154th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 154th ,Day-2 **Meeting Date** August 28, 2018

Subject: Environment Clearance for Environment Clearance for Proposed Production of MS Billet Capacity 750 MTD

Is a Violation Case: No

1.Name of Project	M/s. Bhagyalaxmi Metals Pvt.Ltd. (Formerly known as Bhagyalaxmi Rolling Mill Ltd)
2.Type of institution	Private
3.Name of Project Proponent	Mr. Nitin Kabra
4.Name of Consultant	Mantras Green Resources Limited, Nashik.
5.Type of project	Industrial Project
6.New project/expansion in existing project/modernization/diversification in existing project	Proposed MS Billets.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Gut No. 30, Daregaon
9.Taluka	Jalna
10.Village	Daregaon
Correspondence Name:	Mr. Nitin Kabra
Room Number:	Gut No. 30
Floor:	NA
Building Name:	NA
Road/Street Name:	Daregaon
Locality:	Adjacent to Jalna MIDC Daregaon Grampanchayat
City:	Jalna
11.Area of the project	Daregaon Grampanchayat
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 4701
13.Note on the initiated work (If applicable)	No
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	Land earmarked for proposed plant is 21100.17 SQM (Total Plot area Available 36400 SQM)
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.): 4701
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 00
	Approved Non FSI area (sq. m.): 00
	Date of Approval: 30-11-2017
19.Total ground coverage (m2)	00
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	00
21.Estimated cost of the project	1610000000

22.Number of buildings & its configuration

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

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1	Industrial Shed	02	20-25 meters

23.Number of tenants and shops	00
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)	20 metre
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius will be 09 meters and internal roads will be 06 meters wide.
29.Existing structure (s) if any	NA
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 Billets	0	22500	22500

32.Total Water Requirement

Dry season:	**Source of water**	Own captive water Reservoir
	Fresh water (CMD):	129 CMD
	Recycled water - Flushing (CMD):	04 CMD from treated water from STP
	Recycled water - Gardening (CMD):	30 CMD (04 CMD Treated water from STP will be used for gardening)
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	129 CMD
	Fire fighting - Underground water tank(CMD):	150 CMD
	Fire fighting - Overhead water tank(CMD):	Over head tank is proposed
	Excess treated water	Not applicable

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Wet season:	**Source of water**	Own captive water Reservoir
	Fresh water (CMD):	129 CMD
	Recycled water - Flushing (CMD):	04 CMD from treated water from STP
	Recycled water - Gardening (CMD):	30 CMD (04 CMD Treated water from STP will be used for gardening)
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	129 CMD
	Fire fighting - Underground water tank(CMD):	150 CMD
	Fire fighting - Overhead water tank(CMD):	Over head tank is proposed
	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	06	06	00	02	02	00	04	04
Cooling tower & thermopack	00	93	93	00	93	93	00	00	00
Gardening	00	30	30	00	30	30	00	00	00
Fresh water requirement	00	00	129	00	00	00	00	00	00

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre monsoon 10-15 M below ground level. Post monsoon 5-10 M below ground level.
	Size and no of RWH tank(s) and Quantity:	Proposed Rainwater harvesting will be Two nos. (Number of Tank will be increased if require)
	Location of the RWH tank(s):	Within the premises
	Quantity of recharge pits:	10 Nos
	Size of recharge pits :	Rainwater harvesting plan incorporated in EIA Report
	Budgetary allocation (Capital cost) :	28.00 lakhs
	Budgetary allocation (O & M cost) :	6.00 lakhs.
	Details of UGT tanks if any :	Under ground water storage tank will be constructed as per fighting norms. Additional tank will be construct if required.
35.Storm water drainage	**Natural water drainage pattern:**	Storm water drain system will be constructed around the plant.
	Quantity of storm water:	Incorporated in EIA report
	Size of SWD:	Incorporated in EIA report
Sewage and Waste water	**Sewage generation in KLD:**	04 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 no & 10 KLD capacity
	Location & area of the STP:	In the premises
	Budgetary allocation (Capital cost):	12.50 Lakhs
	Budgetary allocation (O & M cost):	4.40 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction waste debris
	Disposal of the construction waste debris:	waste debris will be utilized for land filling.
Waste generation in the operation Phase:	**Dry waste:**	Slag, process dust: 30 MTD. Disposal: Slag and process dust will be sale to bricks manufacturers.(Slag: 2-3% and process dust: 0-1%)
	Wet waste:	No
	Hazardous waste:	No
	Biomedical waste (If applicable):	No
	STP Sludge (Dry sludge):	0.2 MTA
	Others if any:	Not applicable

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Mode of Disposal of waste:	**Dry waste:**	Slag will be crushed in slag crusher and iron will be recovered by magnet and recycle. Slag is also used for brick making, concrete mixing. slag was used on trial basis for concreting of roads, construction material inside the factory.
	Wet waste:	No
	Hazardous waste:	No any hazardous waste will be generated in this unit
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	It will used as manure for gardening plantation.
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Within the plant area.
	Area for the storage of waste & other material:	192SQM
	Area for machinery:	100 sqm area for slag crusher.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	75.00 Lakhs
	O & M cost:	15. Lakhs

37.Effluent Charecterestics

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

Amount of effluent generation (CMD):	00
Capacity of the ETP:	00
Amount of treated effluent recycled :	00
Amount of water send to the CETP:	00
Membership of CETP (if require):	No
Note on ETP technology to be used	Settling tank will be constructed for cooling and sludge settling, after settling and cooling water is reuse for cooling.
Disposal of the ETP sludge	For brick manufacturing.

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Induction Furnace and Rolling Mill	Electricity	1	35	1.6	50 degree centigrade

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Electricity	00	20.00 MW	20.00 MW

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41.Source of Fuel	MSEDCL
42.Mode of Transportation of fuel to site	Transmission line

43.Green Belt Development	**Total RG area :**	33% of the open area will be provided for green belt development
	No of trees to be cut :	00
	Number of trees to be planted :	Existing plantation is upto 150 nos and 1500 numbers of trees will be palnted in green belt.
	List of proposed native trees :	Neem, Babul, Bakul, Mango,Aapta, Ber.
	Timeline for completion of plantation :	Two 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	Azadirachata Indica	Neem	500	Shady tree ,medicinal use
2	Acacia nilotica	Babul	200	Shady tree with yellow flowers
3	Delonix Regia	Gulmohar	200	Shady tree ,small white fragrant flowers
4	Ficus Religiosa	Peepal	100	Semi- diciduous
5	Saraca Asoca	Ashoka	500	Semi- diciduous
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	American aloe	2*2	4
2	Black physicnut	3*3	9
3	Garden croton	1*1	1
4	China rose	2*2	4

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	1 MW
	DG set as Power back-up during construction phase	500 KVA 2 nos
	During Operation phase (Connected load):	20.00 MW
	During Operation phase (Demand load):	20.00 MW
	Transformer:	Yes (150 KVA App)
	DG set as Power back-up during operation phase:	500 KVA 2 nos
	Fuel used:	Electricity
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage water(Water Pollution)	NA	10 CMD capacity STP will be installed.
Induction furnace(Air pollution)	NA	APC system having Rotating Hood Fume Extraction System followed by Wet Scrubber to stack.
Noise pollution due to presence of centrifugal pumps, motors, DG sets, EOT Crane	NA	There will be provision of acoustic enclosure for DG sets, regularly oiling and greasing for crane & Green Belt (33 %)

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Pollution	Particulate Matter	1.00

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 Equipment	Pollution Control Equipment for Air Pollution Control Measures	80.00	6.20
2	Water Pollution Control Treatment	Water Treatment Plants STP will be provided	12.50	04.40
3	Solid Waste Management	Solid Waste Disposal and Management in the form of Manure and Brick Manufacturing	75.00	15.00
4	Occupational Health Safety Management	Safety Measures in respect to health facilities will be provided to workers Safety workers will be monitored regularly and measures will be taken for the same	10.00	3.00
5	Environmental cell & monitoring	Management of environment by environment management department	23.50	6.50
6	Development of Green Belt	Plantation of various native and other species developing the green belt area in 33% of total area	6.00	1.00

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The said Plot is adjacent to MIDC area.The width of front of MIDC Road is 20 mtr.

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Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	12 % of the total plot area.
	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:	40-50 trucks will be operated after commission of proposed unit for transportation of raw material and finished product.
	Width of all Internal roads (m):	The said Plot is adjacent to MIDC area.The width of front of MIDC Road is 20 mtr.
	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' under Schedule 3(a)
	Court cases pending if any	No
	Other Relevant Informations	ToR Granted in 77th Meeting of SEAC-I, Held on 15th -16th April 2014 at Maharashtra Economic Development Council, Mumbai. Public Hearing conducted successfully on 11/5/2017 at 11 a.m at the Proposed Factory Site, gut no : 30, Village Daregaon, Tal& Dist: Jalna Maharashtra.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

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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 ETP. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits on site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes Zero Liquid Discharge Effluent Treatment Plant. PP proposes to prive STP for the treatment of domestic sewage.

Drainage pattern of the project	PP provided storm water drains as per contour on the site.
Ground water parameters	As per data submitted by PP, ground water parameters are within the prescribed limits on project site.
Solid Waste Management	PP proposes to use construction waste for leveling of internal roads, slag will be converted to the sand will be sold to brick manufacturers, concrete mixing etc.
Air Quality & Noise Level issues	As per data submitted by PP, Air Quality and Noise parameters are within the prescribed limits on project site.
Energy Management	The electrical demand for proposed project is 24.5 MW which will be supplied by MSEDCL. PP also proposes to have two numbers of 500 KVA DG set with HSD as a fuel.
Traffic circulation system and risk assessment	PP provided internal rods with six meter width and nine meter wide turning radius.
Landscape Plan	PP proposes to provide 33% green belt.
Disaster management system and risk assessment	PP prepared an On Site Emergency Plan and proposes adequate steps to handle an emergency.
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. 1.0 Lakh during construction phase and 207.00 Lakh as capital cost and Rs. 36.10 Lakh as O & M cost to maintain environmental parameters.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

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PP obtained ToR from SEAC in its 77th meeting held on 15-16 April, 2014.

Public Hearing was conducted on 11.05.2017.

Now PP submitted EIA /EMP report and Public Hearing Report for appraisal.

The proposal was considered in the 149th meeting of SEAC held on 06.04.2018 where in the proposal was deferred till submisison of following points,

1. PP to submit remarks from the town planning department whether industrial development is permissible on proposed plot as per Regional Plan. PP also to submit copy of NA permission for industrial use to be obtained from District Collector.

2. PP to submit revised lay out plan showing entry/exit gates, internal roads with minimum six meter width, turning radius of nine meters, location of waste storage, location of pollution control equipment, 33% green belt etc.

3. PP to submit revised water balance calculations.

4. PP to explore the possibility to use micro channeling to cool the molten mass to save and reuse energy.

5. PP to include interpretation of baseline data and conclusion on the air, water, soil, noise monitoring results along with reasoning and mitigation measures in the EIA report.

6. PP to submit details on the reuse/disposal of the dust coming out of the ventuary scrubber.

7. PP to submit point wise compliance with time bound action plan to redress the issues raised during Public Hearing.

8. PP to submit socio economic survey report.

9. PP to include all above information in the EIA report and submit revised EIA report.

Now PP submitted compliance of above points

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DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to obtain NA permission for industrial use from the District Collector.
2) PP to prepare and implement CER plan in consultation with the District Authority as per OM dated 01.05.2018.
3) PP to provide new and renewable energy source for the illumination of office building and street lights.

FINAL RECOMMENDATION

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

154th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 154th ,Day-2 **Meeting Date** August 28, 2018

Subject: Environment Clearance for Environment Clearance for M/s Seya Industries Limited Plot No. K-59, 60 & 61, Tarapur MIDC, Palghar, Maharashtra

Is a Violation Case: No

1.Name of Project	New project for manufacture of Synthetic Organic Chemicals, at Plot No.: K-59, K-60 & K-61, MIDC Tarapur, Taluka: Palghar, District: Palghar, Maharashtra
2.Type of institution	Private
3.Name of Project Proponent	M/s Seya Industries Limited
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Industrial – Manufacturing of Organic Chemical Intermediates
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Plot No.: K-59, K-60 & K-61, MIDC Tarapur, Maharashtra
9.Taluka	Palghar
10.Village	Boisar
Correspondence Name:	Mr. Ashok Rajani
Room Number:	502
Floor:	5
Building Name:	Ghanshyam Chambers
Road/Street Name:	B-12 Off link Road
Locality:	Andheri (West).
City:	Mumbai-400053
11.Area of the project	Muncipal
12.IOD/IOA/Concession/Plan Approval Number	Not applicable
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area: 18470
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.)	12313 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.): 18470
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 18-06-2018
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	2443100000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Not Applicable as it is new 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	3-3 DICHLOROBENZIDINE DIHYDROCHLORIDE (3,3 DCBH)	Not Applicable	833.33 (10000 TPA)	833.33 (10000 TPA)
2	PARA NITRO ANILINE (PNA)	Not Applicable	800 (9600 TPA)	800 (9600 TPA)
3	2,4-DINITROCHLOROBENZENE (2,4 DNCB)	Not Applicable	700 (8400 TPA)	700 (8400 TPA)
4	TOTAL	Not Applicable	2333.33 (28000 TPA)	2333.33 (28000 TPA)
5	BY- Products	--	--	--
6	Ortho Chloro Aniline (OCA)	Not Applicable	41.67 (500 TPA)	41.67 (500 TPA)
7	Calcium Chloride	Not Applicable	324 (3888 TPA)	324 (3888 TPA)
8	Dilute Sulphuric Acid	Not Applicable	492.75 (5913 TPA)	492.75 (5913 TPA)
9	TOTAL	Not Applicable	858.42 (10301 TPA)	858.42 (10301 TPA)

32.Total Water Requirement

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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	NA	10	10	NA	1	1	NA	9	9
Industrial Process	NA	412.5	412.5	NA	(+) 5.5	(+) 5.5	NA	418	418
Cooling tower & thermopack	NA	1242	1242	NA	980	980	NA	262	262
Gardening	NA	20	20	NA	20	20	NA	00	00

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Fresh water requirement	NA	1684.5	1684.5	NA	995.5	995.5	NA	689	689

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 to 10 m
	Size and no of RWH tank(s) and Quantity:	30 m2 X 1 no.
	Location of the RWH tank(s):	Near to fire & Raw water tank
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Not applicable as collected rain water will be reused.
	Budgetary allocation (Capital cost) :	5.5 lacs
	Budgetary allocation (O & M cost) :	0.55 lacs
	Details of UGT tanks if any :	Fire water tank
35.Storm water drainage	**Natural water drainage pattern:**	Proposed within plot
	Quantity of storm water:	Not applicable
	Size of SWD:	Not applicable
Sewage and Waste water	**Sewage generation in KLD:**	9
	STP technology:	Primary, Secondary & Tertiary Treatment
	Capacity of STP (CMD):	1 no. and 10 CMD
	Location & area of the STP:	Near to ETP
	Budgetary allocation (Capital cost):	24 lacs
	Budgetary allocation (O & M cost):	9 lacs/ Annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Debris
	Disposal of the construction waste debris:	Excavated soil will be used for land filling.
Waste generation in the operation Phase:	**Dry waste:**	Discarded drums and containers = 550 nos/month will be sale to authorized dealers
	Wet waste:	• Distillation Residue = 1060 TPA • Spent Oil = 1.0 TPA • Chemical Sludge from ETP = 16108 TPA • MEE Solids = 15410 TPA • Spent Carbon from ETP = 61TPA
	Hazardous waste:	• Distillation Residue = 1060 TPA • Spent Oil = 1.0 TPA • Chemical Sludge from ETP = 16108 TPA • MEE Solids = 15410 TPA • Spent Carbon from ETP = 61TPA
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	13.5 Kg/m
	Others if any:	• Used Batteries = 0.360 TPA • E-Wastes = 2.5 TPA

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Mode of Disposal of waste:	**Dry waste:**	Will be send to MPCB authorized party
	Wet waste:	CHWTSDF
	Hazardous waste:	CHWTSDF
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Will be used as Manure in Gardening
	Others if any:	Returned to battery manufacturer through authorized dealer on buy back procurement & Sale to authorized E-Waste dismantlers / recyclers
Area requirement:	**Location(s):**	Plant Area, Raw material storage area, Finished Goods storage, Office Building, Utility area, Parking area, Hazardous waste storage, Open space & internal roads, ETP, MEE & Green belt area
	Area for the storage of waste & other material:	757.64 m2
	Area for machinery:	910.85 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	10 lac
	O & M cost:	360 lac/A

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	MEE	--	--	--	--
2	Parameters	Unit	Inlet To MEE (From Process & Washing Activity)	Reject From RO	Outlet From MEE
3	Flow	CMD	418	201	743 (619+124)
4	pH	--	7-7.5	7-7.5	7-7.5
5	BOD3,270C	mg/lit	1000-1500	1000-1500	250-300
6	COD	mg/lit	2000-3000	2000-3000	100-150
7	TSS	mg/lit	300-400	300-400	50-100
8	TDS	mg/lit	80000-100000	80000-100000	<100
9	ETP	--	--	--	--
10	Parameters	Unit	After Primary (Blow down from Utility)	Tertiary Inlet	After tertiary
11	Flow	CMD	262	1005 (262+743)	1005
12	pH	--	7-7.5	7-7.5	7-7.5
13	BOD3,270C	mg/lit	<10	50-100	50-100
14	COD	mg/lit	20-25	150-200	150-200
15	TSS	mg/lit	<100	<100	<100
16	TDS	mg/lit	1500-2000	500-1000	500-1000
17	Reverse Osmosis	--	--	--	--
18	Parameters	Unit	Inlet to RO	Permeate	Reject
19	Flow	CMD	1005	804	201
20	pH	--	7-7.5	7-7.5	7-7.5
21	COD	mg/lit	50-100	<100	150-200
22	TDS	mg/lit	500-1000	<100	2500-5000

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Amount of effluent generation (CMD):	689 CMD
Capacity of the ETP:	815 CMD
Amount of treated effluent recycled :	813 CMD (Domestic consumption will be 10 CMD and domestic effluent 9 CMD will be treated in proposed STP. Treated 9 CMD will be recycled and reused for gardening. Effluents generating from Industrial Processing & from washing activity (418 CMD), Blow down from cooling tower & boiler (262 CMD). Eeffluent having High TDS & high COD is 412 CMD which will be feed to MEE along with RO reject (201 CMD). Treated effluent from MEE along with steam condensate from MEE (180 CMD) (418 +201+124 = 743 CMD)
Amount of water send to the CETP:	Not Applicable as this unit will be run as Zero Liquid Discharge (ZLD) Unit
Membership of CETP (if require):	No, As unit will be run as Zero Liquid Discharge (ZLD) Unit
Note on ETP technology to be used	High TDS stream from process along with RO reject will be treated in Multi Effect Evaporator (MEE). Treated effluent along with condensate from MEE and utility blow down will be treated in tertiary treatment. Treated waste water will pass through the RO, RO permeate will be recycled/reuse & RO reject will fed to MEE to achieve ZLD.
Disposal of the ETP sludge	CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Oil	5.1	TPA	00	1.0	1.0	Sale to authorized recyclers.
2	Distillation Residue	20.3	TPA	00	1060	1060	CHWTSDF
3	ETP Sludge	35.3	TPA	00	16810	16180	CHWTSDF
4	MEE salts	35.3	TPA	00	15410	15410	CHWTSDF
5	Spent Carbon	35.3	TPA	00	61	61	CHWTSDF
6	Discarded drums and containers	33.1	Nos./M.	00	550	550	Collection, decontaminations, storage, reuse/sale to authorized recycler
7	Non- Hazardous waste	--	--	--	--	--	--
8	Paper, Wood, Plastic and Metals	NA	TPA	00	6.0	6.0	Sale to authorized party
9	Garbage like Paper, Corrugated Boxes, Plastics, Fiber drums, Brooms, Wipers, Floor cleaning mops, Tea cups, disposable aprons, head caps & shoe covers etc.	NA	TPA	00	12.0	12.0	Sale to authorized party

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler (10 TPH X 3 no)	FO (1572 Kg/hr)	01	70	1.5 m	135 °C
2	D G Sets (500 KVA X 1 no.)	HSD (135 lit./hr)	01	5.5 m. (above enclosure)	0.15 m	140 °C

40.Details of Fuel to be used

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Serial Number	Type of Fuel	Existing	Proposed	Total
1	FO	Not Applicable	1572 Kg/hr	1572 Kg/hr
2	HSD	Not Applicable	130 Kg/hr	130 Kg/hr
41.Source of Fuel		Local		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	4065 m2
	No of trees to be cut :	Trees are not available at project side
	Number of trees to be planted :	400
	List of proposed native trees :	Terminaliaarjuna(Arjun), Bauhinia racemosa(Apta), Ficusbenghalensis(Vad), Ficusreligiosa(Pimpal), Polyalthialongifolia(Ashok), Azadirachtaindica(Kaduneem), Cassia fistula (Bahava), Neolamarckiacadamba(Kadamb), Teminaliatomentosa(Ain), Lagerstroemia speciosa(Taman), Bougainvillea spectabilis(Bouganvel), Lantana camara(Ghaneri), Calatropisgigentia(Rui), Hibiscus rosasinensis(Jaswand), Neriumindicum(Kanher)
	Timeline for completion of plantation :	5 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Terminaliaarjuna	Arjun	40	Pollution resistant and Native
2	Anthosephalouscadamba	Kadamb	40	Pollution resistant and Native
3	Ficusreligiosa	Pimpal	20	Pollution resistant and Native
4	Ficusbengalensis	Vad	20	Pollution resistant and Native
5	Ficusracemosa	Umber	20	Pollution resistant and Native
6	Cassisa fistula	Bahava	40	Pollution resistant and Native
7	Delonixregia	Gulmohor	40	Pollution resistant and Native
8	Azadirachtaindica	Kaduneem	70	Pollution resistant and Native
9	Neriumindicum	Kanher	30	Pollution resistant and Native
10	Bougainvillea spectabilis	Bouganvel	30	Pollution resistant and Native
11	Hibiscus rosa-sinensis	Jaswand	50	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	--	--	--

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	4500 KW
	During Operation phase (Demand load):	3100 KW
	Transformer:	5000 KW
	DG set as Power back-up during operation phase:	500 KVA(1 no.)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No high tension line is passing through the plot

48.Energy saving by non-conventional method:

--

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
Air	Not Applicable	Stack of adequate height
Water	Not Applicable	ETP, MEE & RO
Noise	Not Applicable	Acoustic enclosure for DG set
Solid Waste	Not Applicable	Disposal to CHWTSDF

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	--
	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	Dust	Air Pollution	1.0
2	Debris	Solid Waste	1.0
3	Construction motor	Noise Pollution	0.5

b) Operation Phase (with Break-up):

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Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air pollution control	Provision of stacks of height as per CPCB	20.0	1.5
2	Water pollution control	MEE & ETP operation cost, Rain water harvesting	1370.5	100.41
3	Noise pollution Control	Acoustic enclosure/Anti vibration pads	5.0	0.2
4	Occupational Health	Medical checkup, Health insurance policy, Medical staff charges, First aid facilities consumables, Control of fugitive emissions	16.0	4.6
5	Environmental Monitoring Budget	Environment Monitoring	--	15.46
6	Hazardous waste Storage & disposal	Storage, Transportation and disposal	10.0	360.0
7	Green belt	Development & maintenance	10.0	12.00
8	TOTAL	--	1431.5	494.67

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
ONCB	Liquid	Raw Material Storage Area	80	80	1221	Local	Road
PNCB	Liquid	Raw Material Storage Area	90	90	1463	Local	Road
Toluene	Liquid	Raw Material Storage Area	25	25	236	Local	Road
Sulphuric Acid	Liquid	Raw Material Storage Area	70	70	552	Local	Road
Nitric Acid	Liquid	Raw Material Storage Area	20	20	218	Local	Road

52.Any Other Information

No Information Available

53.Traffic Management

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

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Parking details:	**Number and area of basement:**	Nil
	Number and area of podia:	Nil
	Total Parking area:	1477
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No Protected area within 10 km radius circle.
	Category as per schedule of EIA Notification sheet	5(f) B1
	Court cases pending if any	Not Applicable
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	14-06-2018

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

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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

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PP obtained ToR in 128th meeting of SEAC held on 2-3 and 4th June, 2016. PP requested to grant amended ToR for following changes in the proposal.

Sr. No.	Parameter	ToR application points	Amendment Points
1	Addition of by-product	Name of By product and quantity 1. Calcium Chloride (322 TPM) Dil. Sulphuric Acid (1067 TPM)	1. Ortho Chloro Aniline (OCA) (500 TPA) After detailed study during EIA study, it was found that it has economic value and has a most common end use in Dyes, Pigments and Speciality Chemicals industries hence considered as by-product.
	By- Product quantity	**16668 TPA** (Calcium Chloride (3864 TPA) & Dil. Sulphuric Acid (12804 TPA))	**10301 TPA** *(OCA (500 TPA); Calcium Chloride (3888 TPA) & Dil. Sulphuric Acid (5913 TPA))*
	Area of Green Belt	During ToR application green belt was proposed as 33% of open space i.e. 965 Sq. m.	During EIA green belt has been revised as 33% of total plot area i.e. 4065 Sq. m.
	Fresh water requirement	**Fresh Water requirement was 315 CMD.**	**After detailed workout it has been revised to 1684.5 CMD for first day after recycle it will get reduced to 871.5 CMD.** **We have submitted a letter for required amount of water to MIDC.**
	Effluent generation (Trade + Domestic)	***291 CMD*** *(280+11)*	**Effluent generation has been revised as per material balance and blow down from 30 TPH boiler which was earlier 3 TPH.**
	Effluent Disposal	**Imported Coal** (8160 Kg per day)	**Furnace Oil** (1572 Kg/hr)
	Hazardous waste Quantities	• Distillation residue: 1800 TPA • Spent Oil : 0.5 TPA • ETP Sludge: 468 TPA • Spent carbon from ETP: 105 TPA Discarded drums : 200 nos	• Distillation residue: 1800 TPA • Spent Oil : 0.5 TPA • ETP Sludge: 468 TPA • Spent carbon from ETP: 105 TPA Discarded drums : 200 nos
	Power Requirement	Operating load: 1098 KW	• Operating load: 3100 KW Connected load: 4500 KW

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DECISION OF SEAC

During deiberations it was observed that PP has made changes in the information submitted during the ToR; In view of above PP requested for amendment in the ToR.

SEAC decided to grant amendment in the ToR with following additional points.

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
3) PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
4) PP to carry out HAZOP and QRA and submit Disaster Management Plan.
5) PP to submit design details of the solvent recovery system to achieve 99% recovery.
6) PP to prepare and implement CER activities in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018
7) PP to provide new and renewable energy sources for the illumination of office building and street lights.
8) PP to submit revised Form-I.

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.

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Subject: Environment Clearance for EXPANSION OF M.S BILLETS MANUFACTURING (EXISTING CAPACITY 100 MTD TO 500 MTD) EXPANSION BY 400 MTD

Is a Violation Case: No

1.Name of Project	NILANJAN IRON PVT. LTD.
2.Type of institution	Private
3.Name of Project Proponent	MR. ANKUSH SINGLA
4.Name of Consultant	--
5.Type of project	FIVE STAR MIDC KAGAL, DIST :KOLHAPUR
6.New project/expansion in existing project/modernization/diversification in existing project	EXPANSION OF EXISTING M.S BILLETS MANUFACTURING PLANT 100 MTD TO 500 MTD (EXPANSION BY 400 MTD)
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	YES, EC -2009/CR134/TC2. dated- 09/10/2009 from Environment department GoM.
8.Location of the project	PLOT NO:B-07, FIVE STAR MIDC KAGAL
9.Taluka	KARVEER
10.Village	HALSAWADE
Correspondence Name:	MR. ANKUSH SINGLA
Room Number:	N.A.
Floor:	N.A.
Building Name:	N.A.
Road/Street Name:	N.A.
Locality:	PLOT NO:B-07, FIVE STAR MIDC KAGAL
City:	KOLHAPUR
11.Area of the project	FIVE STAR MIDC AREA-KAGAL
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	PROPOSED EXPANSION ACTIVITY WILL BE START AFTER ENVIRONMENTAL CLEARANCE AND MPCB CONSENT.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	APPROVED MIDC AREA
15.Total Plot Area (sq. m.)	10174.00 SQM
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.): 00
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 21-06-2018
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	190000000

22.Number of buildings & its configuration

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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)	NA
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	TURNING RADIUS 09 METERS.
29.Existing structure (s) if any	Existing induction furnace shed is available with industry. The induction furnace capacity is 12 MT X 9 heat = 108 MTD. Expansion will be carried out in existing premises of the industry by installing two new induction furnaces will be installed. For expansion project two nos furnaces will be installed. 1) New 20 MT X 13 Heats= 260 MTD (Existing furnace 12 MT replaced with 20 MT) 2) New 20 MT X 12 Heats(1Heat+)=240 MTD, Total: 500 MTD (3-4% will be slag generation in total melting process)
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 BILLETS	3000	12000	15000

32.Total Water Requirement

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Dry season:	**Source of water**	MIDC KAGAL
	Fresh water (CMD):	60 CMD FOR EXISTING PROJECT. 90 WATER FOR PROPOSED PROJECT , THE TOTAL REQUIREMENT OF WATER WILL BE AFTER EXPANSION IS 150 CMD. THE WATER IS MAINLY REQUIRED FOR COOLING PURPOSE IN THE PROCESS, THE EVAPORATION LOSSES WILL BE 60 CMD. THE 60 CMD WATER IS REQUIRED FOR DAILY TOP-UP, THE 90 CMD WATER IS REUSE AFTER COOLING PROCESS.
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	05 CMD
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	60 CMD
	Fire fighting - Underground water tank(CMD):	50 CMD UG TANK WILL BE CONSTRUCTED
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Wet season:	**Source of water**	MIDC KAGAL
	Fresh water (CMD):	60 CMD WATER FOR EXISTING PROJECT. 90 CMD WATER FOR PROPOSED PROJECT , THE TOTAL REQUIREMENT OF WATER WILL BE AFTER EXPANSION IS 150 CMD. THE WATER IS MAINLY REQUIRED FOR COOLING PURPOSE IN THE PROCESS, THE EVAPORATION LOSSES WILL BE 60 CMD. THE 60 CMD WATER IS REQUIRED FOR DAILY TOP-UP, THE 90 CMD WATER IS REUSE AFTER COOLING PROCESS.
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	05 CMD
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	60 CMD
	Fire fighting - Underground water tank(CMD):	50 CMD UG TANK WILL BE CONSTRUCTED
	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)

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Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	05	03	08	02	01	03	03	02	05
Industrial Process	60	90	150	24	36	60	00	00	00
Fresh water requirement	24	36	60	00	00	00	00	00	00
Gardening	03	02	05	03	02	05	00	00	00

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10-15 M BELOW GROUND LEVEL. POST MONSOON 5-10 M BELOW GROUND LEVEL.
	Size and no of RWH tank(s) and Quantity:	TWO NOS OF RAINWATER HARVESTING TANK, NUMBERS OF TANK WILL BE INCREASED IF REQUIRED.
	Location of the RWH tank(s):	WITHIN INDUSTRIAL PREMISES.
	Quantity of recharge pits:	05 NOS RAIN WATER HARVESTING PITS , NUMBERS OF PITS WILL BE INCREASED IF REQUIRED.
	Size of recharge pits :	DETAILS RAIN WATER HARVESTING PLAN WILL BE INCORPORATE IN FINAL EIA REPORT.
	Budgetary allocation (Capital cost) :	RS.600000/-
	Budgetary allocation (O & M cost) :	RS.350000/-
	Details of UGT tanks if any :	1 no : 10 m X 8 M X 3 m
35.Storm water drainage	**Natural water drainage pattern:**	STORM WATER DRAIN SYSTEM WILL BE CONSTRUCTED AROUND THE PLANT
	Quantity of storm water:	1017 m3 based on 100 mm rainfall in an hour
	Size of SWD:	300 mm X 400 mm X 3000 mm
Sewage and Waste water	**Sewage generation in KLD:**	05 KLD
	STP technology:	MBBR TECHNOLOGY
	Capacity of STP (CMD):	10 CMD
	Location & area of the STP:	IN THE PREMISES OF INDUSTRY.
	Budgetary allocation (Capital cost):	Rs.450000/-
	Budgetary allocation (O & M cost):	Rs.150000/-

36.Solid waste Management

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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:**	EXISTING SLAG: 3.00 MTD, PROPOSED SLAG GENERATION:12.00 MTD, PROCESS DUST Existing 100 KG/DAY, Proposed 400 KG/DAY.
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	0.1MTA
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	SLAG WILL BE CRUSHED IN SLAG CRUSHER AND IRON WILL BE RECOVERED BY MAGNETIC SEPARATOR. REMAINING CRUSHED SLAG USED FOR BRICK MAKING AND OTHER CONSTRUCTION USES.
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	IT WILL USED AS MANURE FOR GARDENING.
	Others if any:	NA
Area requirement:	**Location(s):**	WITHIN INDUSTRIAL PREMISES.
	Area for the storage of waste & other material:	70 SQ. MTR
	Area for machinery:	50 SQ. MTR
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.1500000/-
	O & M cost:	Rs.400000/-

37.Effluent Charecterestics

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

Amount of effluent generation (CMD):	NA
Capacity of the ETP:	NA
Amount of treated effluent recycled :	NA
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	WATER WILL BE SETTLED AND COOLED AND WILL BE REUSED FOR COOLING PURPOSE.
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

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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 FUME EXTRACTION	ELECTRICITY	1	30	1.6	50-60
2	PROPOSED FUMES EXTRACTION	ELECTRICITY	1	35	1.6	50-60

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	ELECTRICITY	5.00 MW	5.00 MW	10.00 MW
41.Source of Fuel		MSEDCL		
42.Mode of Transportation of fuel to site		TRANSMISSION LINE OF MSEDCL		

43.Green Belt Development	**Total RG area :**	NA
	No of trees to be cut :	00
	Number of trees to be planted :	700
	List of proposed native trees :	NEEM, BABUL, BAKUL, MANGO, AAPTA, BER
	Timeline for completion of plantation :	FOUR 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	AZATIRECTA INDICA	NEEM	170	SHADY TREE, MEDICINAL USE
2	ACACIA NILOTICA	BABUL	120	SHADY TREE WITH YELLOW FLOWERS
3	MIMUSO PSELENGI	BAKUL	40	SHADY TREE WITH SMALL WHITE FRAGRANT FLOWERS
4	MANGIFERA INDICA	MANGO	150	SHADY TREE
5	BAUHINIA RACEMOSA	AAPTA	70	SMALL TREE WITH SMALL WHITE FLOWERS, BUTTERFLY HOST PLANT
6	ZIZIPHUS MAURITIANA	BER	150	FAST GROWING & HARDY 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	AMERICAN ALEO	2*2	4
2	BLACK PHYSICNUT	3*3	9
3	GARDEN CROTON	1*1	1
4	CHINA ROSE	2*2	4

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47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	MSEB 1MW
	DG set as Power back-up during construction phase	500 KVA
	During Operation phase (Connected load):	10.00 MW
	During Operation phase (Demand load):	10.00 MW
	Transformer:	YES
	DG set as Power back-up during operation phase:	500 KVA 2 NOS.
	Fuel used:	HSD/LDO
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Nil

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED LIGHT USED FOR STREET LIGHT AND IN OFFICE.	AS PER REQUIREMENT.

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
FURNACE (AIR POLLUTION)	FUMES EXTRACTION SYSTEM HOOD FOLLOWED BY VENTURY SCRUBBER TO STACK	FUMES EXTRACTION SYSTEM HOOD FOLLOWED BY VENTURY SCRUBBER TO STACK.
DG SETS(NOISE POLLUTION),	ACOUSTIC ENCLOSURE PROVIDED.	ACOUSTIC ENCLOSURE WILL BE PROVIDED.
DOMESTIC WASTE WATER	SEPTIC TANK WITH SOAK PIT	STP PROPOSED FOR DOMESTIC WASTE WATER TREATMENT.
SOLID WASTE (SLAG) `	COLLECTION ,SEGREGATION	COLLECTION ,SEGREGATION & CRUSHING

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 2.00 LACS IS ALOCATED FOR LED LIGHTS
	O & M cost:	APP. Rs. 0.25 IS REQUIRED FOR O & M.

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	NA	NA	00

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 EQUIPMENT	POLLUTION CONTROL EQUIPMENT FOR AIR POLLUTION CONTROL MEASURES	80.00	15.00
2	WATER POLLUTION CONTROL TREATMENT	WATER TREATMENT PLANTS STP WILL BE PROVIDED	03.50	00.80
3	SOLID WASTE MANAGEMENT	SOLID WASTE DISPOSAL & MANAGEMENT IN THE FORM OF MANURE & BRICK MANUFACTURING	15.00	04.00
4	OCCUPATIONAL HEALTH SAFETY MANAGEMENT	SAFETY MEASURES IN RESPECT TO HEALTH FACILITIESWILL BEPROVIDED TO WORKERS	03.00	01.00
5	ENVIRONMENTAL CELL& MONITORING	MANAGEMENT OF ENVIRONMENT BY ENVIRONMENTAL CELL	06.00	03.50
6	GREEN BELT DEVELOPMENT	PLANTATION OF VARIOUS NATIVE & OTHER SPECIES DEVELOPING THE GREEN BELT	03.00	01.00
7	NA	TOTAL	110.50	25.30

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	00	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

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Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	THE AREA EARMARKED FOR THE PARKING IS 1220.00 SQM (ITS 12%OF THE TOTAL PLOT AREA)
	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:	50-60 TRUCKS
	Width of all Internal roads (m):	THE INTERNAL ROADS WIDTH IS 06.00 METERS.
	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)B1
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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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. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

DECISION OF SEAC

During deliberations it was observed that, the lay out shown by PP was not having areas marked for the adequate storgae of raw materials and finished products. PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, Raw Material and Finished product storage areas, 33% green belt with its dimensions, rain water harvesting pit/tank locations with dimensions, storm water drain lines, along with area statement showing calculations of each area and cross sections of storm water drain and rain water harvesting pits etc.

Hence, deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

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154th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 154th ,Day-2 **Meeting Date** August 28, 2018

Subject: Environment Clearance for Environmental Clearance (EC) of proposed project for expansion in existing products with deletion of some of the existing products & addition of new products for manufacturing of synthetic organic chemicals and Thermal power plant (Coal/Gas based) at Plot No.: A-21, Mahad MIDC, Raigad 402309, Maharashtra.

Is a Violation Case: No

1.Name of Project	Proposed project for expansion in existing products with deletion of some of the existing products & addition of new products for manufacturing of synthetic organic chemicals and Thermal power plant (Coal/Gas based) at Plot No.: A-21, Mahad MIDC, Raigad 402309, Maharashtra
2.Type of institution	Private
3.Name of Project Proponent	PIDILITE INDUSTRIES LTD
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Industrial – Manufacturing of synthetic organic chemicals & Thermal power plant.
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot No.: A-21, Mahad MIDC, Raigad 402309, Maharashtra.
9.Taluka	Mahad
10.Village	Kamble via Birwadi
Correspondence Name:	Mr. Sagar Jadhav
Room Number:	Plot No.: A-21
Floor:	MIDC Mahad
Building Name:	--
Road/Street Name:	Mahad MIDC
Locality:	Raigad-402309
City:	Mahad
11.Area of the project	MIDC Mahad
12.IOD/IOA/Concession/Plan Approval Number	Not applicable
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area: 33351
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	169166 Sq.m.
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 23497
	b) Non FSI area (sq. m.): 00
	c) Total BUA area (sq. m.): 23497
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 20-07-2018
19.Total ground coverage (m2)	29646
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	17.5 %

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21.Estimated cost of the project	4982600000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9 M
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 M
29.Existing structure (s) if any	Administrative Building, Manufacturing Unit,Raw material & finished good storage, Utility area etc.
30.Details of the demolition with disposal (If applicable)	Oxygen/Nitrogen plant and Ethylene storage Sphere will be dismantled and disposed. Quantity of debris, scraps, excavated soil, used Cement bags, iron / steel scrap and cardboards waste will be generated during construction and demolition. Approximate quantities will be given in EIA report.

31.Production Details

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

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13	Oligomers (Propylene trimer, Tetramer, Pentamer)	0	11000 MT/A	11000 MT/A
14	Alkyl phenols (Nonyl Phenol, Dodecyl Phenol, Dinonyl phenol)	0	20000 MT/A	20000 MT/A
15	Thermal power generation (Coal/Gas based)	0	4.95 MW	4.95 MW
16	By-Production Capacity	--	--	--
17	1.Propane	0	15840 MT/A	15840 MT/A
18	2.Nonene (Propylene trimer)	0	110 MT/A	110 MT/A
19	3.Hydrocarbon mix - light	0	140 MT/A	140 MT/A
20	4.Hydrocarbon mix - Medium	0	55 MT/A	55 MT/A

32.Total Water Requirement

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

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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	18	7	25	1	0.5	1.5	17	6.5	23.5
Industrial Process	9	191	200	5	92.3	97.3	29*	98.7	102.7
Cooling tower & thermopack	458	1544	2002	362	1197	1559	96	347	443
Gardening	40	0	40	40	0	40	0	0	0
Fresh water requirement	525	1742	2267	408	1289.8	1697.8	117	452.2	569.2
Industrial Process	* Note- Existing -25 CMD effluent generating from production of VAM as a water of reaction & there is no effluent generation from existing product. From the proposed product list VAM has been deleted hence total effluent generation is from proposed activity only.	--	--	--	--	--	--	--	--

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 to 8 m
	Size and no of RWH tank(s) and Quantity:	1385 CU.M., 1 No.
	Location of the RWH tank(s):	Near Raw water tank.
	Quantity of recharge pits:	Not applicable as collected water will be reused.
	Size of recharge pits :	Not applicable as collected water will be reused.
	Budgetary allocation (Capital cost) :	3.30 lac
	Budgetary allocation (O & M cost) :	Rs. 10000/Annum
	Details of UGT tanks if any :	No underground tanks
35.Storm water drainage	**Natural water drainage pattern:**	Proper and separate storm water drains will be provided as per natural slopes.
	Quantity of storm water:	By considering maximum intensity 190 mm of rain fall per hour & 0.8 runoff coeff.= 7192 m3/hr, 1.99 m3/s
	Size of SWD:	2m x 1m
Sewage and Waste water	**Sewage generation in KLD:**	23.5
	STP technology:	STP
	Capacity of STP (CMD):	1 No. & 30 CMD
	Location & area of the STP:	Near existing ETP & area of the STP will be 50m2
	Budgetary allocation (Capital cost):	22 lac
	Budgetary allocation (O & M cost):	4.5 lac/Annum

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: • Discarded containers/barrels= 15000 No/A • Discarded Liners/bags = 5 MT/A • Glass wool = 20 MT/A • Used oil filter nonmetallic = 50 Nos. • Spent resin= 5 KL/A Non hazardous • Coal ash = 10877 MT/A • Wood scrap = 2 MT/A • Waste paper, card board etc. = 5 MT/A • Plastic waste = 1 MT/A • Waste glassware = 1 MT/A • Unusable PVC scrap = 5 MT/A
	Wet waste:	• Hazardous Waste: • Distillation residue = 275 MT/A • Chemical sludge for WWT = 380 MT/A • MEE Salts = 209 MT/A • Spent carbon = 158 MT/A • Used/spent oil = 3.201 KL/A • Thermic fluid spent oil = 10 KL/A • Used/spent catalyst = 200 KL/A • Oil soaked cotton waste = 1 MT/A
	Hazardous waste:	Hazardous Waste: • Distillation residue = 275 MT/A • Chemical sludge for WWT = 380 MT/A • MEE Salts = 209 MT/A • Spent carbon = 158 MT/A • Used/spent oil = 3.201 KL/A • Thermic fluid spent oil = 10 MT/A • Used/spent catalyst = 200 KL/A • Oil soaked cotton waste = 1 MT/A • Discarded containers/barrels= 15000 No/A • Discarded Liners/bags = 5 MT/A • Glass wool = 20 MT/A • Used oil filter nonmetallic = 50 Nos. • Spent resin= 5 KL/A
	Biomedical waste (If applicable):	20 Kg/A

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Mode of Disposal of waste:	**Dry waste:**	MPCB authorized party
	Wet waste:	Disposal through CHWTSDF / Authorized co-processors, preprocessor / vendor
	Hazardous waste:	Disposal through CHWTSDF / Authorized co-processors, preprocessor /vendor
	Biomedical waste (If applicable):	Authorized Biomedical Waste disposal facility.
	STP Sludge (Dry sludge):	Manure for Gardening
	Others if any:	Sale to authorized dismantlers/Recyclers.
Area requirement:	**Location(s):**	Near cooling tower area
	Area for the storage of waste & other material:	Area for the storage of Hazardous waste 667.44 Sq.m.
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Included in total capital cost
	O & M cost:	1.57 Cr/A

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	A) ETP Treatment	--	--	--	--
2	Parameters	Unit	Inlet To Primary	Inlet to Tertiary	Inlet to RO
3	Flow	CMD	545.7	545.7	545.7
4	pH	--	6.0-8.0	7-7.5	7-7.5
5	BOD3,27ºC	mg/L	200-250	180-230	< 100
6	COD	mg/L	400-450	300-350	< 150
7	TSS	mg/L	400-500	50-100	< 100
8	TDS	mg/L	800-1000	800-1000	800-1000
9	B) Reverse Osmosis	--	--	--	--
10	Parameters	Unit	Inlet To RO	Permeate	Reject
11	Flow	CMD	545.7	436.7	109
12	pH	--	7.0-7.5	7.0-7.5	7.0-7.5
13	TDS	mg/L	800-1000	<100	4500-5000
14	C) Multiple Effect Evaporators	--	--	--	--
15	Flow	CMD	109	131 (109 + 22 steam condensate)	--
16	pH	--	7.0-7.5	7.0-7.5	--
17	TDS	mg/L	4500-5000	<100	--

Amount of effluent generation (CMD):	545.7
Capacity of the ETP:	650
Amount of treated effluent recycled :	567
Amount of water send to the CETP:	Not Applicable, ZLD Unit
Membership of CETP (if require):	Not applicable as unit is ZLD

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Note on ETP technology to be used	Industrial effluent 545.7 CMD including cooling tower & Boiler blow downs will be treated in primary treatment. Primary treated waste water will be pumped to Pressure Sand Filter (PSF) followed by Activated Carbon Filter (ACF). Then tertiary treated water will be pumped to RO. RO permeate will be reused/recycled to utilities. RO reject will be evaporated in MEE & condensate will be reused/ recycled to utilities to achieve zero liquid discharge. Salts from MEE will be disposed to CHWTSDF while co
Disposal of the ETP sludge	Chemical sludge for WWT = 380 MT/A, MEE Salts = 209 MT/A, Spent carbon = 158 MT/A will be disposed to CHWTSDF/ Authorized co-processors

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Distillation residue	28.1	MT/A	210*	264	275	CHWTSDF/ co-processor
2	Chemical sludge from WWT	35.3	MT/A	1.5	378.5	380	CHWTSDF
3	MEE Salts	35.3	MT/A	--	209	209	CHWTSDF
4	Spent carbon from ETP	35.3	MT/A	--	158	158	CHWTSDF
5	Used/spent oil	5.1	KL/A	0.201	3	3.201	Sale to authorized vendor
6	Thermic fluid spent oil	5.1	KL/A	Nil	10	10**	Sale to authorized vendor
7	Ash from incineration	37.2	kg/A	18 kg/A	Nil	Nil***	--
8	Discarded containers/barrels	33.1	No/A	1000	14000	15000	Sale to authorized vendor
9	Discarded Liners/bags	33.1	MT/A	Nil	5	5	Sale to authorized vendor
10	Used/spent catalyst	28.2	KL/A	Nil	200	200	To MPCB authorized vendor/ CHWTSDF
11	Oil soaked cotton waste	5.2	MT/A	Nil	1	1	CHWTSDF
12	Used oil filter non metallic	5.2	Nos./A	Nil	50	50	CHWTSDF
13	Glass wool	--	MT/A	Nil	20	20	CHWTSDF
14	Spent resin	35.2	KL/A	Nil	5	5	Disposal through CHWTSDF / Authorized co-processors, preprocessor / vendor
15	Other Waste	--	--	--	--	--	--
16	Batteries	--	No/A	Nil	30	30	Sale to authorized vendor
17	E waste	--	T/A	Nil	1	1	Sale to authorized vendor
18	Non- Hazardous waste	--	--	--	--	--	--
19	Coal ash	--	MT/A	300	10577	10877	Sale to brick manufacturer/ cement manufacturer/building material/road construction
20	Wood scrap	--	MT/A	Nil	2	2	sale

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21	Waste paper, card board etc.	--	MT/A	Nil	5	5	sale
22	Plastic waste	--	MT/A	Nil	1	1	sale
23	Waste glassware	--	MT/A	Nil	1	1	sale
24	Unusable PVC scrap	--	MT/A	Nil	5	5	sale
25	* Distillation residue from existing production of VAM, Allyl Alcohol & n-propyl acetate was 199 MT/A. Now from the proposed product list VAM, Allyl Alcohol & n-propyl acetate have been deleted. Hence, 199 MT/A quantity of existing distillation residue is deleted from total existing quantity.	--	--	--	--	--	--
26	** Thermic fluid spent oil will be generate once in 5 year	--	--	--	--	--	--
27	***Now incinerator has been demolished. Hence, there will not be generation of ash from incineration	--	--	--	--	--	--

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Existing Boiler 10 TPH	Coal: 17520 MT/A (48 TPD)	1	34.5 m (combine for existing 8 Lac/Cal Thermopac)	1	142
2	Existing Boiler 6 TPH x 2 Nos. (1 stand-by & 1 operational)	FO- 3650 MT/A (10 TPD) / Propane- 2920 MT/A MT/A (8 TPD)	1	32.5 m (Combined stack)	0.9	142
3	Proposed Boiler 50 TPH	Coal- 87600 MT/A (240 TPD)/ Propane-12341 MT/A (71 TPD) for both boilers	1	30 m (combine for proposed 8 Lac/Cal Thermopac)	2	160
4	Proposed Boiler 50 TPH (Standby)	Coal- 87600 MT/A (240 TPD)/ Propane-12341 MT/A (71 TPD) for both boilers	1	30m	2	160
5	Existing Thermopac (8 Lac Kcal/hr)	Coal – 1825 MT/A (5 TPD)	-	34.5 m (Combine for 10 TPH existing Boiler stack)	1	142

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6	Proposed Thermopac (8 Lac Kcal/hr)	Coal - 1825 MT/A (5 TPD)	-	30 m (combine for proposed 50 TPH Boiler)	2	160
7	Existing Flare 3400 Nm3/Hr	LPG cylinder for ignition / Propane purge gas – 193 MT/A (0.528 TPD)	1	35	0.3	350
8	Proposed Flare 10500 Nm3/Hr	LPG cylinder for ignition / Propane purge gas – 386 MT/A (1.056 TPD)	1	35	0.6	350
9	D.G Set 750 KVA x 3 NOs	HSD- 365 MT/A (10 KLD in case of emergency only)	3	3.5 M each	0.4 Each	350
10	Diesel engine driven fire water pump (2 Nos)	HSD – 20 KL/A (1KL/D in case of emergency only) only	2	3.5 M each	0.2	350

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	11680 MT/A (32 TPD)	97090 MT/A (266 TPD)	108770 MT/A (298 TPD)
2	FO	1278 MT/A (3.5 TPD)	2372 MT/A (6.5 TPD)	3650 MT/A (10 TPD)
3	LPG	4 cylinder/A	8 cylinder/A	12 cylinder/A
4	Propane (in-house generation)	193 MT/A (0.528 TPD)	15647 MT/A (88.05 TPD)	15840 MT/A (88.578 TPD)
5	HSD	146 KL/A (0.4 KLD)	239 (10.6 KLD)	385 KL/A (11 KLD)
41.Source of Fuel		Local & Imported		
42.Mode of Transportation of fuel to site		By Road		

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

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

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

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

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

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47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	15375 KW
	During Operation phase (Demand load):	7162 KW
	Transformer:	3 MVA (4 Nos.)
	DG set as Power back-up during operation phase:	3 Nos. of DG set 750 KVA each
	Fuel used:	HSD consumption will be 10 Kl/D in case of emergency only, but it will not be exceed 365 KL/A
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	5.48 cr.
	O & M cost:	70 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	1.5

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2	Debris	Solid Waste	1.5
3	Construction equipment	Noise Pollution	0.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air pollution control	Provision of ESP and Stack	200	40
2	Water pollution control	Multi Effect Evaporator,RO & Effluent Treatment Plant	680	800
3	Noise pollution Control	Acoustic enclosure and regular maintenance	27	2.5
4	Occupational Health	Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, In-house first aid room, Other infrastructure and Equipment	60	56
5	Environmental Monitoring Budget	Environmental Monitoring	5	20
6	Hazardous waste Storage & disposal	Storage, Transportation and disposal	12	157
7	Green belt	Development & Maintenance	8	14
8	Total	--	992	1089.5

51.Storage of chemicals (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
Propylene	Liquefied gas	Bullet	300x3	900	9835	Local	By Road
Acetic acid	Liquid	Tank	250x2	500	575	Local	By Road
Acetic acid	Liquid	Tank	250	250	750	Local	By Road
Propylene Trimer	Liquid	Tank	200	200	795	Local	By Road
Propylene Tetramer	Liquid	Tank	200	200	295	Local	By Road

52.Any Other Information

No Information Available

53.Traffic Management

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	Nos. of the junction to the main road & design of confluence:	Not Applicable
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	20624 Sq.m.
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6 m with turning radius of 9m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	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) and 1(d)
	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	20-07-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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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 and 1(d)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

DECISION OF SEAC

During deliberations PP informed that they donot intend to go for EC for Thermal Power Plant inspite of their application for the same.

In view of above SEAC decided to defer the proposal till PP submits revised information in the consolidated statement for which EC is sought.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

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154th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 154th ,Day-2 **Meeting Date** August 28, 2018

Subject: Environment Clearance for Clean Science Private Limited, Plot No. D-25/1/1, MIDC Kurkumbh, Kurkumbh, Tehsil Daund, District Pune, Maharashtra.

Is a Violation Case: No

1.Name of Project	New project of Manufacturing of Synthetic Organic Chemicals by Clean Science Private Limited at Plot No. D-25/1/1, MIDC Kurkumbh, Kurkumbh, Tehsil Daund, District Pune, Maharashtra – 413 802.
2.Type of institution	Private
3.Name of Project Proponent	Clean Science Private Limited
4.Name of Consultant	Goldfinch Engineering Systems Private Limited, Thane
5.Type of project	Manufacturing of Synthetic Organic Chemicals
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Plot No. D-25/1/1, MIDC Kurkumbh
9.Taluka	Daund
10.Village	Pandhrewadi
Correspondence Name:	Krishna Boob
Room Number:	room No. 1
Floor:	5th Floor
Building Name:	Pentagon P4
Road/Street Name:	-
Locality:	Magarpatta City, Hadapsar
City:	Pune
11.Area of the project	MIDC Kurkumbh
12.IOD/IOA/Concession/Plan Approval Number	Not applicable
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area: 20705
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.)	30000
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20705
	b) Non FSI area (sq. m.): 9295
	c) Total BUA area (sq. m.): 20705
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: 11-07-2018
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	480000000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9 M
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 M
29.Existing structure (s) if any	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	Anisole & their derivatives	Not Applicable	10000 T/A	10000 T/A
2	Butylated Hydroxy Anisole (BHA)	Not Applicable	2400 T/A	2400 T/A
3	Mono Methyl Ether of Hydroquinone(MEHQ), Guaiacol, Hydroquinone, Catechol & their derivatives	Not Applicable	5000 T/A	5000 T/A
4	Mono Methyl Ether of Hydroquinone(MEHQ), Guaiacol, Hydroquinone, Catechol & their derivatives	Not Applicable	5000 T/A	5000 T/A
5	Phenothiazine	Not Applicable	5000 T/A	5000 T/A
6	2,2,6,6-tetramethyl-4-piperidinol (TAA)	Not Applicable	2000 T/A	2000 T/A
7	4-hydroxy-2,2,6,6-tetramethylpiperidin-1-yloxyl, (TEMPO-OH)	Not Applicable	2000 T/A	2000 T/A
8	Total	Not Applicable	26400 T/A	26400 T/A
9	By-Product	-	-	-
10	O-Cresol	Not Applicable	250 T/A	250 T/A
11	Sodium Sulphate (100%)	Not Applicable	3450 T/A	3450 T/A
12	Maximum Total	Not Applicable	3700 T/A	3700 T/A

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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	NA	13	13	NA	3	3	NA	10	10
Industrial Process	NA	25	25	NA	(+)18	(+)18	NA	43	43
Cooling tower & thermopack	NA	606	606	NA	547	547	NA	59	59

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Gardening	NA	50	50	NA	50	50	NA	NA	NA
Fresh water requirement	NA	694	694	NA	582	582	NA	112	112

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 to 10 m
	Size and no of RWH tank(s) and Quantity:	1 tank of 20 m3
	Location of the RWH tank(s):	Near office building
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Not applicable as collected rain water will be reused.
	Budgetary allocation (Capital cost) :	5 lac
	Budgetary allocation (O & M cost) :	Rs.80000/annum
	Details of UGT tanks if any :	1 fire water tank capacity of 5 lakh lit., 1 rainwater harvesting tank of 20 m3 and 4 nos. of solvents tanks of each 50 KL capacity
35.Storm water drainage	**Natural water drainage pattern:**	Provided by MIDC
	Quantity of storm water:	Not applicable
	Size of SWD:	Not applicable
Sewage and Waste water	**Sewage generation in KLD:**	10
	STP technology:	Combined treatment in ETP
	Capacity of STP (CMD):	Not Applicable
	Location & area of the STP:	Not Applicable
	Budgetary allocation (Capital cost):	Not Applicable
	Budgetary allocation (O & M cost):	Not Applicable

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Debris
	Disposal of the construction waste debris:	Debris will use for land filling
Waste generation in the operation Phase:	**Dry waste:**	• Discarded drums and containers = 250 nos/month sold to authorized dealers • Boiler Ash about 2.8 Ton/d send to brick manufacturer • MEE Solids = 62.00 TPA
	Wet waste:	• Spent Carbon from ETP = 45.0 TPA • Chemical Sludge from waste water treatment = 850.0 TPA • Distillation Residue = 40.00 TPA
	Hazardous waste:	Mention all above waste
	Biomedical waste (If applicable):	10 kg/A
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable

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Mode of Disposal of waste:	**Dry waste:**	MPCB authorized party for reuse
	Wet waste:	MWML Ranjangaon
	Hazardous waste:	MWML Ranjangaon
	Biomedical waste (If applicable):	Authorized Biomedical Waste disposal facility.
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Plant Area, Raw material storage area, Finished Goods storage, Office Building, Utility area, Parking area, Hazardous waste storage, Open space & internal roads, ETP, MEE & RO, Green belt area
	Area for the storage of waste & other material:	2275 m2 (Ground coverage)
	Area for machinery:	3472 m2 (Ground coverage)
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Included in capital cost
	O & M cost:	Rs. 5.0 Lac. /Year.

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Parameters	Unit	Inlet to primary for anaerobic treatment (High COD)	Inlet to primary for aerobic treatment (Low COD)	Anaerobic treated mixed with Low TDS & COD effluent
2	Flow	m3/day	43	59	102 (43+59)
3	pH	--	6-7	6-7	6-7
4	BOD3, 27°C	mg/L	35000 - 40000	350 - 400	3000 - 3250
5	COD	mg/L	70000 - 80000	800 - 1000	6000 - 6500
6	TSS	mg/L	500 - 1000	100 - 200	50 - 100
7	TDS	mg/L	5000 - 6000	400 - 500	1200 - 1500
8	--	--	--	---	--
9	Parameters	Unit	Inlet to secondary treatment	Inlet to tertiary treatment	Outlet from tertiary treatment
10	Flow	m3/day	112 (102+ 10 from domestic)	112	112
11	pH	--	6-7	6-7	6-7
12	BOD3, 27°C	mg/L	2000 - 2500	80 - 100	<100
13	COD	mg/L	4500 - 5000	400 - 450	< 150
14	TSS	mg/L	50 - 100	50-100	<100
15	TDS	mg/L	1200 - 1500	1200 - 1500	1200 - 1500
16	--	--	--	--	--
17	B) Reverse Osmosis	--	--	--	--
18	Parameters	Unit	Inlet to RO	Permeate	Reject
19	Flow	m3/day	112	84	28
20	pH	--	7-8	7-8	7-8
21	COD	mg/L	< 150	< 100	< 300
22	TDS	mg/L	1200-1500	< 100	5000-5500
23	--	--	--	--	--

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24	C) Multiple Effect Evaporator	--	--	--	--
25	Parameters	Unit	Reject from RO	Outlet from MEE	--
26	Flow	m3/day	28	56	--
27	pH	--	6-7	6-7	--
28	BOD3, 27°C	mg/L	80-100	80-100	--
29	COD	mg/L	200-250	<100	--
30	TSS	mg/L	<100	<100	--
31	TDS	mg/L	5000-5500	<100	--

Amount of effluent generation (CMD):	112
Capacity of the ETP:	130
Amount of treated effluent recycled :	140
Amount of water send to the CETP:	Amount of effluent send to CETP will be 112.00 CMD after proper functioning of CETP Kurkumbh, till that unit will run on Zero Liquid Discharge (ZLD) basis.
Membership of CETP (if require):	To be applied
Note on ETP technology to be used	ETP, RO & MEE
Disposal of the ETP sludge	MWML, Ranjangaon

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Chemical Sludge from waste water treatment	35.3	TPA	NA	850.0	850.0	CHWTSDF, Ranjangaon
2	MEE Solids	35.3	TPA	NA	62.0	62.0	CHWTSDF, Ranjangaon
3	Spent Carbon from ETP	35.3	TPA	NA	45.0	45.0	CHWTSDF, Ranjangaon
4	Discarded drums and containers	33.3	Nos./M.	NA	250 nos.	250 nos.	MPCB authorized party for reuse
5	Distillation Residue	20.3	TPA	NA	40.0	40.0	CHWTSDF, Ranjangaon

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 (12 TPH & 06 TPH)	Coal 43.2 T/D	01 Common	30 m.	1 m	125 C
2	Thermopack (10 lacs. & 06 lacs. kcal/hr)	Coal, 07 T/D	01 Common	30 m.	0.6 m	130 C
3	D G Set	HSD, 6.5 T/D	01	6.3 m.	0.15 m	140 C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	NA	50.2 T/D	50.2 T/D
2	HSD	NA	6.5 T/D	6.5 T/D
41.Source of Fuel		Imported Coal, Local HSD		

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42.Mode of Transportation of fuel to site	By Sea and Road

43.Green Belt Development	**Total RG area :**	9900 m2
	No of trees to be cut :	Trees are not available at project side
	Number of trees to be planted :	1500 nos.
	List of proposed native trees :	Terminaliaarjuna (Arjun), Bauhinia racemosa(Apta), Ficusbenghalensis(Vad), Ficusreligiosa(Pimpal), Polyalthialongifolia(Ashok), Azadirachtaindica(Kaduneem), Cassia fistula (Bahava), Neolamarckiacadamba(Kadamb), Teminaliatomentosa(Ain), Lagerstroemia speciosa(Taman), Bougainvillea spectabilis(Bouganvel), Lantana camara(Ghaneri), Calatropisgigentia(Rui), Hibiscus rosasinensis(Jaswand), Neriumindicum(Kanher)
	Timeline for completion of plantation :	5 Years.

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Terminalia arjuna	Arjun	150	Pollution resistant and Native
2	Bauhinia racemosa	Apta	150	Pollution resistant and Native
3	Ficus benghalensis	Vad	50	Pollution resistant and Native
4	Ficus religiosa	Pimpal	50	Pollution resistant and Native
5	Polyalthia longifolia	Ashok	200	Pollution resistant and Native
6	Azadirachta indica	Kaduneem	100	Pollution resistant and Native
7	Cassia fistula	Bahava	100	Pollution resistant and Native
8	Neolamarckia cadamba	Kadamb	100	Pollution resistant and Native
9	Teminalia tomentosa	Ain	50	Pollution resistant and Native
10	Lagerstroemia speciosa	Taman	100	Pollution resistant and Native
11	Bougainvillea spectabilis	Bouganvel	100	Pollution resistant and Native
12	Lantana camara	Ghaneri	100	Pollution resistant and Native
13	Calatropis gigentia	Rui	50	Pollution resistant and Native
14	Hibiscus rosasinensis	Jaswand	100	Pollution resistant and Native
15	Nerium indicum	Kanher	100	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	NA	NA	NA

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	1000 KVA
	During Operation phase (Demand load):	950 KVA
	Transformer:	1000 KVA
	DG set as Power back-up during operation phase:	1000 KVA (1 no.)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No high tension line passing through the plot

48.Energy saving by non-conventional method:

NIL

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Not Applicable	Stack of adequate height, multiple cyclone separator followed by Mechanical dust collector.
Water	Not Applicable	ETP , RO & MEE,
Noise	Not Applicable	Acoustic enclosure for DG set
Solid Waste	Not Applicable	Disposal to MWML, Ranjangaon

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust	Air Pollution	0.1
2	Debris	Solid Waste	0.1
3	Construction motor	Noise Pollution	0.1

b) Operation Phase (with Break-up):

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Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air pollution control	Provision of stacks of height as recommended by CPCB, Mechanical dust collector, single cyclone separator, multiple cyclone separator	157.0	10.0
2	Water pollution control	ETP, RO & MEE operation cost, Rain water harvesting	400.0	224.0
3	Noise pollution Control	Acoustic enclosure/Ant vibration pads	0.50	0.10
4	Environment Monitoring budget	Environment Monitoring	--	2.44
5	Occupational health care	Medical checkup, Health insurance policy, Medical staff charges, First aid facilities consumables, Control of fugitive emissions	17.5	6.25
6	Hazardous waste Storage & disposal	Storage, Transportation and disposal	7.5	67.0
7	Green belt	Development & Maintenance	14.0	6.0
8	Total	-	596.5	315.79

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Acetone	Liquid	Near ETP	50	50	33.83	Local	Road
Methanol	Liquid	Near ETP	50	50	137.50	Local	Road
Hexane	Liquid	Near ETP	50	50	20.00	Local	Road
Tert-Butyl Amine	Liquid	Near ETP	50	50	25.00	Local	Road
H2O2 -60%	Liquid	Ware house	100	100	333.33	Local	Road
Phenol	Liquid	Ware house	200	200	758.33	Local	Road
NaOH (50%)	Liquid	Ware house	100	100	162.50	Local	Road
Dimethyl Sulphate	Liquid	Ware house	100	100	291.66	Local	Road
Diphenyl-Amine	Solid	Ware house	09 Ton	09 Ton	736.66	Local	Road
Sulphur	Solid	Ware house	09 Ton	09 Ton	279.00	Local	Road
Anisole	Liquid	Ware house	100	100	395.80	Local	Self Product
MEHQ	Solid	Ware house	25 kg X 400 Nos.	25 kg X 400 Nos.	142.00	Local	Self Product
Ammonia Gas	Gas	Ware house	3.2	3.2	25	Local	Road

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Hydrogen Gas	Gas	Ware house	0.680	0.680	3.3	Local	Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Not Applicable
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	3600
	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
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No Protected area within 10 km radius circle
	Category as per schedule of EIA Notification sheet	5(f) B1
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	11-07-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable

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

Brief information of the project by SEAC

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

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

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

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

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

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

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
3) PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc
4) PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.
5) PP to carry out HAZOP and QRA and submit Disaster Management Plan.
6) PP to submit details on the disposal of construction waste.
7) PP to submit power requirement calculations. PP to provide solar lights of administrative building and street lights.
8) PP to provide lightening arrester.

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.

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154th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 154th ,Day-2 **Meeting Date** August 28, 2018

Subject: Environment Clearance for Aastrid LifeSciences Pvt. Ltd., at Plot no. at Plot No. FS-1 & FS-2, Additional MIDC Mahad, Raigad, Maharashtra.

Is a Violation Case: No

1.Name of Project	New project of manufacturing of chemical intermediates at Plot No. FS-1 & FS-2, Additional MIDC Mahad, Raigad by Aastrid LifeSciences Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Aastrid LifeSciences Pvt. Ltd.
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Industrial- Manufacturing of Chemical Intermediates
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Plot No. FS-1 & FS-2, Additional MIDC Mahad, Raigad
9.Taluka	Mahad
10.Village	Amshet
Correspondence Name:	Dr. Vikram Jagtap
Room Number:	A-514,
Floor:	TTC Industrial Area,
Building Name:	MIDC Mahape,
Road/Street Name:	-
Locality:	TTC Industrial Area,
City:	Navi Mumbai – 400 701
11.Area of the project	Additional MIDC, Mahad, Maharashtra
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicale
	Approved Built-up Area: 15571.00
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.)	23035 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.):** 15571.00
	b) Non FSI area (sq. m.): 7464.00
	c) Total BUA area (sq. m.): 23035.00
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 10-07-2018
19.Total ground coverage (m2)	5970.68 Sq.m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	25.92
21.Estimated cost of the project	490000000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	No
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	(S)-n-ethyl-2-aminomethyl pyrrolidine	Not Applicable	05.00	05.00
2	N-ethyl-2-aminomethyl pyrrolidine	Not Applicable	10.00	10.00
3	2H-thieno[2,3-e]-1,2-thiazine-3-carboxylic acid-6-chloro-4-hydroxy-2-methyl-methyl ester,1,1-dioxide	Not Applicable	01.00	01.00
4	2-Amino-3-nitro-6-chloropyridine	Not Applicable	02.00	02.00
5	5,6-Dimethoxy Indanone	Not Applicable	05.00	05.00
6	5-Chloro-3-Sulfonamide Acetate Thiophene-2-Carboxylate	Not Applicable	05.00	05.00
7	Glycine Methyl Ester Hydrochloride	Not Applicable	01.00	01.00
8	(S)-3-Hydroxy Tetrahydrofuran	Not Applicable	03.00	03.00
9	(R)-3-Hydroxy Tetrahydrofuran	Not Applicable	01.00	01.00
10	2,5-Pyridinedicarboxylic Acid,1-(2,2-Dimethoxyethyl)-1,4-Dihydro-3-Methoxy-4-Oxo-2-Methyl Ester	Not Applicable	05.00	05.00
11	Methyl-4-Methoxy Oxobutanoate	Not Applicable	05.00	05.00
12	2,4,5-Trimethoxy Benzoic Acid	Not Applicable	03.00	03.00
13	2-Aminothiazol-4-Carboxylic Acid Ethyl Ester	Not Applicable	03.00	03.00
14	(1S)-2-(Dimethyl amino)-1-Phenylethanol	Not Applicable	02.00	02.00
15	3-(Bromomethyl)-7-Chlorobenzo[B] Thiophene	Not Applicable	02.00	02.00
16	Methyl-5-Formyl-2-Methoxy Benzoate	Not Applicable	02.00	02.00
17	4-Isobutoxybenzylamine	Not Applicable	03.00	03.00
18	N-(4-fluorobenzyl)-1-methylpiperidin-4-amine	Not Applicable	02.00	02.00
19	Propiolic acid	Not Applicable	01.00	01.00
20	N-(4-Aminobenzoyl)-beta alanine	Not Applicable	05.00	05.00
21	1,2,6-Hexanetriol	Not Applicable	01.00	01.00
22	Cyclo butyl Carbinol	Not Applicable	02.00	02.00
23	6-[methyl(phenylsulfonyl)amino]- hexanoic acid	Not Applicable	25.00	25.00

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24	Cyano methyl imidazole	Not Applicable	03.00	03.00
25	5-methylisoxazole-4-carboxylic acid	Not Applicable	02.00	02.00
26	6-Bromo 2- naphthoic acid methyl ester	Not Applicable	02.00	02.00
27	Ethyl 7 chloroheptanoate	Not Applicable	02.00	02.00
28	Trans- Pentenoic acid	Not Applicable	02.00	02.00
29	3 nitro 2 methyl benzoic acid	Not Applicable	02.00	02.00
30	5 nitro 2 methoxy phenol	Not Applicable	02.00	02.00
31	Bis(4-hydroxyphenyl) (2pyridyl) methane / DeacetylBisacodyl	Not Applicable	05.00	05.00
32	2-((4-amino pentyl) (ethyl)amino) ethanol	Not Applicable	02.00	02.00
33	Total	--	116.00	116.00

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)

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Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	Not Applicable	10.00	10.00	Not Applicable	(-) 02.00	02.00	Not Applicable	08.00	08.00
Industrial Process	Not Applicable	67.00	67.00	Not Applicable	(+) 19.4	19.4	Not Applicable	86.4	86.4
Cooling tower & thermopack	Not Applicable	452.00	452.00	Not Applicable	(-) 298.00	298.00	Not Applicable	154.00	154.00
Gardening	Not Applicable	38.00	38.00	Not Applicable	(-) 38.00	38.00	Not Applicable	00.00	00.00
Fresh water requirement	Not Applicable	567.00	567.00	Not Applicable	(-) 318.6	318.6	Not Applicable	248.4	248.4

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 -10 m
	Size and no of RWH tank(s) and Quantity:	1 No. - Capacity – 130 CMD
	Location of the RWH tank(s):	UG water Tank – Near pump area
	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) :	Rs. 20.0 lacs.
	Budgetary allocation (O & M cost) :	Rs. 5.2 lacs. /annum
	Details of UGT tanks if any :	i) 2 numbers tank of water with capacity –500 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:	515.2 m3/hr.
	Size of SWD:	212.1 lit/sec.
Sewage and Waste water	**Sewage generation in KLD:**	Total: 8 CMD
	STP technology:	Combined treatment of domestic waste water in ETP.
	Capacity of STP (CMD):	Not Applicable
	Location & area of the STP:	Not Applicable
	Budgetary allocation (Capital cost):	Not Applicable
	Budgetary allocation (O & M cost):	Not Applicable

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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:**	Hazardous Waste: • Discarded drums and containers = 200 nos/month will be sold to authorised dealers ; Non-Hazardous Waste: • Polyethylene Bags = 2.5 TPA; • Paper Bag = 1.5 TPA; • Light density polyethylene bag = 1.5 TPA
	Wet waste:	Hazardous Waste: • ETP Sludge– 32 TPM ; • MEE salts – 415.00 TPM; • Spent Carbon from ETP – 10.00 TPM; • Spent Carbon from process – 1.26 TPM; • Spent Catalyst from process – 2.12 TPM; • Spent solvent from process – 240 TPM; • Process Residue – 100 TPM
	Hazardous waste:	Hazardous Waste: • Discarded drums and containers = 200 nos/month will be sold to authorised dealers ; • ETP Sludge– 32 TPM; • MEE salts – 415.00 TPM; • Spent Carbon from ETP – 10.00 TPM ; • Spent Carbon from process – 1.26 TPM; • Spent Catalyst from process – 2.12 TPM; • Spent solvent from process – 240 TPM; • Process Residue – 100 TPM
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	• E& Battery Waste- 0.2 T/A
Mode of Disposal of waste:	**Dry waste:**	MPCB authorized party for reuse
	Wet waste:	CHWTSDF
	Hazardous waste:	CHWTSDF
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Sale to authorized dismantlers/Recyclers.
Area requirement:	**Location(s):**	Manufacturing area and administration, raw material and finished goods storage area, Utility area, Parking area, Hazardous waste storage, Open space & internal roads, ETP, MEE & Green belt area.
	Area for the storage of waste & other material:	• Raw material/ Finished Good Storage Area – 558.00 Sq.m (Ground coverage) • Hazardous Waste Storage Area – 45.00Sq.m
	Area for machinery:	4210.68 Sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1.0 Lacs.
	O & M cost:	550.00 Lacs/A

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	A) Multiple Effect Evaporator	-	-	-	-
2	Parameters	Unit	Inlet To MEE	Outlet From MEE	-
3	Flow	CMD	86.4	103.00 (86.4+17.3)	-
4	pH	-	4.0 - 5.0	6.0 - 7.0	-
5	COD	mg/L	1,00,000 - 1,30,000	17000 - 18000	-
6	BOD3,27ºC	mg/L	50,000 - 65,000	6500 - 7500	-

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7	TSS	mg/L	300 - 400	< 100	-
8	TDS	mg/L	1,40,000 - 1,60,000	< 100	-
9	B) ETP Treatment	-	-	-	-
10	Parameters	Unit	Inlet To Primary	Outlet from Tertiary	Effluent Discharge Standards (MPCB)
11	Flow	CMD	257.00 (154.00+ 103.00)	265.00 (257.00 + 08.00 from Domestic will be treated in secondary)	--
12	pH	-	6.0 - 7.0	6.0 - 7.0	5.5 - 8.5
13	COD	mg/L	7000 - 8000	200 - 250	< 250
14	BOD3,27ºC	mg/L	3500 - 4000	50 - 100	< 100
15	TSS	mg/L	100 - 200	50 - 100	< 100
16	TDS	mg/L	1500 - 1800	1800 - 2100	< 2100

Amount of effluent generation (CMD):	Industrial - 240.4 CMD Domestic - 8.0 CMD
Capacity of the ETP:	318.00 CMD
Amount of treated effluent recycled :	No water will be recycled.
Amount of water send to the CETP:	265.00 CMD
Membership of CETP (if require):	Yes
Note on ETP technology to be used	High COD & TDS stream from process will be treated in Multi Effect Evaporator (MEE). Treated effluent from MEE along with utility blow downs will be treated in full-fledged ETP. Domestic wastewater will also be treated in secondary as a combined treatment. After tertiary treatment effluent will be discharged to CETP.
Disposal of the ETP sludge	CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Residue from Process	28.1	TPM	Not Applicable	100	100	To CHWTSDF
2	ETP Sludge	35.3	TPM	Not Applicable	32	32	To CHWTSDF
3	MEE salts	35.3	TPM	Not Applicable	415.00	415.00	To CHWTSDF
4	Spent Carbon from ETP	35.3	TPM	Not Applicable	10.00	10.00	To CHWTSDF
5	Spent Carbon from process	28.3	TPM	Not Applicable	1.26	1.26	To CHWTSDF
6	Spent Catalyst from process	28.2	TPM	Not Applicable	2.12	2.12	Regenerate from authorised party
7	Spent Solvent from process	28.6	TPM	Not Applicable	240	240	Sale to authorized dealer
8	Discarded drums & containers	33.1	TPM	Not Applicable	200.00	200.00	MPCB authorised party for reuse
9	Non-Hazardous Waste Details	-	-	-	-	-	-
10	Light density polyethylene bag	-	TPA	Not Applicable	1.5	1.5	Reuse/sale to authorized party
11	Polyethylene Bags	-	TPA	Not Applicable	2.5	2.5	Reuse/sale to authorized party

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12	Paper Bags	-	TPA	Not Applicable	1.5	1.5	Scrap Sale
13	Other Waste	-	-	-	-	-	-
14	E& Battery Waste-	-	T/A	Not Applicable	0.2	0.2	Sale to authorized dismantlers/Recyclers.

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler - 5 TPH (Proposed)	Briquette 30.00 TPD for both Boilers	1	30.0 (Combine stack for both boilers)	0.6	125°C
2	Boiler - 5 TPH (Proposed)	Briquette 30.00 TPD for both Boilers	1	30.0 (Combine stack for both boilers)	0.6	125°C
3	Thermopac – 1000000 Kcal./hr. (Proposed)	Furnace Oil 2.2 TPD	1	30.0	0.4	130°C
4	DG Set – 1500 KVA 3 nos. (Proposed)	HSD, 1000 lit/hr.	1	30.0	0.2	140°C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Briquette	Not Applicable	30.0 TPD	30.0 TPD
2	Furnace oil	Not Applicable	2.2 TPD	2.2 TPD
3	HSD	Not Applicable	1000.0 lit/hr.	1000.0 lit/hr.
41.Source of Fuel		Local & Imported		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	7601.55 sq. m (33% of total plot area)
	No of trees to be cut :	Not applicable. As land is vacant.
	Number of trees to be planted :	1000.00 Nos. Trees and Shrubs
	List of proposed native trees :	Banyan, Pipal, Neem, Kadamb, etc.
	Timeline for completion of plantation :	Six Months after construction phase.

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachtaindica	Neem	50	Pollution resistant and Native
2	Bauhinia racemosa	Apta	50	Pollution resistant and Native
3	Ficusbenghalensis	Banyan	50	Pollution resistant and Native
4	Ficusreligiosa	Pimpal	50	Pollution resistant and Native

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5	Cassia fistula	Amaltas	50	Pollution resistant and Native
6	Azadirachtaindica	Kaduneem	50	Pollution resistant and Native
7	Plumeria alba	Chafa	50	Pollution resistant and Native
8	Neolamarckiacadamba	Kadamb	50	Pollution resistant and Native
9	Teminaliatomentosa	Ain	50	Pollution resistant and Native
10	Lagerstroemia speciosa	Taman	50	Pollution resistant and Native
11	Bougainvillea spectabilis	Bouganvel	100	Pollution resistant and Native
12	Lantana camara	Ghaneri	100	Pollution resistant and Native
13	Calatropisgigentia	Rui	100	Pollution resistant and Native
14	Hibiscus rosasinensis	Jaswand	100	Pollution resistant and Native
15	Neriumindicum	Kanher	100	Pollution resistant and Native
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	2800 KW
	During Operation phase (Demand load):	2100 KW
	Transformer:	2500 KVA
	DG set as Power back-up during operation phase:	Proposed: 3 DG sets – 1500 KVA each
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No high tension lines are passing through the plot

48.Energy saving by non-conventional method:

Nil

49.Detail calculations & % of saving:

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

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50.Details of pollution control Systems

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

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air pollution control	Provision of Bag filter & Stacks for heating units & Scrubbers	45.00	10.00
2	Water pollution control	Multi Effect Evaporator & Effluent Treatment Plant	366.00	543.00
3	Noise pollution Control	Acoustic encl./ Ant vibration pads	Already included in capital cost of project	Already included in capital cost of project
4	Occupational health	Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, In-house first aid room, Other infrastructure and Equipment	15.00	3.00
5	Environmental Monitoring budget	Environmental Monitoring	--	50.00
6	Hazardous waste Storage & disposal	Storage, Transportation and disposal	1.0	550.00
7	Green belt	Development & Maintenance	10.00	4.00
8	Total	-	437.00	1160.00

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

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Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Methanol	Liquid	CCOE TANK FARM AREA	20 T	16	610	Local	By Road
Methylene Dichloride	Liquid	CCOE TANK FARM AREA	20 T	12	4	Local	By Road
Toluene	Liquid	CCOE TANK FARM AREA	20 T	12	115	Local	By Road
Acetic Acid	Liquid	CCOE DRUM STO. AREA	35 Lit	1.75	2	Local	By Road
Acetic Anhydride	Liquid	CCOE DRUM STO. AREA	35 Lit	0.4	20	Local	By Road
Bromine	Liquid	CCOE DRUM STO. AREA	18 Lit	1.44	20	Local	By Road
Benzyl Cynide	Liquid	CCOE DRUM STO. AREA	200 Lit	8.0	5	Local	By Road
Chlorine Gas	Gas	NEAR MFG. AREA	100 m3	4.0	6	Local	By Road
Chlorine Gas (Tonner)	Gas	NEAR ETP AREA	900 m3	27.0	2000	Local	By Road
Chloro Acetone	Liquid	CCOE DRUM STO. AREA	200 Lit	5.0	4	Local	By Road
Chloroform	Liquid	CCOE DRUM STO. AREA	250 Lit	25.0	50	Local	By Road
Di Methyl Formamide (DMF)	Liquid	CCOE DRUM STO. AREA	190 Lit	3.8	20	Local	By Road
Ethyl Acetate	Liquid	CCOE DRUM STO. AREA	190 Lit	15.2	80	Local	By Road
Ethylene Di Chloride (EDC)	Liquid	CCOE DRUM STO. AREA	250 Lit	12.5	55	Local	By Road
Hydrogen Gas Cylinder	Gas	NEAR MFG. AREA 1	5.7 m3	9.12	50	Local	By Road
Hydrogen Gas Cylinder Trolley	Gas	NEAR MFG. AREA 1	7.2 m3	43.2	85	Local	By Road
Hydrogen Peroxide	Liquid	CCOE DRUM STO. AREA	30 Lit	1.5	610	Local	By Road
Liquor Ammonia (Cylinder)	Gas	CCOE DRUM STO. AREA	200 m3	5.0	4	Local	By Road
Pyridine	Liquid	CCOE DRUM STO. AREA	200 Lit	3.0	2	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

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Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	2785.71 Sq.m
	Area per car:	Not Applicable
	Area per car:	Not Applicable
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Not Applicable
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6 m
	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	09-07-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

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

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

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

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

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

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

DECISION OF SEAC

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Based on the presentation by PP and their accredited consultant, SEAC decided to grant the ToR for the preparation of EIA/EMP report as per Standard ToR issued by MoEF&CC and additonal ToR points mentioned as below,

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2) PP to submit lay out plan showing internal roads with six meter width and nine meter turning radius, location of pollution control equipment, parking areas, 33% green belt with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
3) PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc
4) PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report. PP also to submit floor wise equipment lay out plan.
5) PP to carry out HAZOP and QRA and submit Disaster Management Plan. PP to submit chemical handling protocol.
6) PP to submit details of disposal of construction waste.
7) PP to provide new and renewable energy sources for the illumination of office building and street lights.
8) PP to provide lightening arrester.

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.

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154th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 154th ,Day-2 **Meeting Date** August 28, 2018

Subject: Environment Clearance for Environment Clearance for change in product mix project for Manufacturing of Dye Intermediates and Specialty Chemicals under category 5 (f) by M/s. Abhideep Chemicals Pvt. Ltd. at Plot No. A-2, MIDC Area, Ghuggus Road, Chichala, Dist. Chandrapur, Maharashtra 442406

Is a Violation Case: Yes

1.Name of Project	Change in product mix project for manufacturing of Dye Intermediates and Specialty Chemicals at Plot No. A-2, MIDC Area, Ghuggus Road, Chichala, Dist. Chandrapur, Maharashtra 442406
2.Type of institution	Private
3.Name of Project Proponent	M/s. Abhideep Chemicals Pvt. Ltd.
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Industrial- Manufacturing of Dye Intermediates specialty chemicals
6.New project/expansion in existing project/modernization/diversification in existing project	Change in product mix
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot No. A-2, MIDC Area, Ghuggus Road, Padoli, Dist. Chandrapur Maharashtra 442406
9.Taluka	Chandrapur
10.Village	Padoli
Correspondence Name:	Mr. Abhijeet B. Birewar
Room Number:	503
Floor:	--
Building Name:	Keshava
Road/Street Name:	Bandra Kurla Complex
Locality:	Bandra East
City:	Mumbai
11.Area of the project	MIDC
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 15208
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.)	15208
16.Deductions	Not applicable
17.Net Plot area	15208
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.): 15208
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Not applicable
	Approved Non FSI area (sq. m.): Not applicable
	Date of Approval: 18-04-2018
19.Total ground coverage (m2)	3636.36
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	24%
21.Estimated cost of the project	132500000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Manufacturing building, administration, raw material and finished goods storage,maintenance workshop.
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	Beta Oxy Naphthoie (Bon) Acid	100	00	100
2	Pamoic Acid	7.5	00	7.5
3	Di-Sodium Pamoate	4.17	00	4.17
4	BNSA (Pure)	8.33	00	8.33
5	1-Hyrdoxy-2-Naphthoic Acid	4.17	00	4.17
6	1-Hydroxy-2-Naphthoic Acid-Phenyl Ester	2.5	00	2.5
7	1-Naphthalene Acetic Acid	2.0	00	2.0
8	1-Naphthalene Acetamide	2.0	00	2.0
9	Methyl Phenyl Hydantoin	40	00	40
10	OR	--	--	--
11	m-PhenoxyBenzaldehyde	184	00	184
12	OR	--	--	--
13	Beta Naphthol	184	00	184
14	OR	--	--	--
15	1,3-Dibromo-5-methyl-5 phenyl hydantoin	--	00	--

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16	2,2 Biphenol	--	00	--
17	3-Ethyl Amino 4-Methyl Phenol	--	00	--
18	p-PhenyleneDiamine	--	00	--
19	m-Hyrdoxyacetonphenone	--	00	--
20	1,2,3,4 butane tetra carboxylic acid	--	00	--
21	P Mehtoxy phenyl acetic acid	--	00	--
22	3-Chloro 2-Methyl Anisole	--	00	--
23	Binol	--	00	--
24	2-phenyl-3-3-Bis(4-Hydroxy phenol) Phthalinidine	--	00	--
25	2-Hydroxy 6-Naphthoic acid	--	00	--
26	Cyclopropane Carboxylic Acid (New Product)	--	00	--
27	Total	184	00	184
28	Note: We shall manufacture 184 MT/M either one of the product or combination of the products. The total manufacture quantity will not exceed 184 MT/M	--	--	--
29	By-Product	--	--	--
30	Tar	13.57	00	13.57
31	Sodium Bisulphite	00	51.2	51.2
32	Sodium Chloride	00	34.8	34.8
33	Methanol	00	34	34
34	Total	13.57	120	133.57

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

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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	12	0	12	3	0	3	9	0	9
Industrial Process	83.5	0	83.5	9	0	9	74.5	0	74.5
Cooling tower & thermopack	117.5	0	117.5	92.5	0	92.5	25	0	25
Fresh water requirement	213	0	213	104.5	0	104.5	108.5	0	108.5

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10-15 m below ground level
	Size and no of RWH tank(s) and Quantity:	We propose 5 m3 collection tank for roof top rain water rain water harvesting.
	Location of the RWH tank(s):	Near Office Building
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Not applicable as collected rain water will be reused.
	Budgetary allocation (Capital cost) :	3lac.
	Budgetary allocation (O & M cost) :	Rs. 0.4lac./annum
	Details of UGT tanks if any :	No underground tank. Only roof top water collection facility will be provided.
35.Storm water drainage	**Natural water drainage pattern:**	Available at site.
	Quantity of storm water:	Not Applicable
	Size of SWD:	Not Applicable
Sewage and Waste water	**Sewage generation in KLD:**	9 CMD
	STP technology:	9 CMD will be send to sister concern M/s. Multi Organics, for treatment through proposed STP
	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:**	Coal Ash 720 TPA
	Wet waste:	Not Applicable
	Hazardous waste:	Spent Oil 200 Lit/A
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable

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Mode of Disposal of waste:	**Dry waste:**	Sold to brick manufacturer.
	Wet waste:	Not Applicable
	Hazardous waste:	Sold to Authorized Recycler
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Manufacturing area, administration building, raw material and finished goods storage area, Utility area, Parking area, internal roads &Green belt area.
	Area for the storage of waste & other material:	Raw material/ Finished Good Storage Area –1526.44 Sq.m
	Area for machinery:	1252.73 sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Included in total capital cost
	O & M cost:	Rs. 3 lacs./year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	PH	--	8.0 - 9.5	Not Applicable as project is ZLD	Not Applicable as project is ZLD
2	COD	Mg/Lit.	4000	Not Applicable as project is ZLD	Not Applicable as project is ZLD
3	BOD (3 days at 27 OC)	Mg/Lit.	1800	Not Applicable as project is ZLD	Not Applicable as project is ZLD
4	TSS	Mg/Lit.	300	Not Applicable as project is ZLD	Not Applicable as project is ZLD
5	Oil & Grease	Mg/Lit.	10	Not Applicable as project is ZLD	Not Applicable as project is ZLD

Amount of effluent generation (CMD):	Industrial - 99.5 CMD Domestic – 9 CMD
Capacity of the ETP:	Trade effluent will be sent to sister concern for treatment M/s. Multi Organics, for treatment through proposed ETP100 CMD.
Amount of treated effluent recycled :	99.5 CMD
Amount of water send to the CETP:	Not Applicable
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	Liquid Effluent - High TDS &high COD Stream from process is being sent to MEE. Blowdown from utilities, floor washing etc. is being treated in full-fledged ETP plant. The treated effluent is sent to RO for further treatment. This project is run on completely Zero Liquid Discharge (ZLD) basis
Disposal of the ETP sludge	Not Applicable

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent oil	5.1	Ltr/A	200	0	200	Sale to authorized recycler
2	Non-Hazardous Waste	-	-	-	-	-	-

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3	Boiler Ash	-	(MT/A)	720	0	720	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 TPH (Existing , Stand By)	Coal – 7.2 TPD	1	27 m from ground	0.65	125 0C
2	Boiler -2.5 TPH (Existing)	Coal – 9.6 TPD	1	27 m from ground	0.65	125 0C
3	Thermopack 6 lac Kcal/hr (Existing)	Coal – 2.4 TPD	1	16 m from ground	0.55	1250C
4	DG Set – 250 KVA (Existing)	HSD – 53 lit./hr	1	3.5 m above enclosure	0.15	140 0C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	19.2 TPD	Not Applicable	19.2 TPD
2	HSD	53 Ltr/hr	Not Applicable	53 Ltr/hr
41.Source of Fuel		Local		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	5024 sq.m.
	No of trees to be cut :	Nil
	Number of trees to be planted :	500.0 nos.
	List of proposed native trees :	Terminalia arjuna(Arjun), Bauhinia racemosa(Apta), Ficusbenghalensis(Vad), Ficusreligiosa(Pimpal), Polyalthialongifolia(Ashok), Azadirachtaindica(Kaduneem), Cassia fistula (Bahava), Neolamarckiacadamba(Kadamb), Teminaliatomentosa(Ain), Lagerstroemia speciosa(Taman), Bougainvillea spectabilis(Bouganvel), Lantana camara(Ghaneri), Calatropisgigentia(Rui), Hibiscus rosasinensis(Jaswand), Neriumindicum(Kanher)
	Timeline for completion of plantation :	5 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Terminaliaarjuna	Arjun	75	Pollution resistant and Native
2	Bauhinia racemosa	Apta	20	Pollution resistant and Native
3	Ficusbenghalensis	Vad	20	Pollution resistant and NativePollution resistant and Native
4	Ficusreligiosa	Pimpal	75	Pollution resistant and Native
5	Polyalthialongifolia	Ashok	20	Pollution resistant and Native
6	Azadirachtaindica	Kaduneem	25	Pollution resistant and Native

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7	Cassia fistula	Bahava	20	Pollution resistant and Native
8	Neolamarckiacadamba	Kadamb	75	Pollution resistant and Native
9	Teminaliatomentosa	Ain	25	Pollution resistant and Native
10	Lagerstroemia speciosa	Taman	30	Pollution resistant and Native
11	Bougainvillea spectabilis	Bouganvel	25	Pollution resistant and Native
12	Lantana camara	Ghaneri	20	Pollution resistant and Native
13	Calatropisgigentia	Rui	25	Pollution resistant and Native
14	Hibiscus rosasinensis	Jaswand	25	Pollution resistant and Native
15	Neriumindicum	Kanher	20	Pollution resistant and Native
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	496 KW
	During Operation phase (Demand load):	335 KW
	Transformer:	500 KVA
	DG set as Power back-up during operation phase:	1 DG set- 250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No high tension lines are passing through the plot

48.Energy saving by non-conventional method:

Nil

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed

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Air	Multiple cyclone and dust collector followed by stack of adequate height.	Multiple cyclone and dust collector followed by stack of adequate height.
Water	MEE, ETP & RO	MEE, ETP & RO
Noise	Acoustic enclosure for DG set	Acoustic enclosure for DG set
Solid Waste	Sale to authorized recycler	Sale to authorized recycler

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air pollution control	Multi cyclone and dust collector followed by stack is provided. Scrubbers Provided.	55	6
2	Water pollution control	Single effect evaporator	20	6
3	Noise pollution Control	Acoustic encl./ Ant vibration pads	12	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	4	1
5	Environmental Monitoring Budget	Environmental Monitoring	2	1
6	Hazardous waste Storage & disposal	-	3	1
7	Green belt	-	2	0.5
8	Total	-	98	16.5

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
Alpha Naphthol	Solid	RM Storage	0.15	0.15	4.17	Local	By Road

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Alpha Naphthalene Acetic Acid	Solid	RM Storage	0.5	0.5	2.67	Local	By Road
Ammonia	Liquid	RM Storage	0.05	0.05	0.267	Local	By Road
Ammonium Carbonate	Solid	RM Storage	5.0	5.0	26.8	Local	By Road
Acetophenone	Liquid	RM Storage	6.0	6.0	30.8	Local	By Road
AON Acid	Solid	RM Storage	1.5	1.5	7.5	Local	By Road
Beta Naphthol	Solid	RM Storage	4.5	4.5	135	Local	By Road
BON Acid	Solid	RM Storage	0.15	0.15	4.17	Local	By Road
Carbon Dioxode	Gas	RM Storage	1.4	1.4	42	Local	By Road
Caustic Soda Flakes / lye	solid/ Liquid	RM Storage	20	20	185	Local	By Road
Ethanol	Liquid	RM Storage	200 lit	200 lit	0.93	Local	By Road
Di Iso Propyl Ether	Liquid	RM Storage	200 lit	200 lit	0.6	Local	By Road
DSP	Solid	RM Storage	0.5	0.5	9	Local	By Road
Formaldehyde	Solid	RM Storage	0.5	0.5	1.45	Local	By Road
Methanol	Liquid	RM Storage	2500 lit	2500 lit	16	Local	By Road
Mono Chloro Acetic Acid	Liquid	RM Storage	400 lit	400 lit	1.56	Local	By Road
Naphthalene	Solid	RM Storage	8.0	8.0	230	Local	By Road
Phenol	Solid	RM Storage	12.0	12.0	64	Local	By Road
Sodium Cyanide	Solid	RM Storage	4.0	4.0	12.8	Local	By Road
Sodium Hypo Chlorite	Liquid	RM Storage	0.4	0.4	2.4	Local	By Road
Sulfuric Acid	Liquid	RM Storage	25	25	224.5	Local	By Road
Technical BNSA	Solid	RM Storage	0.6	0.6	16.66	Local	By Road
Thionyl Chloride	Liquid	RM Storage	6.0	6.0	64.4	Local	By Road
Toluene	Liquid	RM Storage	200 lit	200 lit	0.7	Local	By Road
n-Ethyl o-toluedine	Liquid	RM Storage	1.0	1.0	7.35	Local	By Road
p-Nitro Aniline	Liquid	RM Storage	1.0	1.0	7.25	Local	By Road
1,2,3,6 Tetra Hydro phthalic Anhydride	Solid	RM Storage	30	30	41.66	Local	By Road
p-methoxyAcetophenone	Solid	RM Storage	1.0	1.0	7.5	Local	By Road
Marpholine	Liquid	RM Storage	1.0	1.0	4.37	Local	By Road
3-Chlroro 2- methyl Aniline	Liquid	RM Storage	1.0	1.0	5.33	Local	By Road
Phenophthalene	Solid	RM Storage	1.5	1.5	5	Local	By Road
Di Bezofurane	Solid	RM Storage	1.5	1.5	6.04	Local	By Road
Ferric Chloride	Solid	RM Storage	0.2	0.2	0.2	Local	By Road
Aniline	Liquid	RM Storage	1.0	1.0	5.86	Local	By Road
4- ChloroBenzaldehyde	Liquid	RM Storage	1.0	1.0	93.8	Local	By Road
r-Methyl Phenyl Hydantoin	Solid	RM Storage	1.0	1.0	4	Local	By Road
Sulphur	Solid	RM Storage	0.5	0.5	1.65	Local	By Road
Sodium Hydro sulfide	Solid	RM Storage	1.0	1.0	3.45	Local	By Road
Potassium Hydroxide	Solid	RM Storage	10.0	10.0	110	Local	By Road
Potassium Carbonate	Solid	RM Storage	0.5	0.5	0.725	Local	By Road
Oleum	Liquid	RM Storage	6.0	6.0	23.5	Local	By Road
Calcium Carbonate	Solid	RM Storage	2.5	2.5	11.76	Local	By Road
Nitric Acid	Liquid	RM Storage	25.0	25.0	84	Local	By Road
Sodium Nitrite	Solid	RM Storage	1.0	1.0	4.67	Local	By Road
Xylene	Liquid	RM Storage	25 KL	25 KL	3	Local	By Road

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Iso propyl Alcohol	Liquid	RM Storage	200 Lit	200 Lit	0.3	Local	By Road
Acetic Acid	Liquid	RM Storage	250 Lit	250 Lit	0.5	Local	By Road
Di methyl sulphate	Liquid	RM Storage	1.0	1.0	7.1	Local	By Road
Hydrochlric Acid	Liquid	RM Storage	25	25	27.8	Local	By Road
Alluminum Chloride	Solid	RM Storage	20	20	155.8	Local	By Road
Methylene Di Chloride	Liquid	RM Storage	600 Lit	600 Lit	1.88	Local	By Road
Bromine	Liquid	RM Storage	30 Lit	30 Lit	0.09	Local	By Road
Chlorine	Gas	RM Storage	0.05	0.05	0.05	Local	By Road
Ethylene Glycol	Liquid	RM Storage	10	10	47	Local	By Road
Para Tolylsulphonic Acid	Solid	RM Storage	0.1	0.1	0.36	Local	By Road
Diglyme	Solid	RM Storage	0.1	0.1	0.56	Local	By Road
Ethylene Dichloride	Liquid	RM Storage	1.0	1.0	4.3	Local	By Road
Sodium Carbonate	Solid	RM Storage	0.1	0.1	0.5	Local	By Road
Sodium BiCarbonate	Solid	RM Storage	0.1	0.1	0.5	Local	By Road
BT -300	Liquid	RM StorageRM Storage	5000 lit	5000 lit	5	Local	By Road
Gamma Buty Lactone	Liquid	RM Storage	5.0	5.0	46.04	Local	By Road
Sodium Methoxide	Solid	RM Storage	5.0	5.0	34.2	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:	NA
	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:	Available
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable

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	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	13-04-2018

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

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PP submitted their application for grnat 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 13.04.2018 and SEIAA vide Unique ID No1262.. on 13th April, 2018 on SEIAA portal for grant of ToR as a case of violation and expansion.

DECISION OF SEAC

PP requested to postpone the case.

Hence deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

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154th Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 154th ,Day-2 **Meeting Date** August 28, 2018

Subject: Environment Clearance for proposed expansion project for manufacturing of dye intermediate by Multi Organics Pvt. Ltd., at Plot No. A-1, MIDC Industrial Area, Ghuggus Road, Padoli, Taluka & District Chandrapur, Maharashtra 442 406

Is a Violation Case: Yes

1.Name of Project	Proposed expansion project for manufacturing of dye intermediate Multi Organics Pvt. Ltd. at Plot No. A-1, MIDC Industrial Area, Ghuggus Road, Padoli, Taluka & District Chandrapur, Maharashtra 442 406.
2.Type of institution	Private
3.Name of Project Proponent	Multi Organics Pvt. Ltd.
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Industrial – Manufacturing of Dye Intermediate
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot No. A-1, MIDC Padoli, Chandrapur, Maharashtra
9.Taluka	Chandrapur
10.Village	Chinchala
Correspondence Name:	Abhijeet B. Birewar
Room Number:	503
Floor:	NA
Building Name:	Keshava, Bandra-Kurla Complex,
Road/Street Name:	NA
Locality:	Bandra
City:	Mumbai
11.Area of the project	MIDC, Chandrapur
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 20235
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.)	20235
16.Deductions	NA
17.Net Plot area	20235
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20235
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.): 20235
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 13-04-2018
19.Total ground coverage (m2)	20235
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	496720000

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22.Number of buildings & its configuration

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

23.Number of tenants and shops	NA
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	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	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Beta Naphthol	525	375	900
2	Alpha Naphthol	100	150	250
3	1-Fluoronaphthalene	25	25	50
4	Total	650	550	1200
5	By-Product	-	-	-
6	Sodium Sulphate	500	400	900
7	Sodium Sulphite	725	600	1325
8	Tar	90	70	160
9	Calcium Sulphate	185	80	265
10	Total	1500	1150	2650

32.Total Water Requirement

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

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	40	10	50	08	02	10	32	08	40
Industrial Process	115	100	215	106	94	200	09	6	15
Cooling tower & thermopack	285	240	525	264	230	494	21	10	31

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Fresh water requirement	440	350	790	378	326	704	62	24	86

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 to 10 m
	Size and no of RWH tank(s) and Quantity:	Tank of 5 m3
	Location of the RWH tank(s):	Near stores building and admin office building
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Not applicable as collected rain water will be reused.
	Budgetary allocation (Capital cost) :	03 lac.
	Budgetary allocation (O & M cost) :	Rs. 0.5 lac./ annum
	Details of UGT tanks if any :	Not Available
35.Storm water drainage	**Natural water drainage pattern:**	As per slope available at project site
	Quantity of storm water:	Not applicable
	Size of SWD:	Not applicable
Sewage and Waste water	**Sewage generation in KLD:**	40
	STP technology:	Proposed STP
	Capacity of STP (CMD):	60
	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:**	Boiler Ash about 31 T/D
	Wet waste:	Used Oil = 40.0 LPM • FSR Ash = 0.30 TPD • Chemical Sludge from ETP =0.20 TPD • Spent carbon from ETP = 0.05 TPD
	Hazardous waste:	Used Oil = 40.0 LPM • FSR Ash = 0.30 TPD • Chemical Sludge from ETP =0.20 TPD • Spent carbon from ETP = 0.05 TPD
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	STP Sludge will be used for gardening
	Others if any:	Not Applicable

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Mode of Disposal of waste:	**Dry waste:**	Send to Brick manufacturers & land filling
	Wet waste:	CHWTSDF, Sale to registered reprocessor
	Hazardous waste:	CHWTSDF, Sale to registered reprocessor
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Plant Area, Raw material storage area, Finished Goods storage, Office Building, Utility area, Parking area, Hazardous waste storage, Open space & internal roads, ETP, MEE & RO, Green belt area
	Area for the storage of waste & other material:	1400.00 m2
	Area for machinery:	2743.43 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Included in capital cost
	O & M cost:	Rs. 10 lacs./year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	8.0 to 9.5	Not Applicable as project is ZLD	ot Applicable as project is ZLD
2	COD	mg/lit	1500	Not Applicable as project is ZLD	ot Applicable as project is ZLD
3	BOD (3 days 27° C)	mg/lit	700	Not Applicable as project is ZLD	ot Applicable as project is ZLD
4	TSS	mg/lit	300	Not Applicable as project is ZLD	ot Applicable as project is ZLD
5	Oil & Grease	mg/lit	10	Not Applicable as project is ZLD	ot Applicable as project is ZLD

Amount of effluent generation (CMD):	46.0 CMD
Capacity of the ETP:	100.0 CMD
Amount of treated effluent recycled :	46.0 CMD
Amount of water send to the CETP:	Not Applicable as this unit will be run as Zero Liquid Discharge (ZLD) Unit
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	Effluent from process having high TDS will treat in MEE, and low TDS will treat in ETP & RO permeate will be recycle and reuse and RO reject will be treated in MEE. Thus, unit will be Complete ZLD unit.
Disposal of the ETP sludge	CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Chemical Sludge from ETP	35.3	TPD	0.10	0.10	0.20	CHWTSDF
2	FSR Ash	26.2	TPD	0.15	0.15	0.30	CHWTSDF
3	Used Oil	5.1	LPM	25.00	15.00	40.00	Sale to registered reprocessor

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4	Spent carbon from ETP	36.2	TPD	00.00	0.05	0.05	CHWTSDF
5	Non-Hazardous Waste	-	-	-	-	-	-
6	Discarded drums and containers	-	Kg/M	0	100	100	Recycler / sell to approved vendor
7	Polyethylene Bags	-	Kg/M	0	1000	1000	Reused for byproducts & hazardous waste packing / sell to approved vendor
8	Paper Bag	-	Kg/M	0	10	10	Recycler / sell to approved vendor
9	Light density polyethylene bag	-	Kg/M	0	100	100	Recycler / sell to approved 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- 1 (4 TPH) (Existing, Stand by)	Coal/Biofuel/Briquettes/ Bagas-	01	27 m.	0.65 m	160 0C
2	Boiler – 2 (4.5 TPH) (Existing, Stand by)	Coal/Biofuel/Briquettes/ Bagas	01	27 m.	0.65 m	160 0C
3	Boiler – 3 (4 TPH) (Existing)	Coal/Biofuel/Briquettes/ Bagas	01	27 m.	0.65 m	160 0C
4	Boiler – 4 (9 TPH) (Existing)	Coal/Biofuel/Briquettes/ Bagas	01	30 m.	1.1 m	160 0C
5	8 Lac Kcal/hr (Existing)	FO/LDO/ HSD	01	27 m.	0.6 m	160 0C
6	6 Lac Kcal/hr (Existing)	FO/LDO/ HSD	01	16m	0.5 m	160 0C
7	15 Lac Kcal/hr (Existing)	FO/LDO/ HSD	01	27m	0.65 m	160 0C
8	D G Sets 320 KVA (Existing)	HSD, 87 lit./hr.	01	9m	-	-
9	D G Sets 100 KVA (Existing)	HSD, 28 lit./hr.	01	6.5m	-	-
10	FSR (Existing)	FO/LDO/ HSD	01	27m	0.45 m	90 0C
11	Boiler – 5 (20 TPH) (Proposed)	Coal/Biofuel/Briquettes/ Bagas	01	42m	1.2 m	160 0C
12	10 Lac Kcal/hr (Proposed)	Coal/Biofuel/Briquettes/ Bagas	01	31m	0.65 m	160 0C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal/Biofuel/ Briquettes/ Bagas	4345 Kg/hr	3205 Kg/hr	7600 Kg/hr
2	FO/LDO/ HSD	150 Kg/hr	00	150 Kg/hr
3	HSD for DG Set	115 lit./hr	00	115 lit./hr
41.Source of Fuel		Local		
42.Mode of Transportation of fuel to site		By Road		

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43.Green Belt Development	**Total RG area :**	6677.55 m2
	No of trees to be cut :	Trees are not available at project side
	Number of trees to be planted :	550.00 nos.
	List of proposed native trees :	Terminaliaarjuna (Arjun), Bauhinia racemosa(Apta), Ficusbenghalensis(Vad), Ficusreligiosa(Pimpal), Polyalthialongifolia(Ashok), Azadirachtaindica(Kaduneem), Cassia fistula (Bahava), Neolamarckiacadamba(Kadamb), Teminaliatomentosa(Ain), Lagerstroemia speciosa(Taman), Bougainvillea spectabilis(Bouganvel), Lantana camara(Ghaneri), Calatropisgigentia(Rui), Hibiscus rosasinensis(Jaswand), Neriumindicum(Kanher)
	Timeline for completion of plantation :	5 Years.

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Terminalia arjuna	Arjun	75	Pollution resistant and Native
2	Bauhinia racemosa	Apta	20	Pollution resistant and Native
3	Ficus benghalensis	Vad	20	Pollution resistant and Native
4	Ficus religiosa	Pimpal	75	Pollution resistant and Native
5	Polyalthia longifolia	Ashok	20	Pollution resistant and Native
6	Azadirachta indica	Kaduneem	25	Pollution resistant and Native
7	Cassia fistula	Bahava	20	Pollution resistant and Native
8	Neolamarckia cadamba	Kadamb	75	Pollution resistant and Native
9	Teminalia tomentosa	Ain	25	Pollution resistant and Native
10	Lagerstroemia speciosa	Taman	30	Pollution resistant and Native
11	Bougainvillea spectabilis	Bouganvel	50	Pollution resistant and Native
12	Lantana camara	Ghaneri	20	Pollution resistant and Native
13	Calatropis gigentia	Rui	25	Pollution resistant and Native
14	Hibiscus rosasinensis	Jaswand	50	Pollution resistant and Native
15	Nerium indicum	Kanher	20	Pollution resistant and Native
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	3000 KVA
	During Operation phase (Demand load):	2550 KVA
	Transformer:	2500 KVA
	DG set as Power back-up during operation phase:	320 KVA (1 no.) & 100 KVA (1 no.)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No high tension line is passing through the plot

48.Energy saving by non-conventional method:

NIL

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	tack of adequate height, multiple cyclone separators, Bag filter	Stack of adequate height, multiple cyclone separators, Bag filter
Water	MEE, ETP & RO	MEE, ETP & RO
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:**	NA
	O & M cost:	NA

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust	Air Pollution	12.0
2	Debris	Solid Waste	5.0
3	Construction motor	Noise Pollution	3.0

b) Operation Phase (with Break-up):

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Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air pollution control	Provision of stacks of height as per CPCB, multiple cyclone separators, Bag filter	100	3
2	Water pollution control	MEE, ETP & RO operation cost, Rain water harvesting	500	200
3	Noise pollution Control	Acoustic enclosure/Ant vibration pads	10	1
4	Environment Monitoring budget	Environment Monitoring	30	8
5	Occupational health care	Medical checkup, Health insurance policy, Medical staff charges, First aid facilities consumables, Control of fugitive emissions	5	10
6	Hazardous waste Storage & disposal	Storage, Transportation and disposal	5	12
7	Green belt	Development & Maintenance	5	3

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Naphthalene	Solid	Godown	2000	2000	1500	Imported/Local	Road
Sulphuric Acid	Liquid	tank	175	170	1800	Local	Road
Caustic Soda Lye	Liquid	tank	30	25	300	Local	Road
Caustic Soda Flakes	Solid	Godown	500	400	1000	Local	Road
Lime Power	Solid	Godown	50	50	100	Local	Road
1-naphthalamine	Solid	Godown	50	50	100	Local	Road
NaNo2	Solid	Godown	10	10	50	Local	Road
NaBF4	Solid	Godown	50	50	100	Local	Road

52.Any Other Information

No Information Available

53.Traffic Management

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

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Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	1665
	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):	6m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No Protected area within 10 km radius circle.
	Category as per schedule of EIA Notification sheet	5(f) B1
	Court cases pending if any	NA
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	13-04-2018

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

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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 grnat 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 13.04.2018 and SEIAA vide Unique ID No1262.. on 13th April, 2018 on SEIAA portal for grant of ToR as a case of violation and expansion.

DECISION OF SEAC

PP requested to postpone the case.

Hence deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

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