MUNICIPAL CORPORATION OF GREATER MUMBAI

CHIEF ENGINEER (SOLID WASTE MANAGEMENT) DEPTT.

Dy. Ch. E./ 1957 /SWM/Project Date

Office of the Chief Engineer (SWM) Municipal Khatav Market building, 3rd floor, Khatav Wadi Sleater Road, Grant Road (W), Mumbai-400007

To,
Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (WZ),
E-5, Kendriya Paryavaran Bhawan,
E-5 Arera Colony, Link Road-3,
Ravishankar Nagar,
Bhopal – 462 016

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. Dy.Ch.E./740/SWM/Project, Dated 18.08.2020.

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 till Dec-2020

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 MCGM.	MCGM has maintained a buffer zone of 500 meters around the project perimeter in existing Development Plan. MCGM is taking necessary steps for incorporation of the said buffer zone as 'No Development Zone' in the Development Plan of MCGM 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 (GHG) like methane needs to be controlled so that it does not contaminate the atmosphere. It should be ensured that methane generated if fully utilized for power generation/flaring and not let into atmosphere.	Complied. 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

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
	cicarance	generated from BLF Cells is used for captive power generation.
4	The leachate generating from the cells will have to be systematically collected and treated to reduce BOD levels to allowable limits. Under no circumstances should the leachate be allowed to contaminate the surrounding areas, particularly the mangrove forest on the south western and eastern side of the cell.	in impervious HDPE lined ponds from BLF-Cells are already operational. Leachate Treatment Plant is operational. Leachate treatment comprises of two stage biological treatment anaerobic &, aerobic followed by clarification & filtration.
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.	Complied. On the basis of details of wind direction & wind speed from Wind Rose 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. 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.
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 project site are monitoring the protection & preservation of

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
		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 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
*	the dumpsite.	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 2013.	The said condition is not applicable to this project as the project involves processing of MSW.
12	The proponent should ensure that TSDF fulfills all the provision of Hazardous Waste (Management & Handling) Rules 2003 & the design of landfill is as per guidelines of CPCB with proper leachate collection arrangement.	The site is designed as per the guide lines 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.

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
		The provisions for HW(M&H) Rules 2003 are not applicable as site is not accepting any Hazardous Waste.
13	The TSDF should only handle the waster 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
	7	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. MCGM 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 TCLP test 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 MSW(M&H) Rules, 2000/ SWM Rules, 2016 through the agency approved by MoEF.

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
		As regards to TCLP test the parameters which are necessary as per MSW rules are analyzed with the 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.com . 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 side 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 of MSW Only. No HW /H Chemicals are received to this site. 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 &

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
		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 of MSW only. There is no furnace area in the current project plan.
24	Proper housekeeping programs shall be implemented.	Dedicated team of trained workers is already deployed to ensure the 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 set. (if applicable) Arrangement shall be made that effluent and storm water does not get mixed.	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. 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. Storm water drainage galleries around the BLF Cells have been constructed for the management of rain water.
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 MSW (M&H) Rules, 2000/ 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	Noise levels are arising from

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
	plant shall be kept well within the standards by providing noise control measures including acoustic hoods. silencers, enclosures, etc. on all sources.	movements of trucks, dozers. These machineries are fitted with silencer 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 MSW (M&H) Rules-2000 as per the decision in Consent Appraisal Committee meeting issued & 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.

Report on compliance of general conditions for constructions phase stipulated in Environment Clearance

Sr. No	Condition under Environmental Clearance	Status of Compliance
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 checkup has 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.	3)
iii.	The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed off to the approved	All required provisions are in place.

Sr. No	Condition under Environmental Clearance	Status of Compliance
	sites for land filling after recovering recyclable	
	material.	
iv.	Disposal of muck during construction phase	네
	should not create any adverse effect on the	
	neighboring communities and be disposed	0
	taking the necessary precautions for general	SOURCE STATE OF THE STATE OF TH
	safety and health aspects of people, only in	ST 1
	approved sites with the approval of	
V.	competent authority. Arrangement shall be made that waste water	Noncessant dualiness is used to
	and storm water do not get mixed.	Necessary drainage is made to ensure that no waste water and
	and storm water do not get mixed.	storm water is mixed. Storm water
		drainage galleries have been
		constructed for the management
		of rain water.
		orrain nateri
vi.	All the top soil excavated during construction	In case of landfill site, mostly the
	activities should be stored for use in	construction activity involves filling
	horticulture / landscape development within	& compaction of soil and not
	the project site.	excavation. However necessary
		precaution to preserve top soil for
		reuse will be taken.
vii.	Additional soil for leveling of the proposed site	There is no additional soil filling
×	shall be generated within the site (to the	material available on the present
	extent possible) so that natural drainage	site, as the site is situated in low
	system of the area is protected and improved.	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	The plantation program for Green
	considering CPCB guidelines including	Belt development is already
	selection of plant species and in consultation	undertaken & it is under
	with the local DFO/Agriculture Dept.	progressive implementation.
ix.	Soil and ground water samples will be tested	HDPE Liners are spread at landfill
	to ascertain that there is no threat to ground	base as per design & provisions of
1	water quality by leaching of heavy metals and	MSW (M&H) Rules,2000 and
	other toxic contaminants.	SWM, Rules 2016 to prohibit
	2	percolation of leachate into the
		ground/soil.
		Ground water and surface water
		samples are tested regularly
	1.	through laboratory, approved by
		the MoEF and the results show that there is no contamination due
		to heavy metals and toxic contaminants.
х.	Construction spoils, including bituminous	Necessary due care is taken for not
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Sr. No	Condition under Environmental Clearance	Status of Compliance
	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.	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.
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.

Compliance to General Conditions for Post Construction/ Operation phase stipulated in Environment Clearance

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
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	We are having qualified staff for environment monitoring at site as

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
	implementation of the stipulated environmental safeguards.	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-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.	and management is included in tipping fees & which are being paid to the operator of the project.
vi.	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.maharashta.gov.in.	1 (2005-0-2000) • (2000) (2000) (0)
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 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 achieve.	Noted.
х.	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	Currently air monitoring at locations identified in EIA is being carried out as per the frequency defined in MSW (M&H) Rules, 2000/ SWM Rules, 2016. The

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
	stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.	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 NOx (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.com 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 MoEF, the respective Zonal Office of CPCB and the SPCB.	Complied.
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.	Environment Statement is submitted, and the same report is displayed on operator's website www.antonylara.com.

The half yearly compliance report on Environmental Clearance issued vide no. SEIAA-EC-0000000475, dtd. 29.10.2018 is as below:-

Sr.No	Specific Conditions	Status of compliance	
I.	PP to submit their plan for segregation of waste in the city.	In this context, MCGM had already submitted the Compliance of these	
II.	PP to submit copy of compliance of issues raised during the public hearing.	conditions to SEIAA vide No. Dy.Ch.E./1722/SWM/Project dtd.	
III.	Earlier SEAC-I observation compliance to be	25.07.2017.	

Sr.No	Specific Conditions	Status of compliance
	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	submitted by MCGM to you vide
	properly led away so as not to stagnate low	
	line areas shall be prepared and included in	1
	the EIA report.	Dated 23.01.2019
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	161
	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	
42	adequate precautions to prevent the fire	
	incidents by way of administrative and safety	,
	controls like prevention of unauthorized	
	entry, smoking etc.	
Χ.	PP to ensure that it will process waste	Noted
	generated from CRZ area only.	
XI.	PP shall ensure compliance of MCZMA	In this context, MCGM had already
	conditions.	submitted the Compliance of
	, and the second	MCZMA conditions to SEIAA vide
	*	No. Dy.Ch.E./1722/SWM/Project
		dtd. 25.07.2017.
1		The copy of the same was also
		enclosed as Annexure –A in the
		half yearly compliance report
		submitted by MCGM 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	

Sr.No.	General Conditions	Status of compliance
Sr.No.	No additional land shall be used /acquired for any activity of the Project without obtaining proper permission.	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. As per the directions of Hon. Supreme Court the land admeasuring 141.77 ha. was
		handed over to MCGM 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.	Dedicated team of trained workers is already deployed by the operator to ensure the 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	The compliance of the said

Sr.No.	General Conditions	Status of compliance
	control system adopted by the unit, the unit	
	shall be immediately put out of operation and	operator while carrying out day to
	shall not be restarted until the desired	day operation at site.
	efficiency has been achieve.	3 9
VI.	A stack of adequate height based on DG set	At present the plant electricity
,	capacity shall be provided for control and	requirement is fulfilled with
	dispersion of pollutant from DG set. (If	captive power generation unit with
	applicable).	backup power supply from MSEDCL
	*	&. Standby DG set of 125 KVA with
		adequate stack height.
VII.	A detailed scheme for rainwater harvesting	The compliance of the said
	shall be prepared and implemented to	condition will be ensured by the
	recharge ground water.	operator.
VIII.	Arrangement shall be made that effluent and	Arrangement of separate leachate
ll.	storm water does not get mixed.	collection through HDPE pipeline
	1 × × × × ×	into HDPE lined ponds is provided.
	76	It is controlled by re-circulation
		into the landfill BLF Cells. The
	i i	excess leachate is treated in the
	× 1	leachate treatment plant and it is
	11	not allowed to mix with storm water.
		Storm water drainage galleries
		around the BLF Cells have been
		constructed for the management
	-	of rain water.
IX.	Periodic monitoring of ground water shall be	Monthly Ground water quality is
	undertaken and results analyzed to ascertain	being monitored as prescribed in
	any change in the quality of water. Results shall	MSW (M&H) Rules, 2000/ SWM
	be regularly submitted to the Maharashtra	Rules, 2016. The results are
	Pollution Control Board.	submitted to MPCB by the
		operator.
	2	The sampling & analysis is being
		carried out by the operator with
	a 1	the help of laboratory approved by
		MoEF.
X.	Noise level shall be maintained as per	Noise monitoring as per MSW
	standards. For people working in the high noise	Rules is being done by operator.
	area, requisite personal protective equipment	The compliance of the said
	like earplugs etc. shall be provided.	condition will be ensured by the
		operator while carrying out day to
		day operation at site.
XI.	The overall noise levels in and around the plant	Noise monitoring as per MSW
	are shall be kept well within the standards by	Rules is being done by operator.
	providing noise control measures including	The compliance of the said
1	acoustic hoods, silencers, enclosures, etc. on all	condition is being ensured by the
	sources of noise generation. The ambient noise	operator while carrying out day to
	levels shall confirm to the standards prescribed	day operation at site.

Sr.No.	General Conditions	Status of compliance *
	under Environment	
XII.	(Protection) Act, 1986 Rules, 1989. 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 progressive basis by the operator. Dy. Conservator of Forest is requested by MCGM for guidance regarding development & maintenance of Green Belt around the plant periphery and regarding selection of plant species as per guidelines of CPCB in that behalf.
		After receipt of guidance the operator will be informed to implement the same during development & maintenance of Green belt around the plant periphery.
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	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
	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 of 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.

Sr.No.	General Conditions	Status of compliance
XVIII.	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Environment Health & Safety Cell
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	Cost of environmental monitoring and management is included in tipping fees which are being paid to the operator of the project.
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.
	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	Air monitoring data is being displayed on operator's Website www. Antony lara.com. as per requirement of the said condition. Monitoring results are being sent to the said Departments as per requirement of the said condition.

Sr.No.	General Conditions	Status of compliance
	namely; SPM, RSPM. SO2, NOx (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.	Latest Monitoring results are being displayed at the main entrance of the project site.
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 (copies enclosed) 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,

Chief Engineer (Solid Waste Management) 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 July 2020	Remarks for the values recorded July 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	18.54 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	25.86 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	63.22 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	41.88 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 20.35 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	<0.01 μg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	11.74 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	< 2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m ³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

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 2020	Remarks for the values recorded August 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.80 µg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	27.60 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	68.64 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	39.01 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 20.85 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	<0.01 µg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	10.23 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m ³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

^{*} As per Authorization Dated 19.08.2017

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 2020	Remarks for the values recorded September 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	18.80 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	29.00 μg/m3 (24 hrs)	Within limit
3	Particulate matter,	100 μg/m3 (24 hrs)	73.71 µg/m3 (24 hrs)	Within limit
4	Particulate matter,	60 μg/m3 (24 hrs)	36.46 µg/m3 (24 hrs)	Within limit
5	Oʻzone	8 hours average: 100 μg/m3	8 hours average: 23.89 μg/m3	Within limit
6	Lead	1.0 µg/m3 (24 hrs)	<0.01 μg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	14.09 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

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.

Remarks for the Sr. Permissible levels as Values Recorded Parameters * values recorded per SWM Rules, 2016 October 2020 No. October 2020 17.84 µg/m3 (24 hrs) Within limit Sulphur Dioxide 80 µg/m3 (24 hrs) 1 29.05 µg/m3 (24 hrs) Within limit Nitrogen Dioxide 80 µg/m3 (24 hrs) 2 Particulate matter, 76.07 µg/m3 (24 hrs) Within limit 3 100 µg/m3 (24 hrs) PM₁₀ Particulate matter, 60 µg/m3 (24 hrs) 43.96 µg/m3 (24 hrs) Within limit 4 PM_{2.5} 8 hours average: 8 hours average: Within limit Ozońe 5 24.88 µg/m3 100 μg/m3 <0.01 µg/m3 (24 hrs) Within limit 6 Lead 1.0 µg/m3 (24 hrs) 24 hours 1-hourly 1-hour average: average: Within limit 7 Carbon Monoxide 4 mg/m3 <0.4 mg/m3 Within limit 10.76 µg/m3 (24 hrs) 8 Ammonia 400 µg/m3 (24 hrs) <2.1 μg/m3 Within limit 5 μg/m3 (annual) Benzene 9 <0.1 ng/m³ Within limit 10 Benzo(a)Pyrene 1 ng/m³ (annual) 6 ng/m³ (annual) <0.5 ng/m³ Within limit Arsenic 11 Nickel 20 ng/m³ (annual) <0.5 ng/m³ Within limit 12 Not to exceed 25% of the **Lower Explosive Limit** $<0.5 \mu g/m^3$ Within limit 13 Methane (equivalent to 650 mg/m^3)

^{*} As per Authorization Dated 19.08.2017

As per the general conditions number (XXIII) stipulated in SEIAA-EC-000000475 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.

Remarks for the Sr. Permissible levels as Values Recorded Parameters * values recorded November 2020 per SWM Rules, 2016 No. November 2020 1 Sulphur Dioxide 80 µg/m3 (24 hrs) 8.65 µg/m3 (24 hrs) Within limit Within limit 2 Nitrogen Dioxide 80 μg/m3 (24 hrs) 24.14 µg/m3 (24 hrs) Particulate matter, 3 100 μg/m3 (24 hrs) 69.13 µg/m3 (24 hrs) Within limit PM₁₀ Particulate matter, 60 µg/m3 (24 hrs) 40.34 µg/m3 (24 hrs) Within limit PM_{2.5} 8 hours average: 8 hours average: 5 Ozone Within limit 100 µg/m3 21.60 µg/m3 <0.01 µg/m3 (24 hrs) 6 Lead 1.0 µg/m3 (24 hrs) Within limit 24 hours 1-hourly 1-hour average: average: 7 Carbon Monoxide Within limit 4 mg/m3 <0.4 mg/m3 10.00 µg/m3 (24 hrs) Within limit 8 Ammonia 400 µg/m3 (24 hrs) Benzene 5 μg/m3 (annual) <2.1 µg/m3 Within limit 1 ng/m³ (annual) 10 Benzo(α)Pyrene <0.1 ng/m³ Within limit 6 ng/m³ (annual) <0.5 ng/m³ Within limit 11 Arsenic 20 ng/m³ (annual) <0.5 ng/m³ Within limit 12 Nickel Not to exceed 25% of the **Lower Explosive Limit** Methane Within limit 13 <0.5 µg/m³ (equivalent to 650 mg/m^3)

^{*} As per Authorization Dated 19.08.2017

MUNICIPAL CORPORATION OF GREATER MUMBAI

CHIEF ENGINEER (SOLID WASTE MANAGEMENT) DEPTT.

Dy. Ch. B.J 1957 /SWM/Project Date

Office of the Chief Engineer (SWM) Municipal Khatav Market building, 3rd floor, Khatav Wadi Sleater Road, Grant Road (W), Mumbai-400007

To,
Scientist & Incharge,
Central Pollution Control Board,
Parivesh Bhavan,
Opposite VMC ward office No.10,
Shubanpura,
Vadodra- 390 023

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:

- Revised Environmental Clearance issued by State Level Environmental Impact Assessment Authority (SEIAA) vide no. SEAC-2014/CR-162/TC2 dtd 05.12.2014.
- Environment Clearance issued by State Level Environment Impact Assessment Authority (SEIAA) vide no. SEIAA-EC-0000000475, dtd. 29.10.2018.
- Half yearly compliance report submitted by MCGM vide letter U/No. No. Dy.Ch.E./740/SWM/Project, Dated 18.08.2020.

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 till Dec-2020

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 MCGM.	MCGM has maintained a buffer zone of 500 meters around the project perimeter in existing Development Plan. MCGM is taking necessary steps for incorporation of the said buffer zone as 'No Development Zone' in the Development Plan of MCGM 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 (GHG) like methane needs to be controlled so that it does not contaminate the atmosphere. It should be ensured that methane generated if fully utilized for power generation/flaring and not let into atmosphere.	Complied. 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

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
		generated from BLF Cells is used for captive power generation.
4	The leachate generating from the cells will have to be systematically collected and treated to reduce BOD levels to allowable limits. Under no circumstances should the leachate be allowed to contaminate the surrounding areas, particularly the mangrove forest on the south western and eastern side of the cell.	Arrangements for leachate collection in impervious HDPE lined ponds from BLF-Cells are already operational. Leachate Treatment Plant is operational. Leachate treatment comprises of two stage biological treatment anaerobic &, aerobic followed by clarification & filtration. At present leachate collected is re-circulated in BLF Cells under controlled condition.
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.	Complied. On the basis of details of wind direction & wind speed from Wind Rose 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. 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.
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 project site are monitoring the protection & preservation of

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
		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 2013.	The said condition is not applicable to this project as the project involves processing of MSW.
12	The proponent should ensure that TSDF fulfills all the provision of Hazardous Waste (Management & Handling) Rules 2003 & the design of landfill is as per guidelines of CPCB with proper leachate collection arrangement.	The site is designed as per the guide lines 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

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
		taken into consideration. The provisions for HW(M&H) Rules 2003 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,
14		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. MCGM 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.	The second secon
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 TCLP test 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 MSW(M&H) Rules, 2000/ SWM Rules, 2016 through the agency approved by

30000	Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
		Clearance .	MoEF.
		9	As regards to TCLP test the parameters which are necessary as per MSW rules are analyzed with the 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.com . 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 side 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 of MSW Only. No HW /H Chemicals are received to this site.
			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

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
91		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 of MSW only. There is no furnace area in the current project plan.
24	Proper housekeeping programs shall be implemented.	Dedicated team of trained workers is already deployed to ensure the 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 set. (if applicable) Arrangement shall be made that effluent and storm water does not get mixed.	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. 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. Storm water drainage galleries around the BLF Cells have been constructed for the management of rain water.
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 MSW (M&H) Rules, 2000/ 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.

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
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 silencer 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 MSW (M&H) Rules-2000 as per the decision in Consent Appraisal Committee meeting issued & 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.

Report on compliance of general conditions for constructions phase stipulated in Environment Clearance

Sr. No	Condition under Environmental Clearance	Status of Compliance
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 checkup has 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.	
III.	The solid waste generated should be properly collected and segregated. Dry/inert solid	

Sr. No	Condition under Environmental Clearance	Status of Compliance
	waste should be disposed off to the approved sites for land filling after recovering recyclable material.	
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.	followed for disposal of muck (if any) generated during construction.
V	Arrangement shall be made that waste water and storm water do not get mixed.	Necessary drainage is made to ensure that no waste water and storm water is mixed. Storm water drainage galleries have been constructed for the management of rain water.
vi.	All the top soil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.	In case of landfill site, mostly the construction activity involves filling & compaction of soil and not excavation. However necessary precaution to preserve top soil for reuse will be taken.
∨II.	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 MSW (M&H) Rules,2000 and 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
	90 10 10 10 10 10 10 10 10 10 10 10 10 10	that there is no contamination due to heavy metals and toxic contaminants.

Sr. No	Condition under Environmental Clearance	Status of Compliance
х.	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.
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.

Compliance to General Conditions for Post Construction/ Operation phase stipulated in Environment Clearance

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
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	We are having qualified staff for

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
	with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	the contract of the contract o
V.	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-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.	and management is included in tipping fees & which are being paid to the operator of the project.
vi.	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.maharashta.gov.in.	
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 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 achieve.	Noted.
х.	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	Currently air monitoring at locations identified in EIA is being carried out as per the frequency defined in MSW (M&H) Rules,

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
	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.	2000/ 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 NOx (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	Air monitoring data is displayed on operator's Website www.antonylara.com 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.
	domain.	
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 MoEF, the respective Zonal Office of CPCB and the SPCB.	Complied.
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.	Environment Statement is submitted, and the same report is displayed on operator's website www.antonylara.com.

The half yearly compliance report on Environmental Clearance issued vide no. SEIAA-EC-0000000475, dtd. 29.10.2018 is as below:-

Sr.No	Specific Conditions	Status of compliance
I.	PP to submit their plan for segregation of	In this context, MCGM had already
	waste in the city.	submitted the Compliance of these
II.	PP to submit copy of compliance of issues raised during the public hearing.	conditions to SEIAA vide No. Dy.Ch.E./1722/SWM/Project dtd.

Sr.No	Specific Conditions	Status of compliance
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.	25.07.2017. The copy of the same was also enclosed as Annexure –A in the half yearly compliance report submitted by MCGM to you vide letter U/No. Dy.Ch.E./3770/SWM/Project, Dated 23.01.2019
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.	
Χ.	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, MCGM 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 MCGM to you vide letter U/No. Dy.Ch.E./3770/SWM/Project,

Sr.No. General Conditions Sta		Status of compliance
l.	PP to achieve Zero Liquid Discharge; PP shall ensure that there is no increase in the effluent load to CETP	

Sr.No.	General Conditions	Status of compliance
		As per the technology Leachate will be re-circulated into the BLF Cells
		under controlled conditions by the operator.
	Dr. Comments of the Comments o	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	As per the directions of Hon. Supreme Court the land
	proper permission.	admeasuring 141.77 ha. was
		handed over to MCGM 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.
		Tonowed.
III.	PP to take utmost precaution for the health	The compliance of the said
	and safety of the people working in the unit as	condition is being ensured by the
	also for protecting the environment.	operator while carrying out day to day operation at site.
IV.	Proper Housekeeping programmers shall be	Dedicated team of trained workers
	implemented.	is already deployed by the operator
		to ensure the good housekeeping & cleanliness.
Y		The compliance of the said
		condition is being ensured by the
		operator while carrying out day to
		day operation at site.

Sr.No.	General Conditions	Status of compliance
V.	In the event of the failure of any pollution	The compliance of the said
	control system adopted by the unit, the unit	condition will be ensured by the
	shall be immediately put out of operation and	operator while carrying out day to
	shall not be restarted until the desired	day operation at site.
	efficiency has been achieve.	
VI.	A stack of adequate height based on DG set	At present the plant electricity
	capacity shall be provided for control and	requirement is fulfilled with
	dispersion of pollutant from DG set. (If	captive power generation unit with
	applicable).	backup power supply from MSEDCL
	12	&. Standby DG set of 125 KVA with
		adequate stack height.
VII.	A detailed scheme for rainwater harvesting	The compliance of the said
	shall be prepared and implemented to	condition will be ensured by the
	recharge ground water.	operator.
VIII.	Arrangement shall be made that effluent and	Arrangement of separate leachate
	storm water does not get mixed.	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.
		Storm water drainage galleries
		around the BLF Cells have been
		constructed for the management
		of rain water.
IX.	Periodic monitoring of ground water shall be	Monthly Ground water quality is
	undertaken and results analyzed to ascertain	being monitored as prescribed in
	any change in the quality of water. Results shall	MSW (M&H) Rules, 2000/ SWM
	be regularly submitted to the Maharashtra	Rules, 2016. The results are
	Pollution Control Board.	submitted to MPCB by the
		operator.
		The sampling & analysis is being
100		carried out by the operator with
		the help of laboratory approved by
X.	Noise level shall be maintained as per	MoEF.
۸.	Noise level shall be maintained as per standards. For people working in the high noise	Noise monitoring as per MSW Rules is being done by operator.
	area, requisite personal protective equipment	The compliance of the said
	like earplugs etc. shall be provided.	condition will be ensured by the
	Frago etc. Silan de provideu,	operator while carrying out day to
		day operation at site.
XI.	The overall noise levels in and around the plant	Noise monitoring as per MSW
	are shall be kept well within the standards by	Rules is being done by operator.
	providing noise control measures including	The compliance of the said
	acoustic hoods, silencers, enclosures, etc. on all	condition is being ensured by the
	sources of noise generation. The ambient noise	operator while carrying out day to

Sr.No.	General Conditions	Status of compliance
	levels shall confirm to the standards prescribed	day operation at site.
	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	Plantation along the periphery of the site is being done on progressive basis by the operator. Dy. Conservator of Forest is requested by MCGM for guidance regarding development & maintenance of Green Belt around the plant periphery and regarding selection of plant species as per guidelines of CPCB in that behalf.
		After receipt of guidance the operator will be informed to implement the same during development & maintenance of Green belt around the plant periphery.
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.	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
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 of 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	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.

Sr.No.	General Conditions	Status of compliance
	plan shall be ensured.	
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 expenditure should reported to the MPCB & this department	Cost of environmental monitoring and management is included in tipping fees which are being paid to the operator of the project.
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.
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	Air monitoring data is being displayed on operator's Website www. Antony lara.com. as per requirement of the said condition. Monitoring results are being sent to the said Departments as per

Sr.No.	General Conditions	Status of compliance
	CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM. SO2, NOx (ambient levels	requirement of the said condition. Latest Monitoring results are being
	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.	displayed at the main entrance of the project site.
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 (copies enclosed) 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,

(Solid Waste Management)

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded July 2020	Remarks for the values recorded July 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	18.54 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	25.86 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	63.22 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	41.88 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 20.35 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	<0.01 μg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	11.74 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

Air pollution levels monitored at ISWM Project site, Kanjur, are as follows. Remarks for the Sr. Permissible levels as Values Recorded Parameters * values recorded No. per SWM Rules, 2016 August 2020 August 2020 1 Sulphur Dioxide 80 µg/m3 (24 hrs) 9.80 µg/m3 (24 hrs) Within limit 2 Nitrogen Dioxide 80 µg/m3 (24 hrs) 27.60 µg/m3 (24 hrs) Within limit Particulate matter, 3 100 µg/m3 (24 hrs) 68.64 µg/m3 (24 hrs) Within limit PM₁₀ Particulate matter, 4 60 µg/m3 (24 hrs) 39.01 µg/m3 (24 hrs) Within limit PM_{2.5} 8 hours average: 8 hours average: 5 Ozone Within limit 100 µg/m3 20.85 μg/m3 6 Lead 1.0 µg/m3 (24 hrs) <0.01 µg/m3 (24 hrs) Within limit 24 hours 1-hourly 1-hour average: 7 **Garbon Monoxide** average: Within limit 4 mg/m3 <0.4 mg/m3 Ammonia 400 µg/m3 (24 hrs) 10.23 µg/m3 (24 hrs) Within limit 9 5 μg/m3 (annual) Benzene <2.1 µg/m3 Within limit 10 Benzo(α)Pyrene 1 ng/m³ (annual) <0.1 ng/m3 Within limit 11 6 ng/m³ (annual) Arsenic <0.5 ng/m3 Within limit Nickel 20 ng/m³ (annual) <0.5 ng/m3 Within limit Not to exceed 25% of the **Lower Explosive Limit** 13 Methane <0.5 µg/m³ Within limit (equivalent to 650 mg/m³)

^{*} As per Authorization Dated 19.08.2017

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded September 2020	Remarks for the values recorded September 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	18.80 µg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	29.00 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	73.71 µg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	36.46 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: . 100 μg/m3	8 hours average: 23.89 μg/m3	Within limit
6	Lead	1.0 µg/m3 (24 hrs)	<0.01 μg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	14.09 µg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

Sr.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded October 2020	Remarks for the values recorded
No.		per svivi naies, 2020	October 2020	October 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	17.84 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	29.05 μg/m3 (24 hrs)	Within limit
3	Particulate matter,	100 μg/m3 (24 hrs)	76.07 µg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	43.96 µg/m3 (24 hrs)	Within limit
5	Ozone '	8 hours average: 100 μg/m3	8 hours average: 24.88 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	<0.01 μg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	10.76 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

Sr.	Parameters *	Permissible levels as	Values Recorded	Remarks for the
No.		per SWM Rules, 2016	November 2020	November 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	8.65 μg/m3 (24 hrs)	. Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	24.14 μg/m3 (24 hrs)	Within limit
3	Particulate matter,	100 μg/m3 (24 hrs)	69.13 µg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	40.34 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 21.60 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	<0.01 µg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	10.00 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

^{*} As per Authorization Dated 19.08.2017

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded July 2020	Remarks for the values recorded July 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	18.54 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	25.86 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	63.22 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	41.88 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 20.35 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	<0.01 µg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	11.74 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 µg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

^{*} As per Authorization Dated 19.08.2017

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Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded August 2020	Remarks for the values recorded August 2020
1	Sulphur Dioxide	80 μg/m3 (24 hṛs)	9.80 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	27.60 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	68.64 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	39.01 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 20.85 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	<0.01 μg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	' Within limit
8	Ammonia	400 μg/m3 (24 hrs)	10.23 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded September 2020	Remarks for the values recorded September 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	18.80 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	29.00 μg/m3 (24 hrs)	Within limit
3	Particulate matter,	100 μg/m3 (24 hrs)	73.71 µg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	36.46 µg/m3 (24 hrs)	Within limit
5	Ozone .	8 hours average: 100 μg/m3	8 hours average: 23.89 μg/m3	, Within limit
6	Lead	1.0 µg/m3 (24 hrs)	<0.01 µg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	14.09 µg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m ³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

^{*} As per Authorization Dated 19.08.2017

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded October 2020	Remarks for the values recorded October 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	17.84 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	29.05 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	76.07 µg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	43.96 μg/m3 (24 hrs)	Within limit
5 '	Ozone	8 hours average: 100 μg/m3	8 hours average: 24.88 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	<0.01 µg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	10.76 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded November 2020	Remarks for the values recorded November 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	8.65 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	24.14 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	69.13 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	40.34 μg/m3 (24 hrs)	Within limit
5	Ożone	8 hours average: 100 μg/m3	8 hours average: 21.60 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	<0.01 µg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	10.00 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

MUNICIPAL CORPORATION OF GREATER MUMBAI

CHIEF ENGINEER (SOLID WASTE MANAGEMENT) DEPTT.

Dy. Ch. B./ 1957 /SWM/Project Date

Office of the Chief Engineer (SWM) Municipal Khatav Market building, 3rd floor, Khatav Wadi Sleater Road, Grant Road (W), Mumbai-400007

To,
The Member Secretary,
Maharashtra Pollution Control Board,
Kalpataru Point, 2nd, 3rd, & 4th floor,
Opp. Cine Planet,
Near Sion Circle,
Sion (East),
Mumbai- 400 022.

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. Dy.Ch.E./740/SWM/Project, Dated 18.08.2020.

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 till Dec-2020

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 MCGM.	MCGM has maintained a buffer zone of 500 meters around the project perimeter in existing Development Plan. MCGM is taking necessary steps for incorporation of the said buffer zone as 'No Development Zone' in the Development Plan of MCGM 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 (GHG) like methane needs to be controlled so that it does not contaminate the atmosphere. It should be ensured that methane generated if fully utilized for power generation/flaring and not let into atmosphere.	Complied. 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.

Sr.No	Conditions Under Environmental	Status of Compliance.
	Clearance	
4	The leachate generating from the cells will have to be systematically collected and treated to reduce BOD levels to allowable limits. Under no circumstances should the leachate be allowed to contaminate the surrounding areas, particularly the mangrove forest on the south western and eastern side of the cell.	in impervious HDPE lined ponds from
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.	Complied. On the basis of details of wind direction & wind speed from Wind Rose 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. 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.
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 project site are monitoring the protection & preservation of mangrove forest.

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
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 2013.	The said condition is not applicable to this project as the project involves processing of MSW.
12	The proponent should ensure that TSDF fulfills all the provision of Hazardous Waste (Management & Handling) Rules 2003 & the design of landfill is as per guidelines of CPCB with proper leachate collection arrangement.	The site is designed as per the guide lines 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.

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
		The provisions for HW(M&H) Rules 2003 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. MCGM 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 TCLP test 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 MSW(M&H) Rules, 2000/ SWM Rules, 2016 through the agency approved by MoEF.

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
	e.	As regards to TCLP test the parameters which are necessary as per MSW rules are analyzed with the 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.com . 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 side 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 of MSW Only. No HW /H Chemicals are received to this site. 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 &

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
		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 of MSW only. There is no furnace area in the current project plan.
24	Proper housekeeping programs shall be implemented.	Dedicated team of trained workers is already deployed to ensure the 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 set. (if applicable) Arrangement shall be made that effluent and storm water does not get mixed. 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	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. 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. Storm water drainage galleries around the BLF Cells have been constructed for the management of rain water. Monthly Ground water quality is monitored as prescribed in MSW (M&H) Rules, 2000/ SWM Rules, 2016. The results analyzed indicate that the quality of ground water is found same
	Control Board.	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	Noise levels are arising from

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
	plant shall be kept well within the standards by providing noise control measures including acoustic hoods. silencers, enclosures, etc. on all sources.	movements of trucks, dozers. These machineries are fitted with silencer 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 MSW (M&H) Rules-2000 as per the decision in Consent Appraisal Committee meeting issued & 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.
		8.

Report on compliance of general conditions for constructions phase stipulated in Environment Clearance

Sr. No	Condition under Environmental Clearance	Status of Compliance
ī.	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.	housing, sanitation & safe drinking water requirements are in place.
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.	
iii.	The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed off to the approved	All required provisions are in place.

sites for land filling after recovering recyclable material. 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. v. Arrangement shall be made that waste water and storm water do not get mixed. Vi. All the top soil excavated during construction activities should be stored for use in construction activity invo	made to water ave been
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. v. Arrangement shall be made that waste water and storm water do not get mixed. Vi. All the top soil excavated during construction In case of landfill site, in the should not create any adverse effect on the followed for disposal or any) generated construction. Necessary drainage is ensure that no waste storm water is mixed. Storm water is mixed. Storm water.	made to water ave been
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The state of the s	
	mostly the
decivities should be stored for use in construction activity invo	
horticulture / landscape development within & compaction of soil	250
the project site. excavation. However	necessary
precaution to preserve t	op soil for
reuse will be taken.	
vii. Additional soil for leveling of the proposed site There is no additional	
shall be generated within the site (to the material available on the	
extent possible) so that natural drainage site, as the site is situal system of the area is protected and improved. Iying area. As per the	
system of the area is protected and improved. lying area. As per the requirement, soil from	
locations is transported	
purpose of filling	
embankments.	16 1110
viii. Green Belt Development shall be carried out The plantation program	for Green
considering CPCB guidelines including Belt development is	
selection of plant species and in consultation undertaken & it i	s under
with the local DFO/Agriculture Dept. progressive implementat	ion.
ix. Soil and ground water samples will be tested HDPE Liners are spread	at landfill
to ascertain that there is no threat to ground base as per design & pro	
water quality by leaching of heavy metals and MSW (M&H) Rules,2	
other toxic contaminants. SWM, Rules 2016 to	** ** ** ** ** ** ** ** ** ** ** ** **
percolation of leachate	into the
ground/soil.	
Ground water and surfa	100
samples are tested through laboratory, app	regularly
the MoEF and the res	1,000
that there is no contamin	APARTONEOUS SERVICE CONTROLLO
	nd toxic
contaminants.	COAIC
x. Construction spoils, including bituminous Necessary due care is tak	

Sr. No	Condition under Environmental Clearance	Status of Compliance
	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.	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.
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.

Compliance to General Conditions for Post Construction/ Operation phase stipulated in Environment Clearance

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
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.	
iv.	A separate environment management cell with qualified staff shall be set up for	We are having qualified staff for environment monitoring at site as

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
	implementation of the stipulated environmental safeguards.	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-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.	and management is included in tipping fees & which are being paid to the operator of the project.
vi.	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.maharashta.gov.in.	
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 &	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 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 achieve.	Noted.
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	Currently air monitoring at locations identified in EIA is being carried out as per the frequency defined in MSW (M&H) Rules, 2000/ SWM Rules, 2016. The

Sr.No	General Conditions for Post Construction/	Status of Compliance
	Operation phase stations and frequency of monitoring shall be	reports are submitted to MPCB
	decided in consultation with Maharashtra	by the operator.
	Pollution Control Board (MPCB) & submit	
xi.	report accordingly to MPCB. The proponent shall upload the status of	Air monitoring data is displayed on
	compliance of the stipulated EC conditions,	operator's Website
	including results of monitored data on their	<u>www.antonylara.com</u> as per
	website and shall update the same	requirement of the said clause.
	periodically. It shall simultaneously be sent to	Monitoring results are sent to the
	the Regional Office of MoEF, the respective	said Departments as required in
	Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely SPM, RSPM,	the said clause. Latest Monitoring results are
	SO ₂ and NOx (ambient levels as well as stack	displayed at the location within
	emissions) or critical sector parameters,	the site at the main entrance of
	indicated for the project shall be monitored	the project site.
	and displayed at a convenient location near	Ē.
	the main gate of the company in the public	
92	domain.	
xii.	The project proponent shall also submit six	Complied.
	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 MoEF, the respective Zonal Office of	
	CPCB and the SPCB.	
xiii.	The environmental statement for each	Complied.
	financial year ending 31 st March in Form V as	
	is mandated to be submitted by the project	THE PARTY OF THE P
	proponent to the concerned State Pollution Control Board as prescribed under the	submitted, and the same report is displayed on operator's website
	Environment (Protection) Rules, 1986, as	www.antonylara.com.
	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.	

The half yearly compliance report on Environmental Clearance issued vide no. SEIAA-EC-0000000475, dtd. 29.10.2018 is as below:-

Sr.No	Specific Conditions	Status of compliance
I.	PP to submit their plan for segregation of	The state of the s
	waste in the city.	submitted the Compliance of these
II.	PP to submit copy of compliance of issues	conditions to SEIAA vide No.
	raised during the public hearing.	Dy.Ch.E./1722/SWM/Project dtd.
III.	Earlier SEAC-I observation compliance to be	25.07.2017.

Sr.No	Specific Conditions	Status of compliance
	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.	The copy of the same was also enclosed as Annexure –A in the half yearly compliance report submitted by MCGM to you vide letter U/No.
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.	3,
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, MCGM 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 MCGM 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	

Sr.No.	General Conditions	Status of compliance
		be re-circulated into the BLF Cells
	*	under controlled conditions by the
		operator.
		Leachate Treatment Plant is
		operational. Leachate treatment
	2.	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	As per the directions of Hon.
	any activity of the Project without obtaining	Supreme Court the land
	proper permission.	admeasuring 141.77 ha. was
		handed over to MCGM 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
	9	65.96 ha. non CRZ area on
1	×	05.12.2014.
		SEIAA issued Environment
		Clearance for processing of MSW in
1		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
	4.	from above is to be used/ acquired
		for any activity of the project, the
		due procedure as per law will be
		followed.
		Tollowed.
· III.	PP to take utmost precaution for the health	The compliance of the said
****	and safety of the people working in the unit as	condition is being ensured by the
	also for protecting the environment.	operator while carrying out day to
	also for protecting the charlette.	day operation at site.
IV.	Proper Housekeeping programmers shall be	Dedicated team of trained workers
(M. M.O.)	implemented.	is already deployed by the operator
	implemented.	to ensure the good housekeeping
	2	& cleanliness.
		The compliance of the said
	ie i	condition is being ensured by the
	g.	operator while carrying out day to
		day operation at site.
		day operation at site.
V.	In the event of the failure of any pollution	The compliance of the said
٧.	in the event of the failure of any polition	THE COMPHANCE OF THE SAID

Sr.No.	Consuel Conditions	
51.100.	General Conditions	Status of compliance
	control system adopted by the unit, the unit	
	shall be immediately put out of operation and	, , ,
	shall not be restarted until the desired	day operation at site.
VI.	efficiency has been achieve.	
V 1.	A stack of adequate height based on DG set	
	capacity shall be provided for control and	requirement is fulfilled with
	dispersion of pollutant from DG set. (If	
	applicable).	backup power supply from MSEDCL
		&. Standby DG set of 125 KVA with
1/11	A design to the second	adequate stack height.
VII.	A detailed scheme for rainwater harvesting	The compliance of the said
	shall be prepared and implemented to	condition will be ensured by the
	recharge ground water.	operator.
VIII.	Arrangement shall be made that effluent and	Arrangement of separate leachate
	storm water does not get mixed.	collection through HDPE pipeline
		into HDPE lined ponds is provided.
		It is controlled by re-circulation
		into the landfill BLF Cells. The
	£ k	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
IX.		of rain water.
1/.	Periodic monitoring of ground water shall be	Monthly Ground water quality is
	undertaken and results analyzed to ascertain	being monitored as prescribed in
	any change in the quality of water. Results shall	MSW (M&H) Rules, 2000/ SWM
	be regularly submitted to the Maharashtra Pollution Control Board.	Rules, 2016. The results are
	Political Control Board.	submitted to MPCB by the
		operator.
		The sampling & analysis is being
		carried out by the operator with
	-	the help of laboratory approved by
X.	Noise level shall be maintained as per	MoEF.
۸.		Noise monitoring as per MSW
	standards. For people working in the high noise	Rules is being done by operator.
	area, requisite personal protective equipment	The compliance of the said
	like earplugs etc. shall be provided.	condition will be ensured by the
		operator while carrying out day to
XI.	The everall noise levels in and assert the Land	day operation at site.
VI.	The overall noise levels in and around the plant	Noise monitoring as per MSW
	are shall be kept well within the standards by	Rules is being done by operator.
	providing noise control measures including	The compliance of the said
	acoustic hoods, silencers, enclosures, etc. on all	condition is being ensured by the
	sources of noise generation. The ambient noise	operator while carrying out day to
	levels shall confirm to the standards prescribed	day operation at site.

Sr.No.	General Conditions	Status of compliance
	under Environment	
XII.	(Protection) Act, 1986 Rules, 1989. 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 progressive basis by the operator. Dy. Conservator of Forest is requested by MCGM for guidance regarding development & maintenance of Green Belt around the plant periphery and regarding selection of plant species as per guidelines of CPCB in that behalf.
		After receipt of guidance the operator will be informed to implement the same during development & maintenance of Green belt around the plant periphery.
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.	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
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 of 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.

Sr.No.	General Conditions	Status of compliance
XVIII.	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Environment Health & Safety Cell
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	Cost of environmental monitoring and management is included in tipping fees which are being paid to the operator of the project.
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.
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	Air monitoring data is being displayed on operator's Website www. Antony lara.com. as per requirement of the said condition. Monitoring results are being sent to the said Departments as per requirement of the said condition.

Sr.No.	General Conditions	Status of compliance
	namely; SPM, RSPM. SO2, NOx (ambient levels as well as stack emissions) or critical sectoral	Latest Monitoring results are being displayed at the main entrance of
	parameters, indicated for the project shall be monitored and displayed at a convenient	the project site.
	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 (copies enclosed) 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,

Chief Engineer (Solid Waste Management)

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 July 2020	Remarks for the values recorded July 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	18.54 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	25.86 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	63.22 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	41.88 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 20.35 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	<0.01 μg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: 4 <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	11.74 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	< 2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

*

Remarks for the

Sr. No.	Parameters *	per SWM Rules, 2016	Values Recorded August 2020	values recorded August 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.80 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	27.60 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	68.64 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	39.01 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 20.85 μg/m3	Within limit
6	Lead	1.0 µg/m3 (24 hrs)	<0.01 μg/m3 (24 hrs)	Within limit
7 '	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: ' <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	10.23 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 µg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m ³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

^{*} As per Authorization Dated 19.08.2017

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded September 2020	Remarks for the values recorded September 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	18.80 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	29.00 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	73.71 µg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	36.46 μg/m3 (24 hrs)	Within limit
5	Ozone '	8 hours average: 100 μg/m3	8 hours average: 23.89 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	<0.01 μg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	14.09 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded October 2020	Remarks for the values recorded October 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	17.84 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	29.05 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	76.07 µg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	43.96 µg/m3 (24 hrs)	Within limit
5	Ozone '	8 hours average: 100 μg/m3	8 hours average: 24.88 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	<0.01 μg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	10.76 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

^{*} As per Authorization Dated 19.08.2017

Remarks for the Sr. Permissible levels as Values Recorded Parameters * values recorded per SWM Rules, 2016 November 2020 No. November 2020 1 Sulphur Dioxide 80 μg/m3 (24 hrs) 8.65 µg/m3 (24 hrs) Within limit Within limit 2 Nitrogen Dioxide 80 μg/m3 (24 hrs) 24.14 µg/m3 (24 hrs) Particulate matter, 100 μg/m3 (24 hrs) 69.13 µg/m3 (24 hrs) Within limit PM₁₀ Particulate matter, 60 µg/m3 (24 hrs) 40.34 µg/m3 (24 hrs) Within limit PM_{2.5} 8 hours average: 8 hours average: 5 Ozone Within limit 21.60 µg/m3 100 µg/m3 1.0 µg/m3 (24 hrs) <0.01 µg/m3 (24 hrs) Within limit 6 Lead 24 hours 1-hourly 1-hour average: average: 7 Carbon Monoxide Within limit 4 mg/m3 <0.4 mg/m3 10.00 µg/m3 (24 hrs) Within limit 8 Ammonia 400 µg/m3 (24 hrs) Benzene 5 µg/m3 (annual) <2.1 µg/m3 Within limit Within limit 10 Benzo(α)Pyrene 1 ng/m³ (annual) <0.1 ng/m³ 11 Arsenic 6 ng/m³ (annual) <0.5 ng/m³ Within limit Nickel 20 ng/m³ (annual) <0.5 ng/m³ Within limit 12 Not to exceed 25% of the Lower Explosive Limit 13 Methane Within limit $<0.5 \mu g/m^3$ (equivalent to 650 mg/m³)

^{*} As per Authorization Dated 19.08.2017

MUNICIPAL CORPORATION OF GREATER MUMBAI

CHIEF ENGINEER (SOLID WASTE MANAGEMENT) DEPTT.

Dy. Ch. B./ 1957 /SWM/Project Date

Office of the Chief Engineer (SWM) Municipal Khatav Market building, 3rd floor, Khatav Wadi Sleater Road, Grant Road (W), Mumbai-400007

To,
The Member Secretary,
S.E.I.A.A.
Environment Department,
Government of Maharashtra,
15th floor, New Adm. Building,
Mantralaya,
Mumbai – 400 032.

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. Dy.Ch.E./740/SWM/Project, Dated 18.08.2020.

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 till Dec-2020

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 MCGM.	MCGM has maintained a buffer zone of 500 meters around the project perimeter in existing Development Plan. MCGM is taking necessary steps for incorporation of the said buffer zone as 'No Development Zone' in the Development Plan of MCGM 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 (GHG) like methane needs to be controlled so that it does not contaminate the atmosphere. It should be ensured that methane generated if fully utilized for power generation/flaring and not let into atmosphere.	Complied. 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

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
		generated from BLF Cells is used for captive power generation.
4	The leachate generating from the cells will have to be systematically collected and treated to reduce BOD levels to allowable limits. Under no circumstances should the leachate be allowed to contaminate the surrounding areas, particularly the mangrove forest on the south western and eastern side of the cell.	Arrangements for leachate collection in impervious HDPE lined ponds from BLF-Cells are already operational. Leachate Treatment Plant is operational. Leachate treatment comprises of two stage biological treatment anaerobic &, aerobic followed by clarification & filtration. At present leachate collected is re-circulated in BLF Cells under controlled condition.
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.	Complied. On the basis of details of wind direction & wind speed from Wind Rose 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. 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.
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 project site are monitoring the protection & preservation of

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
		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 2013.	The said condition is not applicable to this project as the project involves processing of MSW.
12	The proponent should ensure that TSDF fulfills all the provision of Hazardous Waste (Management & Handling) Rules 2003 & the design of landfill is as per guidelines of CPCB with proper leachate collection arrangement.	The site is designed as per the guide lines 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,

Sr.No	Conditions Under Environmental	Status of Compliance.
	Clearance	treatment, leachate recirculation is taken into consideration. The provisions for HW(M&H) Rules 2003 are not applicable as site is not
13	The TSDF should only handle the waste generated from the member units. A	accepting any Hazardous Waste. Only MSW generated from human habitation area is transported to this
2:	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.	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. MCGM 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 TCLP test 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 MSW(M&H) Rules, 2000/ SWM Rules,

	2016 through the agency approved by
	MoEF.
	As regards to TCLP test the parameters which are necessary as per MSW rules are analyzed with the help of MoEF approved Lab.
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.com . Special parameters of VOC and HC are also monitored.
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 side of buffering zone.
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.
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 of MSW Only. No HW /H Chemicals are received to this site. Adequate firefighting system is in place, comprising of water tankers and fire extinguishers which are placed at
For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable	strategic locations for prevention of any fire incidence. On leeward direction plantation is done as a wind barrier. The arrangement of water sprinkling on roads through tankers is in practice
	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. 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. Adequate firefighting facilities should be installed to handle the fire arising from hazardous chemicals/waste that are stored/processed. For controlling fugitive natural dust, regular sprinkling of water & wind shields

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
		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.	
24	Proper housekeeping programs shall be implemented.	Dedicated team of trained workers is already deployed to ensure the 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 set. (if applicable) Arrangement shall be made that effluent and storm water does not get mixed.	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. 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. Storm water drainage galleries around the BLF Cells have been constructed for the management of rain water.
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 MSW (M&H) Rules, 2000/ 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.	Due care is taken to avoid noise nuisance.

Sr.No	Conditions Under Environmental Clearance	Status of Compliance.
	shall be provided.	
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 silencer 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 MSW (M&H) Rules-2000 as per the decision in Consent Appraisal Committee meeting issued & 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.

Report on compliance of general conditions for constructions phase stipulated in Environment Clearance

Sr. No	Condition under Environmental Clearance	Status of Compliance
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 checkup has been taken to check the health of workers.
il.	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	All required provisions are in

Sr. No	Condition under Environmental Clearance	Status of Compliance
	collected and segregated. Dry/inert solid	place.
	waste should be disposed off to the approved	Li'
	sites for land filling after recovering recyclable	
iv.	material.	All accessors with Boson shall be
IV.	Disposal of muck during construction phase should not create any adverse effect on the	All necessary guide lines shall be followed for disposal of muck (if
	neighboring communities and be disposed	any) generated during
	taking the necessary precautions for general	construction.
	safety and health aspects of people, only in	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	approved sites with the approval of	
7000	competent authority.	N .
V.	Arrangement shall be made that waste water	Necessary drainage is made to
	and storm water do not get mixed.	ensure that no waste water and
		storm water is mixed. Storm water
		drainage galleries have been constructed for the management
	11	of rain water.
	4	
vi.	All the top soil excavated during construction	In case of landfill site, mostly the
	activities should be stored for use in	construction activity involves filling
	horticulture / landscape development within	& compaction of soil and not
	the project site.	excavation. However necessary
	JA	precaution to preserve top soil for reuse will be taken.
vii.	Additional soil for leveling of the proposed site	There is no additional soil filling
	shall be generated within the site (to the	material available on the present
	extent possible) so that natural drainage	site, as the site is situated in low
	system of the area is protected and improved.	lying area. As per the technical
		requirement, soil from various
		locations is transported for the purpose of filling the
	*	purpose of filling the embankments.
viii.	Green Belt Development shall be carried out	The plantation program for Green
	considering CPCB guidelines including	Belt development is already
	selection of plant species and in consultation	undertaken & it is under
	with the local DFO/Agriculture Dept.	progressive implementation.
ix.	Soil and ground water samples will be tested	HDPE Liners are spread at landfill
	to ascertain that there is no threat to ground water quality by leaching of heavy metals and	base as per design & provisions of
	other toxic contaminants.	MSW (M&H) Rules,2000 and SWM, Rules 2016 to prohibit
	other toxic contaminants.	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

Sr. No	Condition under Environmental Clearance	Status of Compliance
		contaminants.
х.	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.
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.

Compliance to General Conditions for Post Construction/ Operation phase stipulated in Environment Clearance

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
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.

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
iv.	A separate environment management cell with qualified staff shall be set up for	environment monitoring at site as
	implementation of the stipulated environmental safeguards.	concession agreement.
		Environment cell as per EC has been formed.
v.	Separate funds shall be allocated for implementation of environmental protection	Cost of environmental monitoring and management is included in
	measures/EMP along with item-wise breaks-	tipping fees & which are being
	up. These costs shall be included as part of the	paid to the operator of the project.
	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.	
vi.	The project management shall advertise at	Complied.
	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	9
	issue of this letter, informing that the project has been accorded environmental clearance	
	and copies of clearance letter are available	13
	with the Maharashtra Pollution Control Board	
	and may also be seen at Website at	
	htttp://ec.maharashta.gov.in.	
vii.	Project management should submit half yearly	Complied.
	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.	
viii.	A copy of the clearance letter shall be sent by	A copy of Environment Clearance
	proponent to the concerned Municipal	is hosted on the operator's
	Corporation and the local NGO, if any, from	Website as per requirement.
	whom suggestions/representations, if any,	
	were received while processing the proposal.	
3	The clearance letter shall also be put on the	
ix.	website of the Company by the proponent.	Natad
IX.	In the event of the failure of any pollution control system adopted by the unit, the unit	Noted.
="	shall be immediately put out of operation and	
	shall not be restored until the desired	
	efficiency has been achieve.	
x.	Regular monitoring of the air quality including	Currently air monitoring at
	SPM & SO ₂ levels both in work zone and	locations identified in EIA is being
	ambient air shall be carried out in and around	carried out as per the frequency

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
	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.	defined in MSW (M&H) Rules, 2000/ 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 NOx (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.com 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 MoEF, the respective Zonal Office of CPCB and the SPCB.	Complied.
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.	Environment Statement is submitted, and the same report is displayed on operator's website www.antonylara.com.

The half yearly compliance report on Environmental Clearance issued vide no. SEIAA-EC-0000000475, dtd. 29.10.2018 is as below:-

Sr.No	Specific Conditions	Status of compliance
1.	PP to submit their plan for segregation of waste in the city.	In this context, MCGM had already submitted the Compliance of these
II.	PP to submit copy of compliance of issues	conditions to SEIAA vide No.

Sr.No	Specific Conditions	Status of compliance
	raised during the public hearing.	Dy.Ch.E./1722/SWM/Project dtd.
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.	The copy of the same was also enclosed as Annexure —A in the half yearly compliance report submitted by MCGM to you vide
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, MCGM 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 MCGM to you vide letter U/No. Dy.Ch.E./3770/SWM/Project, Dated 23.01.2019.

Sr.No.	General Conditions	Status of compliance
1.	PP to achieve Zero Liquid Discharge ; PP shall	
	ensure that there is no increase in the effluent	collection through HDPE pipeline
	load to CETP	into HDPE lined ponds is provided

Sr.No.	General Conditions	Status of compliance
8		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 MCGM 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.	Dedicated team of trained workers is already deployed by the operator to ensure the good housekeeping & cleanliness. The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.

Sr.No.	General Conditions	Status of compliance
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.	condition will be ensured by the operator while carrying out day to
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).	requirement is fulfilled with
VII.	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	The compliance of the said condition will be ensured by the operator.
VIII.	Arrangement shall be made that effluent and storm water does not get mixed.	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. Storm water drainage galleries around the BLF Cells have been constructed for the management of rain water.
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 MSW (M&H) Rules, 2000/ 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 operator. The compliance of the said condition will be ensured by the operator while carrying out day to day operation at site.
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	Noise monitoring as per MSW Rules is being done by operator. The compliance of the said condition is being ensured by the

Sr.No.	General Conditions	Status of compliance
	sources of noise generation. The ambient noise	operator while carrying out day to
	levels shall confirm to the standards prescribed	day operation at site.
	under Environment	
	(Protection) Act, 1986 Rules, 1989.	
XII.	Green belt shall be developed & maintained	Plantation along the periphery of
	around the plant periphery. Green Belt	the site is being done on
	Development shall be carried out considering	progressive basis by the operator. Dy. Conservator of Forest is
	CPCB guidelines including selection of plant species and in consultation with the local DFO/	requested by MCGM for guidance
	Agriculture Dept	regarding development &
	- Agriculture 2 opt	maintenance of Green Belt around
		the plant periphery and regarding
	8	selection of plant species as per
		guidelines of CPCB in that behalf.
		After receipt of guidance the
		operator will be informed to
		implement the same during
	· ·	development & maintenance of Green belt around the plant
		periphery.
		penphery.
XIII.	Adequate safety measures shall be provided to	The compliance of the said
	limit the risk zone within the plant boundary, in	condition is being ensured by the
	case of an accident. Leak detection devices	operator while carrying out day to
	shall also be installed at strategic places for	day operation at site.
	early detection and warning.	
XIV.	Occupational health surveillance of the	The compliance of the said
100000	workers shall be done on a regular basis and	condition is being ensured by the
	record maintained as per Factories Act.	operator while carrying out day to
		day operation at site.
XV.	The company shall make the arrangement for	The compliance of the said
	protection of possible fire hazards during	condition is being ensured by the
	manufacturing process in material handling.	operator while carrying out day to
XVI.	The project authorities must strictly something	day operation at site. The said condition is not applicable
AVI.	The project authorities must strictly comply with the rules and regulations with regard to	to this project as the project
	handling and disposal of hazardous wastes in	involves processing of MSW.
	accordance with the Hazardous Waste	mvortes processing or mover
	(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	The compliance of the said
	management plan shall be carried out.	condition is being ensured by the
	Implementation of changes / improvements	operator while carrying out day to

Sr.No.	General Conditions	Status of compliance
	required, if any, in the on-site management plan shall be ensured.	day operation at site.
	plan shan be ensured.	
XVIII.	A separate environment management cell with	The state of the s
	qualified staff shall be set up for implementation of the stipulated	
	environmental safeguards.	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-	and management is included in tipping fees which are being paid
	up. These cost shall be included as part of the	to the operator of the project.
	project cost. The funds earmarked for the	
	environment protection measures shall not be	ter .
	diverted for other purposes and year-wise expenditure should reported to the MPCB &	
	this department	5
XX.	The project management shall advertise at	The said condition is complied.
	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	The said condition is complied.
	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.	
XXII.	A copy of the clearance letter shall be sent by proponent to the concerned Municipal	The said condition is complied.
-	proponent to the concerned Municipal Corporation and the local NGO, if any, from	
	whom suggestions/representations, if any,	1. 90
	were received while processing the proposal.	
	The clearance letter shall also be put on the	
XXIII.	website of the Company by the proponent. The proponent shall upload the status of	Air monitoring data is being
Austropol G. G. Styl	compliance of the stipulated EC conditions,	displayed on operator's Website
, g	including results of monitored data on their	www. Antony lara.com. as per
	website and shall update the same periodically.	requirement of the said condition.
	It shall simultaneously be sent to the Regional	Monitoring results are being sent

Sr.No.	General Conditions	Status of compliance
	Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM. SO2, NOx (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.	to the said Departments as per requirement of the said condition. Latest Monitoring results are being displayed at the main entrance of the project site.
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 (copies enclosed) 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,

(Solid Waste Management)

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded July 2020	Remarks for the values recorded July 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	18.54 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	25.86 μg/m3 (24 hrs)	. Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	63.22 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	41.88 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 20.35 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	<0.01 μg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	' Within limit
8	Ammonia	400 μg/m3 (24 hrs)	11.74 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded August 2020	Remarks for the values recorded August 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.80 µg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	27.60 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	68.64 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	39.01 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 20.85 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	<0.01 μg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	· Within limit
8	Ammonia	400 μg/m3 (24 hrs)	10.23 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< 0.5 μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded September 2020	Remarks for the values recorded September 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	18.80 µg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	29.00 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	73.71 µg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	36.46 µg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 23.89 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	<0.01 µg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	14.09 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m ³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m ³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m ³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded October 2020	Remarks for the values recorded October 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	17.84 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	29.05 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	76.07 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	43.96 μg/m3 (24 hrs)	Within limit
5 '	Ozone	8 hours average: 100 μg/m3	8 hours average: 24.88 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	<0.01 µg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	10.76 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded November 2020	Remarks for the values recorded November 2020
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	8.65 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	24.14 µg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	69.13 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 µg/m3 (24 hrs)	40.34 μg/m3 (24 hrs)	Within limit
5	Ozone '	8 hours average: 100 μg/m3	8 hours average: 21.60 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	<0.01 µg/m3 (24 hrs)	Within limit
7	Carbon Monoxide	1-hour average: 4 mg/m3	24 hours 1-hourly average: <0.4 mg/m3	Within limit
8	Ammonia	400 μg/m3 (24 hrs)	10.00 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<2.1 μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m³	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<0.5 μg/m³	Within limit