153rd Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 153rd (Day-3) **Meeting Date** July 2, 2018

Subject: Environment Clearance for Mumbai Pune Expressway Missing Link from Khopoli Exit on YCEW to Sinhagad Institute in Lonavala inn Pune District

Is a Violation Case: No

1.Name of Project	Mumbai Pune Expressway Missing Link from Khopoli Exit on YCEW to Sinhagad Institute in Lonavala inn Pune District
2.Type of institution	Government
3.Name of Project Proponent	Maharashtra State Road Development Corporation (Ltd.)
4.Name of Consultant	Building Environment (India) Pvt. Ltd
5.Type of project	Highway Project
6.New project/expansion in existing project/modernization/diversification in existing project	Diversion (Bypass to exiting road)
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes
8.Location of the project	Raigad and Pune District, Maharashtra
9.Taluka	Khalapur and Maval
10.Village	8 villages
Correspondence Name:	Maharashtra State Road Development Corporation (Ltd.)
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	Opp. Bandra Reclamation Bus Depot, Bandra (w) Mumbai - 400051
Locality:	Bandra (w) Mumbai - 400051
City:	Bandra
11.Area of the project	Khopoli – Municipality and Lonavala - Municipality
12.IOD/IOA/Concession/Plan Approval Number	--
	IOD/IOA/Concession/Plan Approval Number: --
	Approved Built-up Area: 000
13.Note on the initiated work (If applicable)	Not yet started
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	--
15.Total Plot Area (sq. m.)	Not applicable
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 000
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** --
	Approved Non FSI area (sq. m.): --
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	47975700000

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

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	--	--	--	--

32.Total Water Requirement

Dry season:	**Source of water**	Adoshi Dam, Ghotawade dam, Hetawane dam, Donvat Reservoir, Valvan Dam, Bhushi Dam, Temghar Dam
	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) :	193 KLD in construction phase
	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**	Adoshi Dam, Ghotawade dam, Hetawane dam, Donvat Reservoir, Valvan Dam, Bhushi Dam, Temghar Dam
	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) :	193 KLD in construction phase
	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)	--	

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	--	--	60.00	--	--	--	--	--	54.00

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	<2 m bgl
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	Not applicable
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	--
	Budgetary allocation (O & M cost) :	--
	Details of UGT tanks if any :	Not applicable
35.Storm water drainage	**Natural water drainage pattern:**	Not applicable
	Quantity of storm water:	Not applicable
	Size of SWD:	Not applicable
Sewage and Waste water	**Sewage generation in KLD:**	54.00
	STP technology:	Mobile STP will be provided , recycling of treated effluent for dust suppression, gardening etc.
	Capacity of STP (CMD):	Mobile STP will be provided , recycling of treated effluent for dust suppression, gardening etc.
	Location & area of the STP:	labour camp
	Budgetary allocation (Capital cost):	--
	Budgetary allocation (O & M cost):	--

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	50,00,000 Cu.M of muck will be generated during construction phase from tunnelling
	Disposal of the construction waste debris:	The estimated quantity of muck generation during construction is approximately 50, 00,000 Cu. M. out of which 3,00,000 Cu. M is required for the construction purpose and it is decided that 47, 00,000 Cu. M of muck will be stored upto 1.40m depth in the nearby identified quarries as mentioned in the table given below and later on will be sold local Contractor.
Waste generation in the operation Phase:	**Dry waste:**	Not Applicable
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	Not Applicable
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	near labour camp
	Area for the storage of waste & other material:	Not Applicable
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	--
	O & M cost:	--

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not applicable as it is a road project and mobile STP will be provided as mentioned in Section 36	--	--	--	--

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Not applicable as it is a road project	--	--	--	--	--	--

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	Stack/DG	Fuel consumption @100% load with radiator and fan* (litre/hr): 20.88	--	5.31	0.08	450

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total

1	Not Applicable	--	--	--
41.Source of Fuel		Not Applicable		
42.Mode of Transportation of fuel to site		--		

43.Green Belt Development	**Total RG area :**	--
	No of trees to be cut :	8317
	Number of trees to be planted :	40000
	List of proposed native trees :	Attached as annexure
	Timeline for completion of plantation :	Within 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	Attached	Attached	Attached	Attached
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 as it is a road project	--	--

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL - Khalapur
	During Construction Phase: (Demand Load)	--
	DG set as Power back-up during construction phase	8 D.G sets of 82.5 kVA each
	During Operation phase (Connected load):	--
	During Operation phase (Demand load):	3000 kVA for Tunnel 1 and Viaduct 1 and 5000 kVA for Tunnel 2 and Viaduct 2
	Transformer:	--
	DG set as Power back-up during operation phase:	2 D.G sets of 82.5 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Not applicable

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Vehicle exhaust emissions	--	Ventilation system in the tunnel

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	Environmental training	--	10,00,000
2	Plantations	--	6,61,60,000
3	Making Tree Guard 53 cm diameter and 1.3 m high as per design from empty bitumen 4 drum	--	2,47,20,000
4	Environmental monitoring	--	2,60,16,000
5	Environmental measures in Workers camp	--	30,00,000
6	Tunnel safety and Risk Mitigation Measures	--	10,57,84,000
7	Total	--	22,66,80,000

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Maintenance of plantations	For 2nd year	--	68,00,000
2	Maintenance of plantations	For 3rd year	--	68,00,000
3	Environmental monitoring	--	--	19,68,000
4	Total	--	--	1,55,68,000

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	--	--	--	--	--	--	--

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The proposed alignment connects with Existing Expressway Near Khopoli End (at Start Point) and Near Sinhagad Institute (at end point)
Parking details:	**Number and area of basement:**	Not applicable as it a road project
	Number and area of podia:	Not applicable as it a road project
	Total Parking area:	Not applicable as it a road project
	Area per car:	Not applicable as it a road project
	Area per car:	Not applicable as it a road project
	Number of 2-Wheelers as approved by competent authority:	Not applicable as it a road project
	Number of 4-Wheelers as approved by competent authority:	Not applicable as it a road project
	Public Transport:	Not applicable as it a road project
	Width of all Internal roads (m):	Not applicable as it a road project
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sudhagad ESZ is 15.29 km from the proposed alignment
	Category as per schedule of EIA Notification sheet	7 (f) category ' B '
	Court cases pending if any	No
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	Yes

	Date of online submission	25-02-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time.
Water Budget	PP to obtain permission for supply of water from competent authority.
Waste Water Treatment	PP to provide movable toilets/bio toilets in the areas of the activities to collect sewage and shall ensure adequate treatment before disposal.
Drainage pattern of the project	PP has carried out extensive study of the contour for the project and included in the EIA report.
Ground water parameters	PP to obtian prior permisison from Ground Water Authority.
Solid Waste Management	he estimated quantity of muck generation during construction is approximately 50, 00,000 Cu. M. out of which 3,00,000 Cu. M is required for the construction purpose and it is decided that 47, 00,000 Cu. M of muck will be stored upto 1.40m depth in the nearby identified quarries as mentioned in the table given below and later on will be sold local Contractor
Air Quality & Noise Level issues	As per data submitted by PP, Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	3000 kVA for Tunnel 1 and Viaduct 1 and 5000 kVA for Tunnel 2 and Viaduct 2 and 8 D.G sets of 82.5 kVA each. 2 DG sets 8.5 KVA as a back up power.
Traffic circulation system and risk assessment	The proposed alignment connects with Existing Expressway Near Khopoli End (at Start Point) and Near Sinhagad Institute (at end p
Landscape Plan	Not Applicable
Disaster management system and risk assessment	PP carried out HAZOP/Risk Assessment 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	EMP cost 2260.00 Lakh during construction phase and Rs. 155.00 Lakh for operation and maintenance.
Any other issues related to environmental sustainability	PP to follow the compensatory forestration religously to enahance environmental quality. PP to be adhere to all the legal requirements as applicable for the project.

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 7(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 to the SEAC-1.

The Public Hearing was conducted on 28th February, 2018 at Charani in Raigad District and on 21st March, 2018 at Lonawala in Pune District.

SEAC-1 granted ToR in the 122nd and 133r meeting of SEAC-1 held on 24-26 February, 2016 and 24-25 August, 2016 respectively.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to obtain Forest Clearance as required under various Acts and Rules.
2) PP to implement extensive road safety campaign to prevent road accidents.
3) PP to operationalise Trauma Center on the express way.
4) PP to submit their plan to implement the CER as per OM issued by MoEF&CC dated 01.05.2018.

FINAL RECOMMENDATION

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

153rd Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 153rd (Day-3) **Meeting Date** July 2, 2018

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

Is a Violation Case: No

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

22.Number of buildings & its configuration

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

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 METER
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	TURNING RADIUS PROVIDED 6 METERS
29.Existing structure (s) if any	RESIN SHED, GODOWN, LABORATORY BUILDING, R & D SHED, SOLVENT GODOWN, WATCHMAN CABIN ETC.
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	SYNTHETIC RESINS	425 (100% Solids) i.e. 531.25 as it is in solution form	2075 (100% Solids) i.e.2593.75 as it is in Solution form	2500 (100% Solids) i.e. 3125 as it is in Solution form

32.Total Water Requirement

Dry season:	**Source of water**	MIDC TALOJA
	Fresh water (CMD):	96.4
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	45.1
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	141.5
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	NA
Wet season:	**Source of water**	MIDC TALOJA
	Fresh water (CMD):	96.4
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	45.1
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	141.5
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	NA
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Industrial Process	16	19	35	2.2	2.5	4.7	16.7	19.3	36
Domestic	8.5	2.5	11	1.5	0.5	2	7	2	9
Cooling tower & thermopack	13.5	60	73.5	13	58	71	0.5	2	2.5
Gardening	10	12	22	10	12	22	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1 M
	Size and no of RWH tank(s) and Quantity:	NIL AS GROUND WATER TABLE LEVEL IS LESS THAN ONE METER.
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	WATER TABLE LEVE IN OUR AREA IS LESS THAN ONE METER HENCE RECHARGE PITS NOT FEASIBLE
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	SR.No Tank No. ST-6 (Old UG-2) ST-5 (Old UG-1) 1 Type of Tank Horizontal Cylindrical Flat Ends Horizontal Cylindrical Flat Ends 2 Material of Construction M.S. M.S. 3 Avg.Internal Dia. 289.5 cm 232.4 cm 4 Internal length 1036.3 cm 609.6 cm 5 Safe Filling Height 265 cm 215 cm 6 Capacity 68007 liters 25863 liters 7 Liquid/Contents MTO Slop oil
35.Storm water drainage	**Natural water drainage pattern:**	BY STORM WATER DRAINAGE
	Quantity of storm water:	0.450 MTR X 0.525 MTR X 1 MTR = 236.25 LTRS PER RUNNING MTR TOTAL LENGTH OF SWD IS 565 MTRS (i.e. 133.48 CU. MTR)
	Size of SWD:	0.450 MTR X 0.525 MTR X 565 MTR
Sewage and Waste water	**Sewage generation in KLD:**	EXISTING 7 KLD AND PROPOSED 2 KLD TOTAL 9 KLD
	STP technology:	NA
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	NA
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	1) 35.3- CHEMICAL SLUDGE : 30 MT/A 2} 35.4- OIL AND GREASE SKIMMING RESIDUES : 1 MT/A 3) 33.31-DISCARDED CONTAINERS / BARRELS / LINERS / BAGS : 1,54,840 NO'S./A 4] 23.1-PROCESS WASTE / RESIDUES : 50 MT/A
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

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

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	ASHOKA TREES	SARACA INDICA	49	TOLERANT TO AIR POLLUTION AND IS EFFECTIVE IN ALLEVIATING NOISE POLLUTION

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

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

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

47.Energy

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

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	%	10

50.Details of pollution control Systems

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

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	ZLD	R.O. SYSTEM + EVAPORATOR	70	12
2	ETP	MEMBRANE DIFFUSERS, BLOWER	10	2
3	EMISSION	FUGITIVE EMISSION HANDALLING SYSTEM	10	2

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
MMA	IN USE	SOLVENT YARD	4	10	23	MANUFACTURER / TRADERS	BY ROAD
OCTANOL	IN USE	SOLVENT GODOWN	1	1.5	5.5	MANUFACTURER / TRADERS	BY ROAD
BASONAT	IN USE	SOLVENT GODOWN	3	4	1.6	MANUFACTURER / TRADERS	BY ROAD
STYRENE	IN USE	SOLVENT YARD	7	15	98	MANUFACTURER / TRADERS	BY ROAD
STYRENE	IN USE	SOLVENT YARD	7	15	98	MANUFACTURER / TRADERS	BY ROAD
BUTANOL	IN USE	SOLVENT YARD	3	20	134	MANUFACTURER / TRADERS	BY ROAD
BUTYL CELLOSOLVE	IN USE	SOLVENT GODOWN	2.5	3	7	MANUFACTURER / TRADERS	BY ROAD
TOLUENE	IN USE	SOLVENT GODOWN	3.5	4	9.5	MANUFACTURER / TRADERS	BY ROAD
SOLVENT C-9	IN USE	SOLVENT GODOWN	3.5	4	7	MANUFACTURER / TRADERS	BY ROAD
AROMAX	IN USE	SOLVENT GODOWN	3	3.5	6.5	MANUFACTURER / TRADERS	BY ROAD
ETHYL ACETATE	IN USE	SOLVENT GODOWN	2	2.5	9	MANUFACTURER / TRADERS	BY ROAD
TODI	IN USE	SOLVENT GODOWN	3	4	22	MANUFACTURER / TRADERS	BY ROAD

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

52.Any Other Information

No Information Available

53.Traffic Management

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

	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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

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

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

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

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

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

DECISION OF SEAC

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 entry/exit gates, internal road width of six meters, storm water drain, turning radius of nine meters, location of pollution control equipment, parking areas, waste storage areas,33% green belt, rain water harvesting etc. along with area calculations.
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 submit technical note on the adequacy of existing space for the proposed expansion. PP also to submit data related to the scale up study to ensure uniform quality of the product.
6) PP to carry out HAZOP/ Risk Assessment and submit Disaster Management Plan.
7) PP to include details of ZLD and design details of ETP in the EIA report.
8) PP to include detailed water balance calculations in the EIA Report.
9) PP to submit an undertaking for not having any ecosensitve area in the 5 km radius from proposed site.
10) PP to prepare socio-economic impact analysis and include in the EIA report.
11) PP to submit their plan to implement the CER as per OM issued by MoEF&CC dated 01.05.2018.
12) PP to submit an undertaking for not violating requirement of EIA Notification, 2006 amended from time to time.

FINAL RECOMMENDATION

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

SEAC Meeting number: 153rd (Day-3) **Meeting Date** July 2, 2018

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

Is a Violation Case: No

1.Name of Project	M/s. Arlex Chemi Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vinod Paharia
4.Name of Consultant	M/s. Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Schedule 5(f), category B-1. industrial project-Expansion
6.New project/expansion in existing project/modernization/diversification in existing project	Production capacity expansion of existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot E-43, Tarapur MIDC, Boisar -401506, Dist. Palghar, Maharashtra.
9.Taluka	Boisar
10.Village	Salwad
Correspondence Name:	Mr. Vinod Paharia
Room Number:	B-1302
Floor:	13
Building Name:	Cello Triumph
Road/Street Name:	I. B. Patel Road
Locality:	Goregaon East
City:	Mumbai
11.Area of the project	Other area- Plot no. E-43, MIDC Tarapur, Boisar,Dist. Palghar,
12.IOD/IOA/Concession/Plan Approval Number	NA for industrial projects
	IOD/IOA/Concession/Plan Approval Number: NA for industrial projects
	Approved Built-up Area: 1800
13.Note on the initiated work (If applicable)	Expansion work will be started after grant of EC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	4050 sq m
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 2465.26
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 2465.26
	Approved Non FSI area (sq. m.): not applicable
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	65000000

22.Number of buildings & its configuration

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

1	Not applicable	Not applicable	Not applicable

23.Number of tenants and shops	Not Applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	6 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Production block, utility block, administration building, warehouse, ETP area
30.Details of the demolition with disposal (If applicable)	610.52 sq.m area will be demolished and rebuilt. The construction waste will be disposed through municipal system or it will be used for landfilling inside the premise.

31.Production Details

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

32.Total Water Requirement

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

33.Details of Total water consumed

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

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

36.Solid waste Management

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

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

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

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

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

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

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

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

47.Energy

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

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

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

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	air pollution	water sprikling , wind barrier to control dust emission	2.0
2	water pollution	mobile toilets will be arranged for construction workers	1.0
3	Noise pollution	PPE for workers. Protective enclosures will be provided to noise producing equipment	0.5
4	occupational health	PPE for workers. First aid facilities	0.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	air pollution	A common stack of 30 m high for boiler	30	5
2	water pollution	Upgradation of ETP to 175 CMD capacity comprising of primary, secondary & tertiary treatment alongwith installation of MEE & RO	400	90
3	noise pollution	Installation of anti-vibration pads & enclosures for DG set & boiler.	3	0.45
4	Environmental monitoring and management	Quarterly environment monitoring	-	2.5
5	Occupational health	Glares, Breathing Masks, Gloves, Boots, Helmets, Ear Plugs & annual health medical check up of workers.	2.5	0.5
6	Green belt development	a green belt of 1336 sq. m. will be provided	6.3	1.8
7	Solid waste management	separate HW storage area development. HW segregation as per category	0.8	0.15
8	water conservation	RWH tank will be provided. the project will be designed as ZLD.	3	0.9

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

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	--
Parking details:	**Number and area of basement:**	--
	Number and area of podia:	--
	Total Parking area:	37.5 sqm.
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	--
	Public Transport:	--
	Width of all Internal roads (m):	6
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	5(f) -'B1'
	Court cases pending if any	No

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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

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

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

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

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

DECISION OF SEAC

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 entry/exit gates, internal road width of six meters, storm water drain, turning radius of nine meters, location of pollution control equipment, parking areas, waste storage areas,33% green belt, rain water harvesting etc. along with area calculations.
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 Risk Assessment and submit Disaster Management Plan.
6) PP to include details of ZLD and design details of ETP in the EIA report.
7) PP to explore possibility to replace the solvent Paraphenitidine.
8) PP to submit a report on process designs, explore possibility to reduce reaction time cycle.
9) PP to include detailed water balance calculations in the EIA Report.
10) PP to submit copy of structural stability certificate of structures existing on site.
11) PP to submit an undertaking for not having any ecosensitve area in the 5 km radius from proposed site.
12) PP to include details of methodology used for socioeconomic survey and include the same in the EIA report.
13) PP to submit their plan to implement the CER as per OM issued by MoEF&CC dated 01.05.2018.
14) PP to submit an undertaking for not having any eco sensitive area in the range of 5 KM from proposed project site.

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.

153rd Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 153rd (Day-3) **Meeting Date** July 2, 2018

Subject: Environment Clearance for Proposed expansion of synthetic organic chemicals facility at Plot No. A-17, MIDC Mahad, Mahad, Dist Raigad by Maharashtra Aldehydes and Chemicals Ltd

Is a Violation Case: Yes

1.Name of Project	Proposed expansion of Synthetic organic chemicals facility at Plot No. A-17, MIDC Mahad, Mahad, Dist Raigad by Maharashtra Aldehydes and Chemicals Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Maharashtra Aldehydes and Chemicals Limited,
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Industrial project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion of existing facility
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot No. A-17, MIDC Mahad, Mahad
9.Taluka	Mahad
10.Village	Mahad
Correspondence Name:	Durgesh Gorane (GM-TECH),
Room Number:	NA
Floor:	NA
Building Name:	NA
Road/Street Name:	NA
Locality:	Maharashtra Aldehydes and Chemicals Limited, A-17, MIDC Mahad Mahad, Dist Raigad
City:	MIDC, Mahad
11.Area of the project	MIDC
12.IOD/IOA/Concession/Plan Approval Number	MIDC plot allotment
	IOD/IOA/Concession/Plan Approval Number: MIDC plot approval
	Approved Built-up Area: 7709.63
13.Note on the initiated work (If applicable)	Not applicable. Proposed expansion will be within existing facility.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC approval
15.Total Plot Area (sq. m.)	20000 sq.m.
16.Deductions	--
17.Net Plot area	--
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** --
	b) Non FSI area (sq. m.): --
	c) Total BUA area (sq. m.): 7709.63
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** --
	Approved Non FSI area (sq. m.): --
	Date of Approval:
19.Total ground coverage (m2)	--
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	--
21.Estimated cost of the project	500000000

22.Number of buildings & its configuration

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

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)	Min. 6 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min. 9 m
29.Existing structure (s) if any	Existing facility pertaining to manufacturing of Synthetic Organic chemicals.
30.Details of the demolition with disposal (If applicable)	No major demolition

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Alkyl Esters Phthalic acids	800	800	1600
2	Alkyl Esters carboxylic acids	30	184	214
3	Alkyl Esters Citric acids	0	150	150
4	Phenol Derivatives	21.5	1186	1207.5
5	Cyclopentanone & its Derivatives	100	0	100
6	Absolute Alcohol	0	1200	1200
7	Distillation of solvents	165	235	400
8	Vitamin Formulations	100	400	500
9	Sodium Sulphate	0	500	500
10	Acetic/ Propionic Acid	0	50	50
11	Sodium Pyrithione	75	- 75	0 (product will be discontinued in proposed project)

32.Total Water Requirement

Dry season:	Source of water	MIDC
	Fresh water (CMD):	--
	Recycled water - Flushing (CMD):	--
	Recycled water - Gardening (CMD):	--
	Swimming pool make up (Cum):	--
	Total Water Requirement (CMD) :	566 cmd (Existing + Proposed)
	Fire fighting - Underground water tank(CMD):	--
	Fire fighting - Overhead water tank(CMD):	--
	Excess treated water	--
Wet season:	Source of water	--
	Fresh water (CMD):	--
	Recycled water - Flushing (CMD):	--
	Recycled water - Gardening (CMD):	--
	Swimming pool make up (Cum):	--
	Total Water Requirement (CMD) :	--
	Fire fighting - Underground water tank(CMD):	--
	Fire fighting - Overhead water tank(CMD):	--
	Excess treated water	--
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	10.5	4.5	15	2.5	0.5	3	8	4	12
Industrial Process	79	180	259	19	10	29	60	170	230
Cooling tower & thermopack	67	225	292	59.5	205	264.5	7.5	20	27.5
Gardening	0	0	0	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Details will be given in EIA report
	Size and no of RWH tank(s) and Quantity:	Details will be given in EIA report
	Location of the RWH tank(s):	Details will be given in EIA report
	Quantity of recharge pits:	Details will be given in EIA report
	Size of recharge pits :	Details will be given in EIA report
	Budgetary allocation (Capital cost) :	Details will be given in EIA report
	Budgetary allocation (O & M cost) :	Details will be given in EIA report
	Details of UGT tanks if any :	Not applicable
35.Storm water drainage	**Natural water drainage pattern:**	Details will be given in EIA report
	Quantity of storm water:	Details will be given in EIA report
	Size of SWD:	Details will be given in EIA report
Sewage and Waste water	**Sewage generation in KLD:**	12 cmd
	STP technology:	Not applicable. Sewage will be treated in ETP plant at Secondary stage.
	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:**	Minor quantity of construction debris will be generate.
	Disposal of the construction waste debris:	Minor quantity of construction debris will be generate.
Waste generation in the operation Phase:	**Dry waste:**	Coal ash: 10.7 TPD, Metal scrap: 200 kg/M, Insulating waste: 100 kg/M, Canteen waste: 900 kg/A, Rubber hand gloves, PVC shoes, tarpoline, paper waste: 300 kg/A, Broken discarded glass: 200 kg/A
	Wet waste:	NA
	Hazardous waste:	Chemical sludge form waste water treatment - 40 MT/D, Residue And wastes 420 KL/M, Process sludge / residue 210 KL/M, Spent Organic solvent 270 KL/M, Discarded barrels/liners 2200 Nos. / Y, Discarded Asbestos 250 Kg/yr, Spent oil (waste/used oil) 230 Kg/M, Oil soaked gaskets and cotton waste 5 Kg/M, Filter &filter material 1 MT/Y
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	Coal Ash: Sale to Bricks manufacture, Metal scrap: Sale to Authorized party , Insulating waste: Sale to Authorized party, Canteen waste: Composting, Rubber hand gloves, PVC shoes, tarpaulin, paper waste: Recycle/ Sale after decontamination, Broken discarded glass: Sale after decontamination
	Wet waste:	Wet waste will be disposed off as per norms.
	Hazardous waste:	Hazardous waste will be disposed of as per HW rule, 2016/ CPCB norms/ MPCB norms.
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	as per requirement
	Area for the storage of waste & other material:	as per requirement
	Area for machinery:	--
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Details will be given in EIA report
	O & M cost:	Details will be given in EIA report

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	2 to 4	6.5 to 9	6.5 to 9
2	Chemical oxygen Demand	mg/L	5000 to 6000	< 250	250
3	Biological oxygen Demand	mg/L	2000 to 3000	< 100	100
4	Total suspended solids	mg/L	200 to 300	< 100	100
5	Total Dissolved solids	mg/L	3000 to 4000	< 2100	2100
6	Oil & Grease	mg/L	10 to 15	< 10	10
7	Sulphate	mg/L	2500 to 3000	< 1000	1000
8	Total Ammonical nitrogen	mg/L	10 to 20	< 50	50
9	Chloride	mg/L	1000	< 600	600

Amount of effluent generation (CMD):	269.5 cmd (Exiting + Proposed)
Capacity of the ETP:	300 cmd (Existing + Proposed)
Amount of treated effluent recycled :	Treated effluent partly will be used for green belt development & maintenance.
Amount of water send to the CETP:	269.5 cmd (Exiting + Proposed)
Membership of CETP (if require):	Yes. Company is already member of Mahad CETP.
Note on ETP technology to be used	Please refer Pre- feasibilty report.
Disposal of the ETP sludge	ETP sludge will be sent to CHWTSDF for disposal.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Chemical sludge form waste water treatment	35.3	TPM	10	30	40	to CHWTSDF

2	Residue And wastes	28.1	KL/M	120	300	420	Sale to MPCB authorized recycler
3	Spent Organic solvent	28.6	KL/M	270	0	270	Sale to MPCB authorized recycler/ CHWTSDF
4	Process sludge / residue	26.1	KL/M	60	150	210	Sale to MPCB authorized recycler
5	Discarded barrels/liners	33.1	Nos/A	0	2200	2200	Sale to MPCB authorized recycler
6	Discarded Asbestos	15.2	Kg/A	0	250	250	Sale to MPCB authorized recycler
7	Spent oil	5.1	Kg/M	0	230	230	Sale to MPCB authorized recycler
8	Oil soaked gaskets and cotton waste	5.2	Kg/M	0	5	5	Sale to MPCB authorized recycler
9	Filter & Filter material	36.2	TPA	0	1	1	CHWTSDF

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler (existing) - 2 TPH	Coal- 7 TPD	1	32	0.8	142
2	TFH (Existing) - 4 Lakh Kcal/Hour	FO- 1.2 KL/day OR Coal- 2.8 TPD	2	20	0.45	148
3	Boiler (Proposed) - 6 TPH	Coal: 26 TPD	3	as per statutory requirement	as per statutory requirement	as per statutory requirement
4	TFH (Proposd) - 8 lakh Kcal/hour	Coal: 7.2 TPD	4	as per statutory requirement	as per statutory requirement	as per statutory requirement
5	DG set (Existing) - 62 KVA	HSD: 0.5 KL/day	5	2 m above roof	0.15	140
6	DG set (Proposed) - 250 KVA	HSD: 1.2 KL/day	6	as per statutory requirement	as per statutory requirement	as per statutory requirement

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	9.8 TPD	33.2 TPD	43 TPD
2	Furnace oil	1.2 KL/day	0	1.2 KL/day
3	HSD	0.5 KL/day	1.2 KL/day	1.7 KL/day
41.Source of Fuel		From nearby vendors		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	as per MIDC norms
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	as per CPCB norms
	List of proposed native trees :	Details will be given in EIA report.
	Timeline for completion of plantation :	Details will be given in EIA report.

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

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

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	770 KVA (proposed)
	DG set as Power back-up during construction phase	2 DG set (Existing 1 No. 62 KVA + Proposed 1 No. 250 KVA)
	During Operation phase (Connected load):	770 KVA (proposed)
	During Operation phase (Demand load):	770 KVA
	Transformer:	within plot
	DG set as Power back-up during operation phase:	2 DG set (Existing 1 No. 62 KVA + Proposed 1 No. 250 KVA)
	Fuel used:	HSD for DG sets
	Details of high tension line passing through the plot if any:	No HT line passing through plot.

48.Energy saving by non-conventional method:

Not applicable

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 pollution (Boiler, TFH, Process, DG set)	Stack & Cyclone dust collector	Stack & bag filter
Water pollution	ETP	ETP
Noise pollution	PPE, Acoustic enclosure	PPE, Acoustic enclosure
Hazardous waste	disposal at CHWTSDF, Authorized recycler	disposal at CHWTSDF, Authorized recycler

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	details will be given in EIA report
	O & M cost:	details will be given in EIA report

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

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

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
SDS	Existing + Proposed	within plot	3 x 100 KL + 3 x 100 KL	480 KL	1283.4	Local	Tanker
Methanol	Existing	within plot	46 KL	36 KL	754.5	Local	Tanker
Acetic Anhydride	Proposed	within plot	20 KL	16 KL	52	Local	Tanker
Hexane	Existing	within plot	3 x 12 KL	30 KL	444.4	Local	Tanker
2 Ethyl Hexanol	Proposed	within plot	2 x 100 KL	160 KL	300.33	Local	Tanker
Iso Nonyl Alcohol	Proposed	within plot	100 KL	80 KL	153	Local	Tanker
Propionic Anhydride	Proposed	within plot	20 KL	16 KL	49	Local	Tanker
Acetonitrile	Proposed	within plot	20 KL	16 KL	444.4	Local	Tanker
Ethyl Acetate	Proposed	within plot	20 KL	16 KL	444.4	Local	Tanker
Ethyl Acetoacetate	Proposed	within plot	20 KL	16 KL	444.4	Local	Tanker
Acetic acid	Proposed	within plot	20 KL	16 KL	444.4	Local	Tanker

Butanol	Proposed	within plot	20 KL	16 KL	627.6	Local	Tanker
Toluene	Proposed	within plot	20 KL	16 KL	444.4	Local	Tanker

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:	as per MIDC norms
	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):	as per rule
	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	5 (f)- B
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	12-04-2018

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

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 SEIAA vide Unique ID No1212.. on 12th April, 2018 on SEIAA portal for grant of ToR as a case of violation and expansion.

The proposal was considered in the 151st meeting of SEAC held on 25.05.2018 where in the proposal was deferred for following reason.

"it was observed that PP was not having adequate information to present to the committee."

DECISION OF SEAC

After detailed deliberations with the PP and their accredited consultant it was observed that PP has not submitted the information and documents as required under para 13(4) of the Notification dated 14.03.2017 which reads as below;

"The cases of violation will be appraised by respective sector Expert Appraisal Committees constituted under subsection (3) of Section 3 of the Environment (Protection) Act, 1986 with a view to assess that the project has been constructed at a site which under prevailing laws is permissible and expansion has been done which can be run sustainably under compliance of environmental norms with adequate environmental safeguards; and in case, where the finding of the Expert Appraisal Committee is negative, closure of the project will be recommended along with other actions under the law."

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