168th Meeting of State Level Expert Appraisal Committee – 1 (SEAC – 1) (Day – 1)

SEAC Meeting number: 168 **Meeting Date** August 26, 2019

The proposal of M/s Mehta Pharmaceutical was considered in the meeting as per note received from the SEIAA.
During meeting PP requested to consider the same in next upcoming meeting.
SEAC-1 decided to consider the proposal in next meeting.

168th Meeting of State Level Expert Appraisal Committee – 1 (SEAC – 1) (Day – 1)

SEAC Meeting number: 168 **Meeting Date** August 26, 2019

Subject: Environment Clearance for M/s Glenfin Chemicals Pvt. Ltd

Is a Violation Case: No

1.Name of Project	M/s Glenfin Chemicals Pvt. Ltd
2.Type of institution	Private
3.Name of Project Proponent	M/s Glenfin Chemicals Pvt. Ltd Mr. S. Akhileshwaran
4.Name of Consultant	M/s SGM Corporate consultant Pvt Ltd
5.Type of project	Synthetic chemical Industry
6.New project/expansion in existing project/modernization/diversification in existing project	expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Plot No. T-127, MIDC Tarapur, Boisar, Tal &Dist.: Palghar.
9.Taluka	Palghar
10.Village	Tarapur
Correspondence Name:	1) Mr. J.L. Gupta & 2) Mr. S. Akhileshwaran
Room Number:	1
Floor:	G
Building Name:	M/s Glenfin Chemicals Pvt. Ltd
Road/Street Name:	Plot No 127
Locality:	Tarapur MIDC
City:	Boisar
11.Whether in Corporation / Municipal / other area	MIDC Tarapur
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 4738.45
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.)	3397.50
16.Deductions	00
17.Net Plot area	3397.50
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 00
	b) Non FSI area (sq. m.): 00
	c) Total BUA area (sq. m.): 4738.45
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 4738.45
	Approved Non FSI area (sq. m.): 00
	Date of Approval: 01-03-2019
19.Total ground coverage (m2)	1650.00
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	49.50
21.Estimated cost of the project	300000000

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	NA
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)	18.30
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	2 –Phenylacetophenone	-	2.0	2.0
2	5,5-Dimethylcyclohexane-1,3dione	-	2.0	2.0
3	5,6-Dihydro-3-(4-morpholinyl)-1-[4-(2- oxo-1-piperidinyl)phenyl]-2(1H)-pyridinone	-	2.0	2.0
4	3 – Chloro -1- (4 –nitrophenyl)-5 ,6 –dihydro -2 (1H) -pyridinone	-	2.0	2.0
5	Ethyl chloro[(4-methoxyphenyl)hydrazono]acetate	-	1.0	1.0
6	3 –Ethoxy-4 – methoxybenzaldehyde	-	2.0	2.0
7	3 –Ethoxy-4 – methoxybenzonitrile	-	2.0	2.0
8	1-(3-Ethoxy-4-methoxyphenyl)-2-(methylsulofonyl)ethan-1-amine	-	2.0	2.0
9	3 -Aminophthalic acid	-	2.0	2.0
10	3 – Acetylaminophthalic anhydride	-	2.0	2.0
11	2-Chloro ,1,4-Naphthoquinone	-	6.0	6.0
12	Dihydropapaverine hydrochloride	-	1.0	1.0
13	Tetrahydropapaverine hydrochloride	-	2.0	2.0
14	4 –Methylamino-3-Nitro benzoic caid	-	6.0	6.0
15	Ethyl-3-(pyridine-2ylamino) propanoate	-	6.0	6.0
16	Ethyl-3-[(Amino-4-methylaminobenzoyl) pyridine-2-ylamino] propionate	-	4.0	4.0
17	N-(4-Cyanophenyl Glycine)	-	5.0	5.0
18	4- Hydrazino Benzoic Acid	-	6.0	6.0
19	2-(2-Hydroxyphenyl) -4H-1,3- benzoxazin-4-one	-	2.0	2.0
20	5-(4-Flurophenyl)-5-oxopentanoic acid	-	10.0	10.0
21	3-[5-(4-Fluorophenyl)-1,5 – dioxophenyl] -4 –phenyl-(4S) -2-oxazolidinone	-	2.0	2.0
22	4-(4-Hydroxybenzylidine) fluoroaniline	-	2.0	2.0

23	4 -(4-Benzyloxy benzylidine) Fluoro aniline	-	2.0	2.0
24	4 –Benzyloxy- N,N-Dimethyl phenyl acetamide	-	2.0	2.0
25	4-Anilino-1-Benzyl-4-Piperidine Carboxylic Acid	-	2.0	2.0
26	2 - Amino - 3 - Benzyloxy - Pyridine	-	2.0	2.0
27	9- Benzyloxy -3-(2-chloroethyl)-2-methyl-4H-pyrido[1,2-a] pyrimidin-4 -one	-	2.0	2.0
28	6 – methyl -2-(4-methylphenyl) imidazo[1,2-a] pyridine – 3 -acetic acid	-	1.0	1.0
29	5-(4-Bromophenyl) -4,6 - dichloropyrimidine	-	1.0	1.0
30	5-Bromo -2-chloropyrimidine	-	2.0	2.0
31	2-Hydroxy-1,4-Naphthoquinone	-	2.0	2.0
32	1-Benzyl-4-piperidoneisonipecotamide	-	2.0	2.0
33	N –methyl -4- chloropyridine- 2-carboxamide	-	2.0	2.0
34	N –methyl -4- chloropyridine- 2-carboxamide. HCl	-	2.0	2.0
35	4 –(4 –Amino-3-Fluorophenoxy) – N-methylpyridine-2-carboxamide	-	2.0	2.0
36	4 –(4 –Aminophenoxy) – N-methyl picolinamide	-	2.0	2.0
37	4-Iodo, 2,6-dimethylaniline	-	4.0	4.0
38	E)-3-(4-Amino-3,5-dimethylphenyl)acrylonitrile HCL	-	2.0	2.0
39	4- (4-Chloro- 2-pyrimidinyl) amino benzonitrile	-	2.0	2.0
40	Methyl -1-methylpyrrole-2-acetate	-	2.0	2.0
41	2 –Ethoxybenzonitrile	-	2.0	2.0
42	2 – Ethoxybenzamidine hydrochloride	-	2.0	2.0
43	2 – Butyrylaminopropionic acid	-	2.0	2.0
44	6 – methyl -2-(4-methylphenyl) imidazo [1,2-a] pyridine	-	2.0	2.0
45	6-Methyl-2-(4-methylphenyl)imidazo[1,2-a]pyridine-3-acetonitrile	-	4.0	4.0
46	6-Methyl-2-(4-methylphenyl)imidazo[1,2-a]pyridine-3-acetic acid	-	4.0	4.0
47	4-(4-hydroxyphenyl) heptan-1,3 dione	-	10.0	10.0
48	2-Chloro-1-Dimethyl aminopropane HCL	-	6.0	6.0
49	Diphenyl Acetonitrile	-	10.0	10.0
50	4- Bromo-2,2-Diphenyl butyronitrile	-	4.0	4.0
51	Ethyl N - Hydroxyacetoimidiate	-	5.0	5.0
52	Ethyl 3-[{3-amino-4-(methyl amino) phenyl carbonyl}(pyridin-2-yl) amino] propanoate	-	1.0	1.0
53	4 - Phenyl -1 - (P - tolylsulphonyl) piperidine - 4 - Carboxylic acid	-	6.0	6.0
54	(By products) Polyaluminium Chloride (PAC) Solution	-	198.0	198.0
55	(By products) Tetrahydrofuran Solution	-	40.2	40.2
56	(By products) Sodium Bromide solvent	-	10.8	10.8

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	00	5.0	5.0	00	1.0	1.0	00	4.0	4.0
Industrial Process	00	20.0	20.0	00	00.0	00	00	20.0	20.0
Cooling tower & thermopack	00	23.0	23.0	00	21.0	21.0	00	2.0	2.0
Gardening	00	5.0	5.0	00	5.0	5.0	00	00	00

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	6.0 to 8.0 m
	Size and no of RWH tank(s) and Quantity:	20 cum
	Location of the RWH tank(s):	Below ground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	3.0 Lakhs
	Budgetary allocation (O & M cost) :	0.50 Lakhs
	Details of UGT tanks if any :	100 cum & 100 cum for fire fighting
35.Storm water drainage	**Natural water drainage pattern:**	MIDC drain
	Quantity of storm water:	0.06 cum/sec
	Size of SWD:	300 x 400 mm
Sewage and Waste water	**Sewage generation in KLD:**	4.0
	STP technology:	Septik Tank
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	4.0 Lakhs
	Budgetary allocation (O & M cost):	0.50 Lakhs
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:**	25 kg/day
	Wet waste:	20 kg /day
	Hazardous waste:	Given below
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	handed over to Local authority
	Wet waste:	handed over to Local authority
	Hazardous waste:	CHWTSWF
	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	pH	NA	5.5-6.5	6.5-7.5	5.5-9.0
2	BOD	mg/lit	4275-6458	90.0	100
3	COD	mg/lit	8500-11410	194	250
4	SS	mg/lit	1000-1250	80.0	100

Amount of effluent generation (CMD):	22 cum
Capacity of the ETP:	40 cum
Amount of treated effluent recycled :	5.0 cum
Amount of water send to the CETP:	20 cum
Membership of CETP (if require):	Yes. However, we will Zero Liquid discharge till operation of New CETP.
Note on ETP technology to be used	Tertiary Treatment
Disposal of the ETP sludge	CHWTSWF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Waste Residues	28.1	TPM	00	0.800	0.800	CHWTSWF
2	ETP Sludge	34.3	TPM	00	0.400	0.400	CHWTSWF
3	Discarded Containers	33.3	No	00	150	150	Approved MPCB Vendor
4	Spent solvent	20.2	TPM	00	0.500	0.500	CHWTSWF
5	Off Specification Products	28.2	TPM	00	0.400	0.400	CHWTSWF

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler	FO/LDO	01	20	0.4	120

2	Scrubber	NA	04	12	0.15	35
3	D,G set	HSD	01	4.5	0.1	90

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	FO/LDO	00	700 lit/hr	700 lit/hr
41.Source of Fuel		Local Vendor		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	625 sq.m
	No of trees to be cut :	NA
	Number of trees to be planted :	45
	List of proposed native trees :	Enclosed
	Timeline for completion of plantation :	Enclosed

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	Sarca indica	Ashoka	10	arge size , shady, tree.
2	Azadirachta indica	Neem	05	Semi - evergreen / shady tree with medicinal value
3	Roystonesa regia	Royal Palm	08	Ornamental Plant
4	Michelia champaca	Sonchafa	05	Medium size evergreen tree. Fragrant yellow flowers, butterfly host plant.
5	Nyctanthes Arbor-tristis	Parijatak	05	Flowery tree, the seeds, leaves and flowers all have medicinal value
6	Jacaranda Mimosifolia	Jacaranda	05	Deciduous tree, spreading type with purple flowering
7	Mangifera indica	Aam	03	State tree of maharashtra , greening & popular edible fruits, medicinal & butterfly host 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	Annexue	Annexue	Annexure

47.Energy

Power requirement:	**Source of power supply :**	MSEB
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	600 KW
	During Operation phase (Demand load):	360 KVA
	Transformer:	400 KVA
	DG set as Power back-up during operation phase:	250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

LED lights, Energy efficient motors etc

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED lights, Energy efficient motors etc	12 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Effluent Generation	Effluent Treatment Plant	Evaporator
Emission from process	Scrubber	Scrubber
Noise	Acoustic enclosure	Acoustic enclosure
Hazardous waste	CHWTSDF	CHWTSDF

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	5.0 Lakhs
	O & M cost:	0.50 Lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution control	PM-10, PM-2.5, Sox, NoX etc	18.0	2.50
2	Water Pollution control	pH, BOD, COD, SS etc	75.0	10.20
3	Noise	Noise	10.0	10.0
4	Hazrdous waste	Soil conatmination	3.0	3.0
5	Rain water Harvesting	Water conservation	3.0	0.50
6	Occupation Health & safety	Safety	25.0	2.0
7	Green belt	Plantation	10.0	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
Annexure	Annexure	Annexure	Annexure	Annexure	Annexure	Annexure	Annexure

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	02
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	200 sq.m
	Area per car:	12.5 sq.m
	Area per car:	12.5 sq.m
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	08
	Public Transport:	Bus, Autorickshaw, Train
	Width of all Internal roads (m):	6.0
	CRZ/ RRZ clearance obtain, if any:	NA

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	5.0 KM
	Category as per schedule of EIA Notification sheet	5 f (B1)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	04-02-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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

The proposal was considered in the 165th meeting of SEAC-1 held on 04.05.2019 where in following decision was taken,

"PP propsoes to expand their manufacturing facility on the MIDC plot having area of 3397.5 Sq.mtrs.

During deliberations it was observed that, the total plot area is 3397.50 Sq.mtrs. PP has proposed about 509.00 Sq.m. as a green belt within the plot area which approximately comes to 15% of the total plot area. As per OM issued by MoEF&CC dated 09.08.2018 it is mandatory to provide 33% green belt having 5 meter width along the periphery of the plot.

SEAC-1 is of the opinon that, PP can not comply with the condition of 33% green belt within the plot area. Hence, SEAC-1 decided to refer the proposal for rejection to the SEIAA."

The SEIAA considered the proposal in their 171st meeting wherein SEIAA referred back proposal to SEAC-1 with following remarks,

"PP represented their case during SEIAA meeting. PP is proposing change in product mix without incresing plot area i.e, 3397.50 Sq.m. PP stated that, they are providing about 509 Sq.m. within plot boundary along with periphery & road side. MIDC has also alloted them about 2500 Sq.m. land through vide letter dated 04.02.19 for fulfillment of 33% greenbelt requirements as per MOEFCC OM dated 09.08.2018.

"In light of above submission, SEIAA decide to refer back the proposal to SEAC-1 for reconsideration.

In view of above SEAC-1 considered the proposal.

DECISION OF SEAC

During deliberations, PP requested to postpone the case.

Hence, deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

168th Meeting of State Level Expert Appraisal Committee – 1 (SEAC – 1) (Day – 1)

SEAC Meeting number: 168 **Meeting Date** August 26, 2019

Subject: Environment Clearance for Environment Clearance for Proposed project for expansion in manufacturing capacity of existing products and addition of new products under the category of synthetic resins (under the activity of synthetic organic chemicals industry (5f) as per EIA notification of September 2006. The products (Synthetic Resins) are under Category Orange as per CPCB directions no. 8-29012l ESS(CPA)l 2015-16/ Dt. 07.03.2016) at existing unit of SUPREME PETROCHEM LTD, located at notified industrial zone, Village – A

Is a Violation Case: No

1.Name of Project	Proposed project for expansion in manufacturing capacity of existing products and addition of new products under the category of synthetic resins (under the activity of synthetic organic chemicals industry (5f) as per EIA notification of September 2006. The products (Synthetic Resins) are under Category Orange as per CPCB directions no. 8-29012l ESS(CPA)l 2015-16/ Dt. 07.03.2016) in notified industrial zone at Village – Amdoshi-Wangani, Wakan-Roha Road, Taluka-Roha, District-Raigad, Maharasht
2.Type of institution	Private
3.Name of Project Proponent	Mr. K. V. Mujumdar Vice President , SUPREME PETROCHEM LTD
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Industrial - Manufacturing of synthetic resins
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in capacity of existing products with addition of new products
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No. As there was no expansion after EIA notification of Sep. 2006, it was not applicable.
8.Location of the project	Village Amdoshi/Wangani, Wakan-Roha Road, Tal. Roha, Dist. Raigad, Maharashtra 402106
9.Taluka	Roha, District: Raigad
10.Village	Amdoshi/Wangani
Correspondence Name:	Mr. K. V. Mujumdar – Vice President
Room Number:	SUPREME PETROCHEM LTD
Floor:	--
Building Name:	--
Road/Street Name:	At Village Amdoshi/Wangani, Wakan-Roha Road, Tal. Roha, Dist. Raigad,
Locality:	Maharashtra 402106
City:	Nagothane
11.Whether in Corporation / Municipal / other area	Notified industrial zone
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 251143
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.)	756886 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.):** 30767
	b) Non FSI area (sq. m.): 00
	c) Total BUA area (sq. m.): 30767
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: 17-08-2019
19.Total ground coverage (m2)	97563

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	12.89 %
21.Estimated cost of the project	9821700000

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	9m
29.Existing structure (s) if any	Yes. Existing manufacturing unit.
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	1a. General Purpose Polystyrene (GPPS), High Impact Polystyrene (HIPS), Styrene Methyl Methacrylate (SMMA) 1b. Acrylonitrile Butadiene Styrene (ABS), Styrene Acrylonitrile (SAN), Polymethyl Methacrylate (PMMA)	275000 MT/A	200000 MT/A	475000 MT/A
2	Expandable Polystyrene (EPS)	50000 MT/A	150000 MT/A	200000 MT/A
3	Extruded polystyrene (XPS)	10000 MT/A	10000 MT/A	20000 MT/A

4	Specialty Grades/ Compounds/ Master Batches of Thermoplastics & Elastomers	40000 MT/A	100000 MT/A	140000 MT/A
5	Total	375000 MT/A	460000 MT/A	835000 MT/A
6	Product of Sr. No. 1, 1b is a new product & existing quantity mentioned is of 1a, which is existing product.	-	-	-

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	34	7	41	7	1	8	27	6	33
Industrial Process	285	790	1075	4	9	13	281	781	1062
Cooling tower & thermopack	1106	2069	3175	824	1541	2365	282	528	810
Gardening	300	150	450	300	150	450	-	-	-
Fresh water requirement	1725	3016	4741	1135	1701	2836	590	1315	1905
Industrial Process	Recycle water = Evaporator Steam condensate + RO permeate	-	-	-	-	-	-	-	1348
Domestic	STP recycled water	-	33	-	-	-	-	-	-
Industrial Process	Total Recycle water	-	1381	-	-	-	-	-	-
Fresh water requirement	-	-	3360	-	-	-	-	-	-

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5-10 m
	Size and no of RWH tank(s) and Quantity:	Rain water is collected in existing lagoon of capacity 3070 m3 Quantity - 132.18 m3/month in rainy season from roof top.
	Location of the RWH tank(s):	Near ETP and Near Water Reservoir
	Quantity of recharge pits:	Not applicable as collected water will be reused.
	Size of recharge pits :	Not applicable as collected water will be reused.
	Budgetary allocation (Capital cost) :	Already existing
	Budgetary allocation (O & M cost) :	25000/Annum
	Details of UGT tanks if any :	No underground tanks

35.Storm water drainage	**Natural water drainage pattern:**	Adequate and separate storm water drains are already provided as per natural slopes.
	Quantity of storm water:	The storm water drains are capable of handling 38333 m3/hr. i.e. 10.65 m3/s of storm water with maximum rainfall intensity of 125 mm of rain fall per hour.
	Size of SWD:	Trapezoidal Shape: Top 3.4 m, Bottom 0.4 m, Effective Depth 2.0 m

Sewage and Waste water	**Sewage generation in KLD:**	33 KLD
	STP technology:	STP comprising of conventional treatment process (Biological oxidation and tertiary treatment).
	Capacity of STP (CMD):	1 No. of 50 CMD
	Location & area of the STP:	Near existing ETP and area of STP is 90 m2
	Budgetary allocation (Capital cost):	40 Lakhs
	Budgetary allocation (O & M cost):	7.3 Lakhs/Annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Negligible
	Disposal of the construction waste debris:	Within premises in low lying area
Waste generation in the operation Phase:	**Dry waste:**	Hazardous Waste: • Spent Catalyst and molecular sieves (Spent Activated Alumina and Carbon Molecular sieves): 300 TPA • Empty (woven PP bags, paper) bags of additives: 80 TPA • Spent ion exchange resin containing toxic metal generated at softener unit: 1.0 TPA • ETP Sludge: 841 TPA • Filter bags / cloth: 45 TPA • Evaporator salts: 988 TPA • Spent carbon from ETP: 75 TPA • Insulation Waste: 40 TPA • Cotton Waste: 50 TPA • Process residue: 3317 TPA, Non-Hazardous Waste:: • Wooden Scra
	Wet waste:	Hazardous Waste: • Used / Spent Oil from normal generation: 31.3 TPA • Used / Spent Oil from replacement of thermic fluid: 220 MT (once in three years) • Spent solvents: 1000 Lit/A • Spent acid from batteries: 100 Lit/A
	Hazardous waste:	• Spent Catalyst and molecular sieves (Spent Activated Alumina(from Styrene purification) and Carbon Molecular sieves (from nitrogen plant): 300 TPA • Empty bags (woven PP bags, paper) of additives: 80 TPA • Spent ion exchange resin containing toxic metal generated at softener unit: 1 TPA • ETP Sludge: 841 TPA • Filter bags / cloth: 45 TPA • Evaporator salts: 988 TPA • Spent carbon from ETP: 75 TPA • Insulation Waste: 40 TPA • Cotton Waste: 50 TPA • Process residue: 3317 TPA • Used / Spent Oil
	Biomedical waste (If applicable):	24 Kg/Annum
	STP Sludge (Dry sludge):	3 TPA, STP sludge will be used as manure within premises
	Others if any:	• E-waste = 8.3 TPA • Battery waste = 2.0 TPA
Mode of Disposal of waste:	**Dry waste:**	MPCB authorized waste recyclers and MPCB authorized E-Waste Recyclers
	Wet waste:	CHWTSDF/ Sale to authorized Recyclers
	Hazardous waste:	CHWTSDF / Sale to authorized Recyclers
	Biomedical waste (If applicable):	Bio medical Waste treated at common BMW Disposal facility Authorized by MPCB.
	STP Sludge (Dry sludge):	3 TPA, Manure for gardening
	Others if any:	MPCB authorized waste recyclers and authorized E-Waste Recyclers

Area requirement:	**Location(s):**	Near Process Plant and Near ETP
	Area for the storage of waste & other material:	Area for the storage of Hazardous waste 921.78 Sq. m.
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	340 Lakhs
	O & M cost:	1100 Lakhs/Annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	5.5-6.5	7.0-7.5	7.0-7.5
2	BOD3, 27°C	mg/lit	350-500	20-30	< 100
3	COD	mg/lit	750-1000	80-100	< 250
4	TSS	mg/lit	200-300	80-100	< 100
5	TDS	mg/lit	1400-1600	900-1100	< 2100
6	Note: Trade effluent from proposed activity will be treated in proposed ETP comprises of conventional ETP treatment followed by RO & Evaporators. After treatment from RO & Evaporators treated water will be reused & recycled.	--	--	--	--

Amount of effluent generation (CMD):	Existing – 563 CMD + Proposed 1309 CMD Total = 1872 CMD
Capacity of the ETP:	Existing ETP- 752 m3, Proposed ETP- 1000 m3
Amount of treated effluent recycled :	1381 CMD
Amount of water send to the CETP:	Water is not sent to CETP. SPL has its own Effluent Treatment Plant of 752 CMD capacity with Primary, Secondary and Tertiary treatment.
Membership of CETP (if require):	No
Note on ETP technology to be used	Existing trade effluent of 563 CMD is being treated in existing ETP of 752 CMD capacity & as per existing Consent condition treated trade effluent is being recycled/ reused into process, cooling tower make up, firefighting & for utility purposes to the maximum extent and remaining is being applied on land for gardening within premise during non-Monsoon period / discharged into Amba River Estuary during Monsoon period. Trade effluent from proposed activity will be 1309 CMD and it will be treated
Disposal of the ETP sludge	Chemical sludge for WWT = 841 MT/A, Evaporator Salts = 988 MT/A, Spent carbon = 75 MT/A will be sold to authorized parties/ disposed to CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Catalyst and molecular sieves (Spent Activated Alumina and Carbon Molecular sieves	1.6	TPA	200	100	300	Sale to Authorized Parties / CHWTSDF

2	Used / Spent Oil from normal generation	5.1	TPA	6.3	25	31.3	Sale to Registered Recyclers / Re-processers.
3	Used / Spent Oil from replacement of thermic fluid	5.1	MT (Once in three years)	110	110	220	Sale to Registered Recyclers / Re-processers.
4	Spent solvents	20.2	Lit/Annum	500	500	1000	Used for live fire drills / training at fire drill ground.
5	Empty bags (woven/PP/PE/Paper bags) of additives.	33.1	TPA	20	60	80	Sent to CHWTSDF
6	Spent ion exchange resin containing toxic metal generated at softener unit	35.2	TPA	0.2	0.8	1.0	Replenished / sent to supplier / Sent to CHWTSDF
7	ETP Sludge	35.3	TPA	30	811	841	Sent to CHWTSDF
8	Process residue	22.2	TPA	830	2487	3317	Sale to Authorized Parties / CHWTSDF
9	Filter bags / cloth	33.1	TPA	30	15	45	Sent to CHWTSDF
10	Evaporator salts	35.3	TPA	--	988	988	Sale to Authorized Parties / CHWTSDF
11	Spent carbon from ETP	35.3	TPA	--	75	75	Sale to Authorized Parties / CHWTSDF
12	Spent acid from batteries	9.3	Lit/Annum	50	50	100	Treated at ETP
13	Insulation Waste	Not Specified	TPA	20	20	40	Sent to CHWTSDF
14	Cotton Waste	33.2	TPA	25	25	50	Sent to CHWTSDF
15	Sludge from treatment of waste water arising out of cleaning / disposal of barrels/ containers	34.2	TPA	Quantity included under Sr. no.6, category 35.3, since it is collected at SDBs	-	-	Sent to CHWTSDF
16	Other Waste	-	-	-	-	-	-
17	E-waste	Not Specified	TPA	2.8	5.5	8.3	MPCB authorized E-Waste Recyclers
18	Battery waste	Not Specified	TPA	0	2.0	2.0	MPCB authorized Battery Recyclers
19	Bio-medical waste	Not Specified	TPA	0.012	0.012	0.024	Bio medical Waste treated at common BMW Disposal facility Authorized by MPCB.
20	Non- Hazardous waste	-	-	-	-	-	-
21	Wooden Scrap	Not Specified	TPA	450	200	650	Sale as Scrap
22	Metallic Scrap	Not Specified	TPA	415	400	815	Sale as Scrap
23	Non-metallic Scrap	Not Specified	TPA	85	200	285	Sale as Scrap

24	Paper	Not Specified	TPA	25	200	225	Sale as Scrap
25	Glassware	Not Specified	TPA	1	1	2	Sale as Scrap
26	Decontaminated containers / Carboys	Not Specified	Nos./ Annum	7000	8000	15000	Used for collection of in process samples / plantation / sale or sent to CHWTSDF
27	Ash from chimney cleaning / fire pit	Not Specified	TPA	11.5	10.53	22.03	Sale to Brick Manufacturer/ cement industry
28	STP sludge	Not Specified	TPA	--	3	3	Will be used as manure

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 3 no. of Thermic fluid heaters (Each of 1000000 Kcal/hr.)	FO: 6.80 TPD/ Hydrocarbon Purge: 1.80 TPD/ LPG: 36 kg/day /Natural Gas: 10002 KL/D	1	40 (combined for existing 3 nos. of thermic fluid heaters of 1000000 Kcal/hr. each & proposed thermic fluid heaters of 1000000 Kcal/hr.)	0.58	160°C
2	Proposed: 1 new Thermic fluid heater (of capacity 1000000 Kcal/Hr.)	FO: 2.74 TPD/ Hydrocarbon Purge: 0.90 TPD/ LPG: 18 kg/day/ Natural Gas: 3281 KL/D	1	40 (combined for existing 3 nos. of thermic fluid heaters of 1000000 Kcal/hr. each & proposed thermic fluid heaters of 1000000 Kcal/hr.)	0.58	160°C

3	Existing 1 no. of Thermic fluid heater (1300000 Kcal/hr.)	FO: 2.86 TPD/ Hydrocarbon Purge: 1.20 TPD /LPG: 18 kg/day /Natural Gas: 4722 KL/D	1	35 (Combined for existing 1 nos. of thermic fluid heater of 1300000 Kcal/hr. & proposed thermic fluid heater of 1300000 Kcal/hr.)	0.33	160°C
4	Proposed: 1 new Thermic fluid heater (of capacity 1300000 Kcal/Hr.)	FO: 3.52 TPD/ Hydrocarbon Purge: 0.90 TPD/ LPG: 18 kg/day/ Natural Gas: 4206 KL/D	1	35 (Combined for existing 1 nos. of thermic fluid heater of 1300000 Kcal/hr. & proposed thermic fluid heater of 1300000 Kcal/hr.)	0.33	160°C
5	Existing Boiler (6.3 TPH)*	FO: 13 TPD/ Natural Gas: 15460 KL/D	1	42	0.62	160°C
6	Existing DG set (2250 KVA)	HSD: 69 kg/hr	1	32	0.56	160°C
7	Existing DG set (2250 KVA)	HSD: 69 kg/hr	1	32	0.56	160°C
8	Proposed: Boiler (6.3 TPH)	FO: 13 TPD/ Natural Gas: 15460 KL/D	1	42	0.62	160°C
9	Proposed: Boiler (3.0 TPH)	FO: 5.78 TPD/ Natural Gas: 6919 KL/D	1	35	0.33	160°C
10	Note: *Existing Boiler (6.3 TPH) was operated at 3.18 TPH - FO: 6.56 TPD/ Natural Gas: 7612 KL/D, proposed utilization of remaining capacity of 3.12 TPH - FO: 6.44 TPD /Natural Gas: 7848 KL/D	-	-	-	-	-
11	Note: Existing boiler of 1.7 TPH will be dismantled	-	-	-	-	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	FO (TPD)	16	32	48

2	Hydrocarbon Purge (TPD)	3	2	5
3	LPG (Kg/D)	54	36	90
4	Natural Gas (KL/D)	22336	37714	60050
5	HSD (TPD)	3.31	0	3.31
41.Source of Fuel		Local		
42.Mode of Transportation of fuel to site		By Road & Through Pipeline		

43.Green Belt Development	**Total RG area :**	254600 Sq. m. (33.64% of total plot area)
	No of trees to be cut :	Nil
	Number of trees to be planted :	There are around 39490 nos. of trees are already planted at the site.
	List of proposed native trees :	--
	Timeline for completion of plantation :	Not applicable

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Not applicable	Not applicable	Not applicable	Not applicable
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 KW (welding m/c, grinding m/c, drill m/c, concrete mixer, construction lift, power)
	DG set as Power back-up during construction phase	Existing 2 DG sets of capacity 2250 KVA each.
	During Operation phase (Connected load):	Existing connected load – 16654 KWh, Proposed connected load- 20570 KWh, Total connected load- 37224 KWh
	During Operation phase (Demand load):	Existing demand load-6500 KWh, Proposed demand load-8456 KWh, Total demand load-14956 KWh
	Transformer:	2 no. of 20 MVA each
	DG set as Power back-up during operation phase:	2 DG sets of capacity 2250 KVA each
	Fuel used:	HSD 69 kg/hr x 2 =138 kg/hr. at full load for both DG sets
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

SPL proposes roof top solar system on following buildings: Main Substation/PS Control room/EPS Control Room/EPS Substation/ Ware house.
The total capacity proposed is Approx. 1000 kWp

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Power	Approx. 1000 kWp

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Stack of adequate height	Stack of adequate height
Water	ETP	ETP, RO & Evaporator
Noise	Acoustic enclosure for DG set	Acoustic enclosures for high noise equipment
Solid Waste	Disposal to CHWTSDF	Disposal to CHWTSDF

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1628 Lakhs
	O & M cost:	3158.8 Lakhs /Annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust	Air Pollution	2
2	Debris	Solid Waste	2
3	Construction equipment	Noise Pollution	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	Provision of stack	176	4.55
2	Water pollution control	Effluent Treatment Plant, RO & Evaporator	1016	2052
3	Noise pollution Control	Acoustic enclosure and regular maintenance	96	2.25
4	Occupational Health	Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, In-house first aid room, Other infrastructure and Equipment	140	3.25
5	Green belt	Development & Maintenance	9	9
6	Hazardous waste Storage & disposal	Storage, Transportation and disposal	340	1100

7	Environmental Monitoring & management	Environmental Monitoring	43	3.48
8	Mitigation Measures for LCA	Installation of Solar Panels	800	2
9	Carbon Footprint Monitoring	(Measures taken to reduce carbon footprint) Installation of solar Panels* for reduction of consumption of electricity which indirectly reduce carbon footprint. Tree plantation*, Reduction of fuel consumption by using well efficient insulation to heating equipment***.	--	45
10	Water Footprint Monitoring	(Measures taken to reduce water footprint) Rain water harvesting & use of rain water in utilities & domestic Recycle & reuse of treated waste water** in utilities Regular maintenance of equipments to reduce wastage of water due to leaks.	3	6.75
11	Total	--	2623	3228.28
12	Note – *Cost for Tree plantation & solar panel is already considered in sr. no. 5 & 8., ** Cost for recycle & reuse of water is alraedy considered in sr. no. 2., *** Cost for insulations is included in proposed capital cost.	-	-	-

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Styrene Monomer	Liquid	Storage Tank	7985	7985	50273	Imported	By road
Pentane	Liquid	Storage Tank	240	240	1455	Indigenous	By road
Methyl Methacrylate	Liquid	Storage Tank	1000	1000	3636	Imported	By road
Ethyl Benzene	Liquid	Drums, In storage shed	16	16	86	Indigenous	By road

Ethyl Alcohol	Liquid	Drums, In storage shed	8	8	86	Indigenous	By road
R152a	Liquefied gas	Tonner, Cylinder	4.8	4.8	33	Indigenous	By road
DME (Di methyl Ether)	Liquefied gas	Tonner, Cylinder	4.8	4.8	64	Indigenous	By road
Organic peroxide	Liquid	Carboys in shed	60	60	135	Indigenous	By road
Acrylonitrile	Liquid	Storage Tank	2000	2000	3636	Imported	By road
Toluene	Liquid	Tank/Drum	100	100	23	Indigenous	By road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Not Applicable
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	90887 Sq.m
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Minimum 6m (6m, 9m, 12m)
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No such areas within 10 km radius circle.
	Category as per schedule of EIA Notification sheet	5 (f) B1
	Court cases pending if any	Nil
	Other Relevant Informations	Nil

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	15-10-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes Zero Liquid Discharge Effluent Treatment Plant for proposed expansion activities.
Drainage pattern of the project	PP considered contour levels during design of storm water drains.
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits.
Solid Waste Management	PP committed to dispose the hazardous waste at Common Hazardous Waste Treatment, Storage, and Disposal Facility and sale to Authorized vendors. Details are given at Sr. No. 38 of the Consolidated Statement.
Air Quality & Noise Level issues	PP proposes to provide scrubbers to the process vents. 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 14956KWh which will be supplied by MSEDCL. PP proposes two numbers of DG sets with capacity of 2250 KVA.
Traffic circulation system and risk assessment	PP proposes internal roads with minimum six meter width and nine meters of turning radius for smooth circulation of traffic.
Landscape Plan	PP provided 33% green belt within the premises with the provision of drip irrigation.
Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment and submitted DMP.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes Rs. 5.0 Lakh EMP cost during construction phase, Rs. 1842.00 Lakhs as capital cost and Rs. 2409.28 Lakhs and recurring cost for the maintenance of environmental parameters during operation phase.
Any other issues related to environmental sustainability	PP to ensure discharge of treated effluent as per consent obtained from the Maharashtra Pollution Control Board.

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.

The proposal was considered by the SEAC-I in their 158th B meeting held on 02.01.2019 wherein the proposal was referred to the SEIAA for guidance on follwing isuses.

The proposed project is located in the notified industrial zone declared by Urban Development Department vide Notification dated 4th July, 1992 at village Amdoshi and Wangani in Roha tehsil of Raigad Disrict. MoEF&CC issued draft Notification on Eco Sensitive areas of the Western ghat vide No. S.O. 5135 dated 03.10.2018 wherein the village Wangani is included in the eco sensitive area.

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

The direction states as ;

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

1. Mining, quarrying and sand mining.

2. Thermal Power Plants.

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

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

5. Red Category of Industries

The proposal under reference falls under orange category as per CPCB guidelines No. 8-29012/ESS (CPA)/2015-16 dated 07.03.2016. But PP has obtained prior Environment Clearance vide No. SEAC-3012 (M)/CR-12/TC-2 dated 30.06.2012 for 4 MW Gas Based captive power plant which falls under red category as mentioned in above serial no. 5.

In view of above SEAC is of the opinion that the expansion is proposed in the eco sensitive area (village Wangani) which is prohibited by Notification dated 13.11.2013.

Therefore, the proposal is referred to the SEIAA for guidance.

SEIAA considered the proposal in their 161st meeting held on 15.03.2019 and given directions as below,

".....After detailed deliberations, as the Supreme Petrochem Ltd. has applied to MPCB for conversion of their industry from Red to Orange category due to closure of operation of gas based Captove Power Plant and as the Supreme Petrochem Ltd. is located in notified industrial zone declared by Urban Development Department, Maharashtra State, under Maharashtra Regional and Town Planning Act 1996 (ref. 1490/365/CR-34/90-UD-12 dated 04.07.1992) at village Amdoshi and Wangani, the SEIAA herewith directs SEAC-1 to consider the proposal for grant of ToR without Public Hearing for expansion of synthetic resins as they are falling under orange category. After industry obtians from MPCB categorization as Orange the appraisal of EIA can be done further."

In view of above directions from the SEIAA, SEAC-1 decided to appraise the proposal for the grant of ToR.

The proposal was considered in the 166th A meeting of SEAC -1 held on 14.06.2019 where in the ToR was granted to the PP for the preparation of EIA/EMP report as per standard TOR and additional TOR points mentioned below.

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

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

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

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

1. PP to submit certificate of incorporation of the company, list of directors and memorandum of association/ articles.

2. PP t submit CA certificate for the proposed project cost.

3. PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.

4. PP to submit plan layout showing contour levels, storm water drain lines and location of rain water harvesting facilities along with calculations. PP to consider 125 mm rain intensity in Mumbai / Konkan area and 100 mm in rest of the Maharashtra area for the purpose of calculations.

5. PP to submit an undertaking for not violating any requirements of EIA Notification, 2006 amended from time to time.

6. PP to ensure that, the discharge of treated waste water into saline zone is as per NIO recommendations and conditions stipulated in the consent letter issued by the MPCB.

7. PP to submit copy of water supply permission obtained from the Competent Authority.

8. PP to carry out life cycle analysis of all the products manufactured on site with respect to the acidification potential, eutrophication potential, green house and ozone depletion potential etc and proposed mitigation measures to reduce the identified potentials.

9. PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.

10. PP to include detailed water balance calculations along with design details of proposed zero liquid discharge ETP of capacity 1309 KLD in the EIA report.

11. PP to use 100% gas as a fuel to the boiler except contingency situation of non availability of the gas.

12. PP to prepare the Legal Register with respect to compliance of various Acts , Rules and Regulations applicable to the manufacturing activities.

13. PP to submit technical note on how proposed expansion will be accommodated in the existing manufacturing plant along with equipment layout, spaces required for storage of raw materials and finished products etc.

14. PP to carry out HAZOP and QRA and submit disaster management plan.

15. PP to include details of generation and disposal of hazardous waste including byproducts as per Hazardous and other waste (Management and Trans boundary Movement) Rules, 2016 in the EIA report.

16. PP to submit structural stability certificate of existing building with respect to the proposed expansion.

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

18. PP to submit hazardous chemical handling protocol

19. PP to use new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly. PP to provide lightening arrestor.

Now PP submitted EIA/EMP reprot for appraisal.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to prepare all safety related training modules, SOP's in the vernacular language that is Marathi so as to increase its effectiveness.
2) PP to ensure discharge of treated effluent as approved by the Maharashtra Pollution Control Board.
3) PP to implement CER plan in consultation with the District Authorities as per OM issued by MoEF&CC dated 01.05.2018.

FINAL RECOMMENDATION

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

168th Meeting of State Level Expert Appraisal Committee – 1 (SEAC – 1) (Day – 1)

SEAC Meeting number: 168 **Meeting Date** August 26, 2019

Subject: Environment Clearance for Proposed Manufacturing of Generic Drug and Active Pharmaceutical Ingredients

Is a Violation Case: No

1.Name of Project	M/s. Glenmark Pharmaceuticals Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. John Salave
4.Name of Consultant	JV Analytical Services
5.Type of project	Industrial Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Plot No.A-80
9.Taluka	Daund
10.Village	Kurkumbh
Correspondence Name:	Mr. John Salave
Room Number:	Plot No.A-80
Floor:	-
Building Name:	M/s. Glenmark Pharmaceuticals Ltd.
Road/Street Name:	Plot No.A-80
Locality:	MIDC Kurkumbh
City:	Taluka : Daund, Dist : Pune
11.Whether in Corporation / Municipal / other area	MIDC kurkumbh
12.IOD/IOA/Concession/Plan Approval Number	In Process
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 2919.50
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.)	7200 sqm
16.Deductions	-
17.Net Plot area	-
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Existing – 3694 + Proposed – 336
	b) Non FSI area (sq. m.): -
	c) Total BUA area (sq. m.): 4030
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 2919.50
	Approved Non FSI area (sq. m.): -
	Date of Approval: 22-05-2014
19.Total ground coverage (m2)	2934.55
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	40.75% of Total Plot Area
21.Estimated cost of the project	206000000

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	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)	25 meter
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 meter
29.Existing structure (s) if any	3694 sqm
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	Diacerein	2400 Kg/Annum	-2400 Kg/Annum	0 Kg/Annum
2	Sertaconazole Nitrate(B)	600 Kg/Annum	1900 Kg/Annum	2500 Kg/Annum
3	Sitagliptin Phosphate(B)	1200 Kg/Annum	-200 Kg/Annum	1000 Kg/Annum
4	Strontium Ranelate LRM(B)	1200 Kg/Annum	-650 Kg/Annum	550 Kg/Annum
5	Linezolid(C)	12000 Kg/Annum	-7000 Kg/Annum	5000 Kg/Annum
6	Olmesartan Medoxomil(C)	14400 Kg/Annum	-6400 Kg/Annum	8000 Kg/Annum
7	Lornoxicam(C)	1200 Kg/Annum	-510 Kg/Annum	690 Kg/Annum
8	Roflumilast(B)	240 Kg/Annum	-230 Kg/Annum	10 Kg/Annum
9	Adapalene 10% microsphere(A)	0	100 Kg/Annum	100 Kg/Annum
10	Bisoprolol Fumarate(A)	0	200 Kg/Annum	200 Kg/Annum
11	Palonasartan(A)	0	1 Kg/Annum	1 Kg/Annum
12	Prasugrel HCL(A)	0	10 Kg/Annum	10 Kg/Annum
13	Apremilast(B)	0	1000 Kg/Annum	1000 Kg/Annum

14	Aprepitant (B)	0	30 Kg/Annum	30 Kg/Annum
15	Azelnidipine(B)	0	15 Kg/Annum	15 Kg/Annum
16	Butenafine HCI(B)	0	160 Kg/Annum	160 Kg/Annum
17	Linagliptin LRM(B)	0	14 Kg/Annum	14 Kg/Annum
18	Linezolid water base(B)	0	500 Kg/Annum	500 Kg/Annum
19	Telmisartan L195 (B)	0	7500 Kg/Annum	7500 Kg/Annum
20	Teneligliptin HBr Hydrate (B)	0	10400 Kg/Annum	10400 Kg/Annum
21	Teneligliptin HCI (B)	0	150 Kg/Annum	150 Kg/Annum
22	Teneligliptin Oxalate (B)	0	150 Kg/Annum	150 Kg/Annum
23	Dabigatran Etexilate Mesylate(C)	0	500 Kg/Annum	500 Kg/Annum
24	Rosuvastatin Ca.(GGL-L157) (C)	0	500 Kg/Annum	500 Kg/Annum
25	Adapalene(D)	0	20 Kg/Annum	20 Kg/Annum
26	Luliconazole(D)	0	1000 Kg/Annum	1000 Kg/Annum
27	Intermediates and R & D Products	-	-	-
28	R & D Product & Bilastine (E)	0	1000 Kg/Annum	1000 Kg/Annum
29	Ivacaftor GGL-S103(F)	0	50 Kg/Annum	50 Kg/Annum
30	Canagliflozin Intermediate GGL-S151 (F)	0	100 Kg/Annum	100 Kg/Annum
31	Dapagliflozin Intermediate GGL-S184(F)	0	150 Kg/Annum	150 Kg/Annum
32	Lomitapide Intermediate GGL-5202 (F)	0	150 Kg/Annum	150 Kg/Annum
33	Lornoxicam St. B Int.(F)	0	200 Kg/Annum	200 Kg/Annum
34	Luliconazole Intermediate S160 (F)	0	150 Kg/Annum	150 Kg/Annum
35	Ospemifene Intermediate S211 (F)	0	150 Kg/Annum	150 Kg/Annum
36	Ospemifene Intermediate S166 (F)	0	50 Kg/Annum	50 Kg/Annum
37	Rosuvastatin st. D int.(GGL-D038)(F)	0	500 Kg/Annum	500 Kg/Annum
38	Lacosamide (G)	0	500 Kg/Annum	500 Kg/Annum
39	Apixaben Intermediate (G)	0	100 Kg/Annum	100 Kg/Annum
40	Cilazapril Intermediate (G)	0	340 Kg/Annum	340 Kg/Annum
41	Lacosamide Intermediate GGL-S078(G)	0	600 Kg/Annum	600 Kg/Annum

42	Lomitapide Intermediate GGL-S192(G)	0	100 Kg/Annum	100 Kg/Annum
43	Mirabregron Int.(G)	0	150 Kg/Annum	150 Kg/Annum
44	Rizatriptin St.A Int.(G)	0	60 Kg/Annum	60 Kg/Annum
45	Dydrogestrone (G)	0	500 Kg/Annum	500 Kg/Annum
46	Fingolimod Int.(H)	0	50 Kg/Annum	50 Kg/Annum
47	Ivacaftor (GGL-S131) (H)	0	100 Kg/Annum	100 Kg/Annum
48	Total	33240 Kg/Annum	11760 Kg/Annum	45000 Kg/Annum
49	Note: Total Proposed Production will not cross 45 MT/Year including total quantity for Group A: 311 Kg/Year, Group B: 23979 Kg/Year, Group C: 14690 Kg/Year, Group D: 1020 Kg/Year, Group E: 1000 Kg/Year, Group F: 1500 Kg/Year, Group G: 2350 Kg/Year & Group H: 150 Kg/Year	-	-	-

32.Total Water Requirement

Dry season:	**Source of water**	MIDC Kurkumbh
	Fresh water (CMD):	70
	Recycled water - Flushing (CMD):	-
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	70
	Fire fighting - Underground water tank(CMD):	-
	Fire fighting - Overhead water tank(CMD):	80 KL
	Excess treated water	-

Wet season:	**Source of water**	MIDC Kurkumbh
	Fresh water (CMD):	70
	Recycled water - Flushing (CMD):	-
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	70
	Fire fighting - Underground water tank(CMD):	-
	Fire fighting - Overhead water tank(CMD):	80 KL
	Excess treated water	-
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	26	8	34	13.5	1.5	15	12.5	6.5	19
Cooling tower & thermopack	17	3	20	16.5	2.2	18.7	0.5	0.8	1.3
Domestic	9	3	12	2	0.3	2.3	7	2.7	9.7
Gardening	2	2	4	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	7 meter BGL
	Size and no of RWH tank(s) and Quantity:	8 nos. of RWH tanks will be constructed having capacity 1000 ltr. of each
	Location of the RWH tank(s):	Adjacent to boundary wall of the industry.
	Quantity of recharge pits:	Nil
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 0.65 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.20 Lakh/Year
	Details of UGT tanks if any :	10 KL x 4 tanks (15 KL x 3 Overhead tank)

35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	5.15 m3/day
	Size of SWD:	-
Sewage and Waste water	**Sewage generation in KLD:**	9.7
	STP technology:	Septic tank overflow will be connected to ETP
	Capacity of STP (CMD):	Treated in ETP -30 KLD- 1 no.
	Location & area of the STP:	ETP Area: 217.83 m2
	Budgetary allocation (Capital cost):	ETP-Rs. 50 Lakh
	Budgetary allocation (O & M cost):	ETP- Rs. 20 Lakh/Year

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:**	Office Waste – 0.5 MT/M, Packing Waste -1.0 MT/M
	Wet waste:	Canteen Sludge – 0.5 MT/M and Septic tank sludge 0.5 MT/M
	Hazardous waste:	Details given in Hazardous waste column
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Septic tank sludge 0.5 MT/M
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Sold to outside party
	Wet waste:	After drying sent to authorized recycler
	Hazardous waste:	CHWTSDF
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Sent to authorized recycler
	Others if any:	NA
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	4 m X 6 m = 24 m2
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	-
	O & M cost:	Hazardous waste Disposal- Rs. 21 Lakh/Year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	6.8	7.8	5.5-9.0
2	TSS	mg/lit	363.7	78.8	100
3	TDS	mg/lit	4153.5	1719	2100
4	COD	mg/lit	148646	227	250
5	BOD	mg/lit	55107	86.9	100
6	Chloride	mg/lit	1880	393	600
7	Sulphate	mg/lit	371.8	343.5	1000

Amount of effluent generation (CMD):	30 m3/day (Trade + Sewage)
Capacity of the ETP:	30 m3/day
Amount of treated effluent recycled :	21 m3/day will be recycled and balance 9 m3/day will be evaporated in MEE
Amount of water send to the CETP:	ZLD proposed, however in case of maintain of MEE treated effluent will be discharged to CETP
Membership of CETP (if require):	Yes
Note on ETP technology to be used	Effluent will be treated in ETP plant consisting primary secondary & tertiary treatment followed by RO, MEE.& ATFD. Final Treated effluent will be discharged in the Common Effluent Treatment Plant, if required in case of maintenance of MEE.
Disposal of the ETP sludge	CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Residue and waste	28.1	MT/Y	216	69	285	CHWDSDF
2	Spent catalyst/spent carbon	28.2/28.3	MT/Y	0.15	23.85	24	RReturn to Manufacture for regeneration/ Disposal to CHWTSDF
3	Date expired discarded and off specified drug	28.5	MT/Y	0.15	4.85	5	CHWTSDF
4	Off specification products	28.4	MT/Y	0.8	4.2	5	CHWTSDF
5	Spent mother liquor	28.5	MT/Y	2.55	497.45	500	Sale to MOEF/MPCB approved recyclers
6	Spent organic solvent	28.6	MT/Y	264	86	350	Sale to MOEF/MPCB approved recyclers
7	Chemical containing residue from decontamination and disposal	34.1	MT/Y	0.20	4.8	5	CHWTSDF
8	Sludge from treatment waste water	35.3	MT/Y	72	23	95	CHWTSDF
9	Discarded container /barrels/liners	33.1	Numbers	50	200	250	CHWTSDF or sale to authorized recyclers.
10	Sludge from wet scrubbers	37.1	MT/Y	0.1	1.9	2	CHWTSDF
11	E waste	-	-	-	-	As & when Generated	Sale to Authorised Recycler

12	Lead Acid Batteries waste	-	-	-	-	As & when Generated	Return to Supplier /Dealers
13	Biomedical Waste	-	-	-	-	As & when Generated	Send to Authorized Vendor

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler (Capacity 850kg/hr)	LDO- 60 lit/hr	1	11	0.3	170 Degree C
2	Boiler (Capacity 850kg/hr) - Stand by	LDO- 60 lit/hr	2	11	0.3	170 Degree C
3	DG Set 160 KVA	HSD - 26 lit/day	3	3.5(Above the roof)	0.2	170 Degree C
4	Process reactor common vent (Scrubber)	NA	4	15	0.3	NA
5	DG Set 500 KVA	HSD - 74 lit/hr	5	4.5 (Above thr Roof)	Proposed	Proposed
6	Boiler (Capacity-1.5 TPH)	LDO – 90 lit/hr	6	30	Proposed	Proposed
7	Process reactor common vent (Scrubber)	NA	7	15	Proposed	Proposed

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Light Diesel oil (LDO)	60 lit/hr	90 lit/hr	150 lit/hr
2	High Speed Disel (HSD)	26 lit/hr	74 lit/hr	100 lit/hr
41.Source of Fuel		Hindustan Petroleum or any other agency		
42.Mode of Transportation of fuel to site		By road transportation		

43.Green Belt Development	**Total RG area :**	3031.20 m2 (1191.20 m2 inside the plant and 1840 m2 of MIDC land adjacent to our plant) will be maintain as RG permanently with the permission / agreement with MIDC Kurkumbh
	No of trees to be cut :	No trees will be cut
	Number of trees to be planted :	500 trees will be planted on MIDC plant
	List of proposed native trees :	Listed in tree list column
	Timeline for completion of plantation :	Before completion of proposed 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	Azadirachta indica	Neem	35	Medicinal value, To control soil erosion.
2	Bahunia racemosa	Apta	20	Every part of the plant is medicinal, Drought tolerant species.
3	Dalbergia sissoo	Shisav	25	Medicinal value, Bird attracting species
4	Erythrina indica	Pangara	20	Fragrant flowers, Drought tolerant species, Birds attracting
5	Gmelina arborea	Shivan	20	Medicinal value, Drought tolerant species, Bird attracting species.
6	Murraya exotica	Kamini	20	Native species, Fragrant flowers.
7	Aegle marmelos	Bel	20	Medicinal value, Drought tolerant species.
8	Putrnjiva roxburghii	Putrnjiva	28	Medicinal value, Drought tolerant species.
9	Melia Azaradichta	Bakam neem	26	Medicinal value, Native species Bird attracting species.
10	Albizia lebek	Shirish	20	Medicinal for Skin, Fragrant flowers, To control soil erosion, Bird attracting species (Para kids eat seeds).
11	Cordia dichotoma	Bhokar	15	Medicinal value, Edible fruits,
12	Bauhinia blackiana	Kanchanraj	16	Every part of the plant is medicinal, Drought tolerant species.
13	Ficus glomerata	Umber	15	Medicinal value, Edible fruits, Bird attracting species
14	Buteamono sperma	Palas	12	Medicinal value, Bird attracting species , To control soil erosion.
15	Syzygium cumini	Jamun	12	Medicinal value, Edible fruit.
16	Anthocephalus kadamba	Kadamb	20	Medicinal value, To control soil erosion, Birds, squirrels, monkey eat fruits.
17	Ficus retusa	Nandruk	25	Medicinal value, Bird attracting species, Drought tolerant species, Hardy plant.
18	Pongamia pinnata	Karanj	15	Medicinal value, Drought tolerant species, To control soil erosion, Hardy plant.
19	Ailanthus excelsa	Maharukh	20	Medicinal value, To control soil erosion.
20	Cassia fistula	Bahawa	15	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
21	Saraca indica	Sita-ashok	21	Medicinal value, Drought tolerant species.
22	Cochlospermum religiosum	Sonsawar	15	Medicinal value, Native species
23	Elaeocarpus sphaericus	Rudraksha	15	Medicinal value, Native species

24	Dalbergia sissoo	Shisav	35	Medicinal value, Bird attracting species
25	Ficus arnottiana	Payar	15	Drought tolerant species, Bird attracting species. To control soil erosion
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	Existing 520 KVA and Proposed 430 KVA
	During Operation phase (Demand load):	Existing 360 KVA and Proposed 490 KVA
	Transformer:	Existing - 500 KVA & Proposed – 1600 KVA
	DG set as Power back-up during operation phase:	160 KVA- 1 No(Existing) and 500 KVA- 1 No(Proposed)
	Fuel used:	HSD and LDO
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Solar Street light – 12 numbers on solar panel

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar	1 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Wastewater Treatment	For Sewage Septic tank and for Effluent -ETP plant consisting primary treatment and will be discharged in the Common Effluent Treatment Plant	Total effluent generated from the project will be 30 CMD. This will be treated in ETP plant consisting primary secondary & tertiary treatment followed by RO, MEE& ATFD. In case of maintenance will be discharge to CETP
Air Pollution Control	Adequate Height of the Stack, Scrubber with alkaline media	Adequate Height of the Stack, Scrubber with alkaline media

Hazardous Waste management	Process Residues & Wastes, off specification products, ETP Sludge is disposed to CHWTSDF and Spent mother liquor, Spent organic solvent Sale to MoEF&CC/MPCB/CPCB approved recyclers	Process Residues & Wastes, off specification products, ETP Sludge Will be disposed to CHWTSDF and Spent mother liquor, Spent organic solvent Sale to MoEF&CC/MPCB/CPCB approved recyclers
Noise	Most of the noise generating equipments is kept in closed structures. Acoustic systems is provided to D.G. set. The workers are provided with ear muff, ear plug while working at noisy area	Most of the noise generating equipments will be kept in closed structures. Acoustic systems will be provided to D.G. set. The workers will also be provided with ear muff, ear plug while working at noisy area.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.1.20 Lakh
	O & M cost:	-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Environment	Air Pollution Control System, Scrubber	66	0.2
2	Water Environment	Septic tank, ETP, RO, MEE and ATFD	320	150
3	Environment Monitoring and Management	Post Project Environmental Monitoring: Ambient Air Quality, Stack Emission, Noise, Effluent Quality, Work Zone Monitoring	0	2.0
4	Occupational Health	Regular Health Checkup	0	1.0
5	Green Belt	3031.20 m2 area is reserved for green belt development.	12	5.50
6	Hazardous Waste Disposal	-	-	21
7	RWH	Rain Water Harvesting	0.65	0.20
8	Solar Panel	Energy Saving	1.20	-

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
Acetonitrile	-	Drum Shed	5	4	1	Apra Enterprises, MASJID BUNDER WEST,MUMBAI	Truck

Cyclohexane	-	Drum Shed	1	0.6	0.5	KETULCHEM PVT LTD BORIVALI –WEST, MUMBAI	Truck
Dimethyl acetamide	-	Drum Shed	5	5	5	Sparchem, BANDRA (EAST),MUMBAI	Truck
Dimethyl Formamide	-	Drum Shed	5	3	3	Chemtrade oversess Pvt Ltd, GHATKOPAR EAST,MUMABI	Truck
Dimethyl Sulfoxide	-	Drum Shed	3	2	2.0	K. Uttamlal & co., P. O. Box No.5174, Mumbai	Truck
Hexane	-	Drum Shed	3	2	0.6	JPB Chemicals Industries Pvt Ltd, R. No.2, D.J. Road, Vile Parle (W), Mumbai	Truck
Industrial Solvent	-	Drum Shed	10	10	10	Shri Venkatesh Organics , Newasa road Shrirampur ,Dist : Ahmednagar,	Truck
Methyl Ethyl Ketone	-	Drum Shed	0.825	0.6	0.4	JPB Chemicals Industries Pvt Ltd, R. No.2, D.J. Road, Vile Parle (W), Mumbai	Truck
Methyl Tert Butyl Ether	-	Drum Shed	2	1	1.0	Vinati Organics Ltd BKC, Bandra (E),Mumbai	Truck
Mixed Xylene	-	Drum Shed	2	1	1	Pioneer Chemical Industries , Vile Parle-(East), Mumbai	Truck
N-Heptene	-	Drum Shed	2	2	1	Vipul Life sciences Ltd , 121/127, KAZI SAYED STREET ,MUMBAI	Truck
Ortho Xylene	-	Drum Shed	5	5	5	Saraswati Chemical Corp. B/1102, NAHUR VILLAGE, MULUND(W), MUMBAI	Truck
Tetra Hydro Furan	-	Drum Shed	5	5	3	Ascus International(S) Pte Ltd PENINSULAR PLAZA, SINGAPORE	Truck
Triethyl Amine	-	Drum Shed	1.5	1.5	1.5	Alkyl Amines Chemicals Ltd Kurkumbh, Taluka Daund,Plot No. D-6/1,Pune	Truck
N-Butanol	-	Drum Shed	1.1	0.8	0.8	SWATI INDUSTRIES, G-39/19 MIDC WALUJ, AURANGABAD	Truck
Toluene	-	UG Tank	15	10	10	Dia Chemie,S.V. Road, Goregaon (W), Mumbai	Tanker
Ethyl Acetate	-	UG Tank	15	10	10	GODAVARI BIOREFINERIES LTD, 45/47, M. G. ROAD,FORT MUMBAI	Tanker
Acetone	-	UG Tank	15	10	10	Dia Chemie,S.V. Road, Goregaon (W), Mumbai	Tanker
Methanol	-	UG Tank	15	10	8	Dia Chemie,S.V. Road, Goregaon (W), Mumbai	Tanker
Methylene Chloride	-	Vertical Tank	18	15	12	GUJARAT FLUOROCHEMICALS LTD., PLOT:12/A, GIDC, DAHEJ, BHARUCH	Tanker
Isopropyl Alcohol	-	Vertical Tank	18	15	12	Dia Chemie,S.V. Road, Goregaon (W), Mumbai	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:	30 m2
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	2 nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6 meter
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	-
	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.	No
	Date of online submission	-

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
Name of Project	M/s. Glenmark Pharmaceuticals Ltd.	M/s.Glenmark Life Sciences Ltd.
Building Name	M/s. Glenmark Pharmaceuticals Ltd.	M/s.Glenmark Life Sciences Ltd.

Green Belt Development	Total RG Area: 3031.20 m2 (1191.20 m2 inside the plant and 1840 m2 of MIDC land adjacent to our plant) will be maintain as RG permanently with the permission / agreement with MIDC Kurkumbh	Total RG Area: 2945 m2 (663 m2 inside the plant and 2282 m2 of MIDC land adjacent to our plant) will be maintain as RG permanently with the permission / agreement with MIDC Kurkumbh.

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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

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

The proposal was considerd in the 152nd meeting of SEAC-1 held on 12th June, 2018 where in the proposal was deferred for following reason,

During deliberations it was observed that PP has not filled correct data in the consolidated statement as well as the layout plan was not adequate.

PP to submit lay out plan showing entry/exit gates, internal road width of six meters, turning radius of nine meters, location of pollution control equipment, parking areas, waste storage areas, 33% green belt, rain water harvesting etc. to decide on the ToR.

Hence, Deferred.

The proposal was again considered in the 157th A meeting of SEAC-1 held on 20.11.2018 wherein following decision was taken.

"

During deliberations it was observed that, PP provided only 11% green belt within the plot area. PP submitted that they have obtained the plot from M/s Quest Organics Pvt. Ltd. in MIDC and their industry is in operation from the year2005 . Now PP has planned for expansion in the existing facility. To achieve 33% green belt, PP have obtianed plot on lease from MIDC adjacent to the approach road.

In view of above SEAC decided to refer the proposal to the SEIAA whether green belt out side the manufacturing plot but within the same MIDC area can be considered for the compliance of condition of 33% green belt development."

The SEIAA conisdered the proposal in their 163rd meeting held on 02.04.2019 wherein SEIAA referred back proposal to the SEAC-1 with following remarks,

"PP has submitted that, they have existing plot with area 7200 Sq.m. and green belt on existing plot is 663 Sq.m. PP now obtained a plot having area of 2282 Sq.m. in front of existing plant only for green belt development. So total green belt of the two plots will be 2945 Sq.m. which will be more than 33%. PP also submitted undertaking regarding the same. In the view of above after deliberations SEIAA decided to accept the proposal allowing PP to develop deficit green belt on a plot proposed by PP. SEAC may therefore appraise the project and submit to the SEIAA."

In view of above decision of SEIAA , SEAC-1 considered the proposal for the grant of ToR.

DECISION OF SEAC

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

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

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

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

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

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

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2) PP to submit copy of registered lease agreement with MIDC for the plot where green belt development is proposed for a period in consonance with the lease period of the existing plot.
3) PP to submit lay out plan showing internal roads with minimum six meter width and nine meter turning radius, provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
4) PP to submit plan layout showing contour levels, storm water drain lines and location of rain water harvesting facilities along with calculations. PP to consider 125 mm rain intensity in Mumbai / Konkan area and 100 mm in rest of the Maharashtra area for the purpose of calculations.
5) PP to submit an undertaking for not violating any requirements of EIA Notification, 2006 amended from time to time.
6) PP to carry out life cycle analysis of all the products manufactured on site with respect to the acidification potential, eutrophication potential, green house and ozone depletion potential etc and proposed mitigation measures to reduce the identified potentials.
7) PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
8) PP to include detailed water balance calculations along with copy of CETP permission to discharge treated effluent to the CETP in the EIA report.
9) PP to prepare the Legal Register with respect to compliance of various Acts , Rules and Regulations applicable to the manufacturing activities.
10) PP to carry out HAZOP and QRA and submit disaster management plan.
11) PP to include details of generation and disposal of hazardous waste including byproducts as per Hazardous and other waste (Management and Trans boundary Movement) Rules, 2016 in the EIA report.
12) PP to submit structural stability certificate of existing building with respect to the proposed expansion.
13) PP to submit technical note on how proposed expansion will be accommodated in the existing manufacturing plant along with equipment layout, spaces required for storage of raw materials and finished products etc.
14) PP to include water and carbon foot print monitoring in the EMP.
15) PP to submit hazardous chemical handling protocol
16) PP to use new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly. PP to provide lightening arrestor.
17) PP to ensure that, the uniform information is given in the Form-I/II, EIA/EMP report, presentation and consolidated statement.

FINAL RECOMMENDATION

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

168th Meeting of State Level Expert Appraisal Committee – 1 (SEAC – 1) (Day – 1)

SEAC Meeting number: 168 **Meeting Date** August 26, 2019

Subject: Environment Clearance for Proposed Project for expansion by deleting some existing products and addition of new products for Manufacturing Of Chemical Intermediates & Speciality Chemicals at Plot No. N-4, by Pacific Organics Pvt. Ltd., Additional Ambernath MIDC, Dist. Thane, Maharashtra

Is a Violation Case: Yes

1.Name of Project	Proposed Project for expansion by deleting some existing products and addition of new products for Manufacturing Of Chemical Intermediates & Speciality Chemicals at existing unit located at Plot No. N-4, Additional Ambernath MIDC, Dist. Thane, Maharashtra by Pacific Organics Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Rahul Kansingh Rajpurohit , Pacific Organics Pvt. Ltd
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Industrial- Manufacturing of Chemical Intermediates & Speciality Chemicals
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion by deleting some existing products and addition of new products
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environmental Clearance was not obtained for existing products, hence Project is under the violation of 2006 EIA notification. Now, as per EIA notification dated 8th March 2018, Pacific applied for environmental clearance under the window of violation.
8.Location of the project	Plot No. N-4, Additional MIDC Ambernath, Anandnagar, Ambernath East, Dist. Thane, Maharashtra 401506
9.Taluka	Ambernath
10.Village	Anand Nagar, Ambernath
Correspondence Name:	Mr. Rahul Rajpurohit
Room Number:	Plo No. - N - 4
Floor:	Not applicable
Building Name:	Not applicable
Road/Street Name:	Additional MIDC Ambernath
Locality:	Ambernath East
City:	Mumbai
11.Whether in Corporation / Municipal / other area	Ambernath municipal council, Ambernath-421506.
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: EE/AMB/C-23609/of 2019
	Approved Built-up Area: 5001.8
13.Note on the initiated work (If applicable)	For proposed expansion work will be initiated after getting EC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	7025 sq.m
16.Deductions	NA
17.Net Plot area	7025 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 5001.8
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 5001.8
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 5001.8
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 05-07-2019
19.Total ground coverage (m2)	2112.46 Sq. m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	30.07

21.Estimated cost of the project	96410000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	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)	6 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Existing structures such as Manufacturing Unit, ETP area, Ware House, Administrative building etc.is available at site.
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	Inorganic Products	-	-	-
2	Lithium hydroxide	5	(+) 20	25
3	Lithium bromide	20	-	20
4	Lithium chloride	5	(+) 5	10
5	Lithium carbonate	5	(+)5	10
6	Cobalt Nitrate	0	(+) 2	2
7	Cobalt Acetate	0	(+) 2	2
8	Cobalt Carbonate	0	(+)3	3
9	Cobalt Chloride	0	(+)2	2
10	Cobalt Sulfate	0	(+) 1	1
11	Bismuth Nitrate	0	(+) 2	2
12	Bismuth Oxide	0	(+) 2	2
13	Bismuth Hydroxide	0	(+) 2	2
14	Bismuth Carbonate	0	(+) 3	3

15	Bismuth Oxychloride	0	(+) 2	2
16	Nickel Nitrate	0	(+) 1	1
17	Nickel Carbonate	0	(+) 2	2
18	Nickel Acetate	0	(+) 1	1
19	Nickel Sulfate	0	(+) 1	1
20	Cadmium Nitrate	0	(+) 1	1
21	Cadmium Acetate	0	(+) 1	1
22	Cadmium Carbonate	0	(+)2	2
23	Cadmium Chloride	0	(+) 1	1
24	Cadmium Sulfate	0	(+) 1	1
25	Ammonium Molybdate	0	(+) 1	1
26	Molybdic Acid	0	(+) 1	1
27	Sodium Molybdate	0	(+) 1	1
28	Calcium Carbonate	0	(+) 27	27
29	Total of Inorganic Products	35	92	127
30	Organic Products	-	-	-
31	Tetra Butyl Ammonium Bromide	130	-	130
32	N,N Di iso propyl ethylamine	30	-	30
33	N butyl bromide	80*	-	50
34	N propyl bromide	-	-	20
35	Isopropyl Bromide	-	-	10
36	Tetra Butyl Ammonium Hydrogen Sulfate	25	-	25
37	Packing and Repacking of Tetra Butyl Ammonium Bromide, Tetra Butyl ammonium Hydrogen Sulphates & Cyanoacetamide	50	-	50
38	Tri Ethyl Benzyl Ammonium Chloride	30	-	30
39	Ethyl triphenyl phosphonium Bromide	5	(-) 5	0
40	Meta Bromo Anisole	20	(-) 20	0
41	Meta Chloro Anisole	15	(-)15	0
42	Cyanoacetamide	0	(+) 50	50
43	Total of Organic Products	385	(+)10	395
44	Grand Total	420	102	522

45	Note: * Quantity mentioned is the combined for the production of N butyl bromide, N propyl bromide, Isopropyl Bromide as per the consent. However in propose we have bifurcated the production quantity of each product.	-	-	-

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	2	4	6	(-) 0.2	(-) 0.8	1	1.8	3.2	5
Industrial Process	4.5	14.9	19.4	(+) 0.8	(-) 11.2	10.4	5.3	3.7	9
Cooling tower & thermopack	12.5	27.5	40	(-) 10.7	(-) 24.3	35	1.8	3.2	5
Gardening	2	10	12	(-) 2	(-) 10	12	0	0	0
Fresh water requirement	21	56.4	77.4	12.1	46.3	58.4	8.9	10.1	19
Fresh water requirement	MEE Condensate	-	-	-	-	-	-	-	4
Fresh water requirement	Water Recycled from process, RO Permeate & MEE condensate from Inorganic	-	38 (13+19+6)	-	-	-	-	-	-
Fresh water requirement	Total fresh water required from 2nd day	-	39.4	-	-	-	-	-	-

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	15 to 20 m
	Size and no of RWH tank(s) and Quantity:	Rain water will be collected in existing raw water tank of 40 m3
	Location of the RWH tank(s):	UG water Tank – Near fire fighting
	Quantity of recharge pits:	Not applicable as collected water will be reused.
	Size of recharge pits :	Not applicable as collected water will be reused.
	Budgetary allocation (Capital cost) :	3 Lacs.
	Budgetary allocation (O & M cost) :	0.5 lacs/A
	Details of UGT tanks if any :	Water Tank – Existing- 1 No.: 40 M3,

35.Storm water drainage	**Natural water drainage pattern:**	Proper and separate storm water drains will be provided as per natural slopes.
	Quantity of storm water:	125 mm of rain fall per hr, 0.9 runoff coeff.= 221.29 m3/hr., 0.0615 m3/s
	Size of SWD:	0.3 m x 0.3 m x 0.3 m

Sewage and Waste water	**Sewage generation in KLD:**	5 CMD
	STP technology:	Domestic Sewage will be treated in secondary treatment of ETP as combined treatment.
	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:**	Yes. Debris, construction metal, excavated earth etc.
	Disposal of the construction waste debris:	Within premises in low lying area
Waste generation in the operation Phase:	**Dry waste:**	• Hazardous Waste: • Empty Barrels /drums contaminated with Hazardous Chemicals / Wastes– 10 MT/M • Non-Hazardous Waste: • Waste paper, Sweeping material, Etc.- 0.05 MT/A • Pallet –500 Nos./A • Boiler Ash – 86 MT/A
	Wet waste:	• Hazardous Waste: • Distillation Residue -0.45 MT/A • Spent Carbon From Process • - 12.5 MT/A • Spent Solvent – 12 MT/A • Chemical sludge from waste water treatment – 1.3 MT/A • MEE Salts -105 MT/A • Spent Carbon from ETP – 0.5 MT/A
	Hazardous waste:	• Hazardous Waste: • Distillation Residue -0.45 MT/A • Spent Carbon From Process • - 12.5 MT/A • Spent Solvent – 12 MT/A • Chemical sludge from waste water treatment – 1.3 MT/A • MEE Salts -105 MT/A Spent Carbon from ETP – 0.5 MT/A • Empty Barrels /drums contaminated with Hazardous Chemicals / Wastes – 10 MT/A • Other Waste: • E-Waste – 0.1 MT/A • Battery Waste -0.2 MT/A • Non-Hazardous Waste: • Waste paper, Sweeping material, Etc.- 0.05 MT/A • Pallet –500 Nos./A • Boiler Ash – 86 MT/A
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	• E-Waste – 0.1 MT/A • Battery Waste -0.2 MT/A
Mode of Disposal of waste:	**Dry waste:**	Reuse / Sale to authorized party / Sale to Brick Manufacturer
	Wet waste:	CHWTSDF /Sale to authorized party
	Hazardous waste:	CHWTSDF/To MPCB authorized party
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Sale to authorized dismantlers/ Recyclers Returned to battery manufacturer through authorized dealer on buy back procurement
Area requirement:	**Location(s):**	Near ETP area
	Area for the storage of waste & other material:	Area for the storage of Hazardous waste 16 Sq.m.
	Area for machinery:	Not applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1 Lacs
	O & M cost:	105.2 lacs/A

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	---	7.5 - 8.0	7.0 - 7.5	6.5 - 8.5
2	COD	mg/lit	2300 - 2500	150 - 200	< 250
3	BOD3, 27ºC	mg/lit	1100 - 1200	80 - 100	< 100
4	TDS	mg/lit	500 - 600	400 - 500	< 2100
5	TSS	mg/lit	100 - 200	60 - 70	< 100

Amount of effluent generation (CMD):	Total effluent generation for the 1st day will be 19 CMD and after stabilization (After 8 – 9 Days) of MEE, ETP & RO, amount of effluent will be 24 CMD. Out of 24 CMD 80% will be RO permeate i.e. 19 CMD and RO reject (5 CMD) will be treated in MEE. 13 CMD is reaction water generated from process of (Lithium Hydroxide) is recycled back in the process itself. Domestic: 5 CMD
Capacity of the ETP:	25 CMD
Amount of treated effluent recycled :	38 CMD (Water Recycled from process – 13 CMD, RO Permeate – 19 CMD & MEE condensate from Inorganic- 6 CMD)
Amount of water send to the CETP:	Not Applicable as this unit will be run on Zero Liquid Discharge (ZLD) Basis.
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	Treatment for effluent generating from Organic products: • Effluents generating from industrial process - High TDS stream (4 CMD), • High TDS & high COD stream 4 CMD will be treated in MEE along with RO reject (5 CMD). • MEE condensate (13 CMD) (4+5+4(steam condensate) along with low TDS streams (6 CMD- from washing activity 1 CMD & from utility 5 CMD) will be treated in primary treatment. • Domestic sewage (5 CMD) along with primary treated effluent (19 CMD) will be fed to secondary treatmen
Disposal of the ETP sludge	CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Distillation Residue	20.3	MT/M	-	0.45	0.45	CHWTSDF
2	Spent Carbon From Process	28.3	MT/M	-	12.5	12.5	CHWTSDF
3	Spent Solvent	28.6	MT/M	-	12.0	12.0	Sale to authorized party/CHWTSDF
4	Empty Barrels /drums contaminated with Hazardous Chemicals / Wastes	33.1	MT/M	-	10.0	10.0	Reuse / Sale to authorized party / CHWTSDF
5	Chemical sludge from waste water treatment	35.3	MT/M	0.3	1.0	1.3	CHWTSDF
6	MEE Salts	35.3	MT/M	-	105	105	CHWTSDF
7	Spent Carbon from ETP	35.3	MT/M	-	0.5	0.5	CHWTSDF
8	Spent Sulphuric Acid	-	MT/M	20	(-) 20	0	--

9	Note: Spent Sulphuric acid was generated from the production of meta Bromobenzene which was a raw material for m-Bromo Anisol which has been deleted from the proposed product list, hence there will not be any generation of spent Sulphuric acid.	-	-	-	-	-	-
10	Other Waste	-	-	-	-	-	-
11	E-Waste	Not Specified	MT/A	-	0.1	0.1	Sale to authorized dismantlers/ Recyclers
12	Battery waste	Not Specified	MT/A	-	0.2	0.2	Returned to battery manufacturer through authorized dealer on buy back procurement
13	Non- hazardous waste	-	-	-	-	-	-
14	Waste paper, Sweeping material, Etc.	Not Specified	MT/A	Nil	0.05	0.05	Sale to authorised recycler
15	Pallet	Not Specified	Nos./A	Nil	500 Nos.	500 Nos.	Sale to authorised recycler
16	Boiler Ash	Not Specified	MT/A	43	43	86	Sale to Brick Manufacturer

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler – 2 nos. of 0.5 TPH (Existing)	Briquette – 3.169 TPD & Imported Coal -2.4 TPD	1	30 m combine stack	0.4	125°C
2	Thermopac – 2 lac Kcal/hr. (Existing)	Briquette - 1.493 TPD & Imported Coal -0.87 TPD	1	30 m combine stack	0.4	125°C
3	DG Set – 200 KVA (Existing)	HSD – 1550 lit/m	1	4.5 m above enclosure	0.15	140°C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Briquettes	0.705 TPD	3.957 TPD	4.662 TPD
2	Imported Coal	-	3.27 TPD	3.27 TPD
3	HSD	500 lit/m	1050 lit/m	1550 lit/m
41.Source of Fuel		Local & Imported		
42.Mode of Transportation of fuel to site		Through truck/ tanker by Road		

43.Green Belt Development	**Total RG area :**	Existing: 736.5 Sq. m Proposed: 1539 Sq. m. Total: 2275.5 Sq. m.
	No of trees to be cut :	No
	Number of trees to be planted :	250 Nos. of Trees and Shrubs to be planted
	List of proposed native trees :	Banyan, Pipal, Neem, Kadamb, etc.
	Timeline for completion of plantation :	With the construction 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	Terminalia arjuna	(Arjun)	10	Pollution resistant and Native
2	Bauhinia racemosa	(Apta)	20	Pollution resistant and Native
3	Ficus benghalensis	(Vad)	5	Pollution resistant and Native
4	Ficus religiosa	(Pimpal)	5	Pollution resistant and Native
5	Tectona grandis	(Teak)	70	Pollution resistant and Native
6	Azadirachta indica	(Neem)	15	Pollution resistant and Native
7	Cassia fistula	(Bahava)	25	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)	25	Pollution resistant and Native
11	Ficus elastica	(Rubber)	25	Pollution resistant and Native
12	Total	-	250	-
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)	MSEDCL
	DG set as Power back-up during construction phase	Existing
	During Operation phase (Connected load):	Existing Power: Connected Load- 107 KW Additional Proposed : Connected Load- 450 KW
	During Operation phase (Demand load):	Existing Power: Operating Load- 80 KW Additional Proposed : Operating Load- 373 KW
	Transformer:	Proposed - 450 KW
	DG set as Power back-up during operation phase:	Existing: 1 DG set of 200 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Pacific is proposing roof top solar system for illumination of office buildings, street lights Power generation from Solar panel system- 120 kW.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar power	26.49%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	95.5 Lacs.
	O & M cost:	Rs. 180.36 Lacs/Annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust	Air Pollution	1.00
2	Debris	Solid Waste	1.00
3	Construction equipment	Solid Waste	0.50

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 Cyclone followed by Bag filter and Stack of adequate height	7.5	2.8
2	Water pollution control	Effluent Treatment Plant, RO & Multiple Effect Evaporator	85	72.26
3	Noise pollution Control	Acoustic enclosure and anti-vibration pad	2	0.1
4	Occupational health	Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, In-house first aid room, Other infrastructure and Equipment	2	7
5	Environmental Monitoring budget	Environmental Monitoring	0.5	10.12
6	Green belt	Development & Maintenance	1.3	1.3
7	Hazardous waste Storage & disposal	Storage, Transportation and disposal	1	105.2
8	Mitigation Measures for LCA	Installation of solar Panels	30	0.5
9	Measurement of Carbon footprint considering proposed expansion project 2.128 kg/kg & after implementing mitigation measures 1.669 kg/kg. Measures considered to reduce carbon footprint are	Solar Panels* will be installed to reduce consumption of electricity which indirectly reduce carbon footprint. •Tree plantation* will be done to reduce carbon footprint. •Efforts will be taken to reduce fuel consumption e.g. use of well efficient insulation to heating equipment, optimization of process etc.	1	1

10	Measurement of Water footprint considering expansion project 3.85 kg/kg & after implementing mitigation measures 0.076 kg/kg. Measures considered to reduce water footprint are	Rain water harvesting will be done and rain water collected will be used in utilities & domestic purpose which will minimize the water footprint in monsoon season. Treated waste water will be recycle** & reuse of in utilities. Regular maintenance of equipment's will be carried out to reduce wastage of water due to leaks. For cooling tower recycle water will be used with efficient refrigeration loop which will save water up to 25% of total water consumption. Water audit will be done on regula	2.1	0.23
11	Total	-	133.4	201.51
12	Note – *Cost for Tree plantation & solar panel is already considered in sr. No. 6 & 8. ** Cost for recycle & reuse of water is already considered in sr. No. 2. We will recycle water 19 CMD by using reverse osmosis and 13 CMD from Process	-	-	-

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
Tri n butyl amine	Liquid	Tank farm	15	40	82	Imports	Tanker
N butyl bromide	Liquid	Tank farm	7	20	65	Local	Truck
Acetonitrile	Liquid	Tank farm	7	10	6.5	Local	Truck
Ethyl acetate	Liquid	Tank farm	15	25	50	Local	Tanker
Di ethyl sulphate	Liquid	Tank farm	15	20	40	Local	Tanker
Di iso propyl amine	Liquid	Tank farm	30	25	25	Imports	Tanker
Caustic soda lye	Liquid	Tank farm	7	15	15	Local	Tanker
Liquid bromine	Liquid	Tank farm	7	20	75	Local	Truck
N butanol	Liquid	Tank farm	15	20	40	Local	Tanker
Sulfer	Solid	Open Yard	7	5	4.5	Local	Truck

N Propanol	Liquid	Tank farm	7	10	10	Local	Tanker
ISO Propanol	Liquid	Tank farm	15	10	10	Local	Tanker
Sulfuric acid	Liquid	Tank farm	15	15	8	Local	Tanker
Methyl Cyanoacetate	Liquid	Tank farm	30	20	60	Imports	Truck
Methanol	Liquid	Tank farm	7	5	5	Local	Tanker
Ammonia gas	Gas	Cylinder	7	2	10	Local	Truck
Tri ethyl amine	Liquid	Tank farm	30	15	15	Local/Imports	Tanker
Benzyl chloride	Liquid	Tank farm	7	15	18	Local	Truck
Ethylene di chloride	Liquid	Tank farm	7	10	6	Local	Tanker
Lithium carbonate	Solid	Covered Storage	30	15	30	Local/Imports	Truck
Hydro bromic acid	Liquid	Tank farm	30	20	40	Local/Imports	Truck
Hydrochloric acid	Liquid	Tank farm	7	10	30	Local	Tanker
Sodium carbonate	Solid	Store Room	7	10	10	Local	Truck
Lithium sulfate solution	Liquid	Tank farm	7	20	20	Local	Tanker
Activated carbon	Solid	Store Room	15	2	0.5	Local	Truck
Cobalt metal	Solid	Store Room	15	2	1	Local	Truck
Bismuth metal	Solid	Store Room	15	5	2	Local	Truck
Nickel metal	Solid	Store Room	15	2	1	Local	Truck
Cadmium metal	Solid	Store Room	7	2	1	Local	Truck
Molybdenum tri oxide	Solid	Store Room	7	2	1	Local	Truck
Nitric acid	Liquid	Tank farm	15	10	5	Local	Tanker
Liquid ammonia	Liquid	Tank farm	15	10	5	Local	Tanker
Ammonium bi carbonate	Solid	Store Room	7	5	2	Local	Truck
Sodium bi carbonate	Solid	Store Room	7	5	2	Local	Truck
Sodium hydroxide	Solid	Store Room	7	5	1	Local	Truck

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:	662 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 with turning radius of 9m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Ordinance factory - 6 KM
	Category as per schedule of EIA Notification sheet	5 (f) B1
	Court cases pending if any	NA
	Other Relevant Informations	Nil
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	12-09-2017

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
18. Proposed Built up area	NA	2599.08 Sq. m
19. Total Ground Coverage (m2)	NA	2308.05 Sq. m
20. Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA	32.8%

21.Estimated cost of the project	90700000	96410000
31. Production Details	Sr.No 7. Lithium Hydroxide- Proposed- (+)25 TPM, Total – 30TPM	Sr.No 7. Lithium Hydroxide- Proposed- (+)20 TPM, Total – 25 TPM
31. Production Details	----	Total - Existing – 420 TPM, Proposed – (+) 75 TPM, and Total – 495 TPM.
31. Production Details	----	By-product Details: Existing – 0 TPM, Proposed – (+) 27 TPM, Total – 27 TPM.
33. Details of Total water consumed	Industrial Process: Consumption (Existing 20 CMD, Proposed 5 CMD, Total 25 CMD), Loss (Existing 16 CMD, Proposed (+) 1 CMD, Total 17 CMD), Effluent (Existing 4 CMD, Proposed 6 CMD, Total 10 CMD)	Industrial Process: Consumption (Existing 4.5 CMD, Proposed 14.9 CMD, Total 19.4 CMD), Loss (Existing (+) 0.8 CMD, Proposed (-) 11.2 CMD, Total 10.4 CMD), Effluent (Existing 5.3 CMD, Proposed 3.7 CMD, Total 9 CMD))
33. Details of Total water consumed	Cooling Tower & Thermopack: Consumption (Existing 10 CMD, Proposed 10 CMD, Total 20 CMD), Loss (Existing 15 CMD, Proposed 0 CMD, Total 15 CMD), Effluent (Existing 2.5 CMD, Proposed 2.5 CMD, Total 5 CMD)	Cooling Tower & Thermopack: Consumption (Existing 12.5 CMD, Proposed 27.5 CMD, Total 40 CMD), Loss (Existing (-) 10.7 CMD, Proposed (-) 24.3 CMD, Total 35 CMD), Effluent (Existing 1.8 CMD, Proposed 3.2 CMD, Total 5 CMD)
33. Details of Total water consumed	Gardening: Consumption (Existing 1 CMD, Proposed 4 CMD, Total 5 CMD), Loss (Existing 0 CMD, Proposed 5 CMD, Total 5 CMD), Effluent (Existing 0 CMD, Proposed 0 CMD, Total 0 CMD)	Gardening: Consumption (Existing 2 CMD, Proposed 10 CMD, Total 12 CMD), Loss (Existing (-) 2 CMD, Proposed (-) 10 CMD, Total 12 CMD), Effluent (Existing 0 CMD, Proposed 0 CMD, Total 0 CMD)
33. Details of Total water consumed	---	Total fresh water Requirement: Consumption (Existing 21 CMD, Proposed 56.40 CMD, Total 77.4 CMD), Loss (Existing 12.1 CMD, Proposed 46.3 CMD, Total 58.4 CMD), Effluent (Existing 8.9 CMD, Proposed 10.1 CMD, Total 19 CMD)
33. Details of Total water consumed	-----	Water Recycled from process, RO Permeate & MEE condensate from Inorganic- 38 (13+19+6)
33. Details of Total water consumed	---	Total fresh water required from 2nd day- 39.4
34.Rain Water Harvesting (RWH)	NA	• Level of the Ground water table: 0.52 to 4.85 m • Size and no of RWH tank(s) and Quantity: 40 CU.m. 1 No. Quantity 10 CMD. • Location of the RWH tank(s): Near Firefighting tank • Quantity of recharge pits: Not applicable as collected water will be reused. • Size of recharge pits: Not applicable as collected water will be reused. • Details of UGT tanks if any: UGT tank having Capacity - 1 Lac/ Lit is available which will be used for Firefighting.
36.Sewage and Waste water	• Sewage generationin KLD: 5 • STP technology: Primary, Secondary and Tertiary treatment and treated water will be used for gardening. • Capacity of STP (CMD): 1 No. and capacity: 10 CMD • Location & area of the STP: Near ETP • Budgetary allocation (Capital cost): 8 lacs, • Budgetary allocation (O & M cost): 20 thousand/M	• Sewage generation in KLD: 5 CMD • STP technology: Sewage will be treated in aeration tank of ETP for combine treatment • Capacity of STP (CMD): NA • Location & area of the STP: NA

37.Solid waste Management	Waste generation in the Pre-Construction and Construction phase: i) Waste generation- Nil ii) Disposal of the construction waste debris- NA • Waste generation in the operation Phase Waste generation: iii) Hazardous waste: 1. Chemical Sludge from waste water treatment = 3.6 T/A; 2. Activated Carbon = 3.9 T/A vi) Others if any: NA	• Waste generation in the Pre-Construction and Construction phase: i) Waste generation- Yes. Debris, construction metal, excavated earth etc. ii) Disposal of the construction waste debris- Within premises in low lying area. • Waste generation in the operation Phase Waste generation: Hazardous Waste: • Distillation Residue - 0.45 TPM, • Spent Carbon From Process - 12.5 TPM, • Spent Solvent- 12 TPM, • Empty Barrels /drums contaminated with Hazardous Chemicals/Wastes – 10 TPM, • Chemical sludge from waste water treatment – 1.3 TPM • MEE Salts – 105 TPM • Spent Carbon from ETP – 0.5 TPM Non hazardous i) Waste paper, Sweeping material, Etc. – 0.05 TPA ii) Pallet – 500 Nos/A iii) Boiler Ash – 86 TPA vi) Others if any: • Battery waste = 0.1 MT/A E waste = 0.2 MT/A
37.Solid waste Management	Mode of Disposal of waste: iii)Hazardous waste: CHWTSDF, MWML, Taloja vi) Others if any	Mode of Disposal of waste: i) Hazardous waste- Disposal through CHWTSDF. vi) Others if any: Sale to authorized dismantlers/ Recyclers.
37.Solid waste Management	• Area requirement: • Location(s): Manufacturing Area, Admin Area, ETP, STP area etc. • Area for the storage of waste & other material: 800 sq. m • Area for machinery: 405 sq. m	• Area requirement: 50 sq. m • Location(s): Near cooling tower area • Area for the storage of waste & other material: Area for the storage of Hazardous waste 208 Sq. m. • Area for machinery: Not applicable
38.Effluent Characteristics	Inlet Effluent Characteristics: Parameters (pH: 4-9, BOD: 400-650 mg/lit, COD 3000-3500 mg/lit, TSS: 350-450 mg/lit, TDS: 10000-12000 mg/lit, oil & grease: 10-20 mg/lit), Outlet Effluent Characteristics: Parameters (pH: 6.0-8.5, BOD: 85-95 mg/lit, COD 170-200 mg/lit, TSS: 75-90 mg/lit, TDS: 1500-2000 mg/lit, oil & grease: 10 mg/lit), Effluent discharge standards (MPCB): Parameters (pH: 5.5-9.0, BOD: <100 mg/lit, COD <250 mg/lit, TSS: <250 mg/lit, TDS: <2100 mg/lit, oil & grease: <10 mg/lit)	A)Multiple Effect Evaporator Inlet to MEE- From Process of Inorganic Products Parameters (Flow: 11.77 CMD, pH: 6.5-7, COD 18000-19000 mg/lit, TDS: 30000-31000 mg/lit), Reject from RO- Parameters (Flow: 7 CMD, pH: 7.0-7.5, COD <200mg/lit, TDS: 6500-7500 mg/lit), Outlet from MEE- Parameters (Flow: 22.5 (18.77+3.73)CMD, pH: 7.0-7.5, COD 9000-10000 mg/lit, TDS: < 100 mg/lit),

38.Effluent Characteristics	----	B)Multiple Effect Evaporator: From Process of Organic Products Raw High TDS Stream Parameters (Flow: 4 CMD, pH: 7-7.5, COD 9000-9500 mg/lit, TDS: 340000-350000 mg/lit), After Primary Treatment Parameters (Flow: 4 CMD, pH: 7-7.5, COD 7000-7500 mg/lit, TDS: 340000-350000 mg/lit), Feed to Evaporator (Flow: 9 (4 + 5 from RO Reject) CMD, pH: 7-7.5, COD 3500-4000 mg/lit, TDS: 155000-160000 mg/lit), Outlet From MEE (Flow: 13 (4+5+4) CMD, pH: 7-7.5, COD 3000-3500 mg/lit, TDS: 150-200 mg/lit), C) ETP Treatment - Inlet (Low TDS Stream) Parameters (Flow: 6 CMD, pH: 8-8.5, COD 50-100mg/lit, BOD: 20-50 mg/lit TDS: 1200-1300mg/lit), Inlet to Secondary Parameters (Flow: 24 (19- from primary + 5 – Domestic) CMD, pH: 7-7.5, COD 2000-2300 mg/lit, BOD: 1100-1200 mg/lit TDS: 500-600 mg/lit), Inlet To Tertiary Parameters (Flow: 24 CMD, pH: 7-7.5, COD 250-300 mg/lit, BOD: 50-100 mg/lit TDS: 400-500 mg/lit), D) Reverse Osmosis Inlet to RO Parameters (Flow: 24 CMD, pH: 7-7.5, COD 150-200 mg/lit, TDS: 400-500 mg/lit), Parameters (Flow: 24 CMD, pH: 7-7.5, COD 150-200 mg/lit, TDS: 400-500 mg/lit), RO Permeate Parameters (Flow: 19 CMD, pH: 7-7.5, COD <100 mg/lit, TDS: <100 mg/lit), RO Reject Parameters (Flow: 5 CMD, pH: 7-7.5, COD 550-600 mg/lit, TDS: 1800-2000 mg/lit),
38.Effluent Characteristics	• Amount of effluent generation (CMD): 15 • Capacity of the ETP: 20 CMD • Amount of treated effluent recycled : NA • Amount of water send to the CETP: 15 CMD • Note on ETP technology to be used Primary , Secondary , Tertiary and treated effluent sent to CETP	• Amount of effluent generation (CMD): 19 • Capacity of the ETP: 25 CMD • Amount of treated effluent recycled : 38 • Amount of water send to the CETP: Not Applicable, as unit is ZLD • Note on ETP technology to be used: The proposed unit will be a Zero Liquid Discharge (ZLD) where high TDS stream will be treated in MEE. MEE condensate along with low TDS stream and utility blow downs will be treated in conventional ETP followed by RO. RO permeate will be recycled for use in utilities whereas RO reject will be fed to MEE in order to make it a ZLD scheme.

39.Hazardous Waste Details	Description: 1. Chemical Sludge from waste water treatment - Cat. No 34.3 Existing 3.6 TPA, Proposed 0 TPA, Total 3.6 TPA 2. Activated Carbon - Cat. No 28.2 Existing 3.9 TPA, Proposed 0 TPA, Total 3.9 TPA	Description: 1. Distillation Residue20- Cat. No 20.3 Existing 0 TPM, Proposed 0.45 TPM, Total 0.45 TPM, Disposal- CHWTSDF 2. Spent Carbon From Process- Cat. No 28.3, Existing 0 TPM, Proposed 12.5 TPM, Total 12.5 TPM, Disposal- CHWTSDF 3. Spent Solvent - Cat. No 28.6, Existing 0 TPM, Proposed 12 TPM, Total 12 TPM, Disposal- Sale to authorized party/ CHWTSDF 4. Empty Barrels /drums contaminated with Hazardous Chemicals/Wastes - Cat. No 33.1, Existing 0 TPM, Proposed 10 TPM, Total 10 TPM, Disposal- Reuse / Sale to authorized party / CHWTSDF. 5. Chemical sludge from waste water treatment - - Cat. No 35.3, Existing 0.3 TPM, Proposed 1.0 TPM, Total 13 TPM, Disposal- CHWTSDF. 6. MEE Salts- Cat. No 35.3, Existing 0 TPM, Proposed 105 TPM, Total 105 TPM, Disposal- CHWTSDF. 7. Spent Carbon from ETP- Cat. No 35.3, Existing 0 TPM, Proposed 0.5 TPM, Total 0.5 TPM, Disposal- CHWTSDF. 8. Spent Sulphuric Acid- Existing 20 TPM, Proposed (-) 20 TPM, Total 0 TPM, Note: Spent Sulphuric acid was generated from the production of meta Bromobenzene which was a raw material for m-Bromo Anisol which has been deleted from the proposed product list, hence there will not be any generation of spent Sulphuric acid.
40.Stacks emission Details	1. Section & units - Existing Boiler 2 No 0.50 TPH each, Fuel Used with Quantity- Briquettes - 2.34 TPD,or Wood - 1.59 TPD, or coal- 1.66 TPD, Stack No-Common Stack, Height from Ground level (m)- 30, Internal Diameter (m)- 0.3, Temp. of Exhaust Gases- -	1. Section & units - Existing Boiler 2 No 0.50 TPH each, Fuel Used with Quantity- Proposed :Briquette - 2.72 TPD & Imported Coal - 1.2 TPD Stack No-01, Height from Ground level (m)30.0 m (Combined stack), Internal Diameter (m)- 0.4, Temp. of Exhaust Gases- 125 °C
40.Stacks emission Details	2. Section & units - Existing Thermopack 1 no 2.0 lac Kcal/hr, Fuel Used with Quantity- Briquette – 1500 kg/Day, or Wood- 1000 kg/Day, Stack No-Common Stack, Height from Ground level (m)- 30, Internal Diameter (m)- 0.3, Temp. of Exhaust Gases- -	2. Section & units - Existing Boiler 2 No 0.50 TPH each, Fuel Used with Quantity- Proposed : Briquette - 1.237 TPD & Imported Coal-0.87 TPD Stack No-01, Height from Ground level (m)30.0 m (Combined stack), Internal Diameter (m)- 0.4, Temp. of Exhaust Gases- 125 °C
40.Stacks emission Details	3) Section & units - Existing D G 1 no X 200 KVA, Fuel Used with Quantity- HSD or LDO – 500 lit/M Stack No- stack above roof top of the building, Height from Ground level (m)- 4.5, Internal Diameter (m)- 0.15, Temp. of Exhaust Gases- -	3. Section & units - Existing D G 1 no X 200 KVA, Fuel Used with Quantity- Proposed : HSD-1050 lit/m Stack No-01, Height from Ground level (m) -4.5 m above enclosure Internal Diameter (m)- 0.15, Temp. of Exhaust Gases- 140 °C
41.Details of Fuel to be used	1. Type of Fuel: Briquettes or Wood or coal (Existing 2.34 TPD , 1.59 TPD ,1.66 TPD respt, Proposed 0, Total 2.34 TPD , 1.59 TPD ,1.66 TPD respt) 1. Briquette or Wood: (Existing 1500 Kg/Day, 1000 Kg/Day Respt., Proposed 0, Total 1500 Kg/Day, 1000 Kg/Day Respt. 2. HSD or LDO: (Existing 500 lit/M, 1000 Kg/Day Respt., Proposed 0, Total 500 lit/M.	1. Type of Fuel: Briquettes (Existing 0.705 TPD , , Proposed 3.252 TPD 0, Total 3.957 TPD) 2. Imported Coal: (Existing 0, Proposed 2.07 TPD, Total 2.07 TPD.) 3.HSD: (Existing 500 lit/M, Proposed 550 lit/M, Total 1050 lit/M.)
44.Green Belt Development	i) Total RG area : 1100 Sq.m ii) No of trees to be cut iii) Number of trees to be planted: 60 Nos. iv) Timeline for completion of plantation	i)Total green Belt Area: 2275.5 Sq.m (33% of total plot area) ii)No of trees to be cut: Nil iii) Number of trees to be planted: There are around 250 nos. of trees and shrubs will be planted at the site. v)Timeline for completion of plantation- 2 years

48.Energy	Power requirement: DG set as Power back-up during construction phase: NA During Operation phase (Connected load): 80 KW During Operation phase (Demand load): 373 KW Fuel used: HSD or LDO	Power Requirement DG set as Power back-up during Construction phase: Existing DG will be used. During Operation phase (Connected load): existing connected load – 125 KW Proposed connected load- 450 KW Total connected load- 575 KW During Operation phase (Demand load): Existing demand load-80 KW Proposed demand load-373 KW Total demand load-453 KW Fuel used: HSD consumption will be 1050 lit/m in case of emergency only,
51.Details of pollution control Systems	1. Source: Boiler, Existing pollution control system- Combine Stack, Proposed to be installed- cyclone	1. Source: Air, Existing pollution control system- Stack of adequate height, Proposed to be installed- cyclone followed by Bag filter & stack of adequate height.
51.Details of pollution control Systems	2. Source: Thermopack, Existing pollution control system- Combine Stack, Proposed to be installed- cyclone	2. Source: Water, Existing pollution control system- ETP, Proposed to be installed- ETP, RO & MEE.
51.Details of pollution control Systems	3. Source: DG Existing pollution control system- Stack, Proposed to be installed- Stack	3. Source: Noise, Existing pollution control system- Acoustic enclosure for DG set, Proposed to be installed- -
51.Details of pollution control Systems	-----	1. Source: Solid Waste, Existing pollution control system- Disposal to CHWTSDF, Proposed to be installed- Disposal to CHWTSDF
51.Details of pollution control Systems	----	Budgetary allocation (Capital cost and O&M cost): Capital cost – 95.5 lacs O&M cost – 180.36 lacs/yr
52.Environmental Management plan Budgetary Allocation	b) Operation Phase (with Break-up): 1. Component- Cyclone, Description: For dust collection, Capital cost Rs. In Lacs: 6.0, Operational and Maintenance cost (Rs. in Lacs/yr)- 0.5 2. Component- Stack, Description: for dispertion, Capital cost Rs. In Lacs: 6.50, Operational and Maintenance cost (Rs. in Lacs/yr)- 1.2	b) Operation Phase (with Break-up): 1. Component- Air pollution control, Description: Provision of stacks of height & Process Scrubber, Capital cost Rs. In Lacs: 7.5, Operational and Maintenance cost (Rs. in Lacs/yr)- 2.8 2. Component- Water pollution control, Description: Effluent treatment Plant RO, Multiple effect evaporator, Capital cost Rs. In Lacs: 85, Operational and Maintenance cost (Rs. in Lacs/yr)- 72.26. 3. Component- Noise pollution Control, Description: Acoustic encl./ Ant vibration pads, Capital cost Rs. In Lacs: 2, Operational and Maintenance cost (Rs. in Lacs/yr)- 0.1. 4. Component-Occupational Health, Description: Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables Control of fugitive emissions Work Place monitoring, Capital cost Rs. In Lacs: 2, Operational and Maintenance cost (Rs. in Lacs/yr)- 7. 5. Component- Environmental Monitoring Budget, Description: Environmental Monitoring, Capital cost Rs. In Lacs: 0.5, Operational and Maintenance cost (Rs. in Lacs/yr)- 10.12. 6. Component- Hazardous waste Storage & disposal, Description: Storage, Transportation and disposal, Capital cost Rs. In Lacs: 1, Operational and Maintenance cost (Rs. in Lacs/yr)- 105.2. 7. Component- Green belt , Description: Development & Maintenance, Capital cost Rs. In Lacs: 1.1, Operational and Maintenance cost (Rs. in Lacs/yr)- 0.6 Total: Capital cost Rs. In Lacs: 99.1, Operational and Maintenance cost (Rs. in Lacs/yr)- 198.08

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS	
Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. PP proposes Zero Liquid Discharge, PP proposes scrubber to the process vents .As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes Zero Liquid Discharge Effluent Treatment Plant.
Drainage pattern of the project	PP considered contour levels during design of storm water drains.
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits.
Solid Waste Management	PP committed to dispose the hazardous waste at Common Hazardous Waste Treatment, Storage, and Disposal Facility and sale to Authorized vendors. Details are given at Sr. No. 38 of the Consolidated Statement.
Air Quality & Noise Level issues	PP proposes scrubber for the process vents. 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 373.00 KW which will be supplied by MSEDCL. PP proposes one DG sets with capacity of 200 KVA.
Traffic circulation system and risk assessment	PP proposes internal roads with minimum six meter width and nine meters of turning radius for smooth circulation of traffic.
Landscape Plan	PP provided 33% green belt within the premises.
Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment and submitted DMP.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes Rs. 2.50 Lakh EMP cost during construction phase, Rs. 135.40 Lakhs as capital cost and Rs. 201.51 Lakhs and recurring cost for the maintenance of environmental parameters during operation phase.
Any other issues related to environmental sustainability	PP to submit an undertaking for meeting the prescribed standards of air, water, hazardous waste storage, treatment and disposal as per prevailing Rules. PP to implement plantation of 3214 nos. of trees in consultation with the Forest Department and deposit necessary cost.

Brief information of the project by SEAC

The history of the proposal is as below,

* Pcific Organics Pvt. Ltd. is the manufacturer of chemical intermediates and speciality chemicals at Plot No. N-4 in additional MIDC, Ambernath.

* The industry was established in the year 1995, however unit at Ambernath was established in the year 2004. PP obtained Consent to Operate on 9th Septemebr, 2008.

* The industry is in the manufacturing of Brominated compounds, Lithium Compounds, Phase transfer catalyst, intermediates etc.

* Industry obtained Consent to Operate to manufacture organic compounds in the year 2009 and started manufacturing with out obtaining prior Environment Clearance.

* PP applied for Environmental Clearance for proposed expansion to the SEIAA; in this connection the proposal was considered by SEAC in its 138th meeting held on 1st June, 2017 wherein SEAC noted that, existing factory was established in 2004 but received consent to operate in 2008 and started manufacturing unit without obtaining prior Environment Clearance. SEAC-1 referred the proposal to SEIAA for the decision regarding the issue of violation under EIA Notification, 2006. Immediately after the meeting Pacific Organics has stopped the production of all the organic chemicals which attracts EC.

* PP informed that, the proposal was discussed in 112nd meeting of SEIAA on 27th July, 2017. However, as per discussion in SEIAA meeting it was decided that, the issue of applicability of violation to the unit will be considered by the Government.

Now PP submitted their application for grant of ToR under category 5(f)B1 for violation project and expansion as per amended Notification issued by MoEF&CC dated 08.03.2018,

PP applied for the grant of ToR to the MoEF&CC on 12.09.2017 and SEIAA vide Unique ID No1256.. on 13th April, 2018 on SEIAA portal for grant of ToR as a case of violation and expansion.

Based on the activities initiated by the PP without obtaining prior Environment Clearance, the PP submitted a proposal for grant of Terms of References for preparation of EIA ad EMP report and to implement EMP, comprising of remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation as a condition of Environment Clearance.

After detailed deliberations with the PP and their accredited consultant M/s Goldfinch Engineering Systems Pvt. Ltd., Mumbai, committee decided to approve the TOR for the preparation of EIA/EMP report as per model TOR issued by MoEF & CC published in April, 2015, Notification dated 14.03.2017and 08.03.2018 and OM dated 15.03.2017 along with additional TOR points mentioned below.

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

PP submitted the EIA/EMP report. The proposal was considered in the 158th A meeting of SEAC-1 held on 12.12.2018 wherein following decision was taken,

PP applied for the grant of ToR under violation category. The proposal was conisdered in the 151st meeting of SEAC-1 held on 24th May, 2018 where in ToR was granted to the PP based on standard ToR and additional ToR points.

The condition of Public Hearing was not included in the ToR as it was not mentioned in the Notification issued by MoEF&CC dated 14th March, 2017, 8th March, 2018 and 15th March, 2018.

MoEF&CC Office memorandum dated 16th March, 2018 brought to the notice of SEAC which stipulates regarding requirement of Public Hearing as under,

"The project/activities pertaining to all sectors, shall be considered as per the directions of Hon'ble Highcourt of Judicature at Madras vide order dated 14th March, 2108 in WMP Nos. 3361 & 3362 of 2018 and WMP No. 3721 of 2018 in WP No. 11189 of 2017".

The Hon'ble Highcourt of Judicature at Madras order dated 14th March, 2018 reads as below,

24. " In this view of the matter, considering that sub clause (i) (d) of Stage III of Pragraph 7 (i) of parent notification as contained in item 8 (a) of the schedule being housing projects, we deem it necessary to clarify that, projects and Project Proponents falling under category only shall be governed by the "Public Consultation" clasue in the parent notification.

Committee deliberated the issue at length witht the PP and their accredited consultant.

As per parent EIA Notification dated 14th September, 2006 following projects/activities are exempted from the Public Consultation under clause 7 (III) of Stage 3,

a. modernization of irrigation projects (item 1(c) (ii) of the Schedule.

b. all projects or activities located within industrial estates or parks (item 7 (c) of the Schedule) approved by the concerned authorities and which are not disallowed in such approval.

c. expansion of roads and highways (item 7 (f)) of the Schedule which donot involve any further acquisition of land.

cc. maintenance derdging provided the dredged material shall be dispsoed within port limits.

d) all Building/ construction projects/Area Development projects and township (item 8).

e) all category B2 projects and activities.

f) all projects or activities concerning national defence and security or involving other strategic considerations as determined by the Central Government.

With respect to the order of the Hon'ble Highcourt Judicature at Madras dated 14th March 2018, SEAC is of the view that, the order stpulates only item contianed in 8(a) {Building and Constrcution} of the Schedule are governed by the "Public Consultation" clause in the parent notification.

In view of above, SEAC is of the opinion that, public consultation is necessary for all other cateogories except 8 (a) of the Schedule attached to the EIA Notification, 2006 applied under violation window.

Hence, SEAC decided to refer proposal to the SEIAA for guidance on the applicability of Public Hearing/Consultation to the industries applied for EC under violation window.

The porposal was considered in the 167th meeting of SEAC-1 held on 01.07.2018 wherein following decision was taken,

"The SEIAA considered the proposal in their 165th meeting held on 26.04.2019 and conveyed following decison to the SEAC-1.

" As the said industry is located in MIDC area, SEIAA is of the opinion that, Public Hearing is not required for the said project. Hence, case is referred back to SEAC-1 for further appraisal."

Accordingly the proposal was taken for appraisal.

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

1. PP to submit details of year wise production quantity from the year of violation of the EIA Notification, 2006.

2. PP to submit detailed report on ecological damage assessment including construction completed onsite and other environmental attributes. The report shall indicate quantitative inference of the damage occurred to the environment with back up calculations.

3. PP to prepare the remediation plan based on the ecological damage assessed and the points given in the standard ToR issued by MoEF&CC. PP shall bifurcate each proposed remediation activity along with its cost and time line for its completion.

4. PP to prepare natural and community resource augmentation plan corresponding to the ecological damage assessed and shall bifurcate each proposed activity along with its cost and time line for its completion.

5. PP to submit detailed quantification of economic benefits derived due to violation along with back up calculations.

6. PP to prepare an EMP comprising of all above points along with time lines to implement proposed remediation measures etc.

7. PP to include all above in the EIA report and submit revised EIA/EMP report.

8. PP also to use approach paper issued by SEIAA for the identification of ecological damage and preparation of remediation and augmentation plan.

9. By doing above PP shall come out with exact ecological damage caused due to violation, their remediation and natural and community resource augmentation plan and cost required to execute the plan on field.

Now, PP submitted compliance of above points.

DECISION OF SEAC

During deliberations, PP submitted that, they have referred the approach paper published by the SEIAA for calculation of Environmental damage, preparation of remediation and natural & community resource augmentation plan. The abstract is as below,

PP has identified total remediation cost of Rs. 123.37 Lakhs (of which PP has completed the work of Zero Liquid Discharge ETP, provision of solar energy comprising total cost of Rs. 105.00 Lakhs.) The balance cost os Rs. 18.37 will be spent on plantation of 3214 Nos. of trees (Rs. 12.37 Lakhs) with the help of Forest Department , Scrubber to the process vents (Rs.6.00 Lakhs) , PP also proposed to implement Environment & Sanitation Plan for which estimeated cost is Rs. 10.00 Lakhs.

The capital EMP cost proposed by PP is Rs. 135.40 Lakhs and recurring cost for EMP will be RS. 201.50 Lakhs.

After going through above details, SEAC-1 has come to the conclusion that, remediation cost to be deposited by the PP as Bank Guarantee with the MPCB will be as below.

1. Cost for proposed tree plantation = Rs. 14.00 Lakhs.

2. Cost for installation of scrubber for process vents = Rs. 6.00 Lakhs

2. Cost for Environment & Sanitation Plan = Rs. 10.00 Lakhs.

PP shall deposit Bank Guarantee of Rs. 30 Lakhs to the MPCB.

In view of above SEAC-1 decided to recommend the proposal for prior Environment Clearance subject to the following conditions.

Specific Conditions by SEAC:

1) PP to deposit Bank Guarantee of Rs. 30.00 Lakhs with the MPCB as a cost of remediation and natural & community augmentation plan.
2) PP to submit an undertaking for meeting the prescribed standards of air, water , hazardous waste storage, treatment and disposal as per prevailing Rules.
3) PP to implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.
4) PP to provide scrubber to all process vents so as to avoid emission of process vapors in the atmosphere.

FINAL RECOMMENDATION

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

168th Meeting of State Level Expert Appraisal Committee – 1 (SEAC – 1) (Day – 1)

SEAC Meeting number: 168 **Meeting Date** August 26, 2019

Subject: Environment Clearance for Hiwardara Limestone and Dolomite Mine, Opencast mining project, Area 27 Ha; Production Capacity @ 0.6 MTPA, at Village Hiwardhara, Tahsil Wani, District Yavatmal .

Is a Violation Case: No

1.Name of Project	Hiwardara Limestone and Dolomite Mine
2.Type of institution	Private
3.Name of Project Proponent	Prashant V Deshmukh
4.Name of Consultant	Srushti Seva Private Limited
5.Type of project	Mining Project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Survey No 103 (part) Village Hiwardara
9.Taluka	Wani
10.Village	Hiwardara
Correspondence Name:	Prashant V Deshmukh C/ o R H Rathi
Room Number:	Plot No 308
Floor:	Ground
Building Name:	Shyam Kunj
Road/Street Name:	.
Locality:	Shankar Nagar
City:	Nagpur
11.Whether in Corporation / Municipal / other area	Other area
12.IOD/IOA/Concession/Plan Approval Number	Not App;licable
	IOD/IOA/Concession/Plan Approval Number: Not App;licable
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not App;licable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not App;licable
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.):
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	23215000

22.Number of buildings & its configuration

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

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

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Dolomite	Nil	41666	41666
2	Limestone	Nil	8333	8333

32.Total Water Requirement

Dry season:	**Source of water**	Tanker Supply and mine pit
	Fresh water (CMD):	40
	Recycled water - Flushing (CMD):	Nil
	Recycled water - Gardening (CMD):	30 Tanker Supply and pit Water for plantation and Dust Suppression
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	40
	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**	Tanker Supply
	Fresh water (CMD):	10
	Recycled water - Flushing (CMD):	Nil
	Recycled water - Gardening (CMD):	Nil
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	10
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	Nil	10	10	Nil	10	10	Nil	Nil	Nil
Gardening	Nil	30	30	Nil	30	30	Nil	Nil	Nil
Fresh water requirement	Nil	40	40	Nil	40	40	Nil	Nil	Nil

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3.2 to 11.1 m bgl
	Size and no of RWH tank(s) and Quantity:	Garland Drains, Gully plugs, Retaining Wall
	Location of the RWH tank(s):	Along the lease boundary
	Quantity of recharge pits:	500 m
	Size of recharge pits :	2m x 1 m
	Budgetary allocation (Capital cost) :	Rs. 600000/-
	Budgetary allocation (O & M cost) :	Rs 100000/-
	Details of UGT tanks if any :	Not Applicable
35.Storm water drainage	**Natural water drainage pattern:**	Not applicable, However the storm water during rainy season will be systematically channelized to garland drains proposed along the lease boundary
	Quantity of storm water:	Not applicable
	Size of SWD:	Not applicable
Sewage and Waste water	**Sewage generation in KLD:**	Nil
	STP technology:	Not Applicable
	Capacity of STP (CMD):	Not Applicable
	Location & area of the STP:	Not Applicable
	Budgetary allocation (Capital cost):	Not Applicable
	Budgetary allocation (O & M cost):	Not Applicable
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Not Applicable
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	**Dry waste:**	120000 cum upto coneptual period
	Wet waste:	Nil
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	Top soil will be used for plantation and waste materials will be dumped on non-mineral area which will be biologically stabilized
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Within mining Lease area
	Area for the storage of waste & other material:	52500 sqm
	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	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Amount of effluent generation (CMD):		Nil			
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	Nil	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	-	Not Applicable	Not Applicable	Not Applicable
41.Source of Fuel		Not Applicable		
42.Mode of Transportation of fuel to site		Not Applicable		

43.Green Belt Development	**Total RG area :**	Not Applicable
	No of trees to be cut :	Nil
	Number of trees to be planted :	10500
	List of proposed native trees :	Awala, Behada, Kadulimb, Karanj, Moha Sag, Kawath and Peru
	Timeline for completion of plantation :	Upto 7 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	Emblica officinalis	Awala	1500	Created to intercept dust, gaseous pollutants, noise and Fruits
2	Cassia fistula	Bahava	1000	Created to intercept dust, gaseous pollutants and noise
3	Azadiracta indica	Kadulimb	1500	Created to intercept dust, gaseous pollutants and noise
4	Pongamia pinnata	Karanj	1000	Created to intercept dust, gaseous pollutants and noise
5	Madhuca indica	Moha	1500	Created to intercept dust, gaseous pollutants, noise and Fruits
6	Tectona grandis	Sag	2000	Created to intercept dust, gaseous pollutants, noise and furniture
7	Feronia limonia	Kavath	1000	Created to intercept dust, gaseous pollutants, noise and Fruits
8	Psidium guajava	Peru	1000	Fruit plant
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 :**	Maharashtra State Power Distribution Company Limited
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	500 KV
	During Operation phase (Demand load):	500 KV
	Transformer:	No
	DG set as Power back-up during operation phase:	No
	Fuel used:	Nil
	Details of high tension line passing through the plot if any:	None

48.Energy saving by non-conventional method:

It is proposed to install 5 Solar Light poles within mining lease area to saving energy by non-conventional method.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar light	5 lamps

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air Pollution Control	No	Dust Suppression

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	50000
	O & M cost:	5000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	Dust Suppression	-	1

2	Water Pollution Control	Desilting Tanks, garland drain, Boulder Check plug, Septic Tanks/Soak Pits, Mine water sedimentation pond & pumps	5	-
3	Pollution Monitoring	Air, Noise monitoring Water, Soil sample analysis	-	1
4	Occupational Health	Fire Fighting Equipments (portable), Personnel protection equipments (goggles , gloves, helmets, dust mask, safety boots)	0	1
5	Green belt	Biological reclamation, Plantation, Reclamation (Dump)	-	1
6	Others	Wild life management	-	1

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	Not Applicable
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Not Applicable
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	B1
	Court cases pending if any	Nil
	Other Relevant Informations	As desired by Hon'ble SEAC in 142nd and 143rd meeting,, fresh application on website along with EIA/EMP and PH minutes. The corrected project cost have also been estimated as 2,32,15,000/- (Rupees Two crore thirty two lacs fifteen thousand only).
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time.
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 informed that, no waste water will be generated from proposed activity. PP to ensure treatment of domestic waste water to the prescribed standard generated if any.
Drainage pattern of the project	PP to provide garland drains to collect rain water. PP shall not obstruct any natural drain passing through the proposed area.

Ground water parameters	As per data submitted by PP, ground water parameters are within the prescribed limits.
Solid Waste Management	Top soil shall be used for plantation. Waste material shall be dumped on non mine site within the premises and shall be biologically stabilized.
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 500 KVA, which will be supplied by MSEDCL.
Traffic circulation system and risk assessment	PP provided adequately wide roads for vehicular movement; PP to ensure no dusting on the roads during vehicle movement.
Landscape Plan	PP to develop 7.5 meter wide safety zone in the periphery of mine area as a green belt. The green belt shall not be less than 33% of the total area.
Disaster management system and risk assessment	PP to follow all safety guidelines issued by DGMS. PP to provide first aid facility at site.
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.5.00 Lakh as capital cost and Rs. 4.00 Lakh as O & M cost to maintain environmental parameters.
Any other issues related to environmental sustainability	PP proposes to carry out blasting in day hours only.

Brief information of the project by SEAC

PP submitted their proposal for prior Environment Clearance to the SEAC-1. ToR was granted to the project in 98th meeting of SEAC-1 held on 26th to 27th March, 2015 under category 1(a)B1 for mining of Lime Stone and Dolomite which is valid upto 12.12.2044.

PP submitted the EIA/EMP reprot during 143rd meeting of SEAC held on 12.02.2017 where in the proposal was deferred and PP was asked to submit afresh application indicating correct project cost.

Public hearing was conducted on 14th October 2016, PP submitted the copy of minutes of the Public Hearing.

PP submitted fresh application vide UID No. 1086 (The old UID No. 866) with modifed project cost. The proposal was considered in the 151st meeting wherein the proposal was deferred till compliance of following points,

1. PP to submit layout plan showing 33% green belt within proposed project site. PP to start development of green belt in coming monsson season.

2. PP to develop existing kaccha approach road into tar road so as to reduce the dust pollution.

3. PP to obtain blasting permission from the competent Authority and ensure all possible safety measures to avoid any unforeseen incidents..

4. PP to provide prefabricated STP for treatment of domestic sewage.

5. PP to ensure use of covered vehicles to transport the material from site to prevent dust pollution during transport. PP to submit an undertaking in this regard.

6. PP to submit detailed calculations for the incremental values derived for PM10 and PM2.5 parameter.

7. PP to submit detailed calculations for the incremental values derived for PM10 and PM2.5 parameter.

8. PP to submit detailed report on the impact of noise and vibrations on the surrounding environment.

9. PP to submit point wise action report along with time lines on the issues raised during Public Consultation.

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

The proposal was again considerd in the 164th meeting of SEAC-1 held on 08.04.2019 wherein the proposal was deferred till submission of compliance of following points,

1. PP to include cost of raod constrution in the EMP and correct the same in the consolidated statement.

2. PP to comply with the guideline of the competent Authority for carrying out balsting by using bore wagan blasting method.

3. PP to provide their plan to reduce impact of vibrations in the surrounding area along with drawings.

4. PP proposes to carry out balsting in day hours only. PP to submit undertaking in this regard.

5. PP to submit copy of hyrogeological surevey reprot indicating elevation range , General Ground Level, Ground water level, Ultimate working depth and impact of proposed activity on the ground water table/aquifers.

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

The proposal was considered in the 167th meeting of SEAC-1 held on 10.07.2019 wherein the proposal was deferred till submission of complinace of following points,

1. PP to submit undertaking for compliance of the guidelines published by DGMS vide circular No. 2 of 2003 dated 31.01.2003.

2. PP to ensure that the persons who are required to remain within the danger zone during blasting shall be provided with a sustainable protected shed.

3. PP to formulate code of practice for controlled blasting technique with milli-second delayed detonators/ electric shock tubes/cord relays etc. or by adequately muffling of holes including precautions to be taken during blasting operation until all clear siren given by the blaster.

4. PP to ensure full fledged training to their helpers in blasting operations, rescue operations and emergency handling procedures.

5. PP to ensure to use blasting technique with Controlled Blasting (NONEL) involving millisecond delay between successive holes through use of delay detonators. PP to ensure to drill pre split bore holes in single row at a closer spacing. Blank holes around the production blast hole at a distance of 3 m. shall be made to intercept the blasting vibrations.

6. PP also to use Muffled Blasting to prevent fly rocks during blasting.

7. PP shall not obstruct any natural drain flowing through the proposed mine area.

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

Now PP submitted compliance of above points,

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to obtain requisite permission from the competent Authority for blasting activity on site.
2) PP to ensure that, no mining shall be carried out below the depth of existing water table in the area.
3) PP to prepare & implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.
4) PP to develop 7.5 meter wide safety zone in the periphery of mine area as a green belt. The green belt shall not be less than 33% of the total area.

FINAL RECOMMENDATION

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

168th Meeting of State Level Expert Appraisal Committee – 1 (SEAC – 1) (Day – 1)

SEAC Meeting number: 168 **Meeting Date** August 26, 2019

Subject: Environment Clearance for Proposed project for expansion in existing products & addition of new products for manufacturing of Active Pharmaceutical Ingredients & intermediates by Auro Laboratories Limited at Plot No.: K-56, MIDC Tarapur, Dist. Palghar, Maharashtra 401506.

Is a Violation Case: No

1.Name of Project	Proposed project for expansion in existing products & addition of new products for manufacturing of Active Pharmaceutical Ingredients & intermediates by Auro Laboratories Limited at Plot No.: K-56, MIDC Tarapur, Dist. Palghar, Maharashtra 401506.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Siddhartha Deorah, Auro Laboratories Limited
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Industrial- Manufacturing of Active Pharmaceutical Ingredients & intermediates
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No.Environmental Clearance is not required for existing activity as after establishment Auro have not done any expansion after EIA notification 2006.
8.Location of the project	Plot No. K-56, MIDC Tarapur, Dist. Palghar, Maharashtra 401506
9.Taluka	Palghar
10.Village	Salvad
Correspondence Name:	Mr. Siddhartha Deorah
Room Number:	314
Floor:	Not Applicable
Building Name:	T. V. Industrial Estate
Road/Street Name:	S. K. Ahire Marg
Locality:	Worli
City:	Mumbai
11.Whether in Corporation / Municipal / other area	MIDC Tarapur
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 6420
13.Note on the initiated work (If applicable)	For proposed expansion work will be initiated after getting EC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	4280 Sq. Mtr.
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 6420
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 2775.48
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 6420
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 01-04-2019
19.Total ground coverage (m2)	1198.86 Sq.m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	28.01
21.Estimated cost of the project	267900000

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	6 m
29.Existing structure (s) if any	Existing building having admin, store & QC dept. will be demolished to align the expansion project properly.
30.Details of the demolition with disposal (If applicable)	Details are provided in EIA report as Annexure XII.

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Metformin	60 MT/A	(-) 60 MT/A	0
2	Metformin HCL & Metformin HCL DC	Not Applicable	9600 MT/A	9600 MT/A
3	Chlorphenamine Maleate	Not Applicable	12 MT/A	12 MT/A
4	Glimepiride	Not Applicable	1.2 MT/A	1.2 MT/A
5	Glipizide	Not Applicable	1.2 MT/A	1.2 MT/A
6	Gliclazide	Not Applicable	1.2 MT/A	1.2 MT/A
7	Glibenclamide	Not Applicable	1.2 MT/A	1.2 MT/A
8	Chloroxazone	Not Applicable	120 MT/A	120 MT/A
9	Total	60 MT/A	9676.8 MT/A	9736.8 MT/A

32.Total Water Requirement

Dry season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
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	4.0	1.0	5.0	01.0	0.2	1.2	3.00	0.8	3.8
Industrial Process	16	23	39	1	1	2	15	22	37
Cooling tower & thermopack	9.0	137.0	146.00	5.0	129.0	134.0	4.0	8.0	12.0
Gardening	1.0	7.0	8.0	1.0	7.0	8.0	0.0	0.0	0.0

Fresh water requirement	30.0	168.0	198.0	8.0	137.2	145.2	22.0	30.8	52.8
Fresh water requirement	Additional steam condensate from MEE	--	--	--	--	--	--	--	5.28
Fresh water requirement	Water Recycled	58.08 (52.8+5.28)	--	--	--	--	--	--	--
Fresh water requirement	Total fresh water required 2nd day onwards	139.92	--	--	--	--	--	--	--

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 to 10 m
	Size and no of RWH tank(s) and Quantity:	Rain water will be collected in existing raw water tank of 100 m3
	Location of the RWH tank(s):	UG water Tank – Near ETP
	Quantity of recharge pits:	Not applicable as collected water will be reused.
	Size of recharge pits :	Not applicable as collected water will be reused.
	Budgetary allocation (Capital cost) :	Already included in capital cost
	Budgetary allocation (O & M cost) :	Already included in capital cost
	Details of UGT tanks if any :	Water Tank – Existing- 1 No.: 100 M3, proposed fire water tank-1 No.: 100 M3
35.Storm water drainage	**Natural water drainage pattern:**	Proper and separate storm water drains will be provided as per natural slopes.
	Quantity of storm water:	190 mm of rain fall per hr, 0.5 runoff coeff.= 111.72 m3/hr., 0.031 m3/s
	Size of SWD:	0.4 m x 0.35 m x 0.4 m
Sewage and Waste water	**Sewage generation in KLD:**	3.8
	STP technology:	Domestic Sewage will be treated in secondary treatment of ETP as combined treatment.
	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:**	Quantity will be provided at the time of EIA
	Disposal of the construction waste debris:	Within premises in low lying area
Waste generation in the operation Phase:	**Dry waste:**	• Hazardous Waste: • Discarded containers/barrels/HDPE bags – 1764 Nos./M, Non-Hazardous Waste: • Waste paper - 330 kg/A • Boiler Ash –118800 kg/A
	Wet waste:	• Hazardous Waste: • ETP Sludge – 23.61 TPA • MEE salts –13.38 TPA • Spent Carbon from process – 4.96 TPA ;• Process Residue – 7.92 TPA; • Spent Carbon from ETP- 7.78 TPA
	Hazardous waste:	• Hazardous Waste: • ETP Sludge – 23.61 TPA • MEE salts –13.38 TPA • Spent Carbon from process – 4.96 TPA • Process Residue – 7.92 TPA • Discarded containers/barrels& liners used for HW/Chemicals 1764 nos./M ; • Spent Carbon from ETP- 7.78 TPA • Non-Hazardous Waste: • Waste paper- 330 kg/A • Boiler Ash – 118800 kg/A
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	• E-Waste- 102 kg/A • Battery waste- 200.04 kg/A
Mode of Disposal of waste:	**Dry waste:**	MPCB authorized party for reuse
	Wet waste:	CHWTSDF//To MPCB authorized recyclers
	Hazardous waste:	CHWTSDF/To MPCB authorized recyclers
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Sale to authorized dismantlers/Recyclers.
Area requirement:	**Location(s):**	Near ETP area
	Area for the storage of waste & other material:	Area for the storage of Hazardous waste 16 Sq.m.
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	27000
	O & M cost:	8.8 lacs/A

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	6.0-7.0	7.0-7.5	7.0-7.5
2	BOD3,27ºC	mg/lit	1500-1750	50-100	< 100
3	COD	mg/lit	3000-3500	100-200	< 250
4	TSS	mg/lit	400-500	<30	< 100
5	TDS	mg/lit	800-1000	500-700	< 2100

Amount of effluent generation (CMD):	Industrial: 49.00 CMD Domestic: 3.8 CMD
Capacity of the ETP:	60 CMD
Amount of treated effluent recycled :	58.08 CMD

Amount of water send to the CETP:	Not Applicable as this unit will be run on Zero Liquid Discharge (ZLD) Basis.
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	Industrial Effluent 49.00 CMD including cooling tower & Boiler blow downs will be treated in primary treatment. Primary treated wastewater along with domestic waste water of 3.8 CMD will be subjected to two-stage biodegradation as secondary treatment. The outlet of the secondary treatment will be pumped to Pressure Sand Filter (PSF) followed by Activated Carbon Filter (ACF). This effluent is then passed through Reverse Osmosis (RO). RO permeate will be will be reuse/recycle. RO reject will be ev
Disposal of the ETP sludge	CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Process waste sludge / residue	28.1	T/A	0.048	7.7872	7.92	To CHWTSDF
2	ETP Sludge	35.3	T/A	1.8	21.81	23.61	To CHWTSDF
3	MEE salts	35.3	T/A	--	13.38	13.38	To CHWTSDF
4	Spent Carbon from ETP	35.3	T/A	--	7.78	7.78	To CHWTSDF
5	Spent Carbon from process	28.3	T/A	1.38	3.58	4.96	To CHWTSDF
6	Discarded containers/barrels/HDPE bags	33.1	Nos./M	--	1764	1764	Sale to authorized dismantlers / Recyclers.
7	Other waste:	--	--	--	--	--	--
8	E-Waste	--	Kg/A	25.2	76.8	102	Sale to authorized dismantlers/ Recyclers
9	Battery waste	--	Kg/A	62.4	137.64	200.04	Returned to battery manufacturer through authorized dealer on buy back procurement
10	Non-Hazardous Waste Details:	--	--	--	--	--	--
11	Waste paper	--	Kg/A	116.4	213.6	330	Sale
12	HDPE bags	--	Nos./year	28200 Nos. /year	102972 Nos. /year	131172 Nos. /year	Reuse/sale to authorized party
13	Boiler Ash	--	Kg/A	--	118800	118800	Sale to Brick Manufacturer/cement industry

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler – 2 nos. of 4 TPH (Proposed)	Briquettes 22 TPD	1	30	0.7	125°C
2	Thermopac – 100000 Kcal./hr. (Proposed)	LDO 800 lit/month	1	30	0.4	130°C
3	DG Set – 1000 KVA (Proposed)	HSD, 265 lit/hr. at full load	1	7 m above enclosure	0.2	140°C
4	Note: Existing FO fired boiler & existing DG set will be dismantled.	--	--	--	--	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Briquettes	Not Applicable	22 TPD	22 TPD
2	LDO	Not Applicable	800 lit/month	800 lit/month
3	HSD	Not Applicable	265 Lit/hr.at full load	265 Lit/hr.at full load
41.Source of Fuel		Local & Imported		
42.Mode of Transportation of fuel to site		Through truck/ tanker by Road		

43.Green Belt Development	**Total RG area :**	Existing: 200 sq.m Proposed: 1254 sq.m. Total: 1454 sq. m
	No of trees to be cut :	No
	Number of trees to be planted :	190 Nos. of Trees and Shrubs to be planted
	List of proposed native trees :	Arjun, Vad, Pimpal, Neem, Kadamb, etc.
	Timeline for completion of plantation :	With the construction 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	Terminalia arjuna	Arjun	20	Pollution resistant and Native
2	Bauhinia racemosa	Apta	20	Pollution resistant and Native
3	Ficusbenghalensis	Vad	10	Pollution resistant and Native
4	Ficusreligiosa	Pimpal	15	Pollution resistant and Native
5	Ficuselastica	Rubber	10	Pollution resistant and Native
6	Plumeria Alba	Chafa	10	Pollution resistant and Native
7	Azadirachtaindica	Neem	20	Pollution resistant and Native
8	Cassia fistula	Bahava	25	Pollution resistant and Native
9	Neolamarckiacadamba	Kadamb	15	Pollution resistant and Native
10	Teminaliatomentosa	Ain	10	Pollution resistant and Native
11	Lagerstroemia speciosa	Taman	10	Pollution resistant and Native
12	Tectonagrandis	Teak	10	Pollution resistant and Native
13	Bauhinia purpurea	Kanchan	15	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	Will be hired on rent from local vendor
	During Operation phase (Connected load):	1450 KW
	During Operation phase (Demand load):	1342 KW
	Transformer:	750 KVA
	DG set as Power back-up during operation phase:	1 DG set of 1000 KVA. Existing DG will be dismantled.
	Fuel used:	HSD 265 Lit/hr. at full load
	Details of high tension line passing through the plot if any:	NO

48.Energy saving by non-conventional method:

Auro is proposing roof top solar system for illumination of office buildings, street lights & parking areas
Power generation from Solar panel system- 14 kW.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar power	1.04 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	65000
	O & M cost:	Rs. 3000/Annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust	Air Pollution	1.00
2	Debris	Solid Waste	1.00
3	Construction equipment	Solid Waste	0.50

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 Multi-cyclone followed by Bag filter & Stack of adequate height	5	0.20
2	Water pollution control	Effluent Treatment Plant, RO & Multi Effect Evaporator	176.91	96.66
3	Noise pollution Control	Acoustic enclosure and regular maintenance	1	0.50
4	Occupational health	Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, In-house first aid room, Other infrastructure and Equipment	4	3
5	Environmental Monitoring plan	Environmental Monitoring	--	2.108
6	Green belt	Development & Maintenance	0.5	0.2
7	Hazardous waste Storage & disposal	Storage, Transportation and disposal	0.27	8.8
8	Mitigation Measures for LCA (Installation of solar Panels)	--	0.65	0.03
9	Carbon Footprint Monitoring (Measures taken to reduce carbon footprint)	• Installation of solar Panels* for reduction of consumption of electricity which indirectly reduce carbon footprint. • Tree plantation*, Reduction of fuel consumption by using well efficient insulation to heating equipment.	0.55	0.014
10	Water Footprint Monitoring (Measures taken to reduce water footprint)	• Rain water harvesting & use of rain water in utilities & domestic • Recycle & reuse of treated waste water** in utilities Regular maintaince of equipments to reduce wastage of water due to leaks	0.5	0.2
11	Total	--	189.38	111.712

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
Dicyandiamide (DCDA)	Solid	warehouse	130	128.8	550	Local	By Road
Dimethylamine Hydrochloride (DMA HCL)	Solid	warehouse	150	141.4	606	Local	By Road
Xylene	Liquid	warehouse	50	50	25	Local	By Road
Toluene	Liquid	warehouse	1	0.70	3.6	Local	By Road
Cyanobase	Liquid	warehouse	0.50	0.10	0.6	Local	By Road
Caustic Potash Flakes	Solid	warehouse	0.50	0.05	0.25	Local	By Road
Malic Acid	Solid	warehouse	0.50	0.03	0.19	Local	By Road
IPA	Liquid	warehouse	1	0.40	1.88	Local	By Road
Polyvinylpyrrolidone K-30	Solid	warehouse	1.5	1.0	7.5	Local	By Road
Sodium Starch Glycollate	Solid	warehouse	1	0.80	3.6	Local	By Road
Maize Starch	Solid	warehouse	1	0.40	1.8	Local	By Road
Aerosil	Solid	warehouse	0.50	0.25	1.25	Local	By Road
Magnesium Stearate	Solid	warehouse	0.50	0.10	0.6	Local	By Road
Glimepiride Sulfonamide	Liquid	warehouse	0.50	0.02	0.16	Local	By Road
Potassium carbonate	Solid	warehouse	0.50	0.02	0.14	Local	By Road
Trans-4-methylcuclohexyl isocyanate	Solid	warehouse	0.50	0.15	0.80	Local	By Road
Liq. AMMONIA	Liquid	warehouse	0.50	0.04	0.2	Local	By Road
Glipizidesulfamide	Solid	warehouse	0.50	0.02	0.10	Local	By Road
Anhydrous potassium carbonate	Solid	warehouse	0.50	0.02	0.09	Local	By Road
Cychlohexylisocyanate	Liquid	warehouse	0.50	0.2	0.20	Local	By Road
N.Amino-3-Azabicyclo	Solid	warehouse	0.50	0.02	0.1	Local	By Road
Ethyl Acetate	Liquid	warehouse	0.50	0.07	0.37	Local	By Road
Acetonitrile	Liquid	warehouse	0.50	0.07	0.32	Local	By Road
Glibenclamidesufamide	Solid	warehouse	0.50	0.02	0.11	Local	By Road
Dimethyl formamide	Liquid	warehouse	0.50	0.10	0.6	Local	By Road
Caustic soda	Liquid	warehouse	0.50	0.05	0.23	Local	By Road
Activated Carbon	Solid	warehouse	0.50	0.1	0.42	Local	By Road
Methanol	Solid	warehouse	60	50	55	Local	By Road
Acetone	Liquid	warehouse	0.50	0.25	1.6	Local	By Road
HCL	Liquid	warehouse	0.50	0.10	0.48	Local	By Road
Methylene di chloride	Liquid	warehouse	0.50	0.30	1.4	Local	By Road
Chlorzoxazone	Solid	warehouse	1.5	1.00	1.00	Local	By Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Not Applicable
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	219 Sq. Mtr.
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6 m. with turning radius of 9 m.
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No such areas within 10 km radius circle.
	Category as per schedule of EIA Notification sheet	5 (f) 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	28-11-2018

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 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 during 158th meeting of SEAC-1 held on 02.01.2019 wherein ToR was granted to the PP for the preparation of EIA /EMP report along with additional 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.

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

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

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

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

PP submitted EIA/EMP report in 165th meeting of SEAC-1 wherein the proposal was deferred till submisison of complinace of following points,

1. PP to submit revised layout showing vehicle movements plan, and adequate parking space within the plot area.

2. PP to submit revised contour map along with storm water drain and its calculations.

3. PP to submit detailed safety management plan to carry out safe demolition of existing structures along with necessary work permits procedures.

4. PP to include all the processes, activities in the HAZOP and submit revised HAZOP reports along with recommendations and proposed safety measures.

5. PP to submit detailed report on identified inland surface water baseline parameters in comparison with standard limits.

6. PP to submit point wise compliance of standard ToR points.

7. PP to include all above points in the EIA/EMP report and submit revised EIA/EMP report.

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

Now PP submitted compliance of above points.

DECISION OF SEAC

During deliberations, PP requested to postpone the proposal.

Hence, deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

168th Meeting of State Level Expert Appraisal Committee – 1 (SEAC – 1) (Day – 1)

SEAC Meeting number: 168 **Meeting Date** August 26, 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.Whether in Corporation / Municipal / other area	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	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 timeAs 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 to provide STP for the treatment of domestic sewage.
Drainage pattern of the project	PP considered contour levels during design of storm water drains.
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits.

Solid Waste Management	Only waste oil is to be generated as hazardous waste which will be sold to authorized vendor.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site. PP to ensure closed transportation of all material so as to avoid air pollution and impact on surrounding environment.
Energy Management	The electrical demand for proposed project is 0.6 MW which will be supplied by MSEDCL. PP proposes one DG sets with capacity of 125 KVA.
Traffic circulation system and risk assessment	PP proposes internal roads with minimum six meter width and nine meters of turning radius for smooth circulation of traffic.
Landscape Plan	PP provided 33% green belt within the premises.
Disaster management system and risk assessment	PP prepared on site emergency plan.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes Rs. 4.50 Lakh EMP cost during construction phase, Rs. 22.50 Lakhs as capital cost and Rs. 4.50 Lakhs and recurring cost for the maintenance of environmental parameters during operation phase.
Any other issues related to environmental sustainability	PP to provide dust collector at the tripper, screening and crushing activity areas.

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.

PP submitted the EIA/EMP reprot for appraisal in 159th (A) SEAC-1 meeting held on 01.02.2019 wherein the proposla was deferred due to inadequate information

DECISION OF SEAC

During deliberations, it was observed that, the total area of proposed Survey No. 131/1(p) & 131/2 (p) is 3.96 Ha. Out of which PP applied for only 16187.40 Sq.m.

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

Specific Conditions by SEAC:

1) PP shall restrict proposed activity on the plot area of 16187.40 Sq.m.
2) PP to provide dust collector at the tripper, screening and crushing activity..
3) The process will generate effluent. The mode of treatment of the waste water involving flocculation and sedimentation with recycling measures will yield sludge and effluent which needs to be analyzed for heavy metals and phenol compounds. Depending on the characteristics of the sludge the mode of final disposal shall be carried out as per prevailing rules. Treated effluent shall be used for coal washing so as to achieve Zero Liquid Discharge. Sludge shall be be watered before scientific disposal.
5) PP to ensure to use mine water from Western Coal Field as committed during the meeting.
6) PP to provide STP/Packaged STP for the treatment of domestic sewage.
8) PP to upload copies of MOU/agreement made with parties for disposal of deshaled coal.
9) PP to upload undertaking for closed transportation of all material so as to avoid air pollution and impact on surrounding environment.
10) PP to prepare and implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.

FINAL RECOMMENDATION

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

168th Meeting of State Level Expert Appraisal Committee – 1 (SEAC – 1) (Day – 1)

SEAC Meeting number: 168 **Meeting Date** August 26, 2019

Subject: Environment Clearance for constructed 3 additional tanks for storage of 1 x 2,984 KL MS , 1 x 4,160 KL HSD and 1 x 50 KL Ethanol at IOCL Pune Terminal, Kadam Wak Wasti, Loni Kalbhor, Tal. Haveli, PuneSolapur Road, Pune District 412201, Maharashtra.

Is a Violation Case: Yes

1.Name of Project	Environmental Clearance for constructed 3 additional tanks for storage of 1 x 2,984 KL MS , 1 x 4,160 KL HSD and 1 x 50 KL Ethanol at IOCL Pune Terminal, Kadam Wak Wasti, Loni Kalbhor, Tal. Haveli, PuneSolapur Road, Pune District 412201, Maharashtra.
2.Type of institution	Semi Government
3.Name of Project Proponent	Mr. Ramesh Kasbekar
4.Name of Consultant	ABC Techno Labs India Pvt. Ltd. Corporate Office: ABC TOWER No. 400 , 13th Street, SIDCO Industrial Estate- North Phase , Ambattur Chennai – 600 098,Tamil Nadu, India. Branch Office Mumbai : A-355, Balaji Bhavan, Plot No. 42 A, Sector 11, CBD Belapur, Navi Mumbai – 400614. Maharashtra, India, Tel: 022 27580044
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NO
8.Location of the project	181 to 198,179 A.B.,180,1133,1134,1135,198,201
9.Taluka	Haveli
10.Village	Loni Kalbhor
Correspondence Name:	Indian Oil Corporation Limited
Room Number:	--
Floor:	--
Building Name:	Pune Terminal, Indian Oil Corporation Ltd
Road/Street Name:	Kadam Vak Vasti, Pune Solapur Highway
Locality:	Loni Kalbhor
City:	Pune
11.Whether in Corporation / Municipal / other area	Kadam Vak Vasti-Grampanchayat
12.IOD/IOA/Concession/Plan Approval Number	NA **IOD/IOA/Concession/Plan Approval Number:** NA **Approved Built-up Area:**
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	1,07,192 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:** 10-12-2018
19.Total ground coverage (m2)	Not applicable

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	39300000

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)	0
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	HSD	18,536 KL	4, 160 KL	22,696 KL
2	MS	4068 KL	2,984 KL	7052 KL
3	Ethanol	200 KL	50 KL	250 KL

32.Total Water Requirement

Dry season:	**Source of water**	Borewell
	Fresh water (CMD):	13
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	3
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	13
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	Not applicable
Wet season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	10	0	10	8.8	0	8.8	1.2	0	1.2

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:	6
	Size of recharge pits :	2 ft X 2ft
	Budgetary allocation (Capital cost) :	10 Lakhs
	Budgetary allocation (O & M cost) :	3 Lakhs
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	--
	Size of SWD:	--
Sewage and Waste water	**Sewage generation in KLD:**	1.2
	STP technology:	Seawage will be disposed in 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:**	--
	Disposal of the construction waste debris:	--
Waste generation in the operation Phase:	**Dry waste:**	12 kg/day
	Wet waste:	18 kg/day
	Hazardous waste:	--
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--

Mode of Disposal of waste:	**Dry waste:**	It will be handed over to authorized recycler
	Wet waste:	Through Composting
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--
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	NA	NA	NA	NA	NA

Amount of effluent generation (CMD):	0
Capacity of the ETP:	0
Amount of treated effluent recycled :	0
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 Spent oil	3.1	lit	Negigible	0	Negligible	--

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG Set	HSD	1	6	--	--
2	DG set	HSD	1	6	--	--
3	Fire Engines	HSD	1	6	--	--
4	Fire Engines	HSD	1	6	--	--
5	Fire Engines	HSD	1	6	--	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	15 lit/hr	0	15 lit/hr

41.Source of Fuel	HPCL Terminal (OMC)
42.Mode of Transportation of fuel to site	Pipeline

43.Green Belt Development	**Total RG area :**	41,477 Sq. M.
	No of trees to be cut :	NIL
	Number of trees to be planted :	0
	List of proposed native trees :	NIL
	Timeline for completion of plantation :	NA

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	--	--	--	--
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)	--
	DG set as Power back-up during construction phase	--
	During Operation phase (Connected load):	500 KvA
	During Operation phase (Demand load):	500 KvA
	Transformer:	--
	DG set as Power back-up during operation phase:	2 X 320
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

All light fixtures in admin building, control room, customer care room, etc are replaced with LED lights. However, proposal for replacement of lights of High mast, street lamps and other lights with LED lights in field area is in process for approval at State Office

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

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

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

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	Green Belt / Horticulture	25	5
2	Rain Water Harvesting	Rain Water Harvesting	10	3
3	Water Pollution	Water management	5	1
4	Sinages	Signage's for EMP	2	0.5
5	Solid Waste Management	Municipal Waste Management	2.5	0.5
6	Noise Pollution	Noise Control Measures	1.0	0.3
7	Environment Monitoring	Environment Monitoring	--	5.0
8	Training & Awareness	Environmental Awareness and Training	3.0	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
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:	--
Parking details:	**Number and area of basement:**	--
	Number and area of podia:	--
	Total Parking area:	144 Sq. m
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	--
	Public Transport:	--
	Width of all Internal roads (m):	--
	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	B As per the Schedule of EIA notification 2006, with reference to OM dated 15th March 2018, regarding implementation of notification S.O. 1030 (E) dated 8th March 2018, now all category B (Violation) projects has been considered by respective SEAC
	Court cases pending if any	No
	Other Relevant Informations	As per EIA Notification S.O. No 1533 issued on 14th September, 2006 and its subsequent amendments, additional 3 tanks at IOCL Pune terminal is falling under Schedule 6(b) – Isolated storage & handling of hazardous chemicals and 'Category B'. But Three tanks were already constructed and treated as category A. Hence, this project has been approved and prepared based on the Terms of Reference approved during 4th Meeting of from Expert appraisal committee (EAC) held on 19th February, 2018 for additional 3 tanks at IOCL Pune terminal. Now, with reference to OM dated 15th March 2018, regarding implementation of Notification S.O. 1030 (E) dated 8th March, now all category B (violation) projects has been considered by respective SEAC.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	10-05-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

PP has obtianed ToR from EAC , MoEF&CC in their 4th meeting held on 19th February, 2018 for additional 3 tanks at IOCL, Akola Dpeot under violation cateogry as per notification issue dby MoEF&CC dated 8th March, 2018.

The proposal was considered in the 159th A meeting of SEAC-1 held on 02.02.2019 where in the proposal was deferred for following reason,

"During deliberations with the PP and their accredited consultant it was aobservd that PP has not carried out ecological damage assessment and not prepared remediation and natural and community resource augmentation plan as required under notifications issued by MoEF&CC dated 08.03.2018, 15.03.2018 & 16.03.2018.

Hence SEAC-1 decided to defer the proposal till PP submits revised EIA /EMP report including above mentioned details."

The proposal was again considered in the 167th meeting held on 11.07.2019 wherein PP requested to postpone the case.

DECISION OF SEAC

PP submitted letter for withdrawal their application in view of Notificataion issued by MoEF&CC dated 13.06.2019.

On PP's request SEAC-1 decided to allow PP to withdraw the application and decided to delist the same.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.

168th Meeting of State Level Expert Appraisal Committee – 1 (SEAC – 1) (Day – 1)

SEAC Meeting number: 168 **Meeting Date** August 26, 2019

Subject: Environment Clearance for Existing 3 additional above ground tanks for the storage capacity of 1 x 2,929 KL HSD & 1 x 2,933 KL HSD & 1x 1,347 KL MS at IOCL Akola Depot, Maharashtra.

Is a Violation Case: Yes

1.Name of Project	Environmental Clearance for existing 3 additional above ground tanks for the storage of 1 x 2929 KL HSD & 1 x 2933 KL HSD & 1 x 1347 KL MS at IOCL Akola depot by Indian oil corporation limited
2.Type of institution	Semi Government
3.Name of Project Proponent	Mr. Ramesh Kasbekar
4.Name of Consultant	ABC Techno labs India Private Limited , Corporate Office: ABC TOWER No. 400 , 13th Street, SIDCO Industrial Estate- North Phase , Ambattur Chennai – 600 098 Tamil Nadu, India., Mumbai Office: A-355, Balaji Bhavan, Plot No. 42 A, Sector 11, CBD Belapur, Navi Mumbai – 400614. Maharashtra, India, Tel: 022 27580044
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environmental clearance not applicable as Tankages Constructed before EIA Notification 2006.
8.Location of the project	At Survey no. 295,296, 298, 299, 300, 301, 310, 311, 744, 745, 476
9.Taluka	Balapur
10.Village	Gaigaon
Correspondence Name:	Indian Oil Corporation Limited (IOCL)
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	Village
City:	Akola
11.Whether in Corporation / Municipal / other area	Gaigaon Gram Panchyat, Tehsil Balapur, District Akola, Maharashtra – 444109.
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	1,87,500 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: 06-12-2018
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable

21.Estimated cost of the project	39300000

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	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	HSD	2 X 1954 KL & 1 X 2953 KL	1 X 2929 KL & 1 X 2933 KL	12723 KL
2	MS	2 X 282 KL & 1 X 1100 KL	1 X 1347 KL	3011 KL
3	SKO	1 X 1951 KL & 1 X 1954 KL	--	3905 KL
4	ETHANOL	1 X 50 KL & 1 X 70 KL	--	120 KL

32.Total Water Requirement

Dry season:	**Source of water**	Bore well
	Fresh water (CMD):	5
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	2
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	5
	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	3	0	3	--	0	--	2..5	--	2.5
Gardening	2	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):	Within plant only
	Quantity of recharge pits:	Nil
	Size of recharge pits :	192 KL
	Budgetary allocation (Capital cost) :	0.2 lakhs
	Budgetary allocation (O & M cost) :	2.4 lakhs
	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:**	2.5
	STP technology:	Domestic sewage generated onsite is currently treated in septic tank and disposed off through soak pit.
	Capacity of STP (CMD):	0
	Location & area of the STP:	Nil
	Budgetary allocation (Capital cost):	0
	Budgetary allocation (O & M cost):	0
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	--
	Disposal of the construction waste debris:	--
Waste generation in the operation Phase:	**Dry waste:**	33.5 kg(0.5kg/person/day)
	Wet waste:	--
	Hazardous waste:	--
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--

Mode of Disposal of waste:	**Dry waste:**	Solid waste is being handed over to authorized recycler.
	Wet waste:	--
	Hazardous waste:	--
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--
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:**	0
	O & M cost:	0

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	NA	NA	NA	N A	NA

Amount of effluent generation (CMD):	0
Capacity of the ETP:	0
Amount of treated effluent recycled :	0
Amount of water send to the CETP:	N A
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 Spent oil	3.1	--	--	--	--	--

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG set	HSD	1	5.5	--	--
2	Fire engines	HSD	1	3.5	--	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD (DG set)	--	40 ltr/hrs at full load	40 ltr/hrs at full load
2	HSD (Fire engines)	--	40 ltr/hrs at full load	40 ltr/hrs at full load

41.Source of Fuel	Near by market
42.Mode of Transportation of fuel to site	by road

43.Green Belt Development	**Total RG area :**	61,875.0 sq.m
	No of trees to be cut :	0
	Number of trees to be planted :	200
	List of proposed native trees :	--
	Timeline for completion of plantation :	--

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

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

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	--
	DG set as Power back-up during construction phase	--
	During Operation phase (Connected load):	400 KW
	During Operation phase (Demand load):	400 KW
	Transformer:	--
	DG set as Power back-up during operation phase:	2 * 250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

All light fixtures in admin building, control room, customer care room, etc are replaced with LED lights. However, proposal for replacement of lights of High mast, street lamps and other lights with LED lights in field area is in process for approval at State Office.

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

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

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air pollution	Air pollution control and monitoring	0.25	3
2	Water pollution	Water pollution management	0.1	1.2
3	Noise pollution	Noise Pollution control	0.56	6.72
4	Green belt development, rain water harvesting, watershed management	Green belt development, rain water harvesting, watershed management	0.2	2.4

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
N A	N A	N A	N A	N A	N A	N A	N A

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	--
	Number and area of podia:	--
	Total Parking area:	6250 sq.m
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	--
	Public Transport:	--
	Width of all Internal roads (m):	--
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Category B as per schedule of EIA Notification 2006.With reference to OM dated 15th March 2018, regarding implementation of Notification S.O.1030 (E) dated 8th March 2018, Now all category B (VIolation) projects has been considered by respective SEAC .
	Court cases pending if any	No
	Other Relevant Informations	As per EIA Notification S.O. No 1533 issued on 14th September, 2006 and its subsequent amendments, additional 3 tanks at IOCL Akola depot is falling under Schedule 6(b) – Isolated storage & handling of hazardous chemicals and 'Category B'. But Three tanks were already constructed so said project treated as category A. Hence, this project has been approved and prepared based on the Terms of Reference approved during 4th Meeting of from Expert appraisal committee (EAC) held on 19th February, 2018 for additional 3 tanks at IOCL Akola depot. Now With reference to OM dated 15th March 2018, regarding implementation of Notification S.O.1030 (E) dated 8th March 2018, all category B (Violation) projects has been considered by respective SEAC.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	05-05-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable

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

Brief information of the project by SEAC

PP has obtianed ToR from EAC , MoEF&CC in their 4th meeting held on 19th February, 2018 for additional 3 tanks at IOCL, Akola Dpeot under violation cateogry as per notification issue dby MoEF&CC dated 8th March, 2018.

The proposal was considered in the 159th meeting of SEAC-1 wherein the proposal was deferred for following reason,

During deliberations with the PP and their accredited consultant, it was aobservd that, PP has neither carried out ecological damage assessment nor prepared remediation and natural and community resource augmentation plan as required under notifications issued by MoEF&CC dated 08.03.2018, 15.03.2018 & 16.03.2018.

Hence, SEAC-1 decided to defer the proposal till PP submits revised EIA /EMP report including above mentioned details.

The proposal was again considerd in the 167th meeting held on 11.07.2019 wherein PP requested to postpone the case.

DECISION OF SEAC

PP submitted letter for withdrawal their application in view of Notificataion issued by MoEF&CC dated 13.06.2019.

On PP's request SEAC-1 decided to allow PP to withdraw the application and decided to delist the same.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.

168th Meeting of State Level Expert Appraisal Committee – 1 (SEAC – 1) (Day – 1)

SEAC Meeting number: 168 **Meeting Date** August 26, 2019

Subject: Environment Clearance for Environmental Clearance for - : Industrial Project

Is a Violation Case: No

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

1.Name of Project	M/s. Sant Gyaneshwar Steel Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vinod Vedprakash Goyal
4.Name of Consultant	S G M Enviro (I) Pvt. Ltd., Pune.
5.Type of project	Industrial Estate
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	NA
8.Location of the project	Gat No. 1076/77, Golegaon Road
9.Taluka	Khed
10.Village	Markal
11.Whether in Corporation / Municipal / other area	Located in Industrial zone
12.IOD/IOA/Concession/Plan Approval Number	Zonal Certificate has been received.
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 1616.94
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.)	15700 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.): 1616.94
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	312500000

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)	12m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	15 m
29.Existing structure (s) if any	Yes. Expansion of the Existing project.
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	MS Ingots	36000	1,20,000	1,56,000
2	Runner riser	720	0	720

32.Total Water Requirement

Dry season:	**Source of water**	Tanker
	Fresh water (CMD):	53.2
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	61.7 (Existing) + 53.2 (Expansion)=114.9
	Fire fighting - Underground water tank(CMD):	Ground level water tank - 20
	Fire fighting - Overhead water tank(CMD):	90
	Excess treated water	0

Wet season:	**Source of water**	Tanker
	Fresh water (CMD):	53.2
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	61.7 (Existing) + 53.2 (Expansion)=114.9
	Fire fighting - Underground water tank(CMD):	Ground level water tank - 20
	Fire fighting - Overhead water tank(CMD):	90
	Excess treated water	0
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	1.2	1.9	3.1	0.2	0.2	0.4	1	1.7	2.7
Industrial Process	0	0	0	0	0	0	0	0	0
Cooling tower & thermopack	60	50	110	60	50	110	0	0	0
Gardening	0.5	1.3	1.8	0.5	1.3	1.8	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	80-90 m
	Size and no of RWH tank(s) and Quantity:	The rainwater harvesting structure will be decided during detailed engineering of the project.
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	The rainwater harvesting structure will be decided during detailed engineering of the project.
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	5
	Budgetary allocation (O & M cost) :	2
	Details of UGT tanks if any :	UGT tank of capacity-100 CMD

35.Storm water drainage	**Natural water drainage pattern:**	North West to South East
	Quantity of storm water:	10 Cum/sec
	Size of SWD:	300 x 300 mm
Sewage and Waste water	**Sewage generation in KLD:**	Existing 1 CMD +Proposed 1.7 CMD Total=2.7CMD
	STP technology:	Domestic effluent generated will be sent to Septic Tanks followed by soak pits.
	Capacity of STP (CMD):	NA
	Location & area of the STP:	On ground
	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:**	Negligible amount of waste will get generated
	Disposal of the construction waste debris:	Waste shall be sent to authorized dealer.
Waste generation in the operation Phase:	**Dry waste:**	Scrap : Existing – 120 MT/Annum, Proposed : 360 MT/ Annum, Total – 480 MT/Annum Slag : Existing – 1200 MT/Annum, Proposed : 8400 MT/ Annum, Total – 9600 MT/Annum
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Scrap: Reused in process. Slag : Sale to authorized vendor
	Wet waste:	NA
	Hazardous waste:	NA
	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	NA	NA	NA	NA	NA

Amount of effluent generation (CMD):	Nil
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	NA	NA	NA	NA	NA	NA	NA

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Existing Electric Furnace	Electricity	1 -Existing stack	30	0.8	120
2	Existing D.G. Set	LDO	2 -Existing stack	2.0 m above roof	0.15	70
3	proposed Electric Furnace	Electricity	3 - proposed stack	30	1.2	120
4	Proposed D.G. Set	LDO	4- Proposed stack	2.0 m above roof	0.15	70

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	LDO	6 lit/hr	6 lit/hr	12 lit/hr

41.Source of Fuel	Local vendor
42.Mode of Transportation of fuel to site	By road

43.Green Belt Development	**Total RG area :**	Existing- 3699.48 m2 , Proposed- 1894.27 m2 , Total= 5593.75 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	Existing trees= 429 Nos
	List of proposed native trees :	Industry have already planted adequate no. of trees. List of all the Existing trees with their quantities is given below.
	Timeline for completion of plantation :	Industry have already planted adequate no. of trees

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	Platycladus orientalis	Morpankhi	1	They are widely grown as ornamental trees, and extensively used for hedges
2	Ficus racemosa	Umbar	1	For people whose skin is especially sensitive to insect bites, this is a very simple home remedy.
3	Combretum indicum	Boganbel	50	The flowers change in color with age and it is thought that this is a strategy to gather more pollinators.
4	Other	NA	25	NA
5	Mangifera Indica	Mango	6	Deep route, Evergreen
6	Ficus benghalensis	Banyan	5	Native to the Indian Subcontinent.
7	Delonix regia	Gulmohar	3	Quick growing
8	Leucaena leucocephala	Subabhul	153	Evergreen
9	Polyalthia longifolia	Ashoka	8	Lofty evergreen tree, native to India, commonly planted due to its effectiveness in alleviating noise pollution.
10	Bauhinia racemosa	Apta	3	Flowering shrub, Native to India.
11	Azadirachta indica	Neem	30	Fast growing
12	Vachellia nilotica	Babhul	4	Slow growing, long lived
13	Hyophorbe lagenicaulis	Bottle palm	18	bottle shaped trunk
14	Phyllanthus emblica	Awla	1	Gives edible fruit
15	Senegalia catechu	Khair	3	deciduous and has short hooked spines
16	Ixora coccinea	Jangli	4	used in warm climates for hedges and screens, foundation plantings, massed in flowering beds
17	Terminalia catappa	Amond Tree	1	large tropical tree, provides fruit with edible seed
18	Ziziphus jujuba	Bor	3	Evergreen shrub
19	Tamarindus indica	Chinch	1	edible fruit
20	Cocos nucifera	Nariyal	10	Inside it contains one seed, rich in reserve substances located in the endosperm which is partly liquid (coconut milk), partly solid (flesh).
21	Manilkara zapota	Chiku	5	An unripe fruit has a firm outer skin and when picked, releases white chicle from its stem. A fully ripened fruit has saggy skin and does not release chicle when picked.
22	Citrus Limonum	Limbu	4	The juice of the lemon is about 5% to 6% citric acid, which gives a sour taste.
23	Citrus limetta	Mosambi	1	Fruits are oval and green, ripening to yellow, with greenish pulp.

24	Plumeria obtusa	Chapha	8	This plant is commonly used as an ornamental, grown for its flowers.
25	Moringa oleifera	Shewga	40	It can also be used for water purification and hand washing, and is sometimes used in herbal medicine.
26	Punica granatum	Dalimb	2	As intact arils or juice, pomegranates are used in baking, cooking, juice blends, meal garnishes, smoothies, and alcoholic beverages, such as cocktails and wine.
27	Rosa Damascena	Gulab	30	The flowers are renowned for their fine fragrance, and are commercially harvested for rose oil used in perfumery and to make rose water and "rose concrete". The flower petals are also edible. They may be used to flavor food, as a garnish, as an herbal tea, and preserved in sugar as gulkand.
28	Murraya koenigii	Kadipatta	1	Most commonly used in curries, leaves from the curry tree can be used in many other dishes to add flavor
29	Aegle marmelos	Bel	1	Its fruits are used in traditional medicine and as a food throughout its range.
30	Hibiscus	Jaswand	7	Evergreen shrub The flower is additionally used in hair care as a preparation.
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):	Existing Connected Load -4990 KVA, Proposed Connected Load -10,000 KVA,Total-14990 KVA
	During Operation phase (Demand load):	Existing Maximum Demand -4990KVA, Proposed Maximum Demand - 10,000KVA, Total - 14990 KVA
	Transformer:	Existing (2 Nos) of capacities 6250KVA & 750KVA, Proposed (1 No) of 12000 KVA
	DG set as Power back-up during operation phase:	Existing- 1 no. of 250 KVA, Proposed 1 no. of 250 KVA
	Fuel used:	LDO
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Use of Solar Energy

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use of Solar Energy	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Water	Septic tank & soak Pit	Septic tank & soak Pit
Air	Proper stack height is provided with Fume Extraction system with Dust Collector	Proper stack height with Fume extraction system & dust collector will be provided
Noise	Acoustic enclosures.	Acoustic enclosures.
Solid Waste	Separate Storage Area	Separate Storage Area

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	10
	O & M cost:	2

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution	Air Pollution Control measures such as provision of Stack & other APC measures	70	15
2	Water Pollution	septic tank & soak pit	NA	NA
3	Noise Pollution	Noise Pollution Control measures as Acoustic enclosures& Earmuff, Earplug if required	2	0.50
4	Environment Monitoring and Management	Environment Monitoring and Management	-	1
5	Occupational Health	Occupational Health & Safety measures	5	1.5
6	Green Belt	Green Belt Development	5	2
7	Rain Water	Rain Water Harvesting	5	0.5
8	Solid waste	Solid waste management	2	0.5
9	Energy Conservation	Use of Solar Energy	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
NA	NA	NA	NA	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	2360.28
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	Nearest Road=Alandi-Markal Road at 0.95 Km
	Width of all Internal roads (m):	internal roads of 9 m & 15 m as per requirement
	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	3 (a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-01-1900

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
31	Product Name- MS Ingots	Product Name- MS Ingots & Billets
31	Unit of Production Quantity is written as MT/M	Actual Unit of Production Quantity is MT/A

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 3(a)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 the 139th meeting of SEAC-1 held on 30.06.2017 wherein ToR was grnated to the PP fo rhte preparation of EIA/EMP reprot.

Public hearing is applicable.

DECISION OF SEAC

PP submitted letter dated 17.05.2019 requesting to include product "Billets" along with the "Ingots" in Sr. No. 33 of the Consolidated Statement. The production quantity will not be changed.

After deliberations with the PP , their accredited consultant and understanding the difference between the Ingots and Billets, SEAC-1 decided to allow PP to correct the CS as requested vide letetr dated 17.05.2019.

Specific Conditions by SEAC:

1) PP to submit year wise details of products manufactured with their names from the existence of the manufacturing facility, quantities, effluent generation etc. PP also to submit copies of earlier consent copies obtained from Maharashtra Pollution Control Board.
2) PP proposes water supply by tankers; PP to submit their plan for sustained water supply.
3) PP to submit design details of cooling tower including blow down quantity of water.
4) PP to provide sewage treatment plant for the treatment of domestic sewage.
5) PP to submit details of rain water harvesting plan in the EIA report.
6) PP to collect water sample from upstream and downstream of the Indrayani river and include the same in EIA report.
7) PP to include heavy metal parameters in the soil sample and submit analysis report.
8) PP to submit stability certificate of the earlier buildings.
9) PP to ensure 33% green coverage within the plant premises.
10) PP to submit Disaster Management Plan along with EIA report.
11) PP to submit layout plan showing internal road width of six meters and turning radius nine meters, location of ETP, DG sets etc.

FINAL RECOMMENDATION

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