



## STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,  
Room No. 217, 2nd floor,  
Mantralaya, Annexe,  
Mumbai- 400 032.  
Date: October 29, 2018

To,  
**Kalyan Dombivali Municipal Corporation**  
at Survey No. 58/3, Adharwadi Jail Road

**Subject:** Environment Clearance for Proposed Expansion in Common Bio-Medical Waste Treatment and Disposal facility at Survey No. 58/3, Adharwadi Jail Road, Umberde Gaon, Kalyan (West), Maharashtra-421301

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 152nd (Day- 2)nd 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 141st meetings.


2. It is noted that the proposal is considered by SEAC-I under screening category 7(d) Common hazardous waste treatment, storage and disposal facilities (TSDFs) as per EIA Notification 2006.

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

1.Name of Project	Proposed Expansion in Common Bio-Medical Waste Treatment and Disposal facility at Survey No. 58/3, Adharwadi Jail Road, Umberde Gaon, Kalyan (West), Maharashtra-421301
2.Type of institution	Government
3.Name of Project Proponent	Kalyan Dombivali Municipal Corporation
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd. (107, Hiren Light Industrial Estate, Mougul Lane, Mahim, Mumbai - 400 016)
5.Type of project	Others (Common Bio-Medical Waste Treatment and Disposal facility)
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Survey No. 58/3, Adharwadi Jail Road
9.Taluka	Kalyan
10.Village	Umberde Gaon
Correspondence Name:	Deputy Engineer, Kalyan Dombivali Municipal Corporation
Room Number:	NA
Floor:	NA
Building Name:	Kalyan Dombivali Municipal Corporation
Road/Street Name:	Survey no. 58/3, Adharwadi Jail Road
Locality:	Umberde Gaon, Kalyan (W)
City:	Kalyan, Thane-421301
11.Whether in Corporation / Municipal / other area	Kalyan Dombivali Municipal Corporation

**SEIAA Meeting No: 141 Meeting Date: October 5, 2018 ( SEIAA-STATEMENT-000000709 )**  
**SEIAA-MINUTES-000000680**  
**SEIAA-EC-000000481**

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**Shri. Anil Diggikar (Member Secretary SEIAA)**

12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: Planning authority KDMC as per MRTP act 1966
	Approved Built-up Area: 502
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.)	4200
16.Deductions	NA
17.Net Plot area	4200
18 (a).Proposed Built-up Area (FSI & Non-FSI)	FSI area (sq. m.): NA
	Non FSI area (sq. m.): NA
	Total BUA area (sq. m.): 502
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)	728
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18
21.Estimated cost of the project	27400000

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## 22. Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Incinerator	100 kg/hr	100 kg/hr	200 kg/hr
2	Autoclave	50 lit/cycle	50 lit/cycle	100 lit/cycle
3	Shredder	50 kg/hr	50 kg/hr	100 kg/hr

## 23. Total Water Requirement

<b>Dry season:</b>	<b>Source of water</b>	Ground water through open well
	<b>Fresh water (CMD):</b>	13.8 m3/day
	<b>Recycled water - Flushing (CMD):</b>	6.2 m3/day (Flushing+Washing)
	<b>Recycled water - Gardening (CMD):</b>	7 m3/day
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	20 m3/day
	<b>Fire fighting - Underground water tank(CMD):</b>	Not applicable
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable
	<b>Excess treated water</b>	Not applicable
<b>Wet season:</b>	<b>Source of water</b>	Ground water through open well
	<b>Fresh water (CMD):</b>	13.8 m3/day
	<b>Recycled water - Flushing (CMD):</b>	6.2 m3/day (Flushing+Washing)
	<b>Recycled water - Gardening (CMD):</b>	7 m3/day
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	20 m3/day
	<b>Fire fighting - Underground water tank(CMD):</b>	Not applicable
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable
	<b>Excess treated water</b>	Not applicable
<b>Details of Swimming pool (If any)</b>	Not applicable	

## 24.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	1	1	2	0.2	0.2	0.4	0.8	0.8	1.6
Industrial Process	9	9	18	3.2	3.2	6.4	5.8	5.8	11.6

<b>25.Rain Water Harvesting (RWH)</b>	Level of the Ground water table:	5.5
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	1
	Size of recharge pits :	1.44
	Budgetary allocation (Capital cost) :	Rs. 60000
	Budgetary allocation (O & M cost) :	Rs. 5000/Annum
	Details of UGT tanks if any :	3 UGT tanks- Total area 27 m <sup>2</sup>

<b>26.Storm water drainage</b>	Natural water drainage pattern:	As per gravity
	Quantity of storm water:	1900 mm
	Size of SWD:	50 m <sup>2</sup>

<b>27.Sewage and Waste water</b>	Sewage generation in KLD:	1.6 KLD
	STP technology:	NA. Entire waste water generated will be collected and treated in the existing 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

## 28.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	NA
	<b>Disposal of the construction waste debris:</b>	NA
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	Proposed facility is for treatment & disposal of Bio-medical waste
	<b>Wet waste:</b>	Proposed facility is for treatment & disposal of Bio-medical waste
	<b>Hazardous waste:</b>	Used Oil 200 lit/year, Incineration Ash 1000 kg/month and ETP sludge 100 kg/day
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	NA
	<b>Others if any:</b>	NA
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	NA
	<b>Wet waste:</b>	NA
	<b>Hazardous waste:</b>	Used oil will be re-used as lubricants in the machineries within the premises only, Incineration Ash and ETP sludge will be Collection, storage, transportation and sent to TSDF site.
	<b>Biomedical waste (If applicable):</b>	Proposed facility is for treatment & disposal of Bio-medical waste
	<b>STP Sludge (Dry sludge):</b>	NA
	<b>Others if any:</b>	NA
<b>Area requirement:</b>	<b>Location(s):</b>	Survey no. 58/3, Adharwadi Jail Road, Umberde Gaon, Kalyan (West), Maharashtra - 421301
	<b>Area for the storage of waste &amp; other material:</b>	49.89 sq. m.
	<b>Area for machinery:</b>	167.13 sq. m.
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	Rs. 2.74 Crore
	<b>O &amp; M cost:</b>	Rs 5 lacs/Annum

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29.Effluent Charecterestics					
Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	NA	6.5-8.5	6.5-8.5	6.5-8.5
2	BOD	mg/l	80	<30	100
3	COD	mg/l	150	<100	250
4	Suspended Solids	mg/l	200	<100	100
5	Oil & Grease	mg/l	10	0	20
Amount of effluent generation (CMD):		13.2			
Capacity of the ETP:		13.5			
Amount of treated effluent recycled :		6.2			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		It is physiochemical treatment with extended aeration and biological treatment with pressure sand filter and activated carbon filter as tertiary treatment.			
Disposal of the ETP sludge		Collection, storage, transportation and sent to TSDF site.			



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30.Hazardous Waste Details							
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used oil	5.1	lit/year	100	100	200	It will be re-used as lubricants in the machineries within the premises only
2	Incineration Ash	BMW Cat. 9	kg/month	500	500	1000	Collection, storage, transportation and sent to TSDF site.
3	ETP Sludge	34.4	kg/day	50	50	100	Collection, storage, transportation and sent to TSDF site.
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	Incinerator (Existing)	LDO	1	30	0.8	313 K	
2	DG set Stack (Existing)	diesel	1	3	0.1	350 K	
3	Incinerator (Proposed)	LDO	1	30	0.8	315 K	
4	DG set Stack (Proposed)	diesel	1	3	0.1	350 K	
32.Details of Fuel to be used							
Serial Number	Type of Fuel	Existing	Proposed	Total			
1	LDO/Diesel	16.5 Lit/hr	16.5 Lit/hr	33 Lit/hr			
33.Source of Fuel		Near by petrol pump					
34.Mode of Transportation of fuel to site		By road					
35.Energy							

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<b>Power requirement:</b>	<b>Source of power supply :</b>	Maharashtra State Electricity Board (MSEB)
	<b>During Construction Phase: (Demand Load)</b>	50 KVA
	<b>DG set as Power back-up during construction phase</b>	NA
	<b>During Operation phase (Connected load):</b>	200 KW
	<b>During Operation phase (Demand load):</b>	200 KW
	<b>Transformer:</b>	NA
	<b>DG set as Power back-up during operation phase:</b>	Existing DG Set of 150 KVA and Proposed D.G Sets of 62.5 KVA
	<b>Fuel used:</b>	Total 33 lit/hr LDO or Diesel
	<b>Details of high tension line passing through the plot if any:</b>	Not applicable

### Energy saving by non-conventional method:

Reduction in usage of traditional light bulbs with Light Emitted Diode (LEDs) means reduction in usage energy consumption. Usage of Solar energy at different locations in the plant like parking light, roadside light etc. will be explored.

### 36.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use of Light Emitted Diode (LEDs)	20
2	Usage of Solar energy at different locations will be explored	5

### 37.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Effluent for process, washing and domestic	ETP	Modification of existing ETP
Air pollution from Incinerator	Scrubber	Scrubber
Noise	Acoustic enclosure	Acoustic enclosure

<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	25000
	<b>O &amp; M cost:</b>	1500

## 38.Environmental Management plan Budgetary Allocation

### a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	EMP	Air and noise	1.00

**b) Operation Phase (with Break-up):**

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	ETP	Waste water management System	30	2.5
2	Scrubber	Air pollution control measures	10.5	0.7
3	Landscape	Green belt development	1.75	0.3
4	Solid waste management	Solid waste management	1.5	0.75
5	Noise pollution control measures	Noise pollution control measures	1.25	0.75

**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
Diesel and LDO	Liq. Fuel	Fuel storage	2	3	13.2	Nearest Petrol pump	By road

**40.Any Other Information**

No Information Available

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	<b>CRZ/ RRZ clearance obtain, if any:</b>	NA
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	NA
	<b>Category as per schedule of EIA Notification sheet</b>	7(d) Common hazardous waste treatment, storage and disposal facilities (TSDFs)
	<b>Court cases pending if any</b>	NA
	<b>Other Relevant Informations</b>	NA
	<b>Have you previously submitted Application online on MOEF Website.</b>	Yes
	<b>Date of online submission</b>	29-06-2016

**3. The proposal has been considered by SEIAA in its 141st 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:**

<b>I</b>	PP to include details of bio medical waste in the Environmental Status Reprot of the KDMC every year.
<b>II</b>	PP to prepare and implement the taining program on Bio Medical Waste Management for all the stake holders.
<b>III</b>	PP to obtian permission from CGWA to draw ground water.
<b>IV</b>	PP to provide access to the proposed site with 9 meter wide road.
<b>V</b>	PP shall obtain permission for ground water withdrawal from CGWA.

**General Conditions:**

<b>I</b>	(i)PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP.
<b>II</b>	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
<b>III</b>	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
<b>IV</b>	Proper Housekeeping programmers shall be implemented.
<b>V</b>	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.
<b>VI</b>	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
<b>VII</b>	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
<b>VIII</b>	Arrangement shall be made that effluent and storm water does not get mixed.
<b>IX</b>	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.
<b>X</b>	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.
<b>XI</b>	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.

<b>XII</b>	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.
<b>XIII</b>	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.
<b>XIV</b>	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
<b>XV</b>	(The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
<b>XVI</b>	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.
<b>XVII</b>	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.
<b>XVIII</b>	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
<b>XIX</b>	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
<b>XX</b>	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 <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a>
<b>XXI</b>	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.
<b>XXII</b>	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.
<b>XXIII</b>	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 <sub>2</sub> , NO <sub>x</sub> (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.
<b>XXIV</b>	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.
<b>XXV</b>	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