MUNICIPAL CORPORATION OF GREATER MUMBAI

CHIEF ENGINEER (SOLID WASTE MANAGEMENT) DEPTT.

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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./1957/SWM/Project, Dated 28.12.2020.

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 June-2021

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 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.	Arrangements for leachate collection in impervious HDPE lined ponds from BLF-Cells are already operational. Leachate Treatment Plant is operational. Leachate treatment

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
	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.	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 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	constitution in the state of the state of the state of
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

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
		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. 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

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
		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.
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).

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
		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 & 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)	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
ira da	Arrangement shall be made that effluent and storm water does not get mixed.	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

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
		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 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	All required provisions are in place.
no ide	wastewater and solid wastes generated during the construction phase should be ensured.	ergine ter huller dag i john die
iii.	The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.	All required provisions are in place.
iv.	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	All necessary guide lines shall be 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.
vii.	Additional soil for leveling of the proposed site shall be generated within the site (to the extent possible) so that natural drainage system of the area is protected and improved.	There is no additional soil filling material available on the present site, as the site is situated in low lying area. As per the technical requirement, soil from various locations is transported for the purpose of filling the embankments.
viii.	Green Belt Development shall be carried out considering CPCB guidelines including	The plantation program for Green Belt development is already

Sr. No	Condition under Environmental Clearance	Status of Compliance
	selection of plant species and in consultation	undertaken & it is unde
-	with the local DFO/Agriculture Dept.	progressive implementation.
ix.	Soil and ground water samples will be tested	HDPE Liners are spread at landfi
	to ascertain that there is no threat to ground	base as per design & provisions of
	water quality by leaching of heavy metals and	MSW (M&H) Rules,2000 an
	other toxic contaminants.	SWM, Rules 2016 to prohibi
		percolation of leachate into th
		ground/soil.
		Ground water and surface water
		samples are tested regularl
1		through laboratory, approved b
2 2 2		the MoEF and the results show
		that there is no contamination du
		to heavy metals and toxi
		contaminants.
Х.	Construction spoils, including bituminous	Necessary due care is taken for no
	material and other hazardous materials must	accepting such hazardous materia
	not be allowed to contaminate watercourses	at site.
	and the dumpsites for such material must be	
	secured so that they should not leach into the	
	ground water.	
xi.	Any hazardous waste generated during	No hazardous waste is generated
	construction phase should be disposed off as	during construction phase.
	per applicable rules and norms with necessary	
	approvals of the Maharashtra Pollution	
	Control Board.	
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.	and temporarily used is confirmin
		noise & air emissions standard
		under EP Rules.
xiii.	The diesel required for operating DG sets shall	Noted.
	be stored in underground tanks and if	
	required, clearance from concern authority	
	shall be taken.	N
xiv.	Vehicles hired for bringing construction	Necessary and due care is being
	material to the site should be in good	taken.
	condition and should have a pollution check	sa sang ang ang ang ang ang ang ang ang ang
	certificate and should conform to applicable	
	air and noise emission standards and should	
	be operated only during non-peak hours	

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 implementation of the stipulated environmental safeguards.	We are having qualified staff for environment monitoring at site as per MSW rules and as per our concession agreement. Environment cell as per EC has been formed.
V.	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-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.	Cost of environmental monitoring 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.	Complied.
vii.	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 15 th June & 15 th December of each calendar year.	Complied.
viii.	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any,	A copy of Environment Clearance is hosted on the operator's Website as per requirement.

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
	were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	
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 stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.	Currently air monitoring at locations identified in EIA is being carried out as per the frequency defined in 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
۱.	PP to submit their plan for segregation of	In this context, MCGM had already
	waste in the city.	submitted the Compliance of these
11.	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.
111.	Earlier SEAC-I observation compliance to be	25.07.2017.
	submitted: Since the extended cell does	The copy of the same was also
	compromise the shallow water body on	enclosed as Annexure -A in the
	eastern side of premises, proper drainage plan	half yearly compliance report
	to ensure that storm water will	submitted by MCGM to you vide
	properly led away so as not to stagnate low	letter U/No.
	line areas shall be prepared and included in	Dy.Ch.E./3770/SWM/Project,
	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	18 g 18
	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	A foliar Class is a commission of the
\ /II	water with out contamination.	
VII.	PP to take utmost precautions to prevent the	and the second states with the
	nuisance to nearby public from the activities	and the strangers and displaying
VIII.	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	Date of the Control o
IX.	adequate precautions to prevent the fire	
	incidents by way of administrative and safety	
	controls like prevention of unauthorized	SIF the result in the rap before it.
	entry, smoking etc.	of the ware whereit
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
		MCZMA conditions to SEIAA vide
		No. Dy.Ch.E./1722/SWM/Project
		dtd. 25.07.2017.
		The copy of the same was also
	12 1 1 1 1 1 1 1 1 1	enclosed as Annexure —A in the
	- Cyrispath Syre (Theodalain San San Sir Internation San	half yearly compliance report
		submitted by MCGM to you vide
		letter U/No.
		Dy.Ch.E./3770/SWM/Project,
	a in this fiest form at course it the Audien Cost entitle	Dated 23.01.2019.

Sr.No.	General Conditions	Status of compliance
I.	PP to achieve Zero Liquid Discharge; PP shall ensure that there is no increase in the effluent load to CETP	Arrangement of Leachate collection through HDPE pipeline into HDPE lined ponds is provided by the operator. As per the technology Leachate will be re-circulated into the BLF Cells under controlled conditions by the operator. Leachate Treatment Plant is operational. Leachate treatment comprises of two stage biological treatment anaerobic &, aerobic followed by clarification & filtration. The excess Leachate will be treated in the said Leachate Treatment Plant.
11.	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.	

Sr.No.	General Conditions	Status of compliance
		condition is being ensured by the
		operator while carrying out day to
		day operation at site.
V.	In the event of the failure of any pollution	
	control system adopted by the unit, the unit	
	shall be immediately put out of operation and	
	shall not be restarted until the desired	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
		&. 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.
	1 1 3.4	It is controlled by re-circulation
		into the landfill BLF Cells. The
		excess leachate is treated in the
		leachate treatment plant and it is
	PERSONAL SECTION SECTION AND ADDRESS OF THE ADDRESS	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
20	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
	- Charles Montana Assess	operator.
	Merchalin transported by the first transport	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	Noise monitoring as per MSW
1 23	standards. For people working in the high noise	
100	area, requisite personal protective equipment	Rules is being done by operator. The compliance of the said
	like earplugs etc. shall be provided.	i iii baia
C Yayı	Piago etc. Silan be provided.	condition will be ensured by the
	and the residence of the second	operator while carrying out day to
XI.	The overall noise levels in and around the plant	day operation at site.
	are shall be kept well within the standards by	Noise monitoring as per MSW
	providing noise control measures including	Rules is being done by operator.
	providing noise control measures including	The compliance of the said

General Conditions	Status of compliance
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.
The state of the s	
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around the plant periphery. Green Belt Development shall be carried out considering	Plantation along the periphery of the site is being done on progressive basis by the operator. Dy. Conservator of Forest is
species and in consultation with the local DFO/ Agriculture Dept	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.
Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in	The compliance of the said condition is being ensured by the
shall also be installed at strategic places for early detection and warning.	operator while carrying out day to day operation at site.
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
tomorshop Engalests oils, suches ad # 38 no	day operation at site.
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.
The project authorities must strictly comply with the rules and regulations with regard to	The said condition is not applicable to this project as the project
	involves processing of MSW.
(amended). Authorization from the MPCB shall	in particular in the second
be obtained for collections/treatment/storage/	
disposal of hazardous wastes	as new history decided to a control of
Regular mock drills for the on-site emergency	The compliance of the said
management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.	condition is being ensured by the operator while carrying out day to day operation at site.
	sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (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 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. Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act. The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. 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 Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements

Sr.No.	General Conditions	Status of compliance
XVIII.	A separate environment management cell with	Operator already has the
	qualified staff shall be set up for implementation of the stipulated environmental safeguards.	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://oc.maharashtra.gov.in	The said condition is complied.
XXI.	http://ec.maharashtra. gov.in 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 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	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. Latest Monitoring results are being displayed at the main entrance of the project site.

Sr.No.	General Conditions	Status of compliance
	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 January 2021	Remarks for the values recorded January 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.35 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	25.08 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	69.80 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	30.84 µg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 23.74 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)	9.89 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/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

^{*} 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

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded February 2021	Remarks for the values recorded February 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.70 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	22.67 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	68.63 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	34.59 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 23.93 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)	8.74 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/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

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded March2021	Remarks for the values recorded March 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.11 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	23.56 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	68.90 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	40.21 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 28.72 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)	9.97 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

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded April 2021	Remarks for the values recorded April 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.20 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	23.62 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	67.57 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	34.38 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 28.93 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)	9.65 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

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded May 2021	Remarks for the values recorded May 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	8.98 µg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	24.83 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	68.52 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	31.25 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 28.90 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)	8.67 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

MUNICIPAL CORPORATION OF GREATER MUMBAI

CHIEF ENGINEER (SOLID WASTE MANAGEMENT) DEPTT.

Dy. Ch. 1.1 734 18 MARgicot Date . 25.6-21

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

ub: 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./1957/SWM/Project, Dated 28.12.2020.

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 June-2021

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.
4	The leachate generating from the cells will have to be systematically collected and treated to reduce BOD levels to	Arrangements for leachate collection in impervious HDPE lined ponds from BLF-Cells are already operational.

5r.No	Conditions Under Environmental Clearance	Status of Compliance
	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.	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
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	to achieve zero spillage of garbage and training is given to staff for handling

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
	vehicles after unloading the garbage at the dumpsite.	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. 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

5r.No	Conditions Under Environmental Clearance	Status of Compliance
		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.
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	

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
	Belt all along the periphery of the TSDF with plant species that are significant and used for the pollution abatement.	
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.
-81001		Adequate firefighting system is in place, comprising of water tankers and fire extinguishers which are placed at strategic locations for prevention of any fire incidence.
22	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured	On leeward direction plantation is done as a wind barrier. The arrangement of water sprinkling on roads through tankers is in practice and water sprinkling operation is carried out regularly in summer & winter.
23	Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.	The said condition is not applicable to this project as the project involves processing 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

5r.No	Conditions Under Environmental Clearance	Status of Compliance
		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 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

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	All required provisions are in place.
iii.	the construction phase should be ensured. The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.	All required provisions are in place.
iv.	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	All necessary guide lines shall be 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.
vii.	Additional soil for leveling of the proposed site shall be generated within the site (to the extent possible) so that natural drainage system of the area is protected and improved.	There is no additional soil filling material available on the present site, as the site is situated in low lying area. As per the technical requirement, soil from various locations is transported for the purpose of filling the
		embankments.

Sr. No	Condition under Environmental Clearance	Status of Compliance
	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
	water quality by leaching of heavy metals and	MSW (M&H) Rules,2000 and
	other toxic contaminants.	SWM, Rules 2016 to prohibit
		percolation of leachate into the
		ground/soil.
		Ground water and surface water
		samples are tested regularly
		through laboratory, approved by
		the MoEF and the results show
		that there is no contamination due
		to heavy metals and toxic contaminants.
	C	Necessary due care is taken for not
х.	Construction spoils, including bituminous material and other hazardous materials must	accepting such hazardous material
	not be allowed to contaminate watercourses	at site.
	and the dumpsites for such material must be	at site.
	secured so that they should not leach into the	
	ground water.	
xi.	Any hazardous waste generated during	No hazardous waste is generated
	construction phase should be disposed off as	during construction phase.
	per applicable rules and norms with necessary	
	approvals of the Maharashtra Pollution	
	Control Board.	
xii.	The diesel generator sets to be used during	
	construction phase should be low Sulphur	
	diesel type and should confirm to	regular electricity is available at
	Environment (Protection) Rules prescribed for	site. DG set at site as standby unit
	air and noise emission standards.	and temporarily used is confirming
		noise & air emissions standards
	The state of the s	under EP Rules. Noted.
xiii.	The diesel required for operating DG sets shall	
	be stored in underground tanks and if required, clearance from concern authority	
	shall be taken.	
xiv.	Vehicles hired for bringing construction	Necessary and due care is being
AIV.	material to the site should be in good	taken.
	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	
		[개발 회교 - 제 개발 생김기개 시]

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 or progressive basis and majority of the same is already done.
ii.	A complete set of all the documents submitted to SEAC & SEIAA should be forwarded to the Local authority and MPCB.	Complied.
iii.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.	Noted.
iv.	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	We are having qualified staff for environment monitoring at site as per MSW rules and as per our concession agreement. Environment cell as per EC has been formed.
V.	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-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.	Cost of environmental monitoring 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	Complied.
	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,	A copy of Environment Clearance is hosted on the operator's Website as per requirement.

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
	were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	
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 stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.	Currently air monitoring at locations identified in EIA is being carried out as per the frequency defined in 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 o	f In this context, MCGM had alrea
	waste in the city.	submitted the Compliance of the
11.	PP to submit copy of compliance of issue	s conditions to SEIAA vide N
	raised during the public hearing.	D CL = /4705/5
111.	Earlier SEAC-I observation compliance to be	Dy.Ch.E./1/22/SWM/Project dt 25.07.2017.
	submitted: Since the extended cell does	The copy of the same was also
	compromise the shallow water body or	enclosed as Annexure –A in the
	eastern side of premises, proper drainage plan	half yearly compliance repo
	to ensure that storm water will	submitted by MCGM to you vio
	properly led away so as not to stagnate low	
	line areas shall be prepared and included in	U/No Dy.Ch.E./3770/SWM/Project,
	the EIA report.	Dated 23.01.2019
IV.	PP to ensure the compliance of points raised	Dated 25.01.2019
	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	
1,75,00	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	Noted
	generated from CRZ area only.	Noted
XI.	PP shall ensure compliance of MCZMA	In this contact MCCAAL
	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
	Antoletic of the reservoir	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 load to CETP	Arrangement of Leachate collection through HDPE pipeline into HDPE lined ponds is provided by the operator. As per the technology Leachate will be re-circulated into the BLF Cells under controlled conditions by the operator. Leachate Treatment Plant is operational. Leachate treatment comprises of two stage biological treatment anaerobic &, aerobic followed by clarification & filtration. The excess Leachate will be treated in the said Leachate Treatment Plant.
11.	No additional land shall be used /acquired for any activity of the Project without obtaining proper permission.	
111.	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.	
IV.	Proper Housekeeping programmers shall be implemented.	

Sr.No.	General Conditions	Status of compliance
		The compliance of the sai condition is being ensured by th operator while carrying out day to day operation at site.
V.	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.	condition will be ensured by the operator while carrying out day to day operation at site.
VI.	A stack of adequate height based on DG secapacity shall be provided for control and dispersion of pollutant from DG set. (Papplicable).	requirement is fulfilled with captive power generation unit with backup power supply from MSEDCL &. Standby DG set of 125 KVA with adequate stack height
VII.	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	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.
i i	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.
s	loise level shall be maintained as per tandards. For people working in the high noise rea, requisite personal protective equipment ke 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
XI. T	he overall noise levels in and around the plant re shall be kept well within the standards by	day operation at site. Noise monitoring as per MSW Rules is being done by operator.

Sr.No.	General Conditions	Status of compliance
,	providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
XII.	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/Agriculture Dept	Plantation along the periphery of the site is being done on 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	The compliance of the said condition is being ensured by the 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.
XVIII.	A separate environment management cell wit qualified staff shall be set up for implementation of the stipulate environmental safeguards.	r 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	day operation at site. 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	and is complicu.
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 proposal.	The said condition is complied.
3	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 requirement of the said condition.

Sr.No.	General Conditions	Status of compliance
	namely; SPM, RSPM. SO2, NOx (ambient levels	Latest Monitoring results are being
	as well as stack emissions) or critical sectorai	displayed at the main entrance of
	parameters, indicated for the project shall be	the project site.
	monitored and displayed at a convenient	
	location near the main gate of the company in	
	the public domain.	
XXIV.	The project proponent shall also submit six	The said condition is complied.
	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	
.63	Office of CPCB and the SPCB.	
XXV.	The environmental statement for each financial	Noted.
	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.	

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 January 2021	Remarks for the values recorded January 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.35 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	25.08 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	69.80 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	30.84 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 23.74 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)	9.89 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 February 2021	Remarks for the values recorded February 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.70 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	22.67 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	68.63 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	34.59 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 23.93 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)	8.74 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

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded March2021	Remarks for the values recorded March 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.11 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	23.56 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	68.90 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	40.21 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 28.72 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)	9.97 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

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded April 2021	Remarks for the values recorded April 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.20 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	23.62 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	67.57 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	34.38 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 28.93 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)	9.65 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

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded May 2021	Remarks for the values recorded May 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	8.98 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	24.83 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	68.52 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	31.25 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 28.90 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)	8.67 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

MUNICIPAL CORPORATION OF GREATER MUMBAI

CHIEF ENGINEER (SOLID WASTE MANAGEMENT) DEPTT.

Dy. Ch. E. 1 737 ISWM/Project Dis 25.6.21

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./1957/SWM/Project, Dated 28.12.2020.

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 June-2021

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 generated from BLF Cells is used for captive power generation.
	The leachate generating from the cells will have to be systematically collected	Arrangements for leachate collection in impervious HDPE lined ponds from

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
	ensure proper cleaning of the transport vehicles after unloading the garbage at the dumpsite.	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. 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

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
	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.	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 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	AMERICAN STRUMENTS AND AND STRUMENTS AND
8	The staff handling the solid waste should be trained to ensure zero spillage of the garbage during transport. The PP should	The closed body vehicles are received to achieve zero spillage of garbage and training is given to staff for handling

Sr.No	Conditions Under Environmental	Status of Compliance
	Clearance	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.
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 Facility\half yearly & form V print\Half yearly com.report June,2021\half yearly complian	It is revealed that said condition is not applicable to the Kanjur project as the

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
	with plant species that are significant and used for the pollution abatement.	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 & 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	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.
D:\Kanjur MSW F	Arrangement shall be made that effluent and storm water does not get mixed. acility\half yearly & form V print\Half yearly com.report June, 2021\half yearly compliance	stack height. Arrangement of separate leach

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
		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 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.	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

C 81	6 131 1 5 1 1 1 6	6
Sr. No	Condition under Environmental Clearance	Status of Compliance
l. ****	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.		All required provisions are in
	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.	All required provisions are in place.
iii.	The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.	All required provisions are in place.
iv.	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the processory properties for account	All necessary guide lines shall be followed for disposal of muck (if any) generated during
	taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	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.
vii.	Additional soil for leveling of the proposed site shall be generated within the site (to the extent possible) so that natural drainage system of the area is protected and improved.	There is no additional soil filling material available on the present site, as the site is situated in low lying area. As per the technical requirement, soil from various locations is transported for the purpose of filling the embankments.

C . NI	Condition under Environmental Clearance	Status of Compliance
Sr. No viii.	Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation	The plantation program for Green Belt development is already undertaken & it is under
	with the local DFO/Agriculture Dept.	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
		that there is no contamination due to heavy metals and toxic 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.

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 implementation of the stipulated environmental safeguards.	We are having qualified staff for environment monitoring at site as per MSW rules and as per our concession agreement Environment cell as per EC has been formed.
V.	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-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.	Cost of environmental monitoring 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	Complied.
	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,	A copy of Environment Clearance is hosted on the operator' Website as per requirement.

	Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
The second secon		were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	
	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.
	Χ.	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	Currently air monitoring at locations identified in EIA is being carried out as per the frequency
		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	defined in MSW (M&H) Rules, 2000/ SWM Rules, 2016. The reports are submitted to MPCB by the operator.
	xi.	report accordingly to MPCB. 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.	
	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 or	f In this context, MCGM had already
	waste in the city.	submitted the Compliance of these
11.	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.
	submitted: Since the extended cell does	1,
	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 the EIA report.	
IV.		Dated 23.01.2019
	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	Charles think of price a pelan con-
	water with out contamination.	man them the reaction have to the
VII.	PP to take utmost precautions to prevent the	The days the documents of 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	The state of the s
	incidents by way of administrative and safety	
9 -, =	controls like prevention of unauthorized	
Χ.	entry, smoking etc.	
۸.	PP to ensure that it will process waste	Noted
XI.	generated from CRZ area only. PP shall ensure compliance of MCZMA	
χι.	PP shall ensure compliance of MCZMA conditions.	In this context, MCGM had already
	conditions.	submitted the Compliance of
		MCZMA conditions to SEIAA vide
		No. Dy.Ch.E./1722/SWM/Project dtd. 25.07.2017.
	Marie va ikazirdada ban Bilak eta	
		The copy of the same was also enclosed as Annexure —A in the
		1 16
		submitted by MCGM to you vide
		letter U/No.
	The state of the s	Dy.Ch.E./3770/SWM/Project,
	CHARLES CONTRACTOR SELECTION OF THE CONTRACTOR	Dated 23.01.2019.

Sr.No.	General Conditions	Status of compliance
I.	PP to achieve Zero Liquid Discharge; PP shall ensure that there is no increase in the effluent load to CETP	Arrangement of Leachate collection through HDPE pipeline into HDPE lined ponds is provided by the operator. As per the technology Leachate will be re-circulated into the BLF Cells under controlled conditions by the operator. Leachate Treatment Plant is operational. Leachate treatment comprises of two stage biological treatment anaerobic &, aerobic followed by clarification & filtration. The excess Leachate will be treated in the said Leachate Treatment Plant.
	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.

Sr.No.	General Conditions	Status of compliance
		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
	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 efficiency has been achieve.	day operation at site.
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 MSEDCI
		&. Standby DG set of 125 KVA with
	THE ST IS SHOWN BY ALLOW PROPERTY.	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
VIII.	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.
	학생님은 1명 (Hella) (Leco) = 2 (Hella) 학생으로	It is controlled by re-circulation into the landfill BLF Cells. The
	d property per a series of the	excess leachate is treated in the
		leachate treatment plant and it is
		not allowed to mix with storm
		water.
		Storm water drainage galleries
	t. Warnagent one opening to be dished.	around the BLF Cells have been
	Appellulation of the part of the state of th	constructed for the management
	Barrier Barrier of the State of	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
Park A	Pollution Control Board.	submitted to MPCB by the
7.1		operator.
10		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	Noise monitoring as per MSW
	standards. For people working in the high noise	Rules is being done by operator.
1 155	area, requisite personal protective equipment	The compliance of the said
	like earplugs etc. shall be provided.	condition will be ensured by the
	Legis 210 mila sur pila di Alexandra di Angelesia	operator while carrying out day to
XI.	The guarall poice levels in and a second	day operation at site.
۸۱.	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 Facility\half yearly & form V print\Half yearly com.report June, 2021\half yearly compliance report.	The compliance of the said

Sr.No.	General Conditions	Status of compliance
	acoustic hoods, silencers, enclosures, etc. on all	condition is being ensured by the
mi v ji sa	sources of noise generation. The ambient noise	operator while carrying out day to
	levels shall confirm to the standards prescribed	day operation at site.
77-	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 &
	Agriculture Dept	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	
	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.	condition is being ensured by the
XV.	workers shall be done on a regular basis and	condition is being ensured by the operator while carrying out day to day operation at site. The compliance of the said condition is being ensured by the
	workers shall be done on a regular basis and record maintained as per Factories Act. The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. 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/	condition is being ensured by the operator while carrying out day to day operation at site. The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site. The said condition is not applicable.
XV.	workers shall be done on a regular basis and record maintained as per Factories Act. The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. 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	condition is being ensured by the operator while carrying out day to day operation at site. The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site. The said condition is not applicable to this project as the project

Sr.No.	General Conditions	Status of compliance
	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	Cost of environmental monitoring
	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	of the splitting of the contract of the contra
	environment protection measures shall not be	and the second to be about the former of the party
	diverted for other purposes and year-wise	
	expenditure should reported to the MPCB &	
2/2/	this department	
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	The second second
-	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	1 - 4 n - 1 - x - y - wy
	also he area a such a	
and will	http://ec.maharashtra. gov.in	
XXI.	Project management should submit half yearly	The said condition is now alice!
	compliance reports in respect of the stipulated	The said condition is complied.
	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.	
	A copy of the clearance letter shall be sent by	The said condition is complied.
	proponent to the concerned Municipal	and carraction is complica.
	Corporation and the local NGO, if any, from	
	whom suggestions/representations, if any,	
	were received while processing the proposal.	of the same and
	The clearance letter shall also be put on the	Contract of the second
	website of the Company by the proponent.	
XIII.	The proponent shall upload the status of	Air monitoring data is being
	compliance of the stipulated EC conditions,	displayed on operator's Website
	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
(Office of MoEF, the respective Zonal Office of	to the said Departments as per
	CPCB and the SPCB. The criteria pollutant levels	requirement of the said condition.
	namely; SPM, RSPM. SO2, NOx (ambient levels	Latest Monitoring results are being
	as well as stack emissions) or critical sectorai	displayed at the main entrance of
	parameters, indicated for the project shall be	the project site.
	monitored and displayed at a convenient	
	ocation near the main gate of the company in	months to be seen as the missian to the
t	the public domain. acility\half yearly & form V print\Half yearly com.report June,2021\half yearly compliance report Ju	

Sr.No.	General Conditions	Status of compliance
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.	

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 January 2021	Remarks for the values recorded January 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.35 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	25.08 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	69.80 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	30.84 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 23.74 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)	9.89 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

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded February 2021	Remarks for the values recorded February 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.70 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	22.67 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	68.63 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 µg/m3 (24 hrs)	34.59 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 23.93 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)	8.74 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/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 March2021	Remarks for the values recorded March 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.11 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	23.56 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	68.90 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	40.21 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 28.72 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)	9.97 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

^{*} As per Authorization Dated 19.08.2017

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded April 2021	Remarks for the values recorded April 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.20 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	23.62 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	67.57 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	34.38 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 28.93 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)	9.65 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 May 2021	Remarks for the values recorded May 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	8.98 µg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	24.83 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	68.52 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	31.25 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 28.90 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)	8.67 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

MUNICIPAL CORPORATION OF GREATER MUMBAI

CHIEF ENGINEER (SOLID WASTE MANAGEMENT) DEPTT.

Dy. Ch. B. 1 737 18WM/Project 25.6.21

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./1957/SWM/Project, Dated 28.12.2020.

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 June-2021

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 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.	Arrangements for leachate collection in impervious HDPE lined ponds from BLF-Cells are already operational. Leachate Treatment Plant is

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
	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.	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 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	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

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
	vehicles after unloading the garbage at the dumpsite.	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. 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

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
3 48 89		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
18	Project Proponent shall carryout periodical air quality monitoring in and around the site including VOC, HC. Project Proponent should develop Green	per MSW rules are analyzed with the help of MoEF approved Lab. 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. It is revealed that said condition is not

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
F T-No.	Belt all along the periphery of the TSDF with plant species that are significant and used for the pollution abatement.	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 & 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

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
		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 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.	All required provisions are in place.
iii.	The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.	All required provisions are in place.
iv.	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	All necessary guide lines shall be followed for disposal of muck (if any) generated during construction.
٧.	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.
vii.	Additional soil for leveling of the proposed site shall be generated within the site (to the extent possible) so that natural drainage system of the area is protected and improved.	There is no additional soil filling material available on the present site, as the site is situated in low lying area. As per the technica requirement, soil from various locations is transported for the

Sr. No	Condition under Environmental Clearance	Status of Compliance
		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 that there is no contamination due to heavy metals and toxic 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 bel development is being done or 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.	The state of the s
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 implementation of the stipulated environmental safeguards.	We are having qualified staff for environment monitoring at site as per MSW rules and as per our concession agreement. Environment cell as per EC has been formed.
V.	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-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.	Cost of environmental monitoring 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.	Complied.
vii.	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 15 th June & 15 th December of each calendar year.	Complied.
	A copy of the clearance letter shall be sent by proponent to the concerned Municipal	A copy of Environment Clearance is hosted on the operator's

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
. =	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.	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	Currently air monitoring at locations identified in EIA is being carried out as per the frequency
	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	Environment Statement is submitted, and the same report is displayed on operator's website www.antonylara.com.

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
-	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
1.	PP to submit their plan for segregation of waste in the city.	In this context, MCGM had already
11.		submitted the Compliance of these
11.	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
111.	Earlier SEAC-I observation compliance to be	25.07.2017.
	submitted: Since the extended cell does	The copy of the same was also
	compromise the shallow water body on	enclosed as Annexure -A in the
	eastern side of premises, proper drainage plan	half yearly compliance repor
	to ensure that storm water will	submitted by MCGM to you vide
	properly led away so as not to stagnate low	letter U/No.
	line areas shall be prepared and included in	Dy.Ch.E./3770/SWM/Project,
	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	
	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	Noted
	generated from CRZ area only.	
XI.	PP shall ensure compliance of MCZMA	In this context, MCGM had already
	conditions.	submitted the Compliance of
S SAN		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

Sr.No	Specific Conditions	Status o	of complianc	е
	of setting exists and the	half yearly	compliance	report
		submitted by N	MCGM to y	ou vide
		 letter		U/No.
		Dy.Ch.E./3770/	SWM/Project	ct,
		Dated 23.01.20	019.	

Sr.No.	General Conditions	Status of compliance
1.	PP to achieve Zero Liquid Discharge; PP shall	Arrangement of Leachate
	ensure that there is no increase in the effluent	collection through HDPE pipeline
	load to CETP	into HDPE lined ponds is provided
		by the operator.
		As per the technology Leachate wil
		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
		I was to the second of the sec
		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.
	A STATE OF THE STA	However, the mangroves land
		admeasuring 23.36 ha. was
		retained by GoM. vide notification
	경기를 살아왔다면 가게 되었다. 그렇게 얼마나 얼마나 나를 살아 없다.	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
	HOLO - 가능한 전환하게 즐겁게 나는 [10년] = 5,2 m	(adjacent to 65.96 ha non CRZ
	a graph, shall guidh a dha y Shall nga nga gita (Andhaga a sa	area) on 29.10.2018.
		In case any additional land apart
	r versetter.	from above is to be used/ acquired
	HS-4	for any activity of the project, the
	ter i recensi de fra jesti meljumljeta i jet i jet i jet i je	due procedure as per law will be
		followed.
00 00 15	PP to take utmost precaution for the health	The compliance of the said

	General Conditions	Status of compliance
	and safety of the people working in the unit a	condition is being ensured by
	also for protecting the environment.	operator while carrying out day
IV.	Propos III-	day operation at all
10.	Proper Housekeeping programmers shall b implemented.	e Dedicated team of trained work
	implemented.	is already deployed by the opera
		to ensure the good housekeep
		& cleanliness.
		The compliance of the sa
	1 1 1 2 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2	condition is being ensured by t
	The second of th	operator while carrying out day
V.	In the good field	day operation at cita
٧.	In the event of the failure of any pollution	The compliance full
	control system adopted by the unit, the unit	condition will be
	shall be immediately put out of operation and	Opporator while
	shall not be restarted until the desired	day operation at site.
VI.	efficiency has been achieve.	
٧1.	A stack of adequate height based on DG set	At present the plant electrici
	capacity shall be provided for control and	roquiroment : Cucu.
	dispersion of pollutant from DG set. (If	captive power generation unit wi
	applicable).	backup power supply from MSED
		&. Standby DG set of 125 KVA wit
VII.	A 1	adequate stack height.
VII.	A detailed scheme for rainwater harvesting	The compliance of the sai
	shall be prepared and implemented to	condition will be ensured by th
VIII.	recharge ground water.	operator.
v III.		operator.
	Arrangement shall be made that effluent and	
	arrangement shall be made that effluent and storm water does not get mixed.	Arrangement of separate leachat
	storm water does not get mixed.	Arrangement of separate leachat collection through HDPE pipelin
	storm water does not get mixed.	Arrangement of separate leachat collection through HDPE pipelininto HDPE lined ponds is provided
	storm water does not get mixed.	Arrangement of separate leachat collection through HDPE pipelin into HDPE lined ponds is provided It is controlled by re-circulation
	storm water does not get mixed.	Arrangement of separate leachat collection through HDPE pipelininto HDPE lined ponds is provided It is controlled by re-circulation into the landfill BLF Cells. The
	storm water does not get mixed.	Arrangement of separate leachat collection through HDPE pipeling into HDPE lined ponds is provided It is controlled by re-circulation into the landfill BLF Cells. The excess leachate is treated in the
	storm water does not get mixed.	Arrangement of separate leachat collection through HDPE pipeling 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
	storm water does not get mixed.	Arrangement of separate leachat collection through HDPE pipeling 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
	storm water does not get mixed.	Arrangement of separate leachat collection through HDPE pipeling 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
	storm water does not get mixed.	Arrangement of separate leachat collection through HDPE pipelin 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
	storm water does not get mixed.	Arrangement of separate leachat collection through HDPE pipeling 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
X.	Periodic manitaring (Arrangement of separate leachat collection through HDPE pipeling 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.
	Periodic monitoring of ground water shall be	Arrangement of separate leachat collection through HDPE pipelin 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
	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain	Arrangement of separate leachat collection through HDPE pipeling 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 being monitored as prescribed in
	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall	Arrangement of separate leachat collection through HDPE pipeling 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 being monitored as prescribed in
	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	Arrangement of separate leachat collection through HDPE pipeling 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 being monitored as prescribed in MSW (M&H) Rules, 2000/ SWM Rules, 2016. The results are
	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	Arrangement of separate leachat collection through HDPE pipeling 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 being monitored as prescribed in MSW (M&H) Rules, 2000/ SWM Rules, 2016. The results are
	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.	Arrangement of separate leachat collection through HDPE pipeling 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 being monitored as prescribed in MSW (M&H) Rules, 2000/ SWM Rules, 2016. The results are
	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.	Arrangement of separate leachat collection through HDPE pipeling 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 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
	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.	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 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
	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.	Arrangement of separate leachat collection through HDPE pipeling 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 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
	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.	Arrangement of separate leachat collection through HDPE pipeling 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 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

Sr.No.	General Conditions	Status of compliance
Sr.No.	standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.	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 sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.	Noise monitoring as per MSW Rules is being done by operator. The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
XII.	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/Agriculture Dept	Plantation along the periphery of the site is being done on 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	The said condition is not applicable to this project as the project involves processing of MSW.

Sr.N	General Conditions	Status of compliance
	(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 sa
	management plan shall be carried out	1 30
	Implementation of changes / improvements	CHISCICA DY [
	required, if any, in the on-site management	1.1.6 out day
	plan shall be ensured.	day operation at site.
XVIII.	A separate environment management cell with	
	auglitical staff I II I	1
	insulant til	Treater & Safety Ce
	implementation of the stipulated	and the compliance of the sa
	environmental safeguards.	condition is being ensured by th
		operator while carrying out day t
2/12/	**************************************	day operation at site.
XIX.	Separate funds shall be allocated for	
	implementation of environmental protection	and management is in-1 1 1 .
	measures /EMP along with item-wise breaks-	tinning foos which are I :
	up. These cost shall be included as part of the	The series put
	project cost. The funds earmarked for the	to the operator of the project.
	environment protection measures shall not be	- All State of State
	diverted for other purposes and year-wise	
	expenditure should reported to the MPCB &	
	this department	And the property of the second
XX.		LSCORE STORY - P. C. Co.
	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 conject	
	of clearance letter are available with the	
	Maharashtra Pollution Control Board and may	
	also be seen at Website at	
	http://ec.maharashtra. gov.in	
⟨XI.	Project managed at 1 11	The said a dist
	compliance reports in respect of the stipulated	The said condition is complied.
	conditions in hard & soft copies to the MPCB &	
11 2	this department, on 1 st June & 1 st December of	
	each calendar year.	
(II.	A convert the alasses I was I was	
	A copy of the clearance letter shall be sent by	The said condition is complied.
	proponent to the concerned Municipal	
1180	Corporation and the local NGO, if any, from	
	whom suggestions/representations, if any,	
7 0 4	were received while processing the proposal	
5,515	The clearance letter shall also be put on the	
	website of the Company by the proponent.	
11.	the proponent shall	
	compliance of the stipulated EC conditions,	Air monitoring data is being

Sr.No.	General Conditions	Status of compliance	
	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. 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.	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. 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 January 2021	Remarks for the values recorded January 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.35 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	25.08 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	69.80 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	30.84 µg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 23.74 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)	9.89 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

^{*} 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

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded February 2021	Remarks for the values recorded February 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.70 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	22.67 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	68.63 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	34.59 μg/m3 (24 hrs)	Within limit
5 .	Ozone	8 hours average: 100 μg/m3	8 hours average: 23.93 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)	8.74 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 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

Sr. No.		Permissible levels as per SWM Rules, 2016	Values Recorded March2021	Remarks for the values recorded March 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.11 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	23.56 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	68.90 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	40.21 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 28.72 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)	9.97 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/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

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

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded April 2021	Remarks for the values recorded April 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	9.20 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	23.62 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	67.57 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	34.38 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 28.93 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)	9.65 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

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded May 2021	Remarks for the values recorded May 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	8.98 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	24.83 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM ₁₀	100 μg/m3 (24 hrs)	68.52 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM _{2.5}	60 μg/m3 (24 hrs)	31.25 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 28.90 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)	8.67 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