



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date: November 5, 2019

To,
Mr. Amit J. Thakkar /Thakkar Organics Pvt. Ltd.
at Plot No.: F - 19, MIDC Badlapur

Subject: Environment Clearance for Proposed 88.0 TPM Pigments & Dye Intermediates Production Plant at Plot No.: F - 19, MIDC Badlapur, Tehsil: Badlapur, District: Thane, Maharashtra by Thakkar Organics Pvt. Ltd.

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 153rd (Day-1)rd meeting and recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 178th meetings.


2. It is noted that the proposal is considered by SEAC-I under screening category 5f as per EIA Notification 2006.

Brief Information of the project submitted by you is as below :-

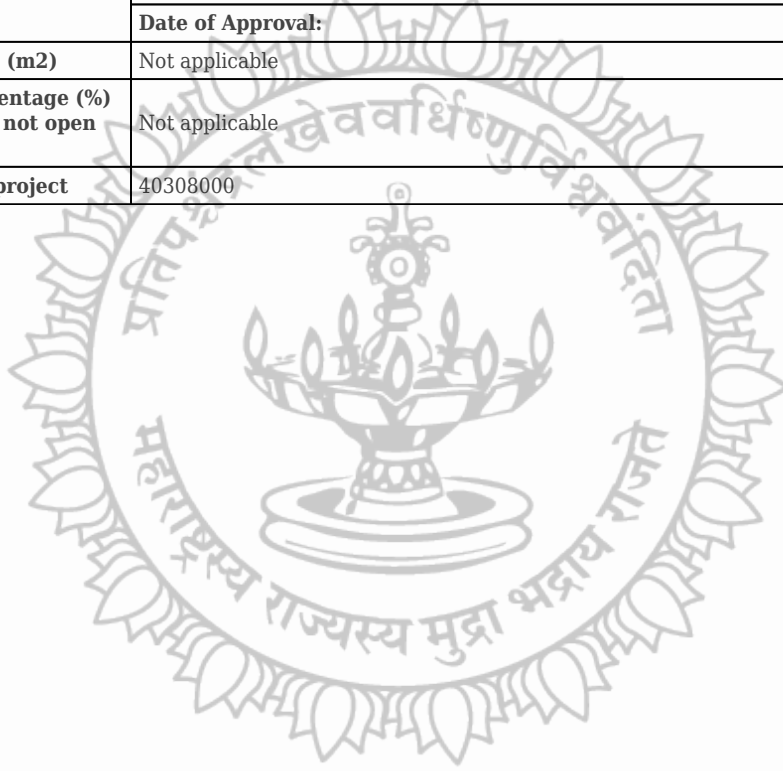
1.Name of Project	Proposed 88.0 TPM Pigments & Dye Intermediates Production Plant at Plot No.: F - 19, MIDC Badlapur, Tehsil: Badlapur, District: Thane, Maharashtra by Thakkar Organics Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Amit J. Thakkar /Thakkar Organics Pvt. Ltd.
4.Name of Consultant	Mr. H.K. Desai / Enviro Analysts and Engineers Private Limited.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Plot No.: F - 19, MIDC Badlapur
9.Taluka	Badlapur, Thane
10.Village	Badlapur
Correspondence Name:	Mr. Amit J Thakkar
Room Number:	Plot No.: F - 19, MIDC Badlapur, Tehsil: Badlapur, District: Thane, Maharashtra
Floor:	NA
Building Name:	NA
Road/Street Name:	NA
Locality:	NA
City:	Thane
11.Whether in Corporation / Municipal / other area	MIDC Badlapur
12.IOD/IOA/Concession/Plan Approval Number	MIDC Badlapur Approval IOD/IOA/Concession/Plan Approval Number: EE/AMB/D-32877/of 2015 Approved Built-up Area: 1408.38

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13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	1449.0 sq.m
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	FSI area (sq. m.): Not applicable
	Non FSI area (sq. m.): Not applicable
	Total BUA area (sq. m.): 1408.38
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	40308000



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22. Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Fast Red GL Base (Meta Nitro Para Toluidine)	0	10	10
2	Fast Boredeaux GP Base (Meta Nitro Para Anisidine)	0	10	10
3	3,4 Diamino Toluene/122	0	3	3
4	5 Amino 6 Methyl Benzimidazolone	0	5	5
5	2-Amino-N-cyclohexyl-N-methylbenzenesulfonamide	0	5	5
6	4 Amino-N-methylphthalimide	0	5	5
7	2,5-Dichloro Para Phenylene Diamine	0	5	5
8	2,5-Dimethyl Para Phenylene Diamine	0	5	5
9	3,4 Diamino Anisole	0	2	2
10	2-Heptanol	0	15	15
11	Meta Phenoxy Benzyl Alcohol	0	10	10
12	Dilute Acetic Acid (approx. 15% by Product)	0	3	3
13	Sodium Acetate (By Product)	0	10	10

23. Total Water Requirement

Dry season:	Source of water	MIDC Badlapur
	Fresh water (CMD):	30.9
	Recycled water - Flushing (CMD):	1.1
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	63.8
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	00

Wet season:	Source of water	MIDC Badlapur
	Fresh water (CMD):	28.4
	Recycled water - Flushing (CMD):	1.1
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	61.3
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	Not applicable
Excess treated water	00	
Details of Swimming pool (If any)	Not applicable	



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24.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0	1.5	1.5	0	0.3	0.3	0	1.2	1.2
Industrial Process	0	28.0	28.0	0	4.5	4.5	0	23.5	23.5
Cooling tower & thermopack	0	29.8	29.8	0	25.1	25.1	0	4.7	4.7
Cooling tower & thermopack	0	29.8	29.8	0	25.1	25.1	0	4.7	4.7
Industrial Process	0	0.6	0.6	0	0.1	0.1	0	0.5	0.5
Industrial Process	0	1.4	1.4	0	0.4	0.4	0	1.0	1.0

25.Rain Water Harvesting (RWH)	Level of the Ground water table:	2.3 m
	Size and no of RWH tank(s) and Quantity:	1 nos. of 12 KL
	Location of the RWH tank(s):	underground
	Quantity of recharge pits:	Not proposed
	Size of recharge pits :	Not proposed
	Budgetary allocation (Capital cost) :	1,50,000
	Budgetary allocation (O & M cost) :	20,000 /Annum
	Details of UGT tanks if any :	1. One Number of UGT for RWH. Capacity of the Tank would be 12 KL. 2. One Number of UGT for Fire Water Storage. Capacity of the Tank will be 100 KL.

26.Storm water drainage	Natural water drainage pattern:	East from the project site
	Quantity of storm water:	34.34m ³ /d
	Size of SWD:	305 mm (w) x 150 mm (d)

27.Sewage and Waste water	Sewage generation in KLD:	1.2
	STP technology:	Sewage Generated will be collected in septic tank first and then the overflow of the septic tank will be fed to the aeration tank of the effluent treatment plant of 35 KLD.
	Capacity of STP (CMD):	Not proposed
	Location & area of the STP:	Not proposed
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA



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28.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	Approx. 452 nos. of empty cement bags, 0.1508 MT of steel scrap, 0.3016 MT of aggregate waste, 38 sq.m of broken tiles and 22 nos of Empty paint cans will be generated
	Disposal of the construction waste debris:	Cement bags, steel scrap and paint cans will be sold to recycler whereas aggregates and broken tiles will be reused within site for internal road levelling and terrace china mosaic.
Waste generation in the operation Phase:	Dry waste:	Non Hazardous Solid Wastes from this factory will be from office and plant like waste paper, corrugated box, broken glass / plastic noncontaminated.
	Wet waste:	Domestic waste & garden leaves
	Hazardous waste:	4.26 MT/month of process residues and wastes , 680 kg/month of spent carbon , 45 nos./month of discarded containers, 1000 kg/month of ETP sludge will be generated
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Fly ash 300 kg/d
Mode of Disposal of waste:	Dry waste:	Sweepers / workers will collect such wastes separately (Biodegradable and Non biodegradable) from the source and would store in solid waste collection enclosure (to be located suitably within the project site). These Recyclable Non-biodegradable solid wastes will be sold to prospective buyers.
	Wet waste:	Biodegradable solid waste will be used for composting within the plant premises.
	Hazardous waste:	Process residues & wastes, Spent carbon and ETP sludge will be disposed to CHWTDF Taloja and Discarded containers will be sold to authorised recyclers after proper decontamination.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	Fly Ash Will be given to Brick Manufacturers.
Area requirement:	Location(s):	NA
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	NA
	O & M cost:	NA

29. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	Chemical Oxygen demand	ppm	5500-6000	200-150	less than 250
2	Biochemical Oxygen Demand	ppm	600-750	Less than 30	less than 30
3	Total Dissolved Solids	ppm	1800-2000	less than 500	less than 2100
4	Total Suspended Solids	ppm	200-300	Nil	less than 100
5	pH	-	5.5-8	6.5-7	5.5-9
6	Oil and Grease	ppm	50-60	less than 10	less than 10
Amount of effluent generation (CMD):		31.0			
Capacity of the ETP:		35			
Amount of treated effluent recycled :		26.8			
Amount of water send to the CETP:		NIL			
Membership of CETP (if require):		CETP BADLAPUR FOR 24 KLD			
Note on ETP technology to be used		Plant Capacity 35 KLD with Zero liquid Discharge Containing process units {Neturilisation system > Advance oxidation system> Activated sludge process (primary, secondary & tertiary Treatment) with MBR technology > RO system > MEE (2 stage)}			
Disposal of the ETP sludge		CHWTSDF, Taloja.			

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30.Hazardous Waste Details							
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Process Residues & wastes	28.1	Mt / Month	0	4.26	4.26	Will be disposed to CHWTSDF, Taloja.
2	Spent Carbon	28.2	kg / Month	0	680	680	Will be disposed to CHWTSDF, Taloja.
3	Discarded Containers	33.3	Nos. / Month	0	45	45	Will be sold to authorized recycler after proper decontamination.
4	ETP Sludge	34.3	kg / Month	0	1000	1000	Will be disposed to CHWTSDF, Taloja.
31.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	Coal 104 kg/hr	1	30	0.55	90	
2	DG set	HSD 12 Kg/hr	1	18.4	0.2	40	
32.Details of Fuel to be used							
Serial Number	Type of Fuel	Existing	Proposed	Total			
1	Coal	0	2.5 TPD	2.5TPD			
2	HSD	0	750 l/month	750 l/month			
33.Source of Fuel		Local					
34.Mode of Transportation of fuel to site		Road transport					
35.Energy							

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Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	100 kVA
	DG set as Power back-up during construction phase	125 kVA
	During Operation phase (Connected load):	NA
	During Operation phase (Demand load):	200 kVA
	Transformer:	NA
	DG set as Power back-up during operation phase:	125 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

Energy saving by non-conventional method:

? Energy efficient LED will be used which have higher output. 100% of external landscaped street lights will be LED and on solar stand alone.
 ? Energy efficient LED will be used for internal lights
 ? Pumps and motors with premium efficiency

36.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	internal Lighting load on LED lights	28.63 KWH/day
2	External Lighting load on LED and solar stand alone	58.68 KWH/day
3	Pumps and motors with premium efficiency (chilling unit)	111.72 KWH/day
4	umps and motors with premium efficiency (water pump)	9.6 KWH/day

37.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Boiler emission	NA	Double Cyclone Separator and Bag Filter
Process emission	NA	Strubber
Domestic and industrial waste Water	NA	ETP with tertiary treatment

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

38.Environmental Management plan Budgetary Allocation

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a) Construction phase (with Break-up):			
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Monitoring	PM, SO2, NOx, CO	1.25
2	Noise Monitoring	Daytime and Nighttime dB(A)	0.5
3	EHS	Worker Health checkup	1.0

b) Operation Phase (with Break-up):				
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	Bag filter and dual cyclone separator	14	2.1
2	Water Pollution Control	ETP	95.75	19.15
3	Environment Monitoring and Management	Ambient monitoring	20	1
4	Occupational Health	Worker Health checkup	2.0	0.5
5	Green Belt	Tree plantation	2.0	0.6
6	Solid Waste Management	Hazardous waste management and disposal	10.0	2

39.Storage of chemicals (inflammable/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
Para toluidine	solid	hazardous storage	10	10	10	Local	road transport
Para anisidine	solid	hazardous storage	10	10	10	Local	road transport
Meta nitro para toluidine	solid	hazardous storage	5	5	5	Local	road transport
5 nitro 6 methyl benzimidazolone	solid	hazardous storage	5	5	5	Local	road transport
2- Nitro N- cyclohexyl - N-methyl benzene sulfonamide	solid	hazardous storage	5	5	5	Local	road transport
4 nitro -N-methyl phthalimide	solid	hazardous storage	5	5	5	Local	road transport
2,5 dichloro para nitro aniline	solid	hazardous storage	10	10	10	Local	road transport
2,5 dimethyl para nitro aniline	solid	hazardous storage	5	5	5	Local	road transport
3 nitro 4 amino anisole	solid	Hazardous storage area	5	5	5	Local	road transport
2 heptanone	liquid	Hazardous storage area	5	5	5	Local	road transport

Meta phenoxy benzaldehyde	liquid	Hazardous storage area	5	5	5	Local	road transport
Ethyl acetate	liquid	tank farm	10	10	10	Local	road transport
Di methyl acetamide	liquid	Hazardous storage area	5	5	5	Local	road transport
Hydrogen	gas	hydrogen shed	1060 m3	1060 m3	1060 m3	Local	road transport
Acetic acid	liquid	tank farm	16	16	16	Local	road transport
Acetic anhydride	liquid	Hazardous storage area	5	5	5	Local	road transport
Toluene	liquid	Hazardous storage area	5	5	5	Local	road transport
Nitric Acid conc.	liquid	tank farm	10	10	10	Local	road transport
caustic soda flakes	solid	Hazardous storage area	10	10	10	Local	road transport
carbon catalyst	liquid	Hazardous storage area	0.02	0.02	0.02	Local	road transport
40.Any Other Information							
No Information Available							



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	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	30 km
	Category as per schedule of EIA Notification sheet	5f
	Court cases pending if any	No
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

3. The proposal has been considered by SEIAA in its 178th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:

Specific Conditions:

I	PP to submit CER plan to District Collector and submit the acknowledgement to Member Secretary, SEIAA.
II	PP to ensure to comply with the conditions stipulated in the Office Memorandum issued by MoEF & CC dated 9th August, 2018.

General Conditions:

I	(i)PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP.
II	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
III	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
IV	Proper Housekeeping programmers shall be implemented.
V	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.
VI	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
VII	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
VIII	Arrangement shall be made that effluent and storm water does not get mixed.
IX	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
X	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
XI	The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
XII	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
XIII	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.

XIV	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
XV	(The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
XVI	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
XVII	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
XVIII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
XIX	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department
XX	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in
XXI	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
XXII	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
XXIII	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
XXIV	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
XXV	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

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4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.

8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D- Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.


Shri. Anil Diggikar (Member Secretary SEIAA)

Copy to:

1. SHRI JOHNY JOSEPH, CHAIRMAN-SEIAA
2. SHRI UMAKANT DANGAT, CHAIRMAN-SEAC-I
3. SHRI M.M.ADTANI, CHAIRMAN-SEAC-II
4. SHRI ANIL .D. KALE. CHAIRMAN SEAC-III
5. SECRETARY MOEF & CC
6. IA- DIVISION MOEF & CC
7. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
8. REGIONAL OFFICE MOEF & CC NAGPUR
9. MUNICIPAL COMMISSIONER BHIVANDI-NIZAMPUR
10. MUNICIPAL COMMISSIONER KALYAN-DOMBIVALI
11. REGIONAL OFFICE MPCB KALYAN
12. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD