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

SEAC Meeting number: 153rd A (Day-3) **Meeting Date** July 27, 2018

Subject: Environment Clearance for Proposed API Manufacturing unit of M/s Chinchem Laboratories Pvt. Ltd.

Is a Violation Case: No

General Information: Venue: Maharashtra Economic Development Council, Board Room, 3rd Floor, Y. B. Chavan Centre, Gen. Jagannathrao Bhosale Marg, Near Mantralaya, Mumbai- 400 020.

1.Name of Project	M/s Chinchem Laboratories Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Dr. Nikhil Dhoot
4.Name of Consultant	M/s Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	New Project (Green Field Project)
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	G-18, Lote-Parshuram Industrial Area MIDC
9.Taluka	Khed
10.Village	Dhamandevi
11.Area of the project	Lote Parshuram MIDC
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: Plan is not yet approved
	Approved Built-up Area: 6300
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Possession receipt from MIDC
15.Total Plot Area (sq. m.)	20000 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.): Not applicable
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	270000000

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)	8 meter
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	Isosorbide-5-Mononitrate	0	5.0	5.0
2	Diluted Isosorbide-5-Mononitrate	0	10.0	10.0
3	Diluted Isosorbide Dinitrate	0	15.0	15.0
4	Diluted Nitroglycerin	0	25.0	25.0
5	Isosorbide	0	5.0	5.0
6	Dimethyl Isosorbide	0	5.0	5.0
7	Carbimazole	0	2.5	2.5
8	Methimazole	0	2.5	2.5
9	Acetic Acid (By-product)	0	2.08	2.08

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	0	1.8	1.8	0	0.36	0.36	0	1.44	1.44
Industrial Process	0	51	51	0	0	0	0	63.04	63.04
Cooling tower & thermopack	0	241.31	241.31	0	207.64	207.64	0	33.67	33.67
Gardening	0	19.47	19.47	0	19.47	19.47	0	0	0

Fresh water requirement	0	313.58	313.58	0	227.47	227.47	0	98.15	98.15

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	NA
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	Underground Fire Hydrant Tank- 300 KL and Process water storage tank - 100 KL will be constructed
35.Storm water drainage	**Natural water drainage pattern:**	Storm water drainage will be provided
	Quantity of storm water:	66.6 KL/Hr
	Size of SWD:	--
Sewage and Waste water	**Sewage generation in KLD:**	1.44
	STP technology:	Sewage generated from domestic activity will be treated in Septic tank and overflow from septic tank will be connected to the Aeration tank of ETP.
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	220.5 MT construction waste will get generated during construction phase of the unit
	Disposal of the construction waste debris:	Construction waste will be disposed through local body.
Waste generation in the operation Phase:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	Dedicated area for HW storage will be provided as per plot layout
	Area for the storage of waste & other material:	--
	Area for machinery:	--
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	5
	O & M cost:	10

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	3.6	In between 6.5-8.5	In between 6.5-8.5
2	COD	mg/l	90000	<250	<250
3	BOD	mg/l	30000	<100	<100
4	TDS	mg/l	195000	<2100	<2100
5	TSS	mg/l	7000	<100	<100

Amount of effluent generation (CMD):	98.15 CMD
Capacity of the ETP:	HCOD/HTDS treatment: Pre Primary + Primary Treatment followed by Stripper MEE with ATFD of 77 CMD capacity And MEE condensate + LCOD/LTDS treatment : 95 CMD
Amount of treated effluent recycled :	67 CMD
Amount of water send to the CETP:	It will be ZLD project
Membership of CETP (if require):	NA Provisional membership will be taken
Note on ETP technology to be used	HCOD/HTDS effluent from process will be treated by giving pre primary + Primary treatment followed by Stripper MEE with ATFD. while the LCOD/ LTDS effluent will be treated in conventional ETP. The condensate from MEE and sewage effluent will be connected to the aeration system of conventional ETP and it will be treated along with LCOD effluent. After tertiary treatment it will get passed through two stage RO system and the reject from RO will be connected to evaporator of MEE
Disposal of the ETP sludge	ETP sludge will be disposed through CHWTSDF, Taloja

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Distillation Residue	20.3	T/M	0	22.20	22.20	CHWTSDF, Taloja
2	Spent Carbon	28.3	T/M	0	1.99	1.99	CHWTSDF, Taloja
3	Chemical Sludge from Wastewater treatment	35.3	T/M	0	3.0	3.0	CHWTSDF, Taloja
4	Process Residue	28.1	T/M	0	1.95	1.95	CHWTSDF, Taloja
5	MEE Residue	37.3	T/D	0	13	13	CHWTSDF, Taloja

6	Discarded containers barrels/liners/ plastic bags/ PPE etc	33.1	Nos/M	0	1000	1000	CHWTSDF, Taloja / MPCB authorized recycler
7	Recovered Mix Solvents from Process effluent stream using Stripper MEE	28.2	T/M	0	21	21	CHWTSDF, Taloja
8	Spent Oil	5.1	Lit/M	0	200	200	MPCB authorized recycler

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	0.5 TPH boiler X 2 Nos.	LDO : 0.235 KLD	1	30	0.6	110
2	2.0 TPH boiler	LDO : 2.122 KLD	2	30	0.6	110
3	Thermopack of 250000 Kcal/ hr X 2 Nos	LDO : 0.7 KLD	3	30	0.6	110
4	Scrubber -1	--	4	11	0.4	32
5	Scrubber -2	--	5	11	0.4	32
6	Scrubber -3	--	6	11	0.4	32
7	Scrubber -4	--	7	11	0.4	32
8	Scrubber -5	--	8	11	0.4	32
9	D.G. set 400 KVA	HSD: 89.5 L/Hr	9	4 meter above roof	0.12	50

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	LDO	0	3.06 KL/D	3.06 KL/D
2	HSD	0	89.5 L/Hr	89.5 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 :	3894 sq.m.
No of trees to be cut :	NA
Number of trees to be planted :	566
List of proposed native trees :	Aegle marmelos, Terminalia bellerica, Mangifera indica, Derris indica, Terminalia arjuna,Neolamarckia cadamba, Bombax ceiba, Azadirachta indica, Terminalia paniculata, Terminalia elliptica, Schleichera oleosa, Plumeria rubra, Ixora coccinea, Heterophragma quadriloculare, Oroxylum indicum, Nerium oleander, Catunaregum spinosa, Butea monosperma, Cassia fistula, Tabernaemontana alternifolia, Bougainvillea spectabiis,
Timeline for completion of plantation :	1 year after grant of Environmental Clearance

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ixora coccinea	Rukmini/Bakavali	20	A native shrub blooming throughout the year usually visited by nectar feeding birds & butterflies.
2	Heterophragma quadriloculare	Waras	25	A native deciduous tree visited by nectar feeding birds. Large leaf area helps in settling of dust.
3	Oroxylum indicum	Tetu	25	A native ornamental tree.
4	Nerium oleander	Kaner	35	A native hardy species, drought resistant with fragrant flowers.
5	Catunaregum spinosa	Gela	30	Mountain Pomegranate is an armed shrub or small native evergreen tree
6	Butea monosperma	Palash	30	A native brilliantly flowering tree fed by local birds fairly common
7	Cassia fistula	Bahava	20	Native ornamental tree having flowers attracting bees and butterflies
8	Tabernaemontana alternifolia	Naag kuda	20	A small evergreen native tree
9	Bougainvillea spectabiis	Booganvel	8	An ornamental tree blooming throughout the year
10	Plumeria rubra	Chafa	20	An evergreen brilliantly flowering shrub
11	Schleichera oleosa	Kusum	33	A native tree found in abundance in Sahyadris.
12	Terminalia elliptica	Ain	30	A native evergreen broad leaved tree common in the Sahyadris.
13	Terminalia paniculata	Kindal	25	Kindal is a tropical tree with a large natural distribution in Western Ghats
14	Azadirachta indica	Neem	85	A native evergreen tree known for plantation in polluted area.
15	Bombax ceiba	Sawar	10	A native tree with large showy flowers visited by birds.
16	Neolamarckia cadamba	Kadamba	10	A native evergreen tree with thick canopy.
17	Terminalia arjuna	Arjun	20	A native evergreen tree with large canopy
18	Derris indica	Karanja	30	A native tree blooming throughout the year
19	Mangifera indica	Amba	40	A native evergreen tree with large canopy & large leaf area which helps in dust settling
20	Terminalia bellerica	Baheda	30	A native medicinally important tree
21	Aegle marmelos	Bael	20	A native evergreen tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	300 KW
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	400 KW
	During Operation phase (Demand load):	400 KW
	Transformer:	625 KVA
	DG set as Power back-up during operation phase:	400 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Process Emissions	NA	Total 5 Acid/Alkali Scrubbers will be provided with stack height of 11 m height
Boiler and Thermopack	NA	3 number of Stacks of 30 meter height will be provided
D.G. set	NA	Stack of 4 meter height above roof will be provided

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Dust supression	2
2	Water Environment	Arrangement of sanitary facility like mobile toilets etc	5

3	Solid Hazardous waste	Handling, transportation and disposal of Construction waste through local body	5
4	Noise Environment	PUC certified vehicles etc, PPE	1

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Environment	Construction of 3 stacks and installation of 5 nos of process scrubbers with stack height of 11m height	117.7	15.2
2	Water Environment	Purchase of Stripper MEE with ATFD, construction of ETP and installation of RO system	360	21.8
3	Noise Environment	Noise Pollution Control, Installation of anti-vibration pads, & Enclosures.	2	0.5
4	Environment Monitoring & Management	Monitoring	0	3.5
5	Occupational Health	Glares, Breathing Masks,Gloves, Boots, Helmets, Ear Plugs etc. & annual health-medical checkup of workers, Occupational Health (training, OHC center)	5	2
6	Green Belt	Development and maintenance of green belt	10.3	2.16
7	Solid waste Management	Solid Waste Management	5	10

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
40% Methyl methacrylate	Liquid	Drum	19.5	19.5	58.4	Local	By Road
70% HNO3	Liquid	Tank	5	5	13.96	Local	By Road
70% Sorbitol	Liquid	Tank	25	25	72.5	Local	By Road
98% HNO3	Liquid	Tank	3.5	3.5	9.74	Local	By Road
Acetic Anhydride	Liquid	Drum	10.5	10.5	30.94	Local	By Raod

Acetone	Liquid	Carboy	15.5	15.5	46.08	Local	By Road
Ammonium Thiocynate	Solid	Bags	2.5	2.5	6.4	Local	By Road
Bromine	Liquid	Bottles	11.3	11.3	67.7	Local	By Road
Charcoal	Solid	Bags	0.98	0.98	0.98	Local	By Road
Dimethyl Sulphate	Liquid	Drum	5	5	15	Local	By Road
Ethyl chloroformate	Liquid	Drum	1	1	2.9	Local	By Road
Glycerin	Liquid	Carboy	0.4	0.4	1.13	Local	By Road
Isosorbide-2-Acet	Liquid	Drum	6	6	16.77	Local	By Road
KOH	Solid	Bags	15	15	45	Local	By Road
Lactose	Solid	Bags	14.5	14.5	43.75	Local	By Road
Methanol	Liquid	Tank	20	20	132.7	Local	By Road
Methylene Chloride	Liquid	Drum	2.5	2.5	7.35	Local	By Road
p-Toulene Sulphonic Acid	Solid	Bags	0.58	0.58	0.58	Local	By Road
Pyridine	Liquid	Drum	0.5	0.5	2.15	Local	By Road
Soda Ash	Solid	Bags	4	4	11.6	Local	By Road
Sodium acetate anhydrous	Solid	Bags	0.5	0.5	1.4	Local	By Road
Sodium Hydroxide	Solid	Bags	2	2	6.3	Local	By Road
Sodium Methoxide	Solid	Bags	0.46	0.46	0.46	Local	By Road
Sulphuric Acid	Liquid	Tank	10	10	28.2	Local	By Road
Toluene	Liquid	Tank	20	20	160	Local	By Road
Vinyl Acetate Monomer	Liquid	Drum	12	12	36	Local	By 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:	2400
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	--
	Public Transport:	--
	Width of all Internal roads (m):	--

	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	5(f) Cat : B1
	Court cases pending if any	NA
	Other Relevant Informations	--
	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.

ToR was granted in the 138th meeting of SEAC held on 01.06.2017 as per standard ToR and additional ToR points as mentioned below,

1. PP to submit their plan to achieve 33% of green belt as per National Forest Policy.

2. PP to submit copies of On Site and Off Site Emergency Preparedness Plan duly accepted by competent authority.

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 include detailed water balance chart in EIA report along with quantities of waste water generation and its disposal.

5. PP to submit an affidavit for achieving Zero Liquid Discharge and not discharging any additional load on CETP or in any other source outside the limits of factory premises.

6. Committee observed that most of the raw material goes into the effluent stream which results in the wastage of resource and sue of additional energy to treat it; PP advised to look into the process of all the products and try to use maximum raw materials to convert into the product so that energy and resources can be saved; PP to include their report in the EIA.

Now PP submitted EIA/EMP report.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit point wise compliance of additonal ToR points.
2) It was observed that approximate 10% of mononitrate used as a raw material goes in to the eflfeunt; PP to submit mechanism to prevent it to mix with effluent so as to achieve optimum prodcut and less load on the ETP.
3) PP to include Piping and Instrumentation diagrams in the HAZOP reprot.
4) PP to submit copy of CHWTSDF membership.
5) PP to submit product wise solvent consumption, product wise solvent recovery and quantity of excess solvent along with its disposal method.
6) PP to prepare CER plan in consultation with the District Authority.

FINAL RECOMMENDATION

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

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

SEAC Meeting number: 153rd A (Day-3) **Meeting Date** July 27, 2018

Subject: Environment Clearance for Proposed capacity enhancement project of M/s D.R.Coats Ink & Resins Pvt. Ltd. located at plot no : J-51, Tarapur MIDC, Tal & Dist : Palghar

Is a Violation Case: No

1.Name of Project	D.R. Coats Ink & Resins Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Yashashvi Drolia
4.Name of Consultant	Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion by discontinuing existing formulation products and manufacturing of new products
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environmental Clearance is not required for existing formulation activity of industry
8.Location of the project	Plot No : J-51, Tarapur MIDC
9.Taluka	Palghar
10.Village	-
Correspondence Name:	Unit no. 230 & 231, New Sonal link industrial estate, Bld. No. 2, second floor, Link road, Malad (W), Mumbai-64
Room Number:	Unit no. 230 & 231
Floor:	Second Floor
Building Name:	New Sonal link industrial estate
Road/Street Name:	Link Road
Locality:	Malad (W)
City:	Mumbai-64
11.Area of the project	Tarapur MIDC
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 853.95
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.)	2155 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.): 853.95
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	9800000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	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 meters
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	Non Reactive Polyamide Resin (Blending Activity)	100	Will be discontinued	Will be discontinued
2	Reactive Polyamide Resin (Blending Activity)	280	Will be discontinued	Will be discontinued
3	Polyamides Resins	0	1000	1000
4	Ketonic Resin	0	10	10
5	Phenolic Resin	0	100	100
6	Acrylic Resin	0	200	200
7	Polyster Resin	0	300	300
8	Amino Resin	0	200	200
9	Polyurethane	0	200	200
10	Rosin Esters	0	100	100
11	Alkyd Resin	0	200	200
12	Resin Blending	0	100	100

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	0.9	0.675	1.575	0.18	0.135	0.315	0.72	0.54	1.26
Industrial Process	0.5	0.5	1	0	0	0	0.5	3.18	3.68
Cooling tower & thermopack	2.99	22.6	25.59	2.53	19.09	21.62	0.46	3.51	3.97
Gardening	0	3.55	3.55	0	3.55	3.55	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	NA
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	Storm water drainage of adequate capacity will be provided
	Quantity of storm water:	36.8 M3 /Hr
	Size of SWD:	The SWD will be designed as per the quantity of storm water to be received during the rainy season
Sewage and Waste water	**Sewage generation in KLD:**	1.26 CMD
	STP technology:	Sewage waste water will be treated in aeration tank of the effluent treatment plant
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	No construction activities are involved hence such waste generation is not envisaged
	Disposal of the construction waste debris:	No construction activities are involved hence generation and disposal of such wastes is not envisaged
Waste generation in the operation Phase:	**Dry waste:**	Office waste such as papers and other domestic waste
	Wet waste:	NA
	Hazardous waste:	Chemical sludge from wastewater treatment : 7.2 MT/A, Used /Spent Oil: 50 Kg/A, Discarded containers barrels/liners/ plastic bags/ PPE etc : 2000 Nos/M, Evaporation residue : 1 MT/M
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	E-Waste from office ,as per Schedule 1 of E-waste management rule,2016 : 10 Kg/M, Packing boards : 50 Kg/M

Mode of Disposal of waste:	**Dry waste:**	Through local muinicipal waste disposal system
	Wet waste:	NA
	Hazardous waste:	ETP Sludge & Evaporator Residue to Mumbai Waste Management Ltd. - CHWTSDF at Taloja and Used /Spent Oil:, Discarded containers barrels/liners/ plastic bags/ PPE etc will be sold to authorized recycler
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	Sale to MPCB approved scrap dealers
Area requirement:	**Location(s):**	Dedicated hazardous waste storage area will be provided as per the project plot layout
	Area for the storage of waste & other material:	10 sq.m.0
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1 Lakh
	O & M cost:	1.80 Lakh

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	4.5	6.5-7.5	6.5-7.5
2	COD	mg/l	15000 mg/l	< 250 mg/l	< 250 mg/l
3	BOD	mg/l	6043 mg/l	< 100 mg/l	< 100 mg/l
4	TDS	mg/l	1000 mg/l	< 2100 mg/l	< 2100 mg/l
5	TSS	mg/l	200 mg/l	< 100 mg/l	< 100 mg/l

Amount of effluent generation (CMD):	8.91 CMD
Capacity of the ETP:	10 CMD
Amount of treated effluent recycled :	It will be ZLD unit
Amount of water send to the CETP:	It will be ZLD unit
Membership of CETP (if require):	Company have obtained membership of Tarapur Environment Protection Society
Note on ETP technology to be used	It will be ZLD unit. Company will treat their effluent by giving primary, secondary, tertiary treatment followed by single effect evaporator. The sewage load from domestic activity will be connected to the aeration tank of the ETP.
Disposal of the ETP sludge	Through CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Chemical sludge from wastewater treatment	34.3	MT/A	2	5.2	7.2	Through CHWTSDF
2	Used/ spent oil	5.1	Kg/A	0	50	50	Through MPCB authorized recycler
3	Discarded containers barrels/liners/ plastic bags/ PPE etc	33.1	Nos/M	0	2000	2000	Through MPCB authorized recycler
4	Evaporation Residue	37.3	MT/M	0	1	1	Through CHWTSDF

5	E-Waste from office	as per Schedule 1 of E-waste management rule,2016	Kg/m	0	10	10	Through Authorized recycler

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Common Stack Attached to Thermopack	FO	01	30	0.4	150 Deg C
2	Stack Attached to DG set	HSD	02	3 m above roof	0.1	190 Deg C
3	Stack Attached to Scrubber	-	0.3	11	0.1	35 Deg C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Furnace Oil	0.5 KLD	1.0 KLD	1.5 KLD
2	HSD	10 L/Hr	20 L/Hr	30 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 :**	711.15 Sq.m.
	No of trees to be cut :	NA
	Number of trees to be planted :	101
	List of proposed native trees :	Neolamarckia cadamba, Callicarpa tomentosa, Trema orientalis, Dalbergia sissoo, Azadirachta indica, Erythrina suberosa, Cassia fistula, Bombax ceiba, Asltonia shcolaris, Macaranga peltata, Schleichera oleosa, Microcos paniculata, Terminalia elliptica, Terminalia paniculata, Terminalia bellirica, Cordia dichotoma, Helicteres isora, Holoptelea integrifolia, Butea monosperma, Oroxylum indiccum,
	Timeline for completion of plantation :	6 month after grant of Environmental Clearance

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Bahava	5	Native ornamental tree having flowers attracting bees and butterflies
2	Bombax ceiba	Sawar	5	A native deciduous tree with fragrant flowers attracting large number of birds & insects
3	Asltonia shcolaris	Saptaparni	5	A native evergreen tree with fragrant flowers & leaves having comparatively higher dust settling index

4	Macaranga peltata	Chandwar	5	A native tree found in abundance across the plains of Sahyadri ranges
5	Schleichera oleosa	Kususm	5	A native deciduous trees of forest tracts of Sahyadri ranges
6	Microcos paniculata	Shirali	5	A native evergreen medium sized tree of forest tracts of Sahyadri ranges
7	Terminalia elliptica	Ain	5	A native evergreen tree of forest tracts of Sahyadri ranges
8	Terminalia paniculata	Kindal	5	A native deciduous tree of forest tracts of Sahyadri ranges
9	Terminalia bellirica	Baheda	5	A native deciduous tree of forest tracts of Sahyadri ranges
10	Cordia dichotoma	Shelu	5	A native deciduous tree of forest tracts of Sahyadri ranges attracting large number of insects
11	Helicteres isora	Murudsheng	5	A native deciduous medium sized tree of forest tracts of Sahyadri ranges visited by large number of birds
12	Holoptelea integrifolia	Ainasadada	5	A native deciduous tree of forest tracts of Sahyadri ranges
13	Butea monosperma	Palash	5	A native brilliantly flowering tree abundant the Palghar District visited by large number of birds
14	Oroxylum indiccum	Tetu	5	A native ornamental Tree
15	Erythrina suberosa	Pangara	5	A native deciduous medium sized tree of forest tracts of Sahyadri ranges visited by large number of birds
16	Azadirachta indica	Kadulimb	5	A native evergreen tree capable of surviving in comparatively polluted environs
17	Dalbergia sissoo	Shisham	5	A native evergreen tree attracting large number of insects
18	Trema orientalis	Ghol	5	A native deciduous medium sized tree with hairy leaves having comparatively higher dust settling index
19	Callicarpa tomentosa	Aiser	5	A native evergreen medium sized tree of forest tracts of Sahyadri ranges with hairy thick leaves having comparatively higher dust settling index
20	Neolamarckia cadamba	Kadamba	6	A native evergreen tree with tremendous blooms attracting large number of insects
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)	107 KW
	DG set as Power back-up during construction phase	150 KVA
	During Operation phase (Connected load):	107 KW
	During Operation phase (Demand load):	89 KVA
	Transformer:	107 KW
	DG set as Power back-up during operation phase:	200 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Process Emissions	NA (Since it is only blending process)	1 nos scrubber of 500 CFM capacity will be installed
Thermopacks	Stack of 13 meters of height is provided	Common stack of 30 meters height will be provided
D.G. Set	3 meter above roof	3 meter above roof

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Emission	Dust Suppression	0.5
2	Water Envitonment	Existing sanitation facilities will be utilized	0
3	Solid Hazardous waste	Handling, transportation and disposal of non hazardous solid waste	0.5

4	Noise Environment	PUC certified vehicles etc, PPE	0.4

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Environment	Construction of common stack of 30 meters and Installation of new scrubber	13	2
2	Noise Environment	Noise Pollution Control, Installation of anti-vibration pads, & Enclosures.	1	0.2
3	Water Environment	Up gradation of existing ETP upto 10 CMD capacity + Installation of Single effect evaporator	45	2
4	Environment Monitoring & Management	Quarterly Environment Monitoring	0	3.5
5	Occupational Health	Glares, Breathing Masks,Gloves, Boots, Helmets, Ear Plugs etc. & annual health-medical checkup of workers,	0.6	0.1
6	Green Belt	Installation of water drip , Green Belt Maintenance	1.1	0.932
7	Solid Waste Management	Solid Waste Management	1.0	1.8

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Benzoic Acid	Solid	Bags	2	2	13	Local	By Road
Benzyl Alcohol	Liquid	Drums	1	1	15	Local	By Road
Bisphenol-A	Solid	Bags	1	1	5	Local	By Road
Butanol	Liquid	Drums	2	2	56.5	Local	By Road
Octanol	Liquid	Drums	2	2	56.5	Local	By Road
C12-C14 / Ortho Cresol	Liquid	Drums	1	1	10	Local	By Road
Catalyst (TPP / TMP)	Liquid	Carboy	0.3	0.3	3	Local	By Road
Chain extender & cross linkers (Polypropylene Glycol)	Liquid	Drums	2	2	10	Local	By Road
Chain extender & cross linkers (1:4 Butanediol)	Liquid	Drums	2	2	10	Local	By Road

Chain extender & cross linkers (Neopentyl glycol)	Liquid	Drums	2	2	10	Local	By Road
Cyclohexanone	Liquid	Drums	1	1	5	Local	By Road
Dimer Acid	Liquid	Tank	50	50	599	Local	By Road
Epoxy Resin	Liquid	Drums	2	2	38	Local	By Road
Vegetable Oil	Liquid	Tank	20	20	39	Local	By Road
Formaldehyde 37%	Liquid	Drum	20	20	53	Local	By Road
Paraformaldehyde	Solid	Bags	3	3	12	Local	By Road
Glycerine / Penta or any Polyol	Liquid	Drum	4	4	38	Local	By Road
Initiators	Liquid	Carboy	0.03	0.03	1	Local	By Road
Maleic Anhydride	Solid	Bags	4.83	4.83	67	Local	By Road
Methylene diphenyl diisocyanate	Liquid	Drum	0.33	0.33	4	Local	By Road
Toluene diisocyanate	Liquid	Drum	0.33	0.33	4	Local	By Road
Isophorone diisocyanate	Liquid	Drum	0.33	0.33	4	Local	By Road
Mono Ethylene Glycol	Liquid	Drum	4	4	24	Local	By Road
Diethylene glycol	Liquid	Drum	4	4	24	Local	By Road
Phthalic Anhydride	Solid	Bags	12.33	12.33	106	Local	By Road
Terephthelic Acid	Solid	Bags	4	4	24	Local	By Road
Adipic Acid	Solid	Bags	4	4	24	Local	By Road
Melamine	Solid	Bags	2.5	2.5	22	Local	By Road
Urea	Solid	Bags	2.5	2.5	22	Local	By Road
Monoethylene Glycol	Liquid	Drum	1.66	1.66	20	Local	By Road
Diethylene Glycol	Liquid	Drum	1.66	1.66	20	Local	By Road
Polyethylene Glycol	Liquid	Drum	1.66	1.66	20	Local	By Road
Acrylates	Liquid	Drum	1.42	1.42	17.14	Local	By Road
Methyl Methacrylate	Liquid	Drum	1.42	1.42	17.14	Local	By Road
Butyl Acrylate Monomer	Liquid	Drum	1.42	1.42	17.14	Local	By Road
N-butyl Methacrylate	Liquid	Drum	1.42	1.42	17.14	Local	By Road
2-Hydroxyethyl Methacrylate	Liquid	Drum	1.42	1.42	17.14	Local	By Road
Ethyl Acrylate	Liquid	Drum	1.42	1.42	17.14	Local	By Road
Methacrylates	Liquid	Drum	1.42	1.42	17.14	Local	By Road
Oxalic Acid	Solid	Bags	0.1	0.1	0.33	Local	By Road
Pentaerythritol	Solid	Bags	1	1	3	Local	By Road
Phenol	Liquid	Tank	15	15	69	Local	By Road
Isophthalic Acid	Solid	Bags	3.33	3.33	51	Local	By Road
Ethylenediamine	Liquid	Drum	8	8	95.5	Local	By Road
Diethylenetriamine	Liquid	Drum	8	8	95.5	Local	By Road
Tetraethylenepentamine	Liquid	Drum	8	8	95.5	Local	By Road
Triethylenetetramine	Liquid	Drum	8	8	95.5	Local	By Road
Rosin	Liquid	Drum	15	15	95	Local	By Road
Xylene	Liquid	Drum	2.5	2.5	45	Local	By Road
Cellosolve Acetate	Liquid	Drum	2.5	2.5	42	Local	By Road
Butyl Acetate	Liquid	Drum	2.5	2.5	42	Local	By Road
Styrene	Liquid	Drum	2.5	2.5	42	Local	By Road
Thinner (Ethyl Acetate)	Liquid	Drum	2	2	35	Local	By Road
Mineral Terpentine Oil	Liquid	Drum	2.5	2.5	78	Local	By Road

Fatty Acid	Liquid	Tank	35	35	134	Local	By Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	258.6 sq.m. (The parking area will be provided at plot no J-50 , occupied by same company for storage of raw materials)
	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 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	5(f) Category : B-1
	Court cases pending if any	NA
	Other Relevant Informations	1) Storage of entire raw material , other than tank storage, will be done at plot no J-50, Tarapur MIDC owned by D.R. Coats Ink & Resins Pvt. Ltd. 2) Parking will be provided at plot no J-50, which is present towards west site of proposed expansion site, behind MIDC road. The distance between two plots boundaries are 27 meters.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
5. Type of the Project	Not Applicable	5 (f) B-1 Category
18(a) Total BUA area sq.m	853.95 sq.m	890.90 sq.m
31. Production Details	Product quantities (Numeric)	Product quantities to be changed (Numeric)
44. Green Belt Development (Total RG area)	711.15 sq.m	788.31 sq.m
52. Storage of Chemicals	Raw Material quantities (Numeric)	Raw Materials quantities to be changed (Numeric)
54. Total Parking Area	258.6 sq.m	69.10 sq.m
54. Other Relevant Information	1) Storage of entire raw material , other than tank storage, will be done at plot no J-50, Tarapur MIDC owned by D.R. Coats Ink & Resins Pvt. Ltd. 2) Parking will be provided at plot no J-50, which is present towards west site of proposed expansion site, behind MIDC road. The distance between two plots boundaries are 27 meters.	Storage of entire raw materials will be done at plot no. J-51

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 for effluent treatment.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement which will be supplied by MIDC.
Waste Water Treatment	PP proposes ZeroLIquid Discharge for effluent treatment.
Drainage pattern of the project	PP provided storm water drains as per contour of the plot.
Ground water parameters	As per data submitted by PP, ground water parameters are within the prescribed limits at project site.
Solid Waste Management	Hazardous waste will be dispsoed off at CHWTSDF site or sale to authorized vendors.
Air Quality & Noise Level issues	As per data submitted by PP, Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for proposed project is 89 KVA, which will be supplied by MSEDCL. PP also proposes to have 200 KVA DG set with HSD as a fuel.
Traffic circulation system and risk assessment	PP provided six meter wide road with nine meter turning radius for easy mvement of vehicles.
Landscape Plan	PP prepared layout plan and provided 33% green belt.
Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment study and prepared a disaster management plan.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes capital EMP cost of Rs. 62.70 Lakh and Rs. 10.53 Lakh as O & M cost for environmental parameters.

Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

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

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.

ToR was granted to the PP in 149th meeting of SEAC held on 4th April, 2018 as per standard ToR and additional ToR points as mentioned below,

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

2. PP to submit lay out plan showing entry/exit gates, internal roads with minimum width of six meters and turning radius of nine meters, location of pollution control equipment, parking areas, 33% green belt within the premises, solid and hazardous waste storage areas, rain water harvesting 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 Risk Assessment study and submit a Disaster Management Plan.

6. PP to submit details of the waste material management plan in the EIA report.

7. PP to submit details of the maximum storage of raw material storage against the production quantity and make changes in the product manufacturing quantity if storage is found inadequate in the site.

8. PP to submit process engineering design details like reactors and other process equipment design along with proposed process controls to ensure quality of the products.

9. PP to submit design details of the ETP to achieve Zero Liquid Discharge.

10. PP to submit CSR plan prepared in consultation with the District Authorities along with its implementation schedule.

11. PP to submit an undertaking for not having any eco sensitive area within the range of 10 KM from the proposed project site.

Now PP submitted the EIA/EMP reprot.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to prepare and implement CER plan in consultation with the District Authorities as per OM issued by MoEF&CC dated 01.05.2018.
2) PP to upload chemical compatibility chart.

FINAL RECOMMENDATION

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

Subject: Environment Clearance for Expansion of Existing steel processing plant at village Donvat, Taluka Khalapur, Dist. Raigad.

Is a Violation Case: No

1.Name of Project	Uttam Galva Steels Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Shankar Ramakrishna
4.Name of Consultant	Mahabal Enviro Engineers Ltd.
5.Type of project	Industrial project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion of existing steel processing plant
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environment Clearance is obtained vide ref No. ENV(NOC)2004/720/CR 110/D.I dated 15.03.2005
8.Location of the project	Village Donvat, Khopali-Pen Road, Taluka Khalapur, District Raigad - 410 202
9.Taluka	Khalapur
10.Village	Donvat
Correspondence Name:	Mr. Shankar Ramakrishna
Room Number:	69
Floor:	4 floor
Building Name:	Uttam House
Road/Street Name:	P.D. Mello Road
Locality:	Carnac bunder, Masjid bandar, Mumbai,
City:	Mumbai
11.Area of the project	Other
12.IOD/IOA/Concession/Plan Approval Number	-
	IOD/IOA/Concession/Plan Approval Number: 16.2.2013
	Approved Built-up Area: 100
13.Note on the initiated work (If applicable)	Production started in plant
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	16.2.2013
15.Total Plot Area (sq. m.)	190 acres
16.Deductions	Not applicable
17.Net Plot area	190 acres
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 100
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 100
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 100 acres
	Approved Non FSI area (sq. m.):
	Date of Approval: 16-02-2013
19.Total ground coverage (m2)	95 acres
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	50%
21.Estimated cost of the project	9500000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
2	Not applicable	Not applicable	Not applicable
3	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)	12 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	Sheds
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	CR Coil	1000000	800000	1800000
2	Galvanised Coil/Sheets	500000	600000	1100000
3	Galvalume Coils/Sheets	0	175000	175000
4	Color Coated Sheet	150000	150000	300000
5	Precision Tubes	0	75000	75000
6	Electro discharge texturing (EDT) / Electro chrome deposition (ECD) of work rolls	50	0	50
7	Zinc Dross	500	650	1150
8	Iron Oxide	210	191	401

32.Total Water Requirement

Dry season:	**Source of water**	Donvat Dam
	Fresh water (CMD):	1802
	Recycled water - Flushing (CMD):	1200
	Recycled water - Gardening (CMD):	448
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	4200
	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**	Donvat Dam
	Fresh water (CMD):	1802
	Recycled water - Flushing (CMD):	1200
	Recycled water - Gardening (CMD):	448
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	4200
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Industrial Process	631	1038	1669	-	-	-	64.27	796	860
Cooling tower & thermopack	617	492	1109	-	-	-	-	-	-
Domestic	77	56	133	-	-	-	43.76	406	450
Gardening	218	230	448	-	-	-	-	-	-

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	12 m
	Size and no of RWH tank(s) and Quantity:	100 m3
	Location of the RWH tank(s):	Gate No. 3, Narrow width complex area
	Quantity of recharge pits:	8 Nos.
	Size of recharge pits :	3 m x 3 m
	Budgetary allocation (Capital cost) :	Rs.95 Lakh
	Budgetary allocation (O & M cost) :	Rs.10 Lakh/year
	Details of UGT tanks if any :	100
35.Storm water drainage	**Natural water drainage pattern:**	Open drainage all around the plant
	Quantity of storm water:	10 cubic meter per second
	Size of SWD:	3 m x 3 m x 2 m
Sewage and Waste water	**Sewage generation in KLD:**	450 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	2 Nos. 200 m3/day & 300 m3/day
	Location & area of the STP:	insite the project
	Budgetary allocation (Capital cost):	Rs.1800 Lakh
	Budgetary allocation (O & M cost):	Rs.180 Lakh/year

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:**	Metal scrap - 787 Mt/month
	Wet waste:	Garbage - 63 Mt/month
	Hazardous waste:	1. Used Oil/ spent oil - 40 MT/Month, 2. Zinc Dross - 933 MT/Month, Acid residues - 640 MT/Month, Spent bath/acid - 12,000 kL/Month, ETP Sludge - 234 MT/Month, Sludge from ARP - 630 MT/Month, Waste & residue of paint - 69 MT/Month, Discarded Container - 9 Nos/day
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	4 m3/day
	Others if any:	No

Mode of Disposal of waste:	**Dry waste:**	Sale
	Wet waste:	Used as a manure
	Hazardous waste:	Sale to SPCB/CPCB reprocessor/ recycler & CHWTSDF, Taloja
	Biomedical waste (If applicable):	No
	STP Sludge (Dry sludge):	Used as a manure
	Others if any:	No
Area requirement:	**Location(s):**	Not applicable
	Area for the storage of waste & other material:	4,000 m2
	Area for machinery:	No
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.250 Lakh
	O & M cost:	Rs.25 Lakh/year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	5 to 10	5.5 to 9	Recycled/reused for industrial use
2	SS	mg/l	1200	less than 100	Recycled/reused for industrial use
3	BOD	mg/l	20-25	Less than 100	Recycled/reused for industrial use
4	COD	mg/l	200	Less than 250	Recycled/reused for industrial use
5	Oil & Grease	mg/l	Less than 5	Less than 5	Recycled/reused for industrial use
6	TDS	mg/l	3000	Less than 2100	Recycled/reused for industrial use
7	Chloride	mg/l	10	Less than 600	Recycled/reused for industrial use
8	Sulphate	mg/l	200	Less than 200	Recycled/reused for industrial use
9	Zinc	mg/l	Less than 1	55 to 9	Recycled/reused for industrial use

Amount of effluent generation (CMD):	860 m3/day
Capacity of the ETP:	1,300 m3/day
Amount of treated effluent recycled :	1,000 m3/day
Amount of water send to the CETP:	We have full fledged treatment facility available within industry
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	Physical + Chemical + RO + Multiple evaporator
Disposal of the ETP sludge	sent to CHWTSDF, Taloja

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used Oil/ spent oil	5.1 & 5.2	mt/month	5.2	34.8	40	-

2	Zinc Dross	6.2 & 6.3	mt/month	200	733	933	-
3	Acid residues	12.1	mt/month	130	510	640	-
4	Spent bath/acid	12.3	kl/month	2500	9500	12000	-
5	ETP Sludge	12.8	mt/month	50	184	234	-
6	Sludge from ARP	13.1	mt/month	120	510	630	-
7	Waste & residue of paint	21.1	mt/month	15	54	69	-
8	Discarded container	33.3	no/day	2	7	9	-

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	Color coating line 1 no.	NG	2	32	400	-
2	Galvalume line 2 no.	NG	2	35	350	-
3	ARP	NG	3	35	500	-
4	Annealing	-	1	32	400	-
5	CGL Furance	-	1	35	360	-
6	DG Sets	-	2	5	300	-
7	Galvanizing	-	1	35	360	-
8	Pickling	-	3	35	360	-
9	ECL	-	2	35	360	-
10	SGL	-	2	30	500	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Furnace Oil	300 kl/month	180 kl/month	480 kl/month
2	LPG	1650 mt/month	950 mt/month	2600 mt/month
3	LDO	2600 kl/month	1450 kl/month	4050 kl/month
4	Natural Gas	2700 scm/hr	2300 scm/hr	5000 scm/hr
41.Source of Fuel		NG , LPG, FO, LDO		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	64 acres
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	50000
	List of proposed native trees :	mango, Ashoka, Coconut, Peltroforum, Spaphodia, Gulmohar, Lergrastomia, Estonia
	Timeline for completion of plantation :	3 years

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

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

1	-	-	-	-
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 , Captive power plant of UGSL
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	38 MW
	During Operation phase (Demand load):	26 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	700 kVA, 500 kVA, 160 kVA, 750 kVA, 500 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Installation of VFDs at Various points like Boiler, Thermo-pack, Compressor, processing & water pump house.
LED lights for common areas
Flash steam, Condensate & Hot water recovery
% of energy saving: 5%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar	10 MW

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Fume Extraction / Scrubber	Fume Extraction Scrubber
Water	ETP / STP / RO / MEE	ETP / STP / RO / MEE
Noise	Acoustic Enclosure	Acoustic Enclosure
Solid Waste	CPCB/MPCB approved repressor	CPCB/MPCB approved repressor

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.1600 Crore
	O & M cost:	Rs.1.2 Crore

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air pollution control	-	1500	150
2	Water pollution control	-	1800	180
3	Noise pollution control	-	1500	150
4	Environment Monitoring and Management	-	200	20
5	Rain Water harvesting	-	95	10
6	Occupational Health	-	90	9
7	Green Belt	-	240	24
8	Solid Waste Management	-	250	25

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
Ammonia	-	2	40 mt	40 mt	5	RCF	By Road
Furance oil	-	1	500 kL	500 kL	Only when CNG is not available	Indian Oil	By Road
LDO	-	1	75 Kl	75 Kl	Only when CNG is not available	Indian Oil	By Road
LPG	-	1	288 mt	288 mt	Only when CNG is not available	Indian Oil	By Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Khopoli Pali Road

Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	22 acres
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	60
	Number of 4-Wheelers as approved by competent authority:	40
	Public Transport:	Bus, Auto, Train
	Width of all Internal roads (m):	12 mt
	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	3 (a) B1 Category
	Court cases pending if any	Not Applicable
	Other Relevant Informations	-
	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

DECISION OF SEAC

During deliberation it was observed that PP has obtianed ToR in 104th meeting of SEAC-1 held on 19th and 20th June, 2015.ToR is time barred as per OM issued by MoEF&CC dated 29.08.2017

Hence, SEAC decided to defer the proposal untill PP submits revalidation of ToR from the competent Authority and Public Hearing report along with implementation plan of the issues rasied during Public Hearing..

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

Subject: Environment Clearance for Expansion of Existing steel processing plant at village Dahivali, Taluka Khalapur, Dist. Raigad.

Is a Violation Case: No

1.Name of Project	Uttam Galva Steels Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Shankar Ramakrishna
4.Name of Consultant	Mahabal Enviro Engineers Ltd.
5.Type of project	Industrial project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion of existing steel processing plant
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	-
8.Location of the project	Village Dahivali, Khopali-Pen Road, Taluka Khalapur, District Raigad - 410 202
9.Taluka	Khalapur
10.Village	Dahivali
Correspondence Name:	Mr. Shankar Ramakrishna
Room Number:	69
Floor:	4 floor
Building Name:	Uttam House
Road/Street Name:	P.D. Mello Road
Locality:	Carnac bunder, Masjid bandar, Mumbai,
City:	Mumbai
11.Area of the project	Other
12.IOD/IOA/Concession/Plan Approval Number	Plan Approval by DISH for Dahivali 27092005 27.09.2005
	IOD/IOA/Concession/Plan Approval Number: Plan Approval by DISH for Dahivali 27092005
	Approved Built-up Area: 10
13.Note on the initiated work (If applicable)	Production started in plant
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	27.09.2005 From DISH for Dahivali 27092005
15.Total Plot Area (sq. m.)	100 acres
16.Deductions	Not applicable
17.Net Plot area	100 acres
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 10
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 10
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 10 acres
	Approved Non FSI area (sq. m.):
	Date of Approval: 16-02-2013
19.Total ground coverage (m2)	20 acres
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20%
21.Estimated cost of the project	950000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
2	Not applicable	Not applicable	Not applicable
3	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)	12 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	Sheds
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	GP Coil, Galvanised Sheets, Corrugated sheet	240000	102000	342000
2	Electro discharge texturing (EDT) / Electro chrome deposition (ECD) of work rolls	Nil	288 nos./ year	288 nos./year
3	Zinc Dross	1200	1020	2220

32.Total Water Requirement

Dry season:	**Source of water**	Borewell
	Fresh water (CMD):	1019
	Recycled water - Flushing (CMD):	No
	Recycled water - Gardening (CMD):	248
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	1019
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	0
Wet season:	**Source of water**	Borewell
	Fresh water (CMD):	1019
	Recycled water - Flushing (CMD):	No
	Recycled water - Gardening (CMD):	248
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	1019
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	0
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Industrial Process	170	174	344	-	-	-	-	-	-
Cooling tower & thermopack	178	190	368	-	-	-	-	-	-
Domestic	30	30	60	-	-	-	-	-	-
Gardening	106	142	248	-	-	-	-	-	-

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2 m
	Size and no of RWH tank(s) and Quantity:	30 m3
	Location of the RWH tank(s):	Inside plant premises
	Quantity of recharge pits:	1 Nos.
	Size of recharge pits :	2 m x 2 m
	Budgetary allocation (Capital cost) :	Rs.5 Lakh
	Budgetary allocation (O & M cost) :	Rs.1 Lakh/year
	Details of UGT tanks if any :	10
35.Storm water drainage	**Natural water drainage pattern:**	Open drainage all around the plant
	Quantity of storm water:	10 cubic meter per second
	Size of SWD:	3 m x 3 m x 2 m
Sewage and Waste water	**Sewage generation in KLD:**	50 m3/day
	STP technology:	Conventional Sewage Treatment plant
	Capacity of STP (CMD):	85 m3/day
	Location & area of the STP:	insite the project
	Budgetary allocation (Capital cost):	Rs.150 Lakh
	Budgetary allocation (O & M cost):	Rs.15 Lakh/year
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:**	MS scrap - 100 Mt/month, Drums - 39 Mt/month, Empty Drums - 133 Mt/month
	Wet waste:	Garbage - 5 kg/day
	Hazardous waste:	1. Used Oil/ spent oil - 6 MT/Month, 2. ETP Sludge - 6 Mt/month
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	0.5 m3/day
	Others if any:	No

Mode of Disposal of waste:	**Dry waste:**	Sale
	Wet waste:	Used as a manure
	Hazardous waste:	Sale to SPCB/CPCB reprocessor/ recycler & CHWTSDF, Taloja
	Biomedical waste (If applicable):	No
	STP Sludge (Dry sludge):	Used as a manure
	Others if any:	No
Area requirement:	**Location(s):**	Not applicable
	Area for the storage of waste & other material:	2,000 m2
	Area for machinery:	No
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.50 Lakh
	O & M cost:	Rs.5 Lakh/year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	5 to 10	5.5 to 7	Recycled/reused for industrial use
2	SS	mg/l	1200	less than 100	Recycled/reused for industrial use
3	BOD	mg/l	20-25	10-15	Recycled/reused for industrial use
4	COD	mg/l	200	60-80	Recycled/reused for industrial use
5	Oil & Grease	mg/l	Less than 5	4	Recycled/reused for industrial use
6	TDS	mg/l	3000	150	Recycled/reused for industrial use
7	Chloride	mg/l	10	7	Recycled/reused for industrial use
8	Sulphate	mg/l	200	80	Recycled/reused for industrial use
9	Zinc	mg/l	Less than 1	Less than 1	Recycled/reused for industrial use

Amount of effluent generation (CMD):	210 m3/day
Capacity of the ETP:	300 m3/day
Amount of treated effluent recycled :	210 m3/day
Amount of water send to the CETP:	We have full fledged treatment facility available within industry
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	Physical + Chemical + RO + Multiple evaporator
Disposal of the ETP sludge	sent to CHWTSDF, Taloja

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal

1	Used Oil/ spent oil	5.1 & 5.2	mt/month	-	-	6	Sale to authorized party
2	ETP Sludge	12.8	mt/month	-	-	6	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	Boiler	NG	1	33	67	-
2	G Furnance	NG	1	36	120	-
3	Hot Air Generator	NG	2	23	20	-
4	Pre Heating Furnances	NG	2	33	173	-
5	DG Set	HSD	1	3.5	280	-
6	DG Set	HSD	1	3.5	280	-
7	Galvanising Unit	-	2	36	-	-
8	DG Set	-	1	3.5	-	-
9	Acid Regeeration plant	-	1	35	-	-
10	Coating of Rolls	-	1	32	120	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	CNG	380 scm/hr	120 scm/hr	8500 kcal/m3
2	HSD	280 Ltr/hr	280 Ltr/hr	10550 kcal/kg
41.Source of Fuel		Oil Companies		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development

Total RG area :	35 acres
No of trees to be cut :	Not Applicable
Number of trees to be planted :	20000
List of proposed native trees :	mango, Ashoka, Coconut, Peltroforum, Spaphodia, Gulmohar, Lergrastomia, Estonia
Timeline for completion of plantation :	3 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	-	-	-	-
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)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	2.5 MW
	During Operation phase (Demand load):	2.5 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	1650 kVA, 200 kVA, 500 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Installation of VFDs at Various points like Boiler, Thermo-pack, Compressor, processing & water pump house.
LED lights for common areas
Flash steam, Condensate & Hot water recovery
% of energy saving: 5%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar	10 MW

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Fume Extraction / Scrubber	Fume Extraction Scrubber
Water	ETP / STP	ETP / STP / RO / MEE
Noise	Acoustic Enclosure	Acoustic Enclosure
Solid Waste	CPCB/MPCB approved repressor	CPCB/MPCB approved repressor

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.1600 Crore
	O & M cost:	Rs.1.2 Crore

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air pollution control	-	150	15
2	Water pollution control	-	150	15
3	Noise pollution control	-	30	3
4	Environment Monitoring and Management	-	30	3
5	Rain Water harvesting	-	10	1
6	Occupational Health	-	30	3
7	Green Belt	-	50	5
8	Solid Waste Management	-	50	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
Ammonia	-	2	21 Mt	20 Mt	1	RCF	By Road
LDO	-	1	142 kL	140 kL	140 kL	Indian Oil	By Road
LPG	-	1	84 Mt	84 Mt	84 Mt	Indian Oil	By Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Khopoli Pali Road

Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	12 acres
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	30
	Number of 4-Wheelers as approved by competent authority:	20
	Public Transport:	Bus, Auto, Train
	Width of all Internal roads (m):	12 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	3 (a) B1 Category
	Court cases pending if any	Not Applicable
	Other Relevant Informations	-
	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

DECISION OF SEAC

During deliberation it was observed that PP has obtianed ToR on.....

ToR is time barred as per OM issued by MoEF&CC dated.....

Hence, SEAC decided to defer the proposal untill PP submits revalidation of ToR from the competent Authority and public consultation reprots along with implementation plan of the issues raised during Public Hearing.

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

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

SEAC Meeting number: 153rd A (Day-3) **Meeting Date** July 27, 2018

Subject: Environment Clearance for Proposed expansion Thermal Power Plant, Solar Power Plant & Coal Gasification plant at Narangi, Taluka Khalapur, District Raigad.

Is a Violation Case: No

1.Name of Project	Uttam Galva Steels Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Shankar Ramakrishna
4.Name of Consultant	Mahabal Enviro Engineers Ltd.
5.Type of project	Industrial project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion Thermal Power Plant, Solar Power Plant & Coal Gasification Plant
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	The Environment Clearance for existing unit is issued by Environment Department, Govt. of Maharashtra vide no. J-13012/56/08/IA-II (III) dated 16th December, 2009
8.Location of the project	At Narangi, Donvat, Taluka Khalapur, District Raigad - 410202
9.Taluka	Khalapur
10.Village	Narangi, Donvat
Correspondence Name:	Mr. Shankar Ramakrishna
Room Number:	69
Floor:	4 floor
Building Name:	Uttam House
Road/Street Name:	P.D. Mello Road
Locality:	Carnac bunder, Masjid bandar, Mumbai,
City:	Mumbai
11.Area of the project	Notified Industrial Area of Raigad District
12.IOD/IOA/Concession/Plan Approval Number	Sanction plan received from DISH on dated 16.02.2013
	IOD/IOA/Concession/Plan Approval Number: Sanction plan received from DISH on dated 16.02.2013
	Approved Built-up Area: 263046
13.Note on the initiated work (If applicable)	Production started in plant
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Sanction plan received from DISH on dated 16.02.2013
15.Total Plot Area (sq. m.)	404686 m2
16.Deductions	Not applicable
17.Net Plot area	404686 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 263046 m2
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 263046
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 16-02-2013
19.Total ground coverage (m2)	2,02,343 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	50%
21.Estimated cost of the project	950000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable
2	Not applicable	Not applicable	Not applicable
3	Not applicable	Not applicable	Not applicable
4	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)	12 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	Sheds
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	Thermal Power Plant	2 x 30 MW	1 x 30 MW	3 x 30 MW
2	Solar Power Plant	-	1 x 10 MW	1 x 10 MW
3	Coal Gasification Plant	-	30000 Nm3/hr	30000 Nm3/hr
4	Fly Ash	70 Mt/day	307 Mt/day	377 Mt/day
5	TAR	-	4500 kg/day	4500 kg/day

32.Total Water Requirement

Dry season:	**Source of water**	Patalganga River
	Fresh water (CMD):	6796
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	24
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	6796
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	0
Wet season:	**Source of water**	Patalganga River
	Fresh water (CMD):	6796
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	24
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	6796
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	0
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Industrial Process	4327	2469	6796	-	-	-	-	-	-
Domestic	120	84	204	-	-	-	-	-	-
Gardening	16	8	24	-	-	-	-	-	-

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	12 m & 6 m
	Size and no of RWH tank(s) and Quantity:	100 m3
	Location of the RWH tank(s):	Existing water reservoir is sufficient
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	0
	Budgetary allocation (O & M cost) :	Rs.5 Lakh/year
	Details of UGT tanks if any :	100 m3
35.Storm water drainage	**Natural water drainage pattern:**	Open drainage all around
	Quantity of storm water:	10 m3/sec
	Size of SWD:	3 m x 3 m x 3 m depth
Sewage and Waste water	**Sewage generation in KLD:**	80 m3/day
	STP technology:	Conventional
	Capacity of STP (CMD):	120 m3/day
	Location & area of the STP:	insite the project
	Budgetary allocation (Capital cost):	Rs.600 Lakh
	Budgetary allocation (O & M cost):	Rs.60 Lakh/year
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:**	Nil
	Wet waste:	Nil
	Hazardous waste:	ETP Sludge 2 Mt/month
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	0.8 m3/day
	Others if any:	Ash - 377 TPD & TAR - 450 kg/day

Mode of Disposal of waste:	**Dry waste:**	Nil
	Wet waste:	Used as a manure
	Hazardous waste:	ETP Sludge disposed by CHWTSDF at MIDC Taloja
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Used as a manure
	Others if any:	Ash sold to cement / bricks manufactures and TAR use for in house road building , sheds etc.
Area requirement:	**Location(s):**	Not applicable
	Area for the storage of waste & other material:	No storage at site
	Area for machinery:	No
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.75 Lakh
	O & M cost:	Rs.8 Lakh/year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	mg/l	6.5-8.5	6.5-8.5	6.5-8.5
2	pH	mg/l	6.5-8.5	6.5-8.5	6.5-8.5
3	BOD	mg/l	300	Less than 30	Not to exceed 10 mg/l
4	COD	mg/l	400-500	Less than 150	Not to exceed 250 mg/l
5	O & G	mg/l	10-30	Less than 10	Not to exceed 10 mg/l

Amount of effluent generation (CMD):	1154 m3/day
Capacity of the ETP:	1600 m3/day
Amount of treated effluent recycled :	1154 m3/day
Amount of water send to the CETP:	We have full fledged treatment facility available within industry.
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	Physical + Chemical + RO + Multiple evaporator
Disposal of the ETP sludge	sent to CHWTSDF, Taloja

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP sludge	12.8	MT/month	0	2	2	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 Set 2 x 700 kVA	HSD	1	5	-	-
2	DG Set 1 x 500 KVA	HSD	2	5	0.5	80-90
3	DG Set 1 x 160 kVA	HSD	3	5	-	-

4	Boiler I & II (2 x 130 TPH)	Coal	4	98	-	-
5	Proposed boiler (1 x 130 TPH)	Coal	1	85	-	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	1200 Mt/day	2790 Mt/day	3990 Mt/day
2	HSD	720 Mt/day	-	720 Mt/day
41.Source of Fuel		Import		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	141645 m2 (35 acre)
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	1000
	List of proposed native trees :	mango, Ashoka, Coconut, Peltroforum, Spaphodia, Gulmohar, Lergrastomia, Estonia
	Timeline for completion of plantation :	3 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	-	-	-	-
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, Captive Power plant of UGSL
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	10 MW
	During Operation phase (Demand load):	10 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	2 x 700 kVA, 1 x 500 kVA, 1 x 160 kVA, 2 x 130 kVA, 1 x 130
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Installation of VFDs at Various points like Boiler, Thermo-pack, Compressor, processing & water pump house.
LED lights for common areas
Flash steam, Condensate & Hot water recovery
% of energy saving: 5%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar	10 MW

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	ESPS	ESPS
Water	ETP / STP /RO	ETP / STP / RO
Noise	Acoustic Enclosure	Acoustic Enclosure
Solid Waste	Manure	Manure

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.1600 Crore
	O & M cost:	Rs.1.2 Crore

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air pollution control	ESPS	400	40
2	Water pollution control	ETP / STP /RO	600	60
3	Noise pollution control	Acoustic Enclosure	200	20
4	Environment Monitoring and Management	Air, Water , Noise	50	5
5	Occupational Health	-	50	5
6	Green Belt	-	50	5
7	Solid Waste Management	-	75	8

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Coal	Solid	-	-	60000 Mt	400 Mt	Import	Road
HSD	-	-	-	-	720 Mt	WCL, Nagpur	Road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Khopoli Pali Road

Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	48500 m2
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	20
	Number of 4-Wheelers as approved by competent authority:	10
	Public Transport:	Bus, Auto, Train
	Width of all Internal roads (m):	12 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	1 (d) B1 Category
	Court cases pending if any	Not Applicable
	Other Relevant Informations	The project is exempted from Public hearing as it is located in Notified Industrial Area of Raigad District as per Regional Development plan approved by Government of Maharashtra . Accordingly, existing captive power plant unit of the company located in this area was exempted from PH (Copy of EC letter dated 16th December, 2009 issued by Environment Department, Govt. of Maharashtra enclosed)
	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

DECISION OF SEAC

During deliberation it was observed that PP has obtianed ToR in 104th meeting of SEAC-1 held on 19th and 20th June, 2015.ToR is time barred as per OM issued by MoEF&CC dated 29.08.2017

Hence, SEAC decided to defer the proposal untill PP submits revalidation of ToR from the competent Authority and Public Hearing report along with implementation plan of the issues rasied during Public Hearing..

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