

BRIHANMUMBAI MUNICIPAL CORPORATION

Chief Engineer (Solid Waste Management) Project

No.Ch.Eng./4424/SWM/Project dtd. 30/01/2024

Office of the
Chief Engineer (SWM) Project
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To,
Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (WZ),
Ground Floor, East wing, New secretariat building,
Civil line,
Nagpur – 440001

Sub: Submission of hard copy of half yearly compliance reports in respect of the stipulated prior environment clearance terms & conditions and six monthly reports on the status of compliance of the General Conditions (vii) & (xii) for Construction Phase including results of monitored data as stipulated in the revised Environmental clearance (E.C.) dtd. 05.12.2014 accorded for modernization of MSW processing & disposal facility of capacity 4000 TPD - 7500 TPD at Kanjur, Mumbai.

And

Submission of hard copy of half yearly compliance reports in respect of the stipulated prior environment clearance terms & conditions and six monthly reports on the status of compliance of the General Conditions (XXI) & (XXIV) including results of monitored data as stipulated in the Environmental clearance (E.C.) dtd. 29.10.2018 accorded for scientific processing of MSW in 52.45 ha. area which is in CRZ –III area other than CRZ – I at Kanjur MSW Processing facility, Mumbai.

Ref: 1) Revised Environmental Clearance issued by State Level Environmental Impact Assessment Authority (SEIAA) vide no. SEAC-2014/CR-162/TC2 dtd 05.12.2014.

- 2) Environment Clearance issued by State Level Environment Impact Assessment Authority (SEIAA) vide no. SEIAA-EC-0000000475, dtd. 29.10.2018.
- 3) Half yearly compliance report submitted by MCGM vide letter U/No. No. Ch.E./2048/SWM/Project, Dated 07.08.2023.

Sir,

This has reference to the conditions of Environmental Clearances issued for scientific processing of MSW in 65.96 ha. non CRZ area and 52.45 ha. CRZ -III area at Kanjur MSW Processing facility, Mumbai vide reference No-1 & 2 respectively.

In this context, MCGM is hereby submitting the hard copy of half yearly compliance reports in respect of the respective stipulated prior environment clearance terms & conditions and six monthly reports on the status of compliance of the respective General Conditions including results of monitored data as stipulated in the referred Environmental clearances accorded for Kanjur MSW Processing facility, Mumbai.

Half Yearly EC Compliance Report :For DECEMBER -2023

The half yearly compliance report on Environmental Clearance issued via letter Ref: SEAC-2014/CR-162/TC2, dated 5/12/2014 is as below:-

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
1.	The proposal under consideration has to be restricted within the area 65.96 ha. Outside the CRZ area. The PP shall maintain a buffer zone of 500 meters around the project perimeter which shall be incorporated as 'No Development Zone' in the Development Plan of BMC.	BMC has maintained a buffer zone of 500 meters around the project perimeter in the existing Development Plan. BMC is taking necessary steps for incorporation of the said buffer zone as 'No Development Zone' in the Development Plan of BMC and the same will be incorporated after approval of Appropriate Authorities.
2.	The road leading to the dumping ground from the Eastern Express Highway shall be fully black topped/concretized so as to avoid generation of dust.	Complied.
3.	Generation of Green House Gases	Complied.

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
	(GHG) like methane needs to be controlled so that it does not contaminate the atmosphere. It should be ensured that methane generated is fully utilized for power generation/flaring and not let into atmosphere.	The GH gas, Methane generated in BLF Cells is captured and flared through flaring stations installed at the site. Also, GH and Methane gas liberated from UAR at leachate treatment plant is flared off. Arrangements for gas collection and its utilization for power generation are installed and electricity generation from landfill gases generated from BLF Cells is used for captive power generation.
4.	<p>The leachate generating from the cells will have to be systematically collected and treated to reduce BOD levels to allowable limits.</p> <p>Under no circumstances should the leachate be allowed to contaminate the surrounding areas, particularly the mangrove forest on the southwestern and eastern side of the cell.</p>	<p>Arrangements for leachate collection in impervious HDPE lined ponds from BLF-Cells are already operational.</p> <p>Leachate Treatment Plant is operational. Leachate treatment comprises of two stage biological treatment anaerobic &, aerobic followed by clarification & filtration.</p> <p>At present Leachate collected is re-circulated in BLF Cells under controlled condition for enhancing methane generation.</p>
5.	The PP shall take all out efforts to control odor nuisance. PP should take steps to measure odor levels using instruments which are currently available. The measurement of odor levels shall be taken at strategic locations depending on the wind direction and situation of habitats. Through regular monitoring it should be ensured that the odor levels are within the acceptable limits and remedial measures like applying odor controlling bacterial consortium to the garbage are taken up as and when necessary.	<p>Complied.</p> <p>On the basis of details of wind direction & wind speed from Windrose Diagrams of this project site, locations for monitoring odor levels in windward and leeward directions in nearby residential colonies are finalized and monitoring has been carried out for odor giving compounds like VOC, Mercaptans, ammonia, hydrogen sulfide etc. by the operator through MoEF approved laboratory.</p> <p>Continuous Automatic weather station has been installed on site with wind direction and speed and other weather parameter's availability on line on www.antonylara.in web site.</p> <p>Wind balloon system for guiding wind directions have been installed at BLF Cells and other noticeable places, so that wind direction can be seen easily by the operating staff and necessary arrangement for remedial measures like applying odor controlling bacterial consortium to the garbage and misting of deodorant are taken up as and when necessary.</p>

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
6	To save the mangroves on the South-Western side of the property which is starved of supply of sea water, the PP should ensure openings of sufficient cross section in the compound wall which are designed and provided in consultation with the Chief Conservator of Forests, Mangrove Cell.	Arrangement for ingress & egress of tidal water from creek through the culverts is already in place and significant growth of healthy mangroves is visible. The Forest Officers, through visits to the project site are monitoring the protection & preservation of mangrove forest.
7	Mangrove regeneration efforts should be undertaken at the costs of the PP once regular tidal flushing is assured through measures suggested in point 6	
8	The staff handling the solid waste should be trained to ensure zero spillage of the garbage during transport. The PP should ensure proper cleaning of the transport vehicles after unloading the garbage at the dumpsite.	The closed body vehicles are received to achieve zero spillage of garbage and training is given to staff for handling the Solid Waste. It is strictly observed that no tail gates of vehicles will be opened before reaching to the MSW processing site. Arrangements are in place for Washing/cleaning of incoming waste collection trucks tyres if found with muck and dirt. Regular cleaning of roads is undertaken to collect spilled garbage if observed and cleanliness is maintained.
9	No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.	Noted.
10	No additional land shall be used / acquired for any activity of the project without obtaining proper permission.	Noted.
11	The project proponent should ensure that the transportation of the hazardous waste to the TSDF conforms to the norms laid down in the Hazardous Waste (Management& Handling) Rules 2016.	The said condition is not applicable to this project as the project involves processing MSW.

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
12	The proponent should ensure that TSDF fulfills all the provision of Hazardous Waste (Management & Handling) Rules 2016 & the design of landfill is as per guidelines of CPCB with proper leachate collection arrangement.	The site is designed as per the guidelines of MSW (M&H) Rules-2000 as well as SWM Rules 2016 and the provisions for landfill design & execution of Biogas capturing & flaring arrangement, Leachate collection, treatment, leachate recirculation is taken into consideration. The provisions for HW(M&H) Rules 2016 are not applicable as site is not accepting any Hazardous Waste.
13	The TSDF should only handle the waste generated from the member units. A leachate collection system should be provided to collect the leachate at a collection point. Treatment facility for the collected leachate should be provided. The treated water should be reused as far as possible in the project.	Only MSW generated from human habitation area is transported to this site. No industrial hazardous waste is accepted for TSDF hence no member units contributing/generating hazardous waste are covered as member units. Leachate collection and treatment facility is provided and is in operation. However, at present the Leachate is re-circulated at BLF Cells for enhancing the Bio-degradation process for generation of Methane gas. The Leachate Treatment Plant with arrangement of primary, Secondary with tertiary treatment is provided.
14	The proponent should obtain necessary clearance from the Ground Water authority before initiating the project.	Necessary clearance from the Ground Water Authority is already obtained before initiating the project. BMC had also informed the Ground water Authority about the revised EC.
15	The depth of the landfill should be decided based on the ground water level at site.	While deciding the depth of landfill in design, ground water level data is taken into consideration. This condition is complied while designing the project & is being complied in execution.
16	Project Proponent should prepare and implement an onsite emergency management plan.	Emergency Management Plan is complied as per the EIA report (Chapter 6). On site "Emergency Plan and Disaster Management Plan" is prepared and is under implementation.
17	Project Proponent shall carryout periodical ground water/soil monitoring in and around the site to check the contamination, including Toxicity Characteristic Leaching Procedure Test(TCLP) for heavy metals	Monthly ground water quality monitoring through Piezo-metric wells water samples locations are provided in drawing. Periodical ground water /soil monitoring in and around the site is carried out at intervals set out in the SWM Rules, 2016 through the agency approved by MoEF. As regards to Toxicity Characteristic Leaching Procedure Test(TCLP) test the parameters which are necessary as per MSW rules are analyzed with the

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
		help of MoEF approved Lab.
18	Project Proponent shall carryout periodical air quality monitoring in and around the site including VOC, HC.	Monthly air monitoring is being carried out in and around the site as per the parameters stipulated in the Authorization granted and the results are displayed on website of the operator, www.antonylara.in Special parameters of VOC and HC are also monitored.
19	Project Proponent should develop Green Belt all along the periphery of the TSDF with plant species that are significant and used for the pollution abatement.	It is revealed that said condition is not applicable to the Kanjur project as the Kanjur project is only for treatment of Municipal Solid Waste (MSW). Plantation in green belt development is being done on progressive basis and majority plantation is already done. Healthy growth of mangroves forest is developed on three sides of buffering zone.
20	The project proponent should not store the hazardous wastes more than the quantity that has been permitted by the CPCB / Maharashtra State Pollution Control Board.	Only MSW is received at Kanjur site, therefore question of receiving of Hazardous Waste does not arise.
21	Adequate firefighting facilities should be installed to handle the fire arising from hazardous chemicals/waste that are stored/processed.	The said condition is not applicable to this project as the project involves processing MSW Only. No HW /H Chemicals are received to this site. An adequate firefighting system is in place, comprising of water tankers and fire extinguishers which are placed at strategic locations for prevention of any fire incidence.
22	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.	On leeward direction plantation is done as a wind barrier. The arrangement of water sprinkling on roads through tankers is in practice and water sprinkling operation is carried out regularly in summer & winter.
23	Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.	The said condition is not applicable to this project as the project involves processing MSW only. There is no furnace area in the current project plan.
24	Proper housekeeping programs shall be implemented.	A dedicated team of trained workers is already deployed to ensure good housekeeping & cleanliness.
25	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG	At present the plant electricity requirement is fulfilled with captive power generation unit with backup power supply from MSEDCL & Standby DG set of 125 KVA with adequate stack height.

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
	<p>set. (if applicable)</p> <p>Arrangement shall be made that effluent and storm water does not get mixed.</p>	<p>Arrangement of separate leachate collection through HDPE pipeline into HDPE lined ponds is provided. It is controlled by re-circulation into the landfill BLF Cells. The excess leachate is treated in the leachate treatment plant, and it is not allowed to mix with storm water.</p> <p>Storm water drainage systems around the BLF Cells have been constructed for the management of rainwater.</p>
26	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.	Monthly Ground water quality is monitored as prescribed in SWM Rules, 2016. The results analyzed indicate that the quality of ground water is found same as compared to previous year. The results are regularly submitted to MPCB by the operator. The sampling & analysis is carried out with the help of Accredited laboratory and having MoEF approval.
27	Leq. of 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.	Due care is taken to avoid noise nuisance.
28	The overall noise levels in and around the plant shall be kept well within the standards by providing noise control measures including acoustic hoods. Silencers, enclosures, etc. on all sources.	Noise levels are arising from movements of trucks, dozers. These machineries are fitted with silencers for noise control. All efforts as per EIA are made to ensure that noise levels do not exceed the permissible values.
29	PP has to abide by the conditions stipulated by SEAC & SEIAA	Noted.
30	"Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment Department before start of any construction work at the site.	MPC Board has granted Authorization under (M&H) Rules, 2000 & SWM Rules-2016 as per the decision in Consent Appraisal Committee meeting and issued letter for non- requirement of separate Consent to Establishment/ operate for this activity.
31	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	All required sanitation arrangements such as WC/Urinals/Bathrooms with adequate water are available at site. Also safe, filtered, disinfected drinking water is provided to staff/ workers. Required facilities are being maintained throughout the construction period.

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
Report on compliance of General Conditions stipulated in Environment Clearance.		
Sr. No	General Conditions for Construction Phase	Proposed action plan
(i)	Provision shall be made for the housing of construction Labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche and First Aid Room etc.	All required arrangements such as housing, sanitation & safe drinking water requirements are in place. Medical checkups have been taken to check the health of workers.
(ii)	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.	All required provisions are in place.
(iii)	The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.	All required provisions are in place.
(iv)	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	All necessary guidelines shall be followed for disposal of muck (if any) generated during construction.
(v)	Arrangement shall be made that wastewater and storm water do not get mixed.	Necessary drainage is made to ensure that no wastewater and storm water is mixed. Storm water drainage systems have been constructed for the management of rainwater.
(vi)	All the topsoil excavated during	In the case of landfill site, mostly the construction

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
	construction activities should be stored for use in horticulture / landscape development within the project site.	activity involves filling & compaction of soil and not excavation. However necessary precaution to preserve topsoil for reuse will be taken.
(vii)	Additional soil for leveling of the proposed site shall be generated within the site (to the extent possible) so that natural drainage system of the area is protected and improved.	There is no additional soil filling material available on the present site, as the site is situated in low lying area. As per the technical requirement, soil from various locations is transported for the purpose of filling the embankments.
(viii)	Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/Agriculture Dept.	The plantation program for Green Belt development is already undertaken & it is under progressive implementation.
(ix)	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	HDPE Liners are spread at landfill base as per design & provisions of SWM Rules, 2016 to prohibit percolation of leachate into the ground/soil. Ground water and surface water samples are tested regularly through laboratory, approved by the MoEF and the results show that there is no contamination due to heavy metals and toxic contaminants.
(x)	Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water.	Necessary due care is taken for not accepting such hazardous material at site.
(xi)	Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.	No hazardous waste is generated during construction phase.
(xii)	The diesel generator sets to be used during construction phase should be low Sulphur diesel type and should confirm to Environment Protection Rules prescribed for air and noise emission standards.	Diesel generator sets are not used during construction phase, as regular electricity is available at site. DG set at site as standby unit and temporarily used is confirming noise & air emissions standards under EP Rules.

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
(xiii)	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.	Noted.
(xiv)	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours	Necessary and due care is being taken.

Action plan for compliance to General Conditions for Post Construction/Operation Phase of Environment Clearance.

Sr.No	General Condition for Post Construction/Operation Phase	Proposed Action Plan
(i)	Project proponent shall ensure completion of green belt development prior to functioning of MSW processing. Prior certification from appropriate authority shall be obtained.	Plantation in green belt development is being done on progressive basis and majority of the same is already done.
(ii)	A complete set of all the documents submitted to SEAC & SEIAA should be forwarded to the Local authority and MPCB.	Complied.
(iii)	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.	Noted.
(iv)	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	We have qualified staff for environment monitoring at site as per MSW rules and as per our concession agreement. Environment cell as per EC has been formed.
(v)	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-	The cost of environmental monitoring and management is included in tipping fees & which are being paid to the operator of the project.

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
	wise breaks-up. These costs 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.	
	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 .	Complied.
(vii)	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 15 th June & 15 th December of each calendar year.	Complied.
(viii)	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.	A copy of Environment Clearance is hosted on the operator's Website as per requirement.
(ix)	In the event of the failure of any	Noted.

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
	pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restored until the desired efficiency has been achieved.	
(x)	Regular monitoring of the air quality including SPM & SO ₂ levels both in work zone and ambient air shall be carried out in and around the power plant and record shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.	Currently air monitoring at locations identified in EIA is being carried out as per the frequency defined in SWM Rules, 2016. The reports are submitted to MPCB by the operator.
(xi)	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 and NO _x (ambient levels as well as stack emissions) or critical sector 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.	Air monitoring data is displayed on operator's Website www.antonylara.in as per requirement of the said clause. Monitoring results are sent to the said Departments as required in the said clause. Latest Monitoring results are displayed at the location within the site at the main entrance of the project site.
(xii)	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-mail) to the respective Regional Office of	Complied.

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
	MoEF, the respective Zonal Office of CPCB and the SPCB.	
(xiii)	The environmental statement for each financial year ending 31 st 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-mail.	Complied. Environment Statement is submitted, and the same report is displayed on the operator's website www.antonylara.in .

The half yearly compliance report on Environmental Clearance issued vide no. SEIAA-EC-0000000475,dtd. 29.10.2018: for DECEMBER 2023

00-2023is as below.

Sr. No.	Specific Conditions	Status of compliance/ action plan for compliance
I	PP to submit their plan for segregation of waste in the city.	In this context, BMC had already submitted the Compliance of these conditions to SEIAA vide No. Dy.Ch.E./1722/SWM/Project dtd. 25.07.2017. The copy of the same was also enclosed as Annexure –A in the half yearly compliance report submitted by BMC to you vide letter U/No. Dy.Ch.E./3770/SWM/Project, Dated 23.01.2019.
II	PP to submit copy of compliance of issues raised during the public hearing.	
III	Earlier SEAC-I observation compliance to be submitted: Since the extended cell does compromise the shallow water body on eastern side of premises, proper drainage plan to ensure that storm water will properly led away so as not to stagnate low line areas shall be prepared and included in the EIA report.	
IV	PP to ensure the compliance of	

	points raised by earlier SEAC in their meetings and site visit report dated 17.02.2016.	
V	PP to ensure compliance of the conditions stipulated by MCZMA and CRZ clearance.	
VI	PP to prepare comprehensive drainage plan to ensure proper carrying and disposal of storm water with out contamination.	
VII	PP to take utmost precautions to prevent the nuisance to nearby public from the activities carried out on site.	
VIII	PP to make traffic plan in such a way that no traffic congestion shall happen on the nearby roads which can affect traffic flow.	
IX	No burning is allowed on site; PP to take adequate precautions to prevent the fire incidents by way of administrative and safety controls like prevention of unauthorized entry, smoking etc.	
X	PP to ensure that it will process waste generated from CRZ area only.	Noted
XI	PP shall ensure compliance of MCZMA conditions.	In this context, BMC had already submitted the Compliance of MCZMA conditions to SEIAA vide No. Dy.Ch.E./1722/SWM/Project dtd. 25.07.2017. The copy of the same was also enclosed as Annexure –A in the half yearly compliance report submitted by BMC to you vide letter U/No. Dy.Ch.E./3770/SWM/Project, Dated 23.01.2019.
Sr. No.	General conditions	Status of compliance
I	PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP	Arrangement of Leachate collection through HDPE pipeline into HDPE lined ponds is provided by the operator. As per the technology, Leachate will be re-circulated into the BLF Cells under controlled conditions by the operator. Leachate Treatment Plant is operational. Leachate

		treatment comprises of two stage biological treatment anaerobic &, aerobic followed by clarification & filtration. The excess Leachate will be treated in the said Leachate Treatment Plant.
II	No additional land shall be used /acquired for any activity of the Project without obtaining proper permission.	As per the directions of Hon. Supreme Court the land admeasuring 141.77 ha. was handed over to BMC by GoM. However, the mangroves land admeasuring 23.36 ha. was retained by GoM. vide notification dtd. 02.04.2012. SEIAA issued Environment Clearance for processing of MSW in 65.96 ha. non CRZ area on 05.12.2014. SEIAA issued Environment Clearance for processing of MSW in further 52.45 ha. CRZ –III area (adjacent to 65.96 ha non CRZ area) on 29.10.2018. In case any additional land apart from above is to be used/ acquired for any activity of the project, the due procedure as per law will be followed.
III	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
IV	Proper Housekeeping programmers shall be implemented.	A dedicated team of trained workers is already deployed by the operator to ensure good housekeeping & cleanliness. The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
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.	The compliance of the said condition will be ensured by the operator while carrying out day to day operation at site.
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).	At present the plant electricity requirement is fulfilled with captive power generation unit with backup power supply from MSEDCL & Standby DG set of 125 KVA with adequate stack height.
VII	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	Compliance with the said condition will be ensured by the operator.
VIII	Arrangement shall be made that	Arrangement of separate leachate collection through

	effluent and storm water does not get mixed.	HDPE pipeline into HDPE lined ponds is provided. It is controlled by re-circulation into the landfill BLF Cells. The excess leachate is treated in the leachate treatment plant, and it is not allowed to mix with storm water. Storm water drainage galleries around the BLF Cells have been constructed for the management of rainwater.
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.	Monthly Ground water quality is being monitored as prescribed in SWM Rules, 2016. The results are submitted to MPCB by the operator. The sampling & analysis is being carried out by the operator with the help of laboratory approved by MoEF.
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.	Noise monitoring as per MSW Rules is being done by the operator. The compliance of the said condition is ensured by the operator while carrying out day to day operation at site.
XI	The overall noise levels in and around the plant 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 conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.	Noise monitoring as per MSW Rules is being done by the operator. The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
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	Plantation along the periphery of the site is being done on a progressive basis by the operator.
XIII	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.

	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.	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
XV	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
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	The said condition is not applicable to this project as the project involves processing MSW.
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.	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
XVIII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Operator already has the Environment Health & Safety Cell and the compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
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	Cost of environmental monitoring and management is included in tipping fees which are being paid to the operator of the project.

	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	The said condition is complied.
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 1 st June & 1 st December of each calendar year.	The said condition is complied.
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.	The said condition is complied.
XX III	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	Air monitoring data is being displayed on the operator's Website, www.antonylara.in as per requirement of the said condition. Monitoring results are being sent to the said Departments as per the requirement of the said condition. The latest Monitoring results are being displayed at the main entrance of the project site.

	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.	The said condition is complied.
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.	Noted.

Submitted please.

Encl:- As above.

Yours faithfully,

 30-1-2024.
 Chief Engineer (SWM) Project (11)

As per the general conditions number (XXIII) stipulated in SEIAA-EC-0000000475 dated 29 October 2018 and general conditions number (xi) stipulated in EC dated 5th December 2014 for post construction/operation phase, the details of

Air pollution levels monitored at ISWM Project site, Kanjur, are as follows.

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded July2023	Remarks for the values recorded July2023
1	Sulphur Dioxide	80 µg/m ³ (24 hrs)	19.90 µg/m ³ (24 hrs)	Within limit
2	Nitrogen Dioxide	80 µg/m ³ (24 hrs)	27.54 µg/m ³ (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 µg/m ³ (24 hrs)	54.58µg/m ³ (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 µg/m ³ (24 hrs)	43.87µg/m ³ (24 hrs)	Within limit
5	Ozone	8 hoursaverage: 100 µg/m ³	8 hoursaverage: 27.28µg/m ³	Within limit
6	Lead	1.0 µg/m ³ (24 hrs)	<0.01µg/m ³ (24 hrs)	Within limit
7	Carbon Monoxide	1-houraverage: 4 mg/m ³	24 hours 1-hourlyaverage: <0.4mg/m ³	Within limit
8	Ammonia	400 µg/m ³ (24 hrs)	4.46µg/m ³ (24 hrs)	Within limit
9	Benzene	5 µg/m ³ (annual)	<2.1µg/m ³	Within limit
10	Benzo(α)Pyrene	1 ng/m ³ (annual)	<0.1 ng/m ³	Within limit
11	Arsenic	6 ng/m ³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m ³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m ³)	<0.5µg/m ³	Within limit

* As per Authorization Dated 23.08.2022



As per the general conditions number (XXIII) stipulated in SEIAA-EC-0000000475 dated 29 October 2018 and general conditions number (xi) stipulated in EC dated 5th December 2014 for post construction/operation phase, the details of Air pollution levels monitored at ISWM Project site, Kanjur, are as follows.

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded August 2023	Remarks for the values recorded August 2023
1	Sulphur Dioxide	80 µg/m ³ (24 hrs)	18.36 µg/m ³ (24 hrs)	Within limit
2	Nitrogen Dioxide	80 µg/m ³ (24 hrs)	28.32 µg/m ³ (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 µg/m ³ (24 hrs)	54.58 µg/m ³ (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 µg/m ³ (24 hrs)	33.87 µg/m ³ (24 hrs)	Within limit
5	Ozone	8 hours average: 100 µg/m ³	8 hours average: 28.93 µg/m ³	Within limit
6	Lead	1.0 µg/m ³ (24 hrs)	<0.01 µg/m ³ (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m ³	24 hours 1-hourly average: <0.4mg/m ³	Within limit
8	Ammonia	400 µg/m ³ (24 hrs)	4.62 µg/m ³ (24 hrs)	Within limit
9	Benzene	5 µg/m ³ (annual)	<2.1 µg/m ³	Within limit
10	Benzo(α)Pyrene	1 ng/m ³ (annual)	<0.1 ng/m ³	Within limit
11	Arsenic	6 ng/m ³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m ³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m ³)	<0.5 µg/m ³	Within limit

* As per Authorization Dated 23.08.2022



As per the general conditions number (XXIII) stipulated in SEIAA-EC-0000000475 dated 29 October 2018 and **general** conditions number (xi) stipulated in EC dated 5th December 2014 for post construction/operation phase, the details of Air pollution levels monitored at ISWM Project site, Kanjur, are as follows.

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded September 2023	Remarks for the values recorded September 2023
1	Sulphur Dioxide	80 µg/m ³ (24 hrs)	19.76 µg/m ³ (24 hrs)	Within limit
2	Nitrogen Dioxide	80 µg/m ³ (24 hrs)	28.58 µg/m ³ (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 µg/m ³ (24 hrs)	52.60 µg/m ³ (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 µg/m ³ (24 hrs)	32.89 µg/m ³ (24 hrs)	Within limit
5	Ozone	8 hours average: 100 µg/m ³	8 hours average: 27.25 µg/m ³	Within limit
6	Lead	1.0 µg/m ³ (24 hrs)	<0.01 µg/m ³ (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m ³	24 hours 1-hourly average: <0.4 mg/m ³	Within limit
8	Ammonia	400 µg/m ³ (24 hrs)	5.37 µg/m ³ (24 hrs)	Within limit
9	Benzene	5 µg/m ³ (annual)	<2.1 µg/m ³	Within limit
10	Benzo(α)Pyrene	1 ng/m ³ (annual)	<0.1 ng/m ³	Within limit
11	Arsenic	6 ng/m ³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m ³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m ³)	<0.5 µg/m ³	Within limit

* As per Authorization Dated 23.08.2022



As per the general conditions number (XXIII) stipulated in SEIAA-EC-0000000475 dated 29 October 2018 and **general** conditions number (xi) stipulated in EC dated 5th December 2014 for post construction/operation phase, the details of Air pollution levels monitored at ISWM Project site, Kanjur, are as follows.

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded October 2023	Remarks for the values recorded October 2023
1	Sulphur Dioxide	80 µg/m ³ (24 hrs)	20.07µg/m ³ (24 hrs)	Within limit
2	Nitrogen Dioxide	80 µg/m ³ (24 hrs)	27.83 µg/m ³ (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 µg/m ³ (24 hrs)	51.70µg/m ³ (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 µg/m ³ (24 hrs)	32.29µg/m ³ (24 hrs)	Within limit
5	Ozone	8 hours average: 100 µg/m ³	8 hours average: 27.03µg/m ³	Within limit
6	Lead	1.0 µg/m ³ (24 hrs)	<0.01 µg/m ³ (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m ³	24 hours 1-hourly average: <0.4 mg/m ³	Within limit
8	Ammonia	400 µg/m ³ (24 hrs)	4.68µg/m ³ (24 hrs)	Within limit
9	Benzene	5 µg/m ³ (annual)	<2.1 µg/m ³	Within limit
10	Benzo(α)Pyrene	1 ng/m ³ (annual)	<0.1 ng/m ³	Within limit
11	Arsenic	6 ng/m ³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m ³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m ³)	<0.5 µg/m ³	Within limit

* As per Authorization Dated 23.08.2022



As per the general conditions number (XXIII) stipulated in SEIAA-EC-0000000475 dated 29 October 2018 and general conditions number (xi) stipulated in EC dated 5th December 2014 for post construction/operation phase, the details of

Air pollution levels monitored at ISWM Project site, Kanjur, are as follows.

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded November 2023	Remarks for the values recorded November 2023
1	Sulphur Dioxide	80 µg/m ³ (24 hrs)	18.75 µg/m ³ (24 hrs)	Within limit
2	Nitrogen Dioxide	80 µg/m ³ (24 hrs)	27.52 µg/m ³ (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 µg/m ³ (24 hrs)	51.74 µg/m ³ (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 µg/m ³ (24 hrs)	31.25 µg/m ³ (24 hrs)	Within limit
5	Ozone	8 hours average: 100 µg/m ³	8 hours average: 26.30 µg/m ³	Within limit
6	Lead	1.0 µg/m ³ (24 hrs)	<0.01 µg/m ³ (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m ³	24 hours 1-hourly average: <0.4 mg/m ³	Within limit
8	Ammonia	400 µg/m ³ (24 hrs)	5.04 µg/m ³ (24 hrs)	Within limit
9	Benzene	5 µg/m ³ (annual)	<2.1 µg/m ³	Within limit
10	Benzo(α)Pyrene	1 ng/m ³ (annual)	<0.1 ng/m ³	Within limit
11	Arsenic	6 ng/m ³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m ³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m ³)	<0.5 µg/m ³	Within limit

* As per Authorization Dated 23.08.2022



As per the general conditions number (XXIII) stipulated in SEIAA-EC-0000000475 dated 29 October 2018 and general conditions number (xi) stipulated in EC dated 5th December 2014 for post construction/operation phase, the details of

Air pollution levels monitored at ISWM Project site, Kanjur, are as follows.

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded December 2023	Remarks for the values recorded December 2023
1	Sulphur Dioxide	80 µg/m ³ (24 hrs)	19.42µg/m ³ (24 hrs)	Within limit
2	Nitrogen Dioxide	80 µg/m ³ (24 hrs)	28.25 µg/m ³ (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 µg/m ³ (24 hrs)	53.47 µg/m ³ (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 µg/m ³ (24 hrs)	32.40 µg/m ³ (24 hrs)	Within limit
5	Ozone	8 hoursaverage: 100 µg/m ³	8 hoursaverage: 26.30µg/m ³	Within limit
6	Lead	1.0 µg/m ³ (24 hrs)	<0.01 µg/m ³ (24 hrs)	Within limit
7	Carbon Monoxide	1-houraverage: 4 mg/m ³	24 hours 1-hourlyaverage: <0.4mg/m ³	Within limit
8	Ammonia	400 µg/m ³ (24 hrs)	4.42µg/m ³ (24 hrs)	Within limit
9	Benzene	5 µg/m ³ (annual)	<2.1 µg/m ³	Within limit
10	Benzo(α)Pyrene	1 ng/m ³ (annual)	<0.1 ng/m ³	Within limit
11	Arsenic	6 ng/m ³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m ³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m ³)	<0.5 µg/m ³	Within limit

* As per Authorization Dated 23.08.2022

