, handling, use or production of hazardous substances	NA	1. To avoid accidental spillage from storage tanks. Spillage barrier wells are provided. Specific areas earmarked for storage of hazardous waste. 2. The Fire-fighting system compatible to arrest the fire hazards. 3. Risk assessment and disaster management plan shall be prepared. Formation of Safety Department under Safety Officer to take care of Occupation, Hazard & Hygiene.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	140 Lakhs
	O & M cost:	7 Lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust Generation (Air Pollution)	Dust Suppression through Water Sprinkling (SPM)	24
2	Health, safety & first aid facility	Health, safety & first aid facility	15
3	Sanitary facility and waste water management	Sanitary facility and waste water management	20
4	Environmental Monitoring (Noise, Water & Soil-Project site (4 times a year)	Environmental Monitoring (Noise, Water & Soil-Project site (4 times a year)	20

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	Stack, pollution control equipment (scrubber),ESP at Boiler to control dust in flue gases to 50mg/Nm3	215	20
2	Water	ETP	2000	200
3	Soil	Landscape/green belt development	20	0.5
4	Noise	Acoustic Insulation	10	1
5	Energy	Energy conservation/ solar PV cost etc.	140	7

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Acetic Acid	NA	TF1	1000	800	3087.5	Imported	Tanker
Acetic Acid	NA	TF1	1000	800	3087.5	Imported	Tanker
Methyl aceto acetate	NA	TF2	300	240	850	FG-Export/Local	Tanker/Drums

Monomethyl aceto acetamide	NA	TF2	300	240	1000	FG-Export/Local	Tanker
Acetic Anhyride	NA	TF3	300	240	1000	FG-Export/Local	Tanker/Drums
Acetic Anhyride	NA	TF3	300	240	1000	FG-Export/Local	Tanker/Drums
Crude Methyl aceto acetate	NA	TF3	300	240	1000	Intermediate	NA
Spare	NA	TF3	300	240	NA	Intermediate	NA
ETFAAE	NA	TF4	50	40	100	FG-Export/Local	Drums
Ethyl acetoacetate ester(EAAE)	NA	TF4	50	40	150	FG-Export/Local	Drums
E4CAA	NA	TF4	50	40	100	FG-Export/Local	Drums
DMAAA	NA	TF4	50	40	200	FG-Export/Local	Drums
AAEMA	NA	TF4	50	40	150	FG-Export/Local	Drums
Spare	NA	TF4	50	40	NA	Intermediate	NA
MICA	NA	TF4	50	40	100	FG-Export/Local	Drums
MAEM	NA	TF4	50	40	100	FG-Export/Local	Drums
Nitric Acid	NA	TF5	50	40	21.9	RM-Local	Tanker
Iso butric Acid	NA	TF5	50	40	29.7	RM-Local	Drums
Sulphuric Acid	NA	TF5	50	40	172	RM-Local	Tanker
Sodium Methyl Mercaptain	NA	TF5	50	40	556.5	RM-Local	Tanker
Bromine	NA	TF5	50	40	26	RM-Local	Tanker
Caustic	NA	TF5	50	40	380	RM-Local	Tanker
M-Xylidine	NA	TF6	50	40	341.6	RM-Import	Drums
O-Anisidine	NA	TF6	50	40	31.1	RM-Import	Drums
DMA	NA	TF6	50	40	94.6	RM-Local	Tanker
Hydroxyethyl)methacrylate	NA	TF6	50	40	93.8	RM-Import	Drums
Methylene Dichloride	NA	TF6	50	40	2330	RM-Local	Tanker
O-Toulidine	NA	TF6	50	40	33.2	RM-Import	Drums
AcAc	NA	TF7	100	80	200	FG-Export/Local	Drums
IPNA	NA	TF7	100	80	100	FG-Export/Local	Drums
TFMAP	NA	TF7	50	40	100	FG-Export/Local	Drums
Propionic Anhyddride	NA	TF7	50	40	200	FG-Export/Local	Drums
Triethyl Phosphate	NA	TF8	50	40	112.3	RM-Import	Drums
Diketene	NA	TF8	20	16	750	Intermediate	NA
Diket ene	NA	TF8	20	16	750	Intermediate	NA
Residue	NA	TF8	20	16	189	Intermediate	NA
Dil Acetic Acid	NA	TF9	100	80	3043	Intermediate	NA
Recovered Acetic Acid	NA	TF9	100	80	1208	Intermediate	NA
Acetone	NA	TF10	300	240	643.7	RM-Local/Import	Tanker
Methanol	NA	TF10	200	160	521	RM-Local	Tanker
C-9	NA	TF10	100	80	425	Fuel-Local	Tanker
N2 2 tanks	NA	TF10	10	8	500	RM-Local	Tanker
Ethanol	NA	TF10	50	40	125.85	RM-Local	Tanker
Cyclo-Hexane	NA	TF10	30	24	54.2	RM-Local/Import	Drums
Toluene	NA	TF10	30	24	72	RM-Local/Import	Drums
Carbon Disulfide	NA	TF10	20	16	141	RM-Local/Import	Drums

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:**	0
	Number and area of podia:	0
	Total Parking area:	12244 sq.m
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	More than 10 km
	Category as per schedule of EIA Notification sheet	5(f)
	Court cases pending if any	NO
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	05-12-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable
Water Budget	Not Applicable
Waste Water Treatment	Not Applicable
Drainage pattern of the project	Not Applicable

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

Brief information of the project by SEAC

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

DECISION OF SEAC

During deliberations it was noticed that, PP proposes to manufacture the intermediates which are used in the manufacturing of pesticides also.

The schedule attached to the EIA Notification, 2006 under item 5(b) stipualtes the manufacturing of pesticide and pesticide specific intermediates (excluding formulations) and all such units fall in category "A" which needs to be appraised by EAC, MoEF&CC, New Delhi.

In view of above, SEAC is of the opinion that, the proposed project is covered under category "A" and PP may apply to the EAC, MoEF&CC for obtaining prior Environment Clearance.

Hence, SEAC-1 decided to refer the proposal to the SEIAA for the confirmation of above view.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.

159th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 159th (A) - Day-1 **Meeting Date** February 1, 2019

Subject: Environment Clearance for Application for TOR for, Expansion/ Modernization of sugar factory capacity from 7500 TCD (313 TCH) to 10000 TCD (417 TCH).

Is a Violation Case: No

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

1.Name of Project	Expansion/ Modernization of sugar factory capacity from 7500 TCD (313 TCH) to 10000 TCD (417 TCH).
2.Type of institution	Private
3.Name of Project Proponent	Sahakar Maharshi Shankarrao Mohite Patil Sahakari Sakhar Karkhana Limited, Shankarnagar, Taluka: Malshiras, District: Solapur.
4.Name of Consultant	Dr. B. Subba Rao
5.Type of project	Others
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project/ Modernization.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, J-11011/ 297/ 2007- IA II (I).
8.Location of the project	13/1, 13/2, 28, 29, 30, 69/1/B, 70, 71/1, 71/2, 72/1, 73, 74, 80/3/A, 80/4, 80/5, 80/6/A, 80/9/A, 80/12, 80/13, 81/1, 81/2/A, 81/2/B, 81/3, 81/4, 81/5, 83/2/B, 93/2/A, 93/2/2 (partially), 94, 80/3/B, 82/2/B, 65/1B/2A, 66/2B.
9.Taluka	Malshiras
10.Village	Shankarnagar, Akluj.
11.Area of the project	OTHER AREA
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 70278
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.)	444150 sqm..
16.Deductions	70278
17.Net Plot area	373872
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 70278
	b) Non FSI area (sq. m.): 373872
	c) Total BUA area (sq. m.): 444150
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)	373872
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	0.8417
21.Estimated cost of the project	100000000

22.Number of buildings & its configuration

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

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

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	SUGAR	31200	6240	37440
2	REFINED SUGAR	7500	1500	9000
3	MOLASSES	9600	1920	11520
4	BAGASSE	70000	14000	84000
5	PRESSMUD	9600	1920	11520

32.Total Water Requirement

Dry season:	**Source of water**	Nira Right-bank Canal
	Fresh water (CMD):	2801
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	2801
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	1500 m3/day
Wet season:	**Source of water**	NA
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	NA
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	220	0	220	44	0	44	176	0	176
Industrial Process	1981	0	1981	1050	0	1050	931	0	931

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10
	Size and no of RWH tank(s) and Quantity:	2 tanks-25m X 40m X 2.5m = 5000 cum.
	Location of the RWH tank(s):	Near E.T.P.
	Quantity of recharge pits:	0
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	6,00,000
	Budgetary allocation (O & M cost) :	65,000
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	Surface Runoffs
	Quantity of storm water:	22488.96 cum.
	Size of SWD:	(1 X 0.5 X 0.3) m
Sewage and Waste water	**Sewage generation in KLD:**	320
	STP technology:	Septic Tank Followed by Anaerobic filters
	Capacity of STP (CMD):	10- 900 cum.
	Location & area of the STP:	individual STP at housing colony
	Budgetary allocation (Capital cost):	10 lakh
	Budgetary allocation (O & M cost):	50,000 per annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 MT
	Disposal of the construction waste debris:	Filling low lying area and for construction of road work
Waste generation in the operation Phase:	**Dry waste:**	Refuse- 1 MT/ year, pressmud 10000 MT/month
	Wet waste:	Garbage- 3 MT/month
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	24 MT/year
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Refuse- recycling, Pressmud- Composting
	Wet waste:	Composting
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Manure
	Others if any:	NA
Area requirement:	**Location(s):**	Shankarnagar, Akluj
	Area for the storage of waste & other material:	20000 sqm.
	Area for machinery:	45883 sqm.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	8,00,00,000
	O & M cost:	1,00,00,000 per annum.

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	NA	6.5-7	7.5	5.5-9
2	BOD	mg/l	800	23.25	<100
3	COD	mg/l	2000	58.125	<250
4	TSS	mg/l	400-500	14.53	<100

Amount of effluent generation (CMD):	Process effluent-750 CMD, Excess condensate-1500 CMD
Capacity of the ETP:	Process effluent-1000 CMD, Excess condensate- 1500 CMD
Amount of treated effluent recycled :	1500 CMD
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	preliminary treatment (Oil & Grease trap, flow meter), Equalization tank, Anaerobic Filter, Aeration tank, Secondary Clarifier, Sludge drying beds and 15 days treated storage tank for no demand period.
Disposal of the ETP sludge	As a manure after sludge drying

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Oil	5 (1)	MT/Month	0.1	0	0.1	Mixed with bagasse and burnt in the boiler

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	during season	BAGASSE- 86400 MT/month	I	80	4	112 deg C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total

1	BAGASSE	64800 MT/month	21600 MT/month	86400 MT/month
41.Source of Fuel		BAGASSE FROM SUGARCANE CRUSHING IN FACTORY		
42.Mode of Transportation of fuel to site		BY CONVEYOR BELT- SUGAR FACTORY TO CO-GEN BOILER		

43.Green Belt Development	**Total RG area :**	131900 sqm
	No of trees to be cut :	NA
	Number of trees to be planted :	26000
	List of proposed native trees :	Aamba, Babhul, Chafa, Badam, Ashoka, Bahava, Chinch, Bamboo, Chandan and Chiku etc.
	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	EUCALYPTUS OBLIQUA	GALI (VARIETY OF EUCALYPTUS))	10000	POLLUTION ABSORBING PLANTS
2	AZADIRACHTA INDICA	NEAM	2500	POLLUTION ABSORBING PLANTS
3	TAMRINDAS INDICA	TAMRIND	4500	POLLUTION ABSORBING PLANTS
4	JATROPHA INTEGERRIMA	JITAROPA	800	POLLUTION ABSORBING PLANTS
5	COCUS NUCIFERA L	COCUNUT	3500	POLLUTION ABSORBING PLANTS
6	ARTOCARPUS HETEROPHYLLUS	JACK FRUIT PLANT	2000	POLLUTION ABSORBING PLANTS
7	TECHTONA GRANDIS	TEAK	2700	POLLUTION ABSORBING PLANTS
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	Besharmi	1	20
2	Bor	1	20
3	Dhotara	0.5	20
4	Earand	1	20
5	Ghaneri	0.5	20
6	Kanheri	0.5	20

47.Energy

Power requirement:	**Source of power supply :**	Own generation
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	16 MW
	During Operation phase (Demand load):	10 MW
	Transformer:	1) 3150 kVA - 5, 2) 4000 kVA- 2, 3) 3500- 2 and 4) 2500 kVA
	DG set as Power back-up during operation phase:	NA
	Fuel used:	Bagasse- 2970 MT/day
	Details of high tension line passing through the plot if any:	132 kVA

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
Process efffluent	Anaerobic followed by aerobic	NA
Condensate treatment	Cooling tower followed by aeration	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	Fugitive emissions	Particulate matter	6

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Pollutant	Solid and liquid effluent and gaseous emission	300	50

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:	3
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	53298 sqm.
	Area per car:	10 sqm.
	Area per car:	10 sqm.
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	Trucks and bullockcarts
	Width of all Internal roads (m):	20
	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
	Court cases pending if any	NA
	Other Relevant Informations	NA

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	16-02-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time.As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposed full fledged effluent treatment plant. PP to ensure that no untreated liquid waste is discharged out side the factory premises.
Drainage pattern of the project	PP considered the contour levels while designing of the storm water drains.
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits at project site.
Solid Waste Management	PP committed to dispose the hazardous waste byway of using spent oil in the boiler.Details are given at Sr. No. 38 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for proposed project is 10MW. PP to provide solar energy for street lights and office buildings.
Traffic circulation system and risk assessment	PP proposes to provide 53298 Sq.m. parking aera along with 20 m wide internal roads.
Landscape Plan	PP proposes to provide 33% green belt.
Disaster management system and risk assessment	PP carried out Risk Assessment and proposes mitigation measures for the identified risks.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP prepared EMP cost of Rs.300.00 Lakh as capital cost and Rs. 50 Lakh as O & M cost to maintain environmental parameters.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(j)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 in 139th meeting of SEAC where in ToR was granted.

The Public Hearing report submitted by the PP.

The proposal was considered in the 153rd meeting of SEAC-1 held on 02.07.2018 wherein the proposal was deferred.

DECISION OF SEAC

After deliberations with the PP and their accredited consultatnt SEAC decided to recommend the proposal to SEIAA for the grant of prior Enviornment Clearence subject to the following conditions.

Specific Conditions by SEAC:

1) PP to prepare and implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.
2) PP to bring 100% sugarcane area under drip irrigation phasewise and also to undertake effective steps to increase per hector productivity of sugarcane instead of bringing additional aera under sugarcane cultivation so as to meet proposed crushing requirement.
3) PP to include water and carbon foot print in the moitoring of EMP.
4) PP to use new and renewable energy for the illumination of office buidligns and stret lights.

FINAL RECOMMENDATION

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

Subject: Environment Clearance for EXPANSTION OF SYNTHETIC RESINS CAPACITY FROM 5100 MT/A (100% SOLIDS) i.e. 6375 MT/A AS IT IS IN SOLUTION FORM TO 30000 MT/A (100 % SOLIDS) i.e. 37500 MT/A AS IT IS IN SOLUTION FORM

Is a Violation Case: No

1.Name of Project	RESINS AND PLASTICS LTD.
2.Type of institution	Private
3.Name of Project Proponent	RUPEN A. CHOKSI
4.Name of Consultant	MANTRAS GREEN RESOURCES LTD.
5.Type of project	INDUSTRIAL ESTATE
6.New project/expansion in existing project/modernization/diversification in existing project	EXPANSTION IN EXISTING PROJECT
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NO
8.Location of the project	PLOT NO. 3-A, TALOJA INDUSTRIAL ESTATE OF MIDC , DISTRICT - RAIGAD, PIN - 410208
9.Taluka	PANVEL
10.Village	MIDC TALOJA
Correspondence Name:	SHRI RUPEN A. CHOKSI
Room Number:	PLOT NO. 3-A, TALOJA INDUSTRIAL ESTATE OF MIDC ,
Floor:	NA
Building Name:	RESINS AND PLASTICS LTD
Road/Street Name:	NA
Locality:	TALUKA - PANVEL, DISTRICT - RAIGAD, PIN - 410208, NAVI MUMBAI.
City:	PANVEL
11.Area of the project	MIDC TALOJA
12.IOD/IOA/Concession/Plan Approval Number	MIDC LAYOUT
	IOD/IOA/Concession/Plan Approval Number: DE/TLJ/SPA NO C92420 DATED 08/09/2016
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	18166.55 SQM
16.Deductions	4576.74 SQM
17.Net Plot area	13589.81 SQM
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 4854.321 SQM
	b) Non FSI area (sq. m.): 8735.48 SQM
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	2605.503 SQM
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.20
21.Estimated cost of the project	105000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	RESIN SHED	G + 3	22.4
2	GODOWN	GROUND FLOOR	6
3	LABORATORY BUILDING	G + 1	9
4	DG SET ROOM	GROUND FLOOR	6
5	R & D SHED	G +1	8.5
6	SOLVENT GODOWN	GROUND FLOOR	6
7	ETP LAB	GROUND FLOOR	2.5
8	PUMP ROOM - 1	GROUND FLOOR	2.5
9	PUMP ROOM - 2	GROUND FLOOR	2.5
10	WATCHMAN CABIN	GROUND FLOOR	2.5

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 METER
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	TURNING RADIUS PROVIDED 6 METERS
29.Existing structure (s) if any	RESIN SHED, GODOWN, LABORATORY BUILDING, R & D SHED, SOLVENT GODOWN, WATCHMAN CABIN ETC.
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	SYNTHETIC RESINS	425 (100% Solids) i.e. 531.25 as it is in solution form	2075 (100% Solids) i.e.2593.75 as it is in Solution form	2500 (100% Solids) i.e. 3125 as it is in Solution form

32.Total Water Requirement

Dry season:	**Source of water**	MIDC TALOJA
	Fresh water (CMD):	96.4
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	45.1
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	141.5
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	NA
Wet season:	**Source of water**	MIDC TALOJA
	Fresh water (CMD):	96.4
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	45.1
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	141.5
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	NA
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**
Industrial Process	16	19	35	2.2	2.5	4.7	16.7	19.3	36
Domestic	8.5	2.5	11	1.5	0.5	2	7	2	9
Cooling tower & thermopack	13.5	60	73.5	13	58	71	0.5	2	2.5
Gardening	10	12	22	10	12	22	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1 M
	Size and no of RWH tank(s) and Quantity:	NIL AS GROUND WATER TABLE LEVEL IS LESS THAN ONE METER.
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	WATER TABLE LEVE IN OUR AREA IS LESS THAN ONE METER HENCE RECHARGE PITS NOT FEASIBLE
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	SR.No Tank No. ST-6 (Old UG-2) ST-5 (Old UG-1) 1 Type of Tank Horizontal Cylindrical Flat Ends Horizontal Cylindrical Flat Ends 2 Material of Construction M.S. M.S. 3 Avg.Internal Dia. 289.5 cm 232.4 cm 4 Internal length 1036.3 cm 609.6 cm 5 Safe Filling Height 265 cm 215 cm 6 Capacity 68007 liters 25863 liters 7 Liquid/Contents MTO Slop oil
35.Storm water drainage	**Natural water drainage pattern:**	BY STORM WATER DRAINAGE
	Quantity of storm water:	0.450 MTR X 0.525 MTR X 1 MTR = 236.25 LTRS PER RUNNING MTR TOTAL LENGTH OF SWD IS 565 MTRS (i.e. 133.48 CU. MTR)
	Size of SWD:	0.450 MTR X 0.525 MTR X 565 MTR
Sewage and Waste water	**Sewage generation in KLD:**	EXISTING 7 KLD AND PROPOSED 2 KLD TOTAL 9 KLD
	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:**	NA
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	1) 35.3- CHEMICAL SLUDGE : 30 MT/A 2} 35.4- OIL AND GREASE SKIMMING RESIDUES : 1 MT/A 3) 33.31-DISCARDED CONTAINERS / BARRELS / LINERS / BAGS : 1,54,840 NO'S./A 4] 23.1-PROCESS WASTE / RESIDUES : 50 MT/A
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	CHWTSDF
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	EFFLUENT TREATMENT PLANT
	Area for the storage of waste & other material:	40 SQM
	Area for machinery:	800 SQM
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	90 LAKHS
	O & M cost:	12 LAKHS / A

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	PH	-	3-9.0	6-8.5	5.5 TO 9
2	SUSPENDED SOLID	MG/L	100 - 150	60 - 90	100
3	BOD (3 DAYS 27C)	MG/L	800-1050	60 - 90	100
4	COD	MG/L	2000 - 2500	190 - 230	250
5	OIL & GREASE	MG/L	9 - 13	6 - 9	10

Amount of effluent generation (CMD):	47.5
Capacity of the ETP:	50
Amount of treated effluent recycled :	45.1
Amount of water send to the CETP:	0
Membership of CETP (if require):	YES
Note on ETP technology to be used	EFFLUENT SHALL BE TREATED IN THE IN HOUSE FULL FLEDGED EFFLUENT TREATMENT PLANT FOLLOWED BY ADVANCED RO SYSTEM WITH ME TREATMENT.
Disposal of the ETP sludge	CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	PROESS WASTE /RESIDUE	23.1	MT/A	26.4	23.6	50	CHWTSDF
2	CHEMICAL SLUDGE, OIL AND GREASE SKIMMING RESIDUES	35.3	MT/A	17.5	12.5	30	CHWTSDF
3	DISCARDED CONTAINERS / BARRELS / LINER S / BAGS	33.1	NO'S/A	54840	100000	1,54,840	SALE TO AUTHORISED PARTY
4	OIL & GREASE SKIMMING	35.4	MT/A	0.5	0.5	1	CHWTSDF

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	THERMOPACK NO. 4 OF CAPACITY - 10 LAKH KCAL/HR	FUEL - NATURAL GAS (PNG) , QUANTITY - 1500 SCM/DAY	1	24.0	430	170
2	THERMOPACK NO.6 (STANDBY) OF CAPACITY - 6 LAKH KCAL/HR	FUEL - FURNACE OIL, QUANTITY - 1.4 TON/DAY	2	24.0	430	200
3	THERMOPACK NO .7 OF CAPACITY - 10 LAKH KCAL/HR	FUEL - NATURAL GAS (PNG) , QUANTITY - 1500 SCM/DAY	3	24.0	430	200
4	OIL HEATING SYSTEM	FUEL - LDO , QUANTITY - 30 LTR/DAY	4	10.0	200	120
5	DG SET (325 KVA)	FUEL - DIESEL, QUANTITY - 15 LTR/HR	5	2.5	150	320
6	SCRUBBER VENT R & D PLANT	NA	6	7	250 X 150	30
7	THERMOPACK NO. 8 OF CAPACITY - 20 LAKH KCAL/HR	FUEL - NATURAL GAS (PNG) , QUANTITY - 3000 SCM/DAY	7	24	750	200

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	NATURAL GAS (PNG)	2000 SCMD	5000 SCMD	7000 SCMD
2	FURNACE OIL	1.40 TON./ DAY	0	1.40 TON./ DAY
41.Source of Fuel		MAHANAGAR GAS LIMITED		
42.Mode of Transportation of fuel to site		BY PIPED NATRURAL GAS		

43.Green Belt Development	**Total RG area :**	1816.66 SQM
	No of trees to be cut :	NA
	Number of trees to be planted :	75
	List of proposed native trees :	ASHOKA TREES,CHAFA TREE,BANANA TREE,MANGO TREE,TAGAR
	Timeline for completion of plantation :	WITHIN NINE MONTHS

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	ASHOKA TREES	SARACA INDICA	49	TOLERANT TO AIR POLLUTION AND IS EFFECTIVE IN ALLEVIATING NOISE POLLUTION

2	CHAFA TREE	PLUMERIA	10	TOLERANT TO AIR POLLUTION AND IS EFFECTIVE IN ALLEVIATING NOISE POLLUTIONEDUCES AIR POLLUTION
3	BANANA TREE	BANANA	10	FOOD, SHEITER & MEDICINE
4	MANGO TREE	MANGO TREE	1	FOOD & SHEITER
5	TAGAR	CRAPE JASMINE	5	TOLERANT TO AIR POLLUTION AND IS EFFECTIVE IN ALLEVIATING NOISE POLLUTION?
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	750 KVA
	During Operation phase (Demand load):	340 KVA
	Transformer:	315 KVA
	DG set as Power back-up during operation phase:	320 KVA
	Fuel used:	DIESEL
	Details of high tension line passing through the plot if any:	NO

48.Energy saving by non-conventional method:

1. REPLACED FLAME PROOF CLF LIGHTS TO FLAME PROOF LED LIGHTS IN THE PLANT AND OFFICE.
2. CHANGE OVER TO PNG FUEL INSTED OF FURANCE OIL FOR RUNNING OVER THERMOPACS.
3. INSTALLED TIMER FOR THE BLENDER STIRRERS TO SAVE ELECTRICITY.
4. OPTIMIZED REACTOR STIRRER MOTOR RATING,
5. REPLACED OLD DIESEL GENERATOR WITH NEW ENERGY EFFICIENT DG SET.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	%	10

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
FUMES	SCRUBBING SYSTEM	NA

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	10 LAKHS (REPLACEMENT OF OLD ELECRTIC MOTORS BY ENERGY EFFICIENT NEW MOTORS.)
	O & M cost:	18 LAKHS / A

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	NA	NA	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	ZLD	R.O. SYSTEM + EVAPORATOR	70	12
2	ETP	MEMBRANE DIFFUSERS, BLOWER	10	2
3	EMISSION	FUGITIVE EMISSION HANDALLING SYSTEM	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
MMA	IN USE	SOLVENT YARD	4	10	23	MANUFACTURER / TRADERS	BY ROAD
OCTANOL	IN USE	SOLVENT GODOWN	1	1.5	5.5	MANUFACTURER / TRADERS	BY ROAD
BASONAT	IN USE	SOLVENT GODOWN	3	4	1.6	MANUFACTURER / TRADERS	BY ROAD
STYRENE	IN USE	SOLVENT YARD	7	15	98	MANUFACTURER / TRADERS	BY ROAD
STYRENE	IN USE	SOLVENT YARD	7	15	98	MANUFACTURER / TRADERS	BY ROAD
BUTANOL	IN USE	SOLVENT YARD	3	20	134	MANUFACTURER / TRADERS	BY ROAD
BUTYL CELLOSOLVE	IN USE	SOLVENT GODOWN	2.5	3	7	MANUFACTURER / TRADERS	BY ROAD
TOLUENE	IN USE	SOLVENT GODOWN	3.5	4	9.5	MANUFACTURER / TRADERS	BY ROAD
SOLVENT C-9	IN USE	SOLVENT GODOWN	3.5	4	7	MANUFACTURER / TRADERS	BY ROAD
AROMAX	IN USE	SOLVENT GODOWN	3	3.5	6.5	MANUFACTURER / TRADERS	BY ROAD
ETHYL ACETATE	IN USE	SOLVENT GODOWN	2	2.5	9	MANUFACTURER / TRADERS	BY ROAD
TODI	IN USE	SOLVENT GODOWN	3	4	22	MANUFACTURER / TRADERS	BY ROAD

MPA	IN USE	SOLVENT GODOWN	2	2.5	0.35	MANUFACTURER / TRADERS	BY ROAD
DIESEL	IN USE	SOLVENT GODOWN	2	2.5	0.8	MANUFACTURER / TRADERS	BY ROAD
XYLENE	IN USE	SOLVENT YARD	120	120	655	MANUFACTURER / TRADERS	BY ROAD

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 NUMBER JUNCTION AND NO CONFLUENCE
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	80 SQM
	Area per car:	6
	Area per car:	6
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NAVI MUMBAI MUNICIPAL TRANSPORT (NMMT)
	Width of all Internal roads (m):	3
	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	B1 (5 F)
	Court cases pending if any	NA
	Other Relevant Informations	1.WE ARE CERTIFIED WITH ISO 9001 - 2015 BY CERTIFICATION BODY TUV NORD. 2. WE ARE GOING TO IMPLIMENT ISO 14001 & 18001 IN COMING YEAR 2019- 2020. 3. OUR R & D TEAM WORKING ON TO REDUCE POLLUTION LOAD
	Have you previously submitted Application online on MOEF Website.	No

	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. PP proposes scrubbers attached to the reactors to control the air pollution. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes Effluent Treatment Plant with Zero Liquid Discharge treatment facility.
Drainage pattern of the project	PP designed storm water drains as per contour levels exist on the plot.
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits at project site.
Solid Waste Management	PP has committed to dispose the hazardous waste at Common Hazardous Waste Treatment, Storage, and Disposal Facility and sale to Authorized vendors. Details are given at Sr. No. 38 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP, Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for proposed project is 340 KVA, which will be supplied by MSEDCL. PP also proposes to have one 320 KVA DG set with HSD as a fuel.
Traffic circulation system and risk assessment	PP has indicated in the lay out plan that internal roads will be of six meter width along with nine meters of turning radius for smooth circulation of vehicles.
Landscape Plan	PP proposed to provide 33% green belt within the plot.
Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment and submitted Disaster Management Plan.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP prepared EMP cost of Rs.90.00 Lakh as capital cost and Rs. 16.00 Lakh as O & M cost to maintain environmental parameters.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 in 153rd meeting of SEAC-1 held on 02.07.2018 wherein ToR was granted to the PP for the preparation of EIA/EMP reprot along with additional ToR points.

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

The proposal was considered in the 151st meeting of SEAC wherein PP was absent.

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.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to upload revised structural stability certificate so as to bear propsoed additional construction/equipments load.
2) PP to prepare and implement CER plan in consultation with District Authority as per OM issued by MoEF&CC dated 01.05.2018.

FINAL RECOMMENDATION

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

SEAC Meeting number: 159th (A) - Day-1 **Meeting Date** February 1, 2019

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

Is a Violation Case: No

1.Name of Project	Unichem Laboratories Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Unichem Laboratories Limited
4.Name of Consultant	Sadekar Enviro Engineers Private Limited
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion of existing API manufacturing unit
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No. PP have valid CTO from MPCB no. Format 1.0/ BO/CAC-Cell/ EIC No RD-3222-16/14th CAC/3317 dated 08.03.2016 valid up to 30.04.2020
8.Location of the project	Plot No. 99, MIDC-Dhatav,
9.Taluka	Roha
10.Village	Roth
Correspondence Name:	Mr. Umakant G Kadam (GM Roha Unit)
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	Unichem Laboratories Limited, Plot no. 99, MIDC Dhatav, Roha
Locality:	Taluka Roha
City:	Roha
11.Area of the project	Other (MIDC Dhatav)
12.IOD/IOA/Concession/Plan Approval Number	Not applicable
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area: 24496.46
13.Note on the initiated work (If applicable)	Expansion activity will start after acquiring prior environmental clearance.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC approval
15.Total Plot Area (sq. m.)	Not applicable
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 27188
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 18-10-2017
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	500000000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	-
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	Existing production block , utility building, ETP, MEE, warehouse , administration building
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Amlodipine Besylate	20	-9	11
2	Amlodipine Maleate	3	-1	2
3	Bisoprolol Fumarate	8	2	10
4	Clonidine Hydrochloride	0.25	0.25	0.5
5	Labetalol Hydrochloride	5	0	5
6	Lacidipine	0.02	0.48	0.5
7	Bendroflumethiazide	2	0	2
8	Hydrochlorothiazide	60	70	130
9	Aripiprazole	0.2	0.3	0.5
10	Tigabine Hydrochloride	0.02	0.48	0.5
11	Buprenorphine Hydrochloride	0.02	0.48	0.5
12	Donepezil Hydrochloride	0.08	0.42	0.5
13	Meloxicam	5	7	12
14	Metronidazole	269	-19	250

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

32.Total Water Requirement

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

33.Details of Total water consumed

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

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5-10 m
	Size and no of RWH tank(s) and Quantity:	2 tank of 20 kl capacity
	Location of the RWH tank(s):	near plant 7 & 8
	Quantity of recharge pits:	--
	Size of recharge pits :	--
	Budgetary allocation (Capital cost) :	--
	Budgetary allocation (O & M cost) :	50000
	Details of UGT tanks if any :	Ethyl Alcohol 12 KL Ethyl Alcohol 12 KL Methanol 12 KL Methanol 12 KL Iso Propyl Alcohol 12 KL Iso Propyl Alcohol 12 KL Ethyl alcohol with 5% Acetone 12 KL Monomethyl Amine in methanol 12 KL Acetonitrile 12 KL Orthoxylene 12 KL MIDC Raw Water Tank 120 KL
35.Storm water drainage	**Natural water drainage pattern:**	Internal storm water drains are connected to MIDC drains.
	Quantity of storm water:	58.51 m3/hr
	Size of SWD:	1 X 2 Meter size drain along plot boundary
Sewage and Waste water	**Sewage generation in KLD:**	50
	STP technology:	Sewage is treated in septic tank and overflow is mixed with effluent in aeration tank of ETP.
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	no pre construction waste will be generated.
	Disposal of the construction waste debris:	it will be landfilled within premise.
Waste generation in the operation Phase:	**Dry waste:**	E waste, battery waste , plastic waste and metal scrap
	Wet waste:	Hazardous waste
	Hazardous waste:	Please refer point 45
	Biomedical waste (If applicable):	Yes. It will be disposed to MPCB registered treatment facility for Roha region.
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	non hazardous waste will be disposed through registered vendors.
	Wet waste:	CHWTSDF / MPCB Authorise Recycler
	Hazardous waste:	disposed to CHWTSDF/ sold to authorised recycler or reprocessor / disposed to co-processing unit
	Biomedical waste (If applicable):	disposed to MPCB registred processor for Roha region
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	demarkated area is provided for hazardous waste /BMW / Battery waste /E-waste storage within premise.
	Area for the storage of waste & other material:	provided
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	10 lacs.
	O & M cost:	75 lacs

37.Effluent Charecterestics

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

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

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

40.Details of Fuel to be used

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

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

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

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

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

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

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

47.Energy

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

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed

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

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

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

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

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

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

DECISION OF SEAC

PP remained absent.

Hence, deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

159th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 159th (A) - Day-1 **Meeting Date** February 1, 2019

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.

The proposal was considered in the 157th meeting wherein it was deferred for following reason.

"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.

DECISION OF SEAC

At the outset of the meeting, PP submitted letter received from Dy. Forest Conservator dated 18.12.2108 indicating the distance of Karnal Bird Sanctury from the proposed project site is 1.5 KM.

As per schedule attached to the EIA Notification,2006 General conditions are applicable to the project and therefore SEAC-1 is of the view that, the proposed project is covered under category "A" and needs to be appraised by EAC, MoEF&CC, New Delhi.

Hence, SEAC-1 decided to refer the proposal to the SEIAA for confirmation of the above view.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.

159th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 159th (A) - Day-1 **Meeting Date** February 1, 2019

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

Is a Violation Case: No

1.Name of Project	Expansion in Already Existing Isolated Storage and Handling of Hazardous Chemicals along with other Allied Facilities to be developed at BPCL Miraj Pol Depot.
2.Type of institution	Government
3.Name of Project Proponent	Bharat Petroleum Corporation Limited
4.Name of Consultant	ECO CHEM SALES & SERVICES, SURAT, GUJARAT
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	At Plot No. 795/1A/3A/1/1 Miraj Pol Depot
9.Taluka	Miraj
10.Village	Miraj
Correspondence Name:	Mr. Rohit Kumar Prajapati
Room Number:	At Plot No. 795/1A/3A/1/1
Floor:	Not applicable
Building Name:	BPCL
Road/Street Name:	Miraj Pol Depot
Locality:	Nr. Railway Goods Shed
City:	Miraj
11.Area of the project	Miraj Municipal
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 39902
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	39,902 m2
16.Deductions	Not applicable
17.Net Plot area	39,902 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 00
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 00
	Approved Non FSI area (sq. m.): 00
	Date of Approval: 03-01-2018
19.Total ground coverage (m2)	900
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	2.25
21.Estimated cost of the project	33000000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Isolated Storage and Handling of Hazardous Chemicals	16531 KL	1716 KL	18247 KL

32.Total Water Requirement

Dry season:	**Source of water**	Sangli Miraj Kupwad Muncipal Corporation water supply
	Fresh water (CMD):	10.34
	Recycled water - Flushing (CMD):	00
	Recycled water - Gardening (CMD):	2.16
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	12.50
	Fire fighting - Underground water tank(CMD):	00
	Fire fighting - Overhead water tank(CMD):	4200
	Excess treated water	00
Wet season:	**Source of water**	Sangli Miraj Kupwad Muncipal Corporation water supply
	Fresh water (CMD):	3.00
	Recycled water - Flushing (CMD):	00
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	3.00
	Fire fighting - Underground water tank(CMD):	00
	Fire fighting - Overhead water tank(CMD):	4200
	Excess treated water	2.16
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5-10 m
	Size and no of RWH tank(s) and Quantity:	1 No. 50KL
	Location of the RWH tank(s):	Near Tank 17-18
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	2.0 Lakhs
	Budgetary allocation (O & M cost) :	0.10 Lakh
	Details of UGT tanks if any :	Product Capacity (KL) Ethanol 100 Motor Spirit (MS) 100 Speed Petrol 100 Ethanol 200 Motor Spirit (MS) 200
35.Storm water drainage	**Natural water drainage pattern:**	NE-SW
	Quantity of storm water:	21738.60 m3
	Size of SWD:	988.61 m
Sewage and Waste water	**Sewage generation in KLD:**	2.4
	STP technology:	Moving Bed Biological Reactor (MBBR)
	Capacity of STP (CMD):	1 No. of 10 KLD
	Location & area of the STP:	Near OWS
	Budgetary allocation (Capital cost):	4.50 Lakhs
	Budgetary allocation (O & M cost):	1.50 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Site clearance for grasses etc. and leveling
	Disposal of the construction waste debris:	Construction waste will be filled in low lying area within site.
Waste generation in the operation Phase:	**Dry waste:**	0.42 TPM
	Wet waste:	0.105 TPM
	Hazardous waste:	7.5 KLPA
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	0.36 kg/day
	Others if any:	Not applicable

Mode of Disposal of waste:	**Dry waste:**	Collected by municipal corporation
	Wet waste:	for composting
	Hazardous waste:	Bioremediation at site
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	for gardening
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Near tank #14
	Area for the storage of waste & other material:	900
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	3.00 Cr
	O & M cost:	0.30 Cr

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Amount of effluent generation (CMD):	Not applicable
Capacity of the ETP:	Not applicable
Amount of treated effluent recycled :	Not applicable
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Not applicable
Disposal of the ETP sludge	Not applicable

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Tank Cleaning Sludge	3.3	Hazardous and Other Wastes [Management and Transboundary Movement) Amendment Rules, 2016	5.0 KLPA	2.5 KLPA	7.5 KLPA	Bio-remediation at Site

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Existing DG. Sets	HSD 30 L/h	1, 2	7	0.1	490°C
2	Fire Water engine pumps	HSD 50 L/h	0	7	0.1	101°C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	80 L/h	0	80 L/h
41.Source of Fuel		Captive		
42.Mode of Transportation of fuel to site		within the premises		

43.Green Belt Development	**Total RG area :**	13168 m2
	No of trees to be cut :	0
	Number of trees to be planted :	2883
	List of proposed native trees :	List of trees are added below-
	Timeline for completion of plantation :	5 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Terminalia catappa	Indian Almond	140	Vast root system binds together both sands and poor soils.
2	Azadirachta indica	Neem	500	Requires very little water
3	Mangifera indica	Mango	100	Dust collector
4	Albizia lebbeck	Siris	130	Fast-growing tree that fixes atmospheric nitrogen, tree is a good soil binder.
5	Vachellia nilotica	Babul	40	Acts as a fire breaker.
6	Cassia fistula	Bahava	400	Aesthetic and beauty of the environment
7	Polyalthia longifolia	Ashoka	243	Acts as a dust adsorber
8	Cocos nucifera	Coconut	60	Fruiting, beauty of the environment
9	Leucaena leucocephala	River tamarind	80	Fix atmospheric nitrogen, aggressive taproot system helps break up compacted subsoil layers, improving the penetration of moisture into the soil and decreasing surface runoff.
10	Phyllanthus emblica	Indian gooseberry	120	Fire resistant, and is one of the first trees to recover after a fire.
11	Areca catechu	Betel nut tree	50	Ornamental Plant
12	Pongamia pinnata	Karanj	500	Fixes atmospheric nitrogen, Preferred species for controlling soil erosion and binding sand dunes
13	Peltophorum pterocarpum	Copper pod tree	400	Fixes atmospheric nitrogen, it has potential use for reforestation, dense, spreading crown provides shades
14	Delonix regia	Gulmohar	120	Controls soil erosion, soil rehabilitation through atmospheric nitrogen fixation, provides shades.

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	00	00

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	250 kVA
	DG set as Power back-up during construction phase	250 KVA
	During Operation phase (Connected load):	522 Kw
	During Operation phase (Demand load):	435 kVA
	Transformer:	1100 kW
	DG set as Power back-up during operation phase:	65 KVA; 250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No any

48.Energy saving by non-conventional method:

• BPCL has already provided solar lights within plant premises.
• LED bulbs in storage area, admin block, Security room etc.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	• BPCL has already provided solar lights within plant premises. • LED bulbs in storage area, admin block, Security room etc.	10

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
DG Set - emergency	Adequate stack height	Not applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	00
	O & M cost:	00

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	Air- fugitive dust, DG Set	PM, SOX & NOx – Green belt & Water sprinkling	1.00
2	Noise	dB –Green belt	3.00
3	Water – Drinking and sewage generation	No change in the water parameters as generated waste water will be disposed in septic tank and soak pit	0
4	Soil Fertility	No changes in the soil	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	Environment Management System (water and air)	Water sprinkling, Monitoring, acoustic enclosure	7.5	2.0
2	Solid waste disposal and management (Soil)	Bioremediation of sludge and scrap disposal.	0.0	0.5
3	Green Belt Development (Noise)	Tree plantation, shrubs, maintenance, etc.	7.2	3.0
4	Occupational Health and Safety	Health Checkup, PPE, trainings, etc.	10.0	2.5
5	Compliance with EC conditions	As per EC and CTO conditions	0.0	6.0
6	Misc./Contingency	Other than mentioned above	5.3	0.0

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	120 m2
	Area per car:	7 m2
	Area per car:	7 m2
	Number of 2-Wheelers as approved by competent authority:	10
	Number of 4-Wheelers as approved by competent authority:	6
	Public Transport:	Nil
	Width of all Internal roads (m):	5-8m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No any protected area in 10 km radius

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

DECISION OF SEAC

During deliberations, PP requested to defer the proposal.

Hence SEAC-1 decided to defer the proposal.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

159th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 159th (A) - Day-1 **Meeting Date** February 1, 2019

Subject: Environment Clearance for M/s. Mehta Anti-Biotics Private Limited, Plot No. D-7/2/2, MIDC Tarapur, District Palghar, Maharashtra

Is a Violation Case: No

1.Name of Project	New project of Manufacturing of active pharmaceutical ingredients (API) by M/s. Mehta Anti-Biotics Private Limited at Plot No. D-7/2/2, MIDC Tarapur, District Palghar, Maharashtra.
2.Type of institution	Private
3.Name of Project Proponent	M/s. Mehta Anti-Biotics Private Limited
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Industrial – Manufacturing of API
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. D-7/2/2, MIDC Tarapur, Maharashtra
9.Taluka	Palghar
10.Village	Salwad
Correspondence Name:	Mr. Chetan Mehta
Room Number:	314
Floor:	Not Applicable
Building Name:	Janki centre
Road/Street Name:	20 Shah Industrial Estate
Locality:	Off Veera Desai Road
City:	Andheri (W), 400053
11.Area of the project	MIDC Tarapur
12.IOD/IOA/Concession/Plan Approval Number	Not applicable
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area: 6450
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.)	6450.00 m2
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 6450
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	200000000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9 m.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	AMOXAPINE	Not Applicable	05.00 (MT/Y)	05.00 (MT/Y)
2	AZITHROMYCIN DIHYDRATE	Not Applicable	50.00 (MT/Y)	50.00 (MT/Y)
3	AZITHROMYCIN	Not Applicable	80.00 (MT/Y)	80.00 (MT/Y)
4	CALAMINE	Not Applicable	40.00 (MT/Y)	40.00 (MT/Y)
5	CHLORHEXIDINE GLUCONATE	Not Applicable	30.00 (MT/Y)	30.00 (MT/Y)
6	CHLORAMPHENICOL	Not Applicable	50.00 (MT/Y)	50.00 (MT/Y)
7	CLARITHROMYCIN	Not Applicable	15.00 (MT/Y)	15.00 (MT/Y)
8	CHLORAMPHENICOL PALMITATE	Not Applicable	50.00 (MT/Y)	50.00 (MT/Y)
9	ERYTHROMYCIN BASE	Not Applicable	50.00 (MT/Y)	50.00 (MT/Y)
10	ERYTHROMYCINE ETHYL SUCCINATE	Not Applicable	20.00 (MT/Y)	20.00 (MT/Y)
11	ERYTHROMYCIN ESTOLATE	Not Applicable	30.00 (MT/Y)	30.00 (MT/Y)
12	ERYTHROMYCIN OXIME	Not Applicable	40.00 (MT/Y)	40.00 (MT/Y)

13	ERYTHROMYCIN STEARATE	Not Applicable	100.00 (MT/Y)	100.00 (MT/Y)
14	GRANISETRON HYDROCHLORIDE	Not Applicable	01.00 (MT/Y)	01.00 (MT/Y)
15	MELATONIN	Not Applicable	05.00 (MT/Y)	05.00 (MT/Y)
16	MALEIC ACID	Not Applicable	50.00 (MT/Y)	50.00 (MT/Y)
17	PROCHLORPERAZINE MALEATE	Not Applicable	03.00 (MT/Y)	03.00 (MT/Y)
18	PROCHLORPERAZINE MESYLATE	Not Applicable	03.00 (MT/Y)	03.00 (MT/Y)
19	PROMETHAZINE TEOCLATE	Not Applicable	02.00 (MT/Y)	02.00 (MT/Y)
20	TOBRAMYCIN SULPHATE	Not Applicable	05.00 (MT/Y)	05.00 (MT/Y)
21	TOLFENAMIC ACID	Not Applicable	10.00 (MT/Y)	10.00 (MT/Y)
22	BAZEDOXIFENE ACETATE	Not Applicable	0.432 (MT/Y)	0.432 (MT/Y)
23	Total	Not Applicable	639.432 (MT/Y)	639.432 (MT/Y)

32.Total Water Requirement

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

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

33.Details of Total water consumed

Particulars	**Consumption (CMD)**			**Loss (CMD)**			**Effluent (CMD)**		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	Not Applicable	03	03	Not Applicable	0.5	0.5	Not Applicable	2.5	2.5
Industrial Process	Not Applicable	16	16	Not Applicable	+ 5.3	+ 5.3	Not Applicable	21.3	21.3
Cooling tower & thermopack	Not Applicable	74	74	Not Applicable	58 (6 Steam Condensate recycle)	58 (6 Steam Condensate recycle)	Not Applicable	10	10
Gardening	Not Applicable	10	10	Not Applicable	10	10	Not Applicable	Not Applicable	Not Applicable
Fresh water requirement	Not Applicable	103	103	Not Applicable	69.2	69.2	Not Applicable	33.8	33.8

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 to 10 m
	Size and no of RWH tank(s) and Quantity:	1 tank of 30 m3
	Location of the RWH tank(s):	Near utility area
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Not applicable as collected rain water will be reused.
	Budgetary allocation (Capital cost) :	6 lac.
	Budgetary allocation (O & M cost) :	Rs. 1.20 lac./ annum
	Details of UGT tanks if any :	1 rainwater harvesting tank of 30 m3
35.Storm water drainage	**Natural water drainage pattern:**	Proposed within plot
	Quantity of storm water:	Not applicable
	Size of SWD:	Not applicable
Sewage and Waste water	**Sewage generation in KLD:**	2.5
	STP technology:	Combined treatment in Effluent Treatment Plant with Industrial waste water
	Capacity of STP (CMD):	Not Applicable
	Location & area of the STP:	Not Applicable
	Budgetary allocation (Capital cost):	Not Applicable
	Budgetary allocation (O & M cost):	Not Applicable
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Debris
	Disposal of the construction waste debris:	Excavated soil will be used for land filling.
Waste generation in the operation Phase:	**Dry waste:**	• Discarded drums and containers = 800 nos/month sold to authorized dealers • Boiler Ash about 6.75 TPM • Polyethylene Bags = 1 TPA • Paper Bag = 0.5 TPA • Light density polyethylene bag = 0.5 TPA
	Wet waste:	• MEE Solids = 140.688 TPA • Spent Carbon from ETP = 17.69 TPA • Chemical Sludge from ETP =17.16 TPA • Carbon from process = 0.15 TPA • Waste from process (Chloro theophylline) = 0.06 TPA
	Hazardous waste:	• MEE Solids = 140.688 TPA • Spent Carbon from ETP = 17.69 TPA • Chemical Sludge from ETP =17.16 TPA • Carbon from process = 0.15 TPA • Waste from process (Chloro theophylline) = 0.06 TPA
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	MPCB authorized party for reuse
	Wet waste:	CHWTSDF
	Hazardous waste:	CHWTSDF
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Plant Area, Raw material storage area, Finished Goods storage, Office Building, Utility area, Parking area, Hazardous waste storage, Open space & internal roads, ETP, MEE & RO, Green belt area
	Area for the storage of waste & other material:	657 m2
	Area for machinery:	570 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Included in capital cost
	O & M cost:	Rs. 30.0 lacs./year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	A) Multi Effect Evaporator (MEE):	-	-	-	-
2	Parameters	Unit	Reject from RO	Inlet to MEE	Outlet from MEE
3	Flow	m3/day	13.1	14.3	32.9 (14.3+13.1+5.5)
4	pH	--	6 - 7	6 - 7	6 - 7
5	BOD3, 27°C	mg/L	80 - 100	40000 - 65000	80-100
6	COD	mg/L	600 - 700	100000 - 150000	200-250
7	TSS	mg/L	<100	<100	< 100
8	TDS	mg/L	7500 - 8000	10000 - 20000	< 100
9	--	--	--	--	--
10	B) Effluent Treatment Plant (ETP):	--	--	--	--
11	Parameters	Inlet to primary treatment	Inlet to secondary treatment	Inlet to tertiary treatment	Outlet from tertiary treatment
12	Flow (m3/day)	49.9 (32.9 + 17.0 Utility blowdown)	52.4 (49.9 + 2.5 Domestic)	52.4	52.4
13	pH	6-7	6-7	6-7	6-7
14	BOD3, 27°C (mg/l)	3200 - 3700	3000 - 3500	80 - 100	< 100
15	COD (mg/l)	77000 - 8000	7000 - 7500	300 - 350	< 250
16	TSS (mg/l)	50 - 100	50-100	50-100	< 100
17	TDS (mg/l)	1500 - 2000	1500 - 2000	1500 - 2000	1500 - 2000
18	-	--	--	--	--

19	C) Reverse Osmosis (RO):	--	--	--	--
20	Parameters	Unit	Inlet to RO	Permeate	Reject
21	Flow	m3/day	52.4	39.3	13.1
22	pH	--	7-8	7-8	7-8
23	COD	mg/L	< 250	< 100	600 - 700
24	TDS	mg/L	1500 - 2000	< 100	7500 - 8000

Amount of effluent generation (CMD):	33.8 CMD
Capacity of the ETP:	63.0 CMD
Amount of treated effluent recycled :	45.3 CMD
Amount of water send to the CETP:	Not Applicable as this unit will be run as Zero Liquid Discharge (ZLD) Unit
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	High COD & TDS stream from process will be treated by Multi Effect Evaporator (MEE). Treated effluent from MEE will be mixed with utility blowdown. Domestic wastewater will also be treated in secondary as a combined treatment. Treated effluent will be fed to RO. Permeate will be reused and reject will be fed to MEE. Thus unit will be run as ZLD unit.
Disposal of the ETP sludge	CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Chemical Sludge from ETP	35.3	T/A	Not Applicable	17.16	17.16	CHWTSDF
2	MEE solids	35.3	T/A	Not Applicable	140.688	140.688	CHWTSDF
3	Spent Carbon from ETP	36.2	T/A	Not Applicable	17.69	17.69	CHWTSDF
4	Carbon from process	28.3	T/A	Not Applicable	0.15	0.15	CHWTSDF
5	Waste from process (Chloro theophylline)	28.1	T/A	Not Applicable	0.06	0.06	CHWTSDF
6	Discarded drums and containers	33.1	Nos./m	Not Applicable	800.0	800.0	MPCB authorized party for reuse
7	Polyethylene Bags	33.1	T/A	Not Applicable	1	1	Sale to authorized party
8	Non-Hazardous Waste	--	--	--	--	--	--
9	Boiler ash	--	T/M	Not Applicable	6.75	6.75	Send to brick manufacturer
10	Paper Bag	--	T/A	Not Applicable	0.5	0.5	Sale to authorized party
11	Light density polyethylene bag	--	T/A	Not Applicable	0.5	0.5	Sale to authorized party
12	E-waste	--	--	--	--	--	--
13	Battery / e waste	--	T/A	Not Applicable	0.1	0.1	sale to recycler

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 (0.8 TPH – 2 nos.)	Briquette 4.5 T/D or Furnace Oil 1.0T/D	01 Common	30 m.	1.2 m	1350C
2	D G Sets (250 KVA & 500 KVA)	HSD, 160 lit./hr.	01 Common	6.5 m.	0.15 m.	1400C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Briquette	Not Applicable	4.5 T/D	4.5 T/D
2	Furnace Oil	Not Applicable	1.0 T/D	1.0 T/D
3	HSD	Not Applicable	160 lit./hr.	160 lit./hr.
41.Source of Fuel		Local		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	2130.00 m2
	No of trees to be cut :	Trees are not available at project side
	Number of trees to be planted :	350.00 nos.
	List of proposed native trees :	Terminaliaarjuna (Arjun), Bauhinia racemosa(Apta), Ficusbenghalensis(Vad), Ficusreligiosa(Pimpal), Polyalthialongifolia(Ashok), Azadirachtaindica(Kaduneem), Cassia fistula (Bahava), Neolamarckiacadamba(Kadamb), Teminaliatomentosa(Ain), Lagerstroemia speciosa(Taman), Bougainvillea spectabilis(Bouganvel), Lantana camara(Ghaneri), Calatropisgigentia(Rui), Hibiscus rosasinensis(Jaswand), Neriumindicum(Kanher)
	Timeline for completion of plantation :	5 Years.

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Terminalia arjuna	Arjun	25	Pollution resistant and Native
2	Bauhinia racemosa	Apta	20	Pollution resistant and Native
3	Ficus benghalensis	Vad	20	Pollution resistant and Native
4	Ficus religiosa	Pimpal	30	Pollution resistant and Native
5	Polyalthia longifolia	Ashok	20	Pollution resistant and Native
6	Azadirachta indica	Kaduneem	25	Pollution resistant and Native
7	Cassia fistula	Bahava	20	Pollution resistant and Native
8	Neolamarckia cadamba	Kadamb	25	Pollution resistant and Native
9	Teminalia tomentosa	Ain	25	Pollution resistant and Native
10	Lagerstroemia speciosa	Taman	30	Pollution resistant and Native
11	Bougainvillea spectabilis	Bouganvel	25	Pollution resistant and Native

12	Lantana camara	Ghaneri	20	Pollution resistant and Native
13	Calatropis gigentia	Rui	25	Pollution resistant and Native
14	Hibiscus rosasinensis	Jaswand	20	Pollution resistant and Native
15	Nerium indicum	Kanher	20	Pollution resistant and Native
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 KW
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	1000 KVA
	During Operation phase (Demand load):	950 KVA
	Transformer:	1000 KVA
	DG set as Power back-up during operation phase:	500 KVA (1 no.) & 250 KVA (1 no.)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No high tension line is passing through the plot

48.Energy saving by non-conventional method:

NIL

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Not Applicable	Stack of adequate height, multiple cyclone separators
Water	Not Applicable	MEE, ETP & RO
Noise	Not Applicable	Acoustic enclosure for DG set
Solid Waste	Not Applicable	Disposal to CHWTSDF

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air pollution control	Provision of stacks of height as per CPCB, multiple cyclone separators	20.0	1.2
2	Water pollution control	MEE, ETP & RO operation cost, Rain water harvesting	200.00	136.00
3	Noise pollution Control	Acoustic enclosure/Anti vibration pads	Already included in capital cost of project	Already included in capital cost of project
4	Environment Monitoring budget	Environment Monitoring	--	36.00
5	Occupational health care	Medical checkup, Health insurance policy, Medical staff charges, First aid facilities consumables, Control of fugitive emissions	5.0	1.0
6	Hazardous waste Storage & disposal	Storage, Transportation and disposal	45.0	30.0
7	Green belt	Development & Maintenance	3.0	1.2
8	Total	--	273.0	205.4

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Methanol	liquid	Near ETP area	10.0	10.0	15166	Local	Road
Acetone	liquid	Near ETP area	10.0	10.0	10833	Local	Road
Methylene di chloride	liquid	Near ETP area	10.0	10.0	10000	Local	Road
Isopropyl alcohol	liquid	Near ETP area	10.0	5.0	14583	Local	Road

Ethyl acetate	liquid	Near ETP area	10.0	2.0	1666	Local	Road
Triethyl amine	liquid	Near ETP area	0.2	0.4	700	Local	Road
Propionic anhydride	liquid	Near ETP area	0.2	0.5	650	Local	Road
Formaldehyde	liquid	Near ETP area	0.05	0.4	1083	Local	Road
Formic acid	liquid	Near ETP area	0.35	0.5	1500	Local	Road
Caustic soda	solid	Near ETP area	0.05	0.5	1483	Local	Road
Dimethyl formamide	liquid	Near ETP area	0.18	5.0	9250	Local	Road
Pyridine	liquid	Near ETP area	0.225	1.0	1550	Local	Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Not applicable
Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	769m2
	Area per car:	Not applicable
	Area per car:	Not applicable
	Number of 2-Wheelers as approved by competent authority:	Not applicable
	Number of 4-Wheelers as approved by competent authority:	Not applicable
	Public Transport:	Not applicable
	Width of all Internal roads (m):	6m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No Protected area within 10 km radius circle.
	Category as per schedule of EIA Notification sheet	5(f) B1
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Due to MoEFCC login problem unable to submit the application on MoEFCC portal.

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

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
3. Name of Project Proponent	M/s. Mehta Anti-Biotics Private Limited	Mr. Chetan Mehta-M/s. Mehta Anti-Biotics Private Limited
18. Proposed Built-up Area (FSI &Non-FSI)	FSI area (sq. m.): Not applicable	FSI area (sq. m.): 6450
18. Proposed Built-up Area (FSI &Non-FSI)	Total BUA area (sq. m.): 6450	Total BUA area (sq. m.): 3200
19.Total ground coverage (m2)	Not applicable	1744.01
20.Ground coverage percentage (Note: Percentage of plot not open to sky)	Not applicable	27.03%
33..Details of Total water consumed	Industrial Process: Consumption (Existing 00 CMD, Proposed 16 CMD, Total 16 CMD), Loss (Existing 0 CMD, Proposed (+) 5.3CMD, Total (+) 5.3 CMD), Effluent (Existing 00 CMD, Proposed 21.3 CMD, Total 21.3 CMD)	Industrial Process: Consumption (Existing 00 CMD, Proposed 16 CMD, Total 16 CMD), Loss (Existing 0 CMD, Proposed 0 CMD, Total 0 CMD), Effluent (Existing 00 CMD, Proposed 16 CMD, Total 16 CMD)
33.Details of Total water consumed	Cooling tower &Thermopack: Consumption (Existing 00 CMD, Proposed 74 CMD, Total 74 CMD), Loss (Existing 0 CMD recycle), Proposed 58 CMD(6Steam Condensate), Total 58 CMD) (6 Steam Condensate), Effluent (Existing 00 CMD, Proposed 10 CMD, Total 10 CMD)	Cooling Tower & Thermopack: Consumption (Existing 00 CMD, Proposed 69 CMD, Total 69 CMD), Loss (Existing 00 CMD, Proposed (-) 39 CMD, Total 39 CMD), Effluent (Existing 00 CMD, Proposed 30 CMD, Total 30 CMD)
33.Details of Total water consumed	Total fresh water Requirement: Consumption (Existing 00 CMD, Proposed 103 CMD, Total 103 CMD), Loss (Existing 00 CMD, Proposed 69.2 CMD, Total 69.2 CMD), Effluent (Existing 00 CMD, Proposed 33.8 CMD, Total 33.8 CMD)	Total fresh water Requirement: Consumption (Existing 00 CMD, Proposed 98 CMD, Total 98 CMD), Loss (Existing 00 CMD, Proposed 49.5 CMD, Total 49.5 CMD), Effluent (Existing 00 CMD, Proposed 48.5 CMD, Total 48.5 CMD)
33. Details of Total water consumed	--	Recycle water 54.1- (Additional live steam condensate from MEE 5.6 + 48.5 Effluent)
33. Details of Total water consumed	--	Net Fresh Water Requirement 43.9
34.Rain Water Harvesting (RWH)	Size and no of RWHtank(s) and Quantity:1 tank of 30 m3	Size and no of RWH tank(s) and Quantity: 1 tank of 10 m3 & quantity 8 M3
34.Rain Water Harvesting (RWH)	Location of the RWHtank(s):Near utility area	Location of the RWH tank(s):Near Admin building
34.Rain Water Harvesting (RWH)	Details of UGT tanks if any : 1 rainwater harvesting tank of 30 m3	Details of UGT tanks if any : 1 tank of 10 m3
35.Storm water drainage	Natural water drainage pattern: Proposed within plot	Natural water drainage pattern: As per natural slope
35.Storm water drainage	Quantity of storm water: Not applicable	Quantity of storm water: 40 lit./s
35.Storm water drainage	Size of SWD: Not applicable	Size of SWD: 59.26 Lit./s

37.Solid waste Management- Waste generation in the operation Phase:	Dry waste: Discarded drums and containers = 800 nos/month sold to authorized dealers • • Boiler Ash about 6.75 TPM • • Polyethylene Bags = 1 TPA • •Paper Bag = 0.5 TPA • • Light density polyethylene bag = • 0.5 TPA	Dry waste: • Discarded drums and containers = 800 nos/month sold to authorized dealers • • Boiler Ash about 25 TPA • • Polyethylene Bags = 1 TPA • •Paper Bag = 0.5 TPA • • Light density polyethylene bag = 0.5 TPA
37.Solid waste Management- Waste generation in the operation Phase:	Wet waste: • MEE Solids = 140.688 TPA • Spent Carbon from ETP = 17.69 PA •Chemical Sludge from ETP =17.16 TPA •Carbon from process = 0.15TPA •Waste from process (Chloro theophylline) = 0.06 TPA	Wet waste: • MEE Solids = 1352 TPA • Spent Carbon from ETP = 22 TPA •Chemical Sludge from ETP = 64 TPA •Carbon from process = 4.12 TPA •Waste from process (Chloro theophylline) = 1.3 TPA • Process residue = 39 TPA • Spent Catalyst = 3 TPA • Spent Solvent = 44.5 TPA
37.Solid waste Management- Waste generation in the operation Phase:	Hazardous Waste: MEE Solids = 140.688 TPA • Spent Carbon from ETP = 17.69 PA •Chemical Sludge from ETP =17.16 TPA •Carbon from process = 0.15TPA •Waste from process (Chloro theophylline) = 0.06 TPA	MEE Solids = 1352 TPA • Spent Carbon from ETP = 22 TPA •Chemical Sludge from ETP = 64 TPA •Carbon from process = 4.12 TPA •Waste from process (Chloro theophylline) = 1.3 TPA • Process residue = 39 TPA • Spent Catalyst = 3 TPA Spent Solvent = 44.5 TPA
37.Solid waste Management- Waste generation in the operation Phase:	Bio-medical waste – Not applicable	Bio-medical waste -- 0.01 TPA
37.Solid waste Management- Mode of disposal	Wet waste: CHWTSDF	Disposal- Regenerated from authorized re-processor/CHWTSDF
37.Solid waste Management- Mode of disposal	Bio-medical waste: (If applicable)	Bio-medical waste : Authorized Biomedical Waste disposal facility.
37.Solid waste Management- Area requirement:	Location: Plant Area, Raw material storage area, Finished Goods storage, Office Building, Utility area, Parking area, Hazardous waste storage, Open space & internal roads, ETP, MEE & RO, Green belt area	Location: Hazardous waste storage area
37.Solid waste Management- Area requirement:	Area for the storage of waste & other material: 657 M2	Area for the storage of waste & other material: 50 M2
37.Solid waste Management- Area requirement:	Area for machinery – 570 M2	Area for machinery – Not applicable
38.Effluent Characteristics	Inlet Effluent Characteristics: Parameters- Reject from RO (Flow: 13.1 CMD pH: 6-7, BOD: 80-100 mg/lit, COD 600-700 mg/lit, TSS: <100mg/lit, TDS: 7500-8000 mg/lit), Outlet Effluent Characteristics: Parameters- Inlet to MEE (Flow: 14.1 CMD pH: 6-7, BOD: 40000-65000 mg/lit, COD 100000-150000 mg/lit, TSS: <100mg/lit, TDS: 10000-20000 mg/lit), Effluent discharge standards (MPCB): Parameters- Outlet from MEE (Flow: 32.9 (14.3+13.1+5.5) CMD pH: 6-7, BOD: 80-1000 mg/lit, COD 200-250 mg/lit, TSS: <100mg/lit, TDS: <100 mg/lit),	Inlet Effluent Characteristics: Parameters- Reject from RO (Flow: 18 CMD pH: 7-7.5, BOD: 80-100 mg/lit, COD 400-450 mg/lit, TSS: 80-100mg/lit, TDS: 3500-4000 mg/lit), Outlet Effluent Characteristics: Parameters- Inlet to MEE (Flow: 10 CMD pH: 6-7, BOD: 32500-35000 mg/lit, COD 65000-70000 mg/lit, TSS: 400-500 mg/lit, TDS: 250000-300000 mg/lit), Effluent discharge standards (MPCB): Parameters- Outlet from MEE (Flow: 33.6 (28 + 5.6) CMD pH: 7-7.5, BOD: 2000-2500 mg/lit, COD 4000-5000 mg/lit, TSS: <100mg/lit, TDS: <100 mg/lit),

38.Effluent Characteristics	B) Effluent Treatment Plant (ETP): Inlet toprimarytreatment : (Flow: 49.9 (32.9+ 17.0Utility blowdown) CMD pH: 6-7, BOD: 3200-3700 mg/lit, COD 77000-80000 mg/lit, TSS: 50-100 mg/lit, TDS: 1500-2000 mg/lit) Inlet to secondarytreatment: (Flow: 52.4 (49.9 + 2.5Domestic) CMD pH: 6-7, BOD: 3000-3500 mg/lit, COD 7000-7500 mg/lit, TSS: 50-100 mg/lit, TDS: 1500-2000 mg/lit) Inlet to tertiarytreatment: (Flow: 52.4 CMD pH: 6-7, BOD: 80-100 mg/lit, COD 300-350 mg/lit, TSS: 50-100 mg/lit, TDS: 1500-2000 mg/lit) Outlet from tertiarytreatment: (Flow: 52.4 CMD pH: 6-7, BOD: <100 mg/lit, COD <250 mg/lit, TSS: <100 mg/lit, TDS: 1500-2000 mg/lit)	B) Effluent Treatment Plant (ETP): Inlet to primary treatment : (Flow: 69.6 (33.6 + 36.0 Utility blowdown) CMD pH: 6-7, BOD: 1500-2000 mg/lit, COD 3500-4000 mg/lit, TSS: 100-200 mg/lit, TDS: 1100-1200 mg/lit) Inlet to secondarytreatment: (Flow: 72.1 (69.6 + 2.5 Domestic) CMD pH: 7-7.5, BOD: 1450-1700 mg/lit, COD 2900-3400 mg/lit, TSS: 50-100 mg/lit, TDS: 800-1000 mg/lit) Inlet to tertiarytreatment: (Flow: 72.1 CMD pH: 7-7.5, BOD: 80-100 mg/lit, COD 300-350 mg/lit, TSS: 50-100 mg/lit, TDS: 800-1000 mg/lit) Outlet from tertiarytreatment: (Flow: 72.1 CMD pH: 7-7.5, BOD: 30-50 mg/lit, COD 100-150 mg/lit, TSS: 50-100 mg/lit, TDS: 800-1000 mg/lit
38.Effluent Characteristics	C) Reverse Osmosis(RO):Inlet to RO (Flow: 52.4 CMD pH: 7-8, COD <250 mg/lit, TDS: 1500-2000 mg/lit) Reverse Osmosis(RO): Permeate (Flow: 39.3 CMD pH: 7-8, COD <100 mg/lit, TDS: <100mg/lit) Reverse Osmosis(RO): Reject (Flow: 13.1 CMD pH: 7-8, COD 600-700 mg/lit, TDS: 7500-8000 mg/lit)	C) Reverse Osmosis(RO):Inlet to RO (Flow: 72.1 CMD pH: 7-7.5, COD 100-150 mg/lit, TDS: 800-1000 mg/lit) Reverse Osmosis(RO): Permeate (Flow: 54.1 CMD pH: 7-7.5, COD <100 mg/lit, TDS: <100mg/lit) Reverse Osmosis(RO): Reject (Flow: 18 CMD pH: 7-7.5, COD 400-450 mg/lit, TDS: 3500-4000 mg/lit)
38.Effluent Characteristics	Amount of effluent generation (CMD): 33.8 CMD	Amount of effluent generation (CMD): 48.5 CMD
38.Effluent Characteristics	Capacity of the ETP: 63.0 CMD	Capacity of the ETP: 85 CMD
38.Effluent Characteristics	Amount of treated effluent recycled : 45.3 CMD	Amount of treated effluent recycled : 54.1 CMD
39.Hazardous Waste Details	1. Chemical Sludge fromETP- Cat. No 35.3 Existing 0 TPM, Proposed 17.16 TPM, Total 17.16 TPM, Disposal- CHWTSDF 2. MEE Solids- Cat. No 35.3 Existing 0 TPM, Proposed 140.688 TPM, Total 140.688 TPM, Disposal- CHWTSDF 3. Spent Carbon fromETP- Cat. No 36.2 Existing 0 TPM, Proposed 17.69 TPM, Total 17.69 TPM, Disposal- CHWTSDF 4. Carbon from process- Cat. No 28.3 Existing 0 TPM, Proposed 0.15 TPM, Total 0.15 TPM, Disposal- CHWTSDF 5. Waste from process (Chloro theophylline)- Cat. No 28.1 Existing 0 TPM, Proposed 0.06 TPM, Total 0.06 TPM, Disposal- CHWTSDF Non-Hazardous:- 7. Boiler ash - Cat. No -- Existing 0 TPM, Proposed 6.75 TPM, Total 6.75 TPM, Disposal- Send to brickmanufacturer	1. Chemical Sludge fromETP- Cat. No 35.3 Existing 0 TPM, Proposed 64 TPA, Total 64 TPA, Disposal- CHWTSDF 2. MEE Solids- Cat. No 35.3 Existing 0 TPA, Proposed 1352 TPA, Total 1352 TPA, Disposal- CHWTSDF 3. Spent Carbon fromETP- Cat. No 35.2 Existing 0 TPA, Proposed 22 TPA, Total 22 TPA, Disposal- CHWTSDF 4. Carbon from process- Cat. No 28.3 Existing 0 TPA, Proposed 4.12 TPA, Total 4.12 TPA, Disposal- CHWTSDF 5. Waste from process (Chloro theophylline)- Cat. No 28.1 Existing 0 TPA, Proposed 1.3 TPA, Total 1.3 TPA, Disposal- CHWTSDF 6. Process residue- Cat. No 20.3 Existing 0 TPA, Proposed 39 TPA, Total 39 TPA, Disposal- CHWTSDF 7. Spent Catalyst- Cat. No 28.2 Existing 0 TPA, Proposed 3 TPA, Total 3 TPA, Disposal- Regenerated from authorized re-processor 8. Spent Solvent- Cat. No 28.6 Existing 0 TPA, Proposed 44.5 TPA, Total 44.5 TPA, Disposal- Regenerated from authorized re-processor/CHWTSDF Non-Hazardous & Other waste:- 9. Boiler ash- Cat. No -- Existing 0 TPM, Proposed 25 TPA, Total 25 TPA, Disposal- Send to brickmanufacturer 10. Bio-medical waste -- Existing 0 TPM, Proposed 0.01 TPA, Total 0.01 TPA, Disposal- Authorized Biomedical Waste disposal facility.

52.Environmental Management plan Budgetary Allocation	b) Operation Phase (with Break-up): 1. Component- Air pollution control, Description: Provision of stacks ofheight as per CPCB, Multiple cycloneseparators, Capital cost Rs. InLacs: 20, Operational and Maintenance cost (Rs. in Lacs/yr.)- 1.2 2. Component- Water pollution control, Description: MEE,ETP& RO operation cost, Rain water harvesting, Capital cost Rs. InLacs: 200, Operational and Maintenance cost (Rs. in Lacs/yr)-136. 3. Component- Noise pollution Control, Description: Acoustic encl./ Ant vibration pads, Capital cost Rs. InLacs: Already included incapital cost of project, Operational and Maintenance cost (Rs. in Lacs/yr)- Already included in capital cost of project. 4. Component- Environmental Monitoring Budget, Description: Environmental Monitoring, Capital cost Rs. InLacs: --, Operational and Maintenance cost (Rs. in Lacs/yr)-36. 5. Component-Occupational Healthcare, Description: Medical checkup,Health insurance policy, Medical staff charges, First aid facilities, consumables Control of fugitive emissions Work Place monitoring, Capital cost Rs. InLacs: 5.0, Operational and Maintenance cost (Rs. in Lacs/yr)-1.0. 6.Component- Hazardous wasteStorage & disposal, Description:Storage, Transportation and disposal, Capital cost Rs. InLacs: 45.0, Operational and Maintenance cost (Rs. in Lacs/yr)-30. 7.Component- Green belt , Description: Development & Maintenance, Capital cost Rs. InLacs: 3.0, Operational and Maintenance cost (Rs. in Lacs/yr)- 1.2 Total: Capital cost Rs. InLacs: 273.0, Operational and Maintenance cost (Rs. in Lacs/yr)- 205.4	b) Operation Phase (with Break-up): 1. Component- Air pollution control, Description: Provision of stacks of height as per CPCB, Multiple cycloneseparators, Capital cost Rs. InLacs: 6, Operational and Maintenance cost (Rs. in Lacs/yr.)- 1 2. Component- Water pollution control, Description: MEE,ETP & RO operation cost, Rain water harvesting, Capital cost Rs. InLacs: 300, Operational and Maintenance cost (Rs. in Lacs/yr)-194. 3. Component- Noise pollution Control, Description: Acoustic encl./ Ant vibration pads, Capital cost Rs. InLacs: 1.0, Operational and Maintenance cost (Rs. in Lacs/yr)-1.0. 4. Component- Environmental Monitoring Budget, Description:Environmental Monitoring, Capital cost Rs. InLacs: --, Operational and Maintenance cost (Rs. in Lacs/yr)- 4.93 5. Component-Occupational Healthcare, Description: Medical checkup,Health insurance policy, Medical staff charges, First aid facilities, consumables Control of fugitive emissions Work Place monitoring, Capital cost Rs. InLacs: 4.0, Operational and Maintenance cost (Rs. in Lacs/yr)-3.0. 6. Component- Hazardous waste Storage & disposal, Description: Storage, Transportation and disposal, Capital cost Rs. InLacs: 1, Operational and Maintenance cost (Rs. in Lacs/yr)-82. 7.Component- Green belt , Description: Development & Maintenance, Capital cost Rs. InLacs: 1.0, Operational and Maintenance cost (Rs. in Lacs/yr)- 0.7 Total: Capital cost Rs. InLacs: 370, Operational and Maintenance cost (Rs. in Lacs/yr)- 292
54. Traffic Management	Parking details: Total Parking area: 769m2	Parking details: Total Parking area: 785m2

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 151st meeting of SEAC-1 held on 24.05.2018 wherein ToR was granted to the PP.

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.

Now PP submitted EIA/EMP report for appraisal.

DECISION OF SEAC

After detailed deliberatiosn with the PP and their accredited consultant , SEAC-1 decided to defer the proposal till submission of compliance of following points.

Specific Conditions by SEAC:

1) PP to remove parking proposed near explosive storage yard and submit revised layout.
2) PP to carryout life cycle analysis of all the products and include proposed mitigation measures to reduce environemntal impact.
3) PP to submit hazardous chemical handling protocol/SOP.
4) PP to collect additional smaple from river Banganga to analyse parameters of Dissolved Oxygen and E-coli.
5) PP to submit revised socio economic impact assessment report.
6) PP to include water and carbon footprint monitoring in the EMP.

FINAL RECOMMENDATION

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

159th (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 159th (A) - Day-1 **Meeting Date** February 1, 2019

Subject: Environment Clearance for Modernization of existing 15 MW (1 x 10 MW + 1 x 5 MW) Captive Power Plant and installation of new 1 x 16 MW WHRB based Captive Power Plant.

Is a Violation Case: No

1.Name of Project	Modernization of existing 15 MW (1 x 10 MW + 1 x 5 MW) Captive Power Plant and installation of new 1 x 16 MW WHRB based Captive Power Plant.
2.Type of institution	Private
3.Name of Project Proponent	Manikgarh Cement
4.Name of Consultant	Pollution & Ecology Control Services
5.Type of project	Industrial
6.New project/expansion in existing project/modernization/diversification in existing project	Modernization / New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	167,160,159,156, Post – Gadchandur, Korpana Chandrapur
9.Taluka	Korpana
10.Village	Post – Gadchandur
11.Area of the project	Gadchandur Nagar Parishad
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 2000
13.Note on the initiated work (If applicable)	Not Applicable, work will be initiated after receipt of Environmental Clearance and Consent to Establish
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	269.13 Ha. Out of this 4.65 Ha will be used for WHRB CPP
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.): 2000
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	1400000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Turbine Building	G + 2	20 m

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	About 60 no. users including workers & staff for modernization and new unit

25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Not Applicable
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Internal road of sufficient width are constructed for Fire Tender in case of emergency.
29.Existing structure (s) if any	Existing 15 MW Captive Power Plant & ESP
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	Power Plant	--	1 x 10 MW + 1 x 5 MW Coal Based	1 x 10 MW + 1 x 5 MW Coal Based
2	Power Plant	--	1 x 16 MW WHRB Based	1 x 16 MW WHRB Based

32.Total Water Requirement

Dry season:	**Source of water**	Amal Nala Dam Wardha River
	Fresh water (CMD):	420
	Recycled water - Flushing (CMD):	1
	Recycled water - Gardening (CMD):	5
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	700
	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**	Amal Nala Dam Wardha River
	Fresh water (CMD):	420
	Recycled water - Flushing (CMD):	1
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	695
	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	3	3	0	0.6	0.6	0	2.4	2.4
Industrial Process	0	110	110	0	10	10	0	90	90
Cooling tower & thermopack	0	587	587	0	410	410	0	177	177
Gardening	0	5	5	0	5	5	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Will be elaborated in final EIA report
	Size and no of RWH tank(s) and Quantity:	The rain water harvesting is already done in the existing Cement Plant and the detailed study of the same will be given in the EIA Report.
	Location of the RWH tank(s):	Will be elaborated in final EIA report
	Quantity of recharge pits:	Will be elaborated in final EIA report
	Size of recharge pits :	Will be elaborated in final EIA report
	Budgetary allocation (Capital cost) :	--
	Budgetary allocation (O & M cost) :	--
	Details of UGT tanks if any :	The UGT tanks are already constructed in the existing plant for the storage of water required for fire fighting services.

35.Storm water drainage	**Natural water drainage pattern:**	The storm water drains are already constructed alongwith the boundary of the existing Cement Plant.
	Quantity of storm water:	Will be elaborated in final EIA report
	Size of SWD:	Will be elaborated in final EIA report
Sewage and Waste water	**Sewage generation in KLD:**	2.4 KLD
	STP technology:	MBBR (Extended aeration system)
	Capacity of STP (CMD):	1no. 2300 CMD
	Location & area of the STP:	Within the plant premises
	Budgetary allocation (Capital cost):	65.00 Lakhs
	Budgetary allocation (O & M cost):	12.00 Lakhs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction waste debris
	Disposal of the construction waste debris:	There is no major civil construction to be carried out for this project.
Waste generation in the operation Phase:	**Dry waste:**	Fly Ash – 178.5 TPD
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Fly Ash will be sent to the existing Cement Plant by Dense Phase Pneumatic Conveyor System.
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be Used as Manure
	Others if any:	NA
Area requirement:	**Location(s):**	will be within the plant site
	Area for the storage of waste & other material:	--
	Area for machinery:	--
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	--
	O & M cost:	--

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):		268			
Capacity of the ETP:		268			
Amount of treated effluent recycled :		268			
Amount of water send to the CETP:		Not Applicable			
Membership of CETP (if require):		Not Applicable			
Note on ETP technology to be used		Not Applicable			
Disposal of the ETP sludge		Not Applicable			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	15 MW CPP	5.1	lit/day	--	1.0	1.0	Authorized recycler

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	CPP	425 mt/day	1	66 m	1.7 m	140 degree Celsius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	--	425 mt/day	425 mt/day
41.Source of Fuel		WCL		
42.Mode of Transportation of fuel to site		Tarpaulin Covered Trucks/Rail		

43.Green Belt Development	**Total RG area :**	90000 sq mt
	No of trees to be cut :	0
	Number of trees to be planted :	5000
	List of proposed native trees :	Acasia, Neem, Gulmohar, Karanj, Peltaphorum, Tikoma
	Timeline for completion of plantation :	2017-2018

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	Acasia	Acasia	900	semi-deciduous
2	Azardirachta indica	Neem	750	deciduous
3	Delonix Regia	Gulmohar	750	deciduous
4	Millettia pinnata	Karanj	800	deciduous
5	Peltophorum africanum	Peltaphorum	900	semi-deciduous

6	Tecoma stans	Tikoma	900	deciduous
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 :**	CPP
	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):	3.1 MW
	Transformer:	NA
	DG set as Power back-up during operation phase:	NA
	Fuel used:	NA
	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
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	--	--	--

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	The efficiency of the existing ESP will be increased	200	10
2	Water Pollution Control	ETP	25	5
3	Solid Waste Management	Dense Phase Pneumatic Conveyor System	20	05
4	Green Belt	Plantation	05	0.50
5	Environmental Monitoring	Monitoring of Air, Water, Noise Quality	100	10

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
H2SO4	--	Plant	30 MT	20 MT	3 MT	Authorized Dealer	Tanker
HCL	--	Plant	15 MT	12 MT	4 MT		Tanker

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:	The parking area being used for Existing Cement Plant will be utilized
	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):	9 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	1 (d)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	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 isused by MoEF & CC published in April, 2015 during 140th meeting of SEAC-1 held on 20.07.2017 wherein ToR was granted along with additonal points.

PP has obtianed earleir EC vide No. SEAC-2016/CR-242/TC-1 dated 12.05.2017. PP has obtained certified compliance from Regional Office of MoEF&CC , Nagpur.

Public Hearing is applicable as per EIA Notification, 2006.

Public Hearing was conducted on 04.07.2018.

DECISION OF SEAC

After detailed deliberations with the PP and their accredited consultant, SEAC-1 decided to defer the proposal till PP submits complaince of following points.

Specific Conditions by SEAC:

1) PP to submit revised compliance of point No. 1 of additional ToR grnated on 20.07.2017.
2) PP to submit point wise compliance of issues raised during the Public Consultation process indicating propsed action plan along with cost and timelines.
3) PP to submit details of CER plan prepared in consultation with District Authority as per OM dated 01.05.2018.
4) PP to submit undertaking for construction of cement road connectiong plant site and highway to ensure smooth and safe transportation of vehicles. PP to ensure construction of road with specifications so as to bear adequate load capacity of the transporting vehicles.
5) PP to plant doemstic/ indigenous tree species in propsed green belt development. PP to submit list of trees.

FINAL RECOMMENDATION

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