#### **MUNICIPAL CORPORATION OF GREATER MUMBA!**

CHIEF ENGINEER (SOLID WASTE MANAGEMENT) DEPTT.

Dy. Ch. B. 1274 | ISWM/Project Data - 17 - 12 - 2021

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

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

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

#### And

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

- Ref: 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./737/SWM/Project, Dated 25.06.2021.

Sir,

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

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

#### Half Yearly EC Compliance Report till December-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	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

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
	power generation/flaring and not let into atmosphere.	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 allowable limits.  Under no circumstances should the leachate be allowed to contaminate the surrounding areas, particularly the mangrove forest on the south western and eastern side of the cell.	Arrangements for leachate collection in impervious HDPE lined collection ponds from BLF-Cells are already operational.  Leachate Treatment Plant is operational. Leachate treatment comprises of two stage biological treatment anaerobic &, aerobic followed by clarification & filtration.  At present leachate collected is re-circulated in BLF Cells under controlled condition.
5	The PP shall take all out efforts to control odor nuisance. PP should take steps to measure odor levels using instruments which are currently available. The measurement of odor levels shall be taken at strategic locations depending on the wind direction and situation of habitats. Through regular monitoring it should be ensured that the odor levels are within the acceptable limits and remedial measures like applying odor controlling bacterial consortium to the garbage are taken up as and when necessary.	Complied. On the basis of details of wind direction & wind speed from Wind Rose Diagrams of this project site, locations for monitoring odor levels in windward and leeward directions in nearby residential colonies are finalized and monitoring has been carried out for odor giving compounds like VOC, Mercaptans, ammonia, hydrogen sulfide etc by the operator through MoEF approved laboratory.  Wind balloon system for guiding wind directions have been installed at BLF Cells and other noticeable places, so that wind direction can be seen easily by the operating staff and necessary arrangement for remedial measures like applying odor controlling bacterial consortium to the garbage and misting of deodorant are taken up as and when necessary.
6	To save the mangroves on the South-Western side of the property which is starved of supply of sea water, the PP should ensure openings of sufficient cross	Arrangement for ingress & egress of tidal water from creek through the culverts is already in place and

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
7	section in the compound wall which are designed and provided in consultation with the Chief Conservator of Forests, Mangrove Cell.  Mangrove regeneration efforts should be undertaken at the costs of the PP once regular tidal flushing is assured through	mangroves is visible.  The Forest Officers through visits to project site are monitoring the protection & preservation of mangrove forest.
8	measures suggested in point 6  The staff handling the solid waste should	The closed body vehicles are received
	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.	to achieve zero spillage of garbage and training is given to staff for handling the Solid Waste. It is strictly observed that no tail gates of vehicles will be opened before reaching to the MSW processing site.  Arrangements are in place for Washing/cleaning of incoming waste collection trucks tyres if found with muck and dirt.  Regular cleaning of roads is undertaken to collect spilled garbage if observed and cleanliness is maintained.
9	No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.	Noted.
10	No additional land shall be used / acquired for any activity of the project without obtaining proper permission.	Noted.
11	The project proponent should ensure that the transportation of the hazardous waste to the TSDF conforms to the norms laid down in the Hazardous Waste (Management & Handling) Rules 2013.	The said condition is not applicable to this project as the project involves processing of MSW.
12	The proponent should ensure that TSDF fulfills all the provision of Hazardous Waste (Management & Handling) Rules 2003 & the design of landfill is as per guidelines of CPCB with proper leachate collection arrangement.	The site is designed as per the guide lines of MSW (M&H) Rules-2000 as well as SWM Rules 2016 and the provisions for landfill design & execution of Biogas capturing & flaring arrangement, Leachate collection,

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
		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	Only MSW generated from human habitation area is transported to this site. No industrial hazardous waste is
	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.	accepted for TSDF hence no member units contributing/generating hazardous waste are covered as member units. Leachate collection and treatment facility is provided and is in operation. However, at present the Leachate is re-circulated at BLF Cells for enhancing the Bio-degradation process for generation of Methane gas. The Leachate Treatment Plant with arrangement of primary, Secondary with tertiary treatment is provided.
14	The proponent should obtain necessary clearance from the Ground Water authority before initiating the project.	Necessary clearance from the Ground Water Authority is already obtained before initiating the project.  MCGM had also informed the Ground water Authority about the revised EC.
15	The depth of the landfill should be decided based on the ground water level at site.	While deciding the depth of landfill in design, ground water level data is taken into consideration. This condition is complied while designing the project & is being complied in execution.
16	Project Proponent should prepare and implement an onsite emergency management plan.	Emergency Management Plan is complied as per the EIA report (Chapter 6). On site "Emergency Plan and Disaster Management Plan" is prepared and is under implementation.
17	Project Proponent shall carryout periodical ground water/soil monitoring in and around the site to check the contamination, including TCLP test for heavy metals	Monthly ground water quality monitoring through Piezo-metric wells water samples locations are provided in drawing. Periodical ground water /soil monitoring in and around the site is carried out at intervals set out in the MSW(M&H) Rules, 2000/SWM Rules,

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
		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, <a href="www.antonylara.com">www.antonylara.com</a> . Special parameters of VOC and HC are also monitored.
19	Project Proponent should develop Green Belt all along the periphery of the TSDF with plant species that are significant and used for the pollution abatement.	It is revealed that said condition is not applicable to the Kanjur project as the Kanjur project is only for treatment of Municipal Solid Waste (MSW). Plantation in green belt development is being done on progressive basis and majority plantation is already done. Healthy growth of mangroves forest is developed on three side of buffering zone.
20	The project proponent should not store the hazardous wastes more than the quantity that has been permitted by the CPCB / Maharashtra State Pollution Control Board.	Only MSW is received at Kanjur site, therefore question of receiving of Hazardous Waste does not arise.
21	Adequate firefighting facilities should be installed to handle the fire arising from hazardous chemicals/waste that are stored/processed.	The said condition is not applicable to this project as the project involves processing of MSW Only. No HW /H Chemicals are received to this site.
		Adequate firefighting system is in place, comprising of water tankers and fire extinguishers which are placed at strategic locations for prevention of any fire incidence.
22	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured	On leeward direction plantation is done as a wind barrier. The arrangement of water sprinkling on roads through tankers is in practice

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
		and water sprinkling operation is carried out regularly in summer & winter.
23	Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.	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 collection ponds is provided. It is controlled by recirculation into the landfill BLF Cells. The excess leachate is treated in the leachate treatment plant and it is not allowed to mix with storm water. Storm water drainage galleries around the BLF Cells have been constructed for the management of rain water.
26	Periodic monitoring of ground water shall be undertaken, and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	Monthly Ground water quality is monitored as prescribed in MSW (M&H) Rules, 2000/ SWM Rules, 2016. The results analyzed indicate that the quality of ground water is found same as compared to previous year. The results are regularly submitted to MPCB by the operator. The sampling & analysis is carried out with the help of Accredited laboratory and having MoEF approval.
27	Leq.of noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc.	Due care is taken to avoid noise nuisance.

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
-	shall be provided.	
28	The overall noise levels in and around the plant shall be kept well within the standards by providing noise control measures including acoustic hoods. silencers, enclosures, etc. on all sources.	Noise levels are arising from movements of trucks, dozers. These machineries are fitted with silencer for noise control. All efforts as per EIA are made to ensure that noise levels do not exceed the permissible values.
29	PP has to abide by the conditions stipulated by SEAC & SEIAA	Noted.
30	"Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment Department before start of any construction work at the site.	MPC Board has granted Authorization under MSW (M&H) Rules-2000 as per the decision in Consent Appraisal Committee meeting issued & issued letter for non-requirement of separate Consent to Establishment/operate for this activity.
31	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	All required sanitation arrangements such as WC/Urinals/Bathrooms with adequate water are available at site. Also safe, filtered, disinfected drinking water is provided to staff/ workers. Required facilities are being maintained throughout the construction period.

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

Sr. No	<b>Condition under Environmental Clearance</b>	Status of Compliance
i.	Provision shall be made for the housing of	All required arrangements such as
	construction labour within the site with all	housing, sanitation & safe drinking
	necessary infrastructure and facilities such as	water requirements are in place.
	fuel for cooking, mobile toilets, mobile STP,	Medical checkup has been taken
	safe drinking water, medical health care,	to check the health of workers.
	crèche and First Aid Room etc.	
ii.	Adequate drinking water and sanitary facilities	All required provisions are in
	should be provided for construction workers	place.
	at the site. Provision should be made for	
	mobile toilets. The safe disposal of	
	wastewater and solid wastes generated during	v
	the construction phase should be ensured.	
iii.	The solid waste generated should be properly	All required provisions are in
	collected and segregated. Dry/inert solid	place.

Sr. No	Condition under Environmental Clearance	Status of Compliance
	waste should be disposed off to the approved sites for land filling after recovering recyclable material.	¥.
iv.	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	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 system 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 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.

Sr. No	Condition under Environmental Clearance	Status of Compliance
X.	Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water.	Necessary due care is taken for not accepting such hazardous material at site.
xi.	Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.	No hazardous waste is generated during construction phase.
xii.	The diesel generator sets to be used during construction phase should be low Sulphur diesel type and should confirm to Environment (Protection) Rules prescribed for air and noise emission standards.	Diesel generator sets are not used during construction phase, as regular electricity is available at site. DG set at site as standby unit and temporarily used is confirming noise & air emissions standards under EP Rules.
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/	Status of Compliance
	Operation phase	
i.	Project proponent shall ensure completion of green belt development prior to functioning of MSW processing. Prior certification from	Plantation in green belt development is being done on progressive basis and majority of the same is already done.
II.	appropriate authority shall be obtained.  A complete set of all the documents submitted to SEAC & SEIAA should be forwarded to the Local authority and MPCB.	Complied.
III.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.	Noted.
iv.	A separate environment management cell	We are having qualified staff for

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
- 8-75 W	with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	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 <sup>th</sup> June & 15 <sup>th</sup> December of each calendar year.	Complied.
viii.	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	A copy of Environment Clearance is hosted on the operator's Website as per requirement.
ix.	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restored until the desired efficiency has been achieve.	Noted.
x.	Regular monitoring of the air quality including SPM & SO <sub>2</sub> levels both in work zone and ambient air shall be carried out in and around the power plant and record shall be	Currently air monitoring at locations identified in EIA is being carried out as per the frequency defined in MSW (M&H) Rules,

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance	
	maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.	2000/ SWM Rules, 2016. The reports are submitted to MPCB by the operator.	
xi.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely SPM, RSPM, SO <sub>2</sub> 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 operator's Websi www.antonylara.com as prequirement of the said clause. Monitoring results are sent to the said Departments as required the said clause. Latest Monitoring results a displayed at the location with the site at the main entrance 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 <sup>st</sup> March in Form V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by-mail.	Complied.  Environment Statement is submitted, and the same report is displayed on 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
ı.	PP to submit their plan for segregation of	In this context, MCGM had already
	waste in the city.	submitted the Compliance of these

Specific Conditions	Status of compliance
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.
Earlier SEAC-I observation compliance to be submitted: Since the extended cell does	25.07.2017. The copy of the same was also enclosed as Annexure —A in the
eastern side of premises, proper drainage plan	half yearly compliance report
properly led away so as not to stagnate low	submitted by MCGM to you vide letter U/No.  Dy.Ch.E./3770/SWM/Project,
the EIA report.	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.	
PP to ensure compliance of the conditions stipulated by MCZMA and CRZ clearance.	
PP to prepare comprehensive drainage plan to ensure proper carrying and disposal of storm water with out contamination	
nuisance to nearby public from the activities carried out on site.	
PP to make traffic plan in such a way that no traffic congestion shall happen on the nearby roads which can affect traffic flow.	
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.	
PP to ensure that it will process waste generated from CRZ area only.	Noted
PP shall ensure compliance of MCZMA conditions.	In this context, MCGM had already submitted the Compliance of MCZMA conditions to SEIAA vide No. Dy.Ch.E./1722/SWM/Project dtd. 25.07.2017.  The copy of the same was also enclosed as Annexure –A in the half yearly compliance report submitted by MCGM to you vide letter U/No. Dy.Ch.E./3770/SWM/Project,
	PP to submit copy of compliance of issues raised during the public hearing.  Earlier SEAC-I observation compliance to be submitted: Since the extended cell does compromise the shallow water body on eastern side of premises, proper drainage plan to ensure that storm water will properly led away so as not to stagnate low line areas shall be prepared and included in the EIA report.  PP to ensure the compliance of points raised by earlier SEAC in their meetings and site visit report dated 17.02.2016.  PP to ensure compliance of the conditions stipulated by MCZMA and CRZ clearance.  PP to prepare comprehensive drainage plan to ensure proper carrying and disposal of storm water with out contamination.  PP to take utmost precautions to prevent the nuisance to nearby public from the activities carried out on site.  PP to make traffic plan in such a way that no traffic congestion shall happen on the nearby roads which can affect traffic flow.  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.  PP to ensure that it will process waste generated from CRZ area only.  PP shall ensure compliance of MCZMA

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.  The compliance of the said

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 efficiency has been achieve.	The compliance of the said condition will be ensured by the operator while carrying out day to day operation at site.
VI.	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).	At present the plant electricity requirement is fulfilled with captive power generation unit with backup power supply from MSEDCL &. Standby DG set of 125 KVA with adequate stack height.
VII.	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	The compliance of the said condition will be ensured by the operator.
VIII.	Arrangement shall be made that effluent and storm water does not get mixed.	Arrangement of separate leachate collection through HDPE pipeline into HDPE lined ponds is provided. It is controlled by re-circulation into the landfill BLF Cells. The excess leachate is treated in the leachate treatment plant and it is not allowed to mix with storm water.  Storm water drainage galleries around the BLF Cells have been constructed for the management of rain water.
IX.	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	Monthly Ground water quality is being monitored as prescribed in MSW (M&H) Rules, 2000/ SWM Rules, 2016. The results are submitted to MPCB by the operator. The sampling & analysis is being carried out by the operator with the help of laboratory approved by MoEF.
X.	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.	Noise monitoring as per MSW Rules is being done by operator. The compliance of the said condition will be ensured by the operator while carrying out day to day operation at site.
XI.	The overall noise levels in and around the plant	

Sr.No.	General Conditions	Status of compliance
	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	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.
	(Protection) Act, 1986 Rules, 1989.	
XII.	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/Agriculture Dept	Plantation along the periphery of the site is being done on progressive basis by the operator.  Dy. Conservator of Forest is requested by MCGM for guidance regarding development & maintenance of Green Belt around the plant periphery and regarding selection of plant species as per guidelines of CPCB in that behalf.
		After receipt of guidance the operator will be informed to implement the same during development & maintenance of Green belt around the plant periphery.
XIII.	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
XIV.	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
XV.	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
XVI.	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes	The said condition is not applicable to this project as the project involves processing of MSW.

Sr.No.	General Conditions	Status of compliance	
XVII.	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.	The compliance of the sai condition is being ensured by th operator while carrying out day t day operation at site.	
XVIII.	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Operator already has the Environment Health & Safety Cell and the compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.	
XIX.	Separate funds shall be allocated for implementation of environmental protection measures /EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department	day operation at site.  Cost of environmental monitoring and management is included tipping fees which are being part to the operator of the project.	
XX.	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in	The said condition is complied.	
XXI.	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1 <sup>st</sup> June & 1 <sup>st</sup> 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,		

Sr.No.	General Conditions	Status of compliance
	including results of monitored data on their website and shall update the same periodically.	www. Antony lara.com. as per 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	a de estágo
	location near the main gate of the company in the public domain.	and a second sec
XXIV.	The project proponent shall also submit six	The said condition is complied.
	monthly reports on the status of compliance of	8
	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.	* * * * * * * * * * * * * * * * * * *
XXV.	The environmental statement for each financial	Noted.
	year ending 31 <sup>st</sup> March in Form-V as is	
	mandated to be submitted by the project	(65)
	proponent to the concerned State Pollution	
	Control Board as prescribed under the	
	Environment (Protection) Rules, 1986, as	n g
	amended subsequently, shall also be put on	
	the website of the company along with the status of compliance of EC conditions and shall	987
	also be sent to the respective Regional Offices	
1	of MoEF by e-mail.	* 10

Submitted please.

Encl:- As above.

Yours faithfully,

Chief Engineer
(Solid Waste Management)

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded June 2021	Remarks for the values recorded June 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	15.82 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	28.22 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	67.42 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	33.96 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 28.64 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	< <b>0.</b> 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)	8.39 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<b>&lt;2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<b>&lt;0.5</b> μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded July 2021	Remarks for the values recorded July 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	22.09 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	28.52 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	55.83 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	29.79 μg/m3 (24 hrs)	Within limit
. 5	Ozone	8 hours average: 100 μg/m3	8 hours average: 29.11 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	< <b>0.</b> 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)	7.58 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	< <b>2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m³	Within limit
12	Nickel	20 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded August 2021	Remarks for the values recorded August 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	21.66 µg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	27.84 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	58.89 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	36.67 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 29.11 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)	7.37 µg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	< <b>2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<b>&lt;0.5</b> μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded September 2021	Remarks for the values recorded September 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	19.94 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	28.02 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	58.20 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	33.96 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 26.34 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	< <b>0.</b> 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)	6.97 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<b>&lt;2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	<0.1 ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<b>&lt;0.5</b> μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded October 2021	Remarks for the values recorded October 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	19.69 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	28.55 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	60.73 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	35.42 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 25.73 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)	6.74 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<b>&lt;2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded November 2021	Remarks for the values recorded November 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	16.45 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	27.07 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	55.83 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	29.79 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 26.80 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)	5.93 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<b>&lt;2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit

<sup>\*</sup> As per Authorization Dated 19.08.2017

#### MUNICIPAL CORPORATION OF GREATER MUMBAI

CHIEF ENGINEER (SOLID WASTE MANAGEMENT) DEPTT.

Dy. Ch. E./ 2741 /SWM/Project Date - 17-12-2021

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

To,
The Member Secretary,
S.E.I.A.A.
Environment Department,
Government of Maharashtra,
15<sup>th</sup> 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./737/SWM/Project, Dated 25.06.2021.

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 December-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	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

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
	power generation/flaring and not let into atmosphere.	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 allowable limits.  Under no circumstances should the leachate be allowed to contaminate the surrounding areas, particularly the mangrove forest on the south western and eastern side of the cell.	Arrangements for leachate collection in impervious HDPE lined collection ponds from BLF-Cells are already operational.  Leachate Treatment Plant is operational. Leachate treatment comprises of two stage biological treatment anaerobic &, aerobic followed by clarification & filtration.  At present leachate collected is re-circulated in BLF Cells under controlled condition.
5	The PP shall take all out efforts to control odor nuisance. PP should take steps to measure odor levels using instruments which are currently available. The measurement of odor levels shall be taken at strategic locations depending on the wind direction and situation of habitats. Through regular monitoring it should be ensured that the odor levels are within the acceptable limits and remedial measures like applying odor controlling bacterial consortium to the garbage are taken up as and when necessary.	Complied. On the basis of details of wind direction & wind speed from Wind Rose Diagrams of this project site, locations for monitoring odor levels in windward and leeward directions in nearby residential colonies are finalized and monitoring has been carried out for odor giving compounds like VOC, Mercaptans, ammonia, hydrogen sulfide etc by the operator through MoEF approved laboratory.  Wind balloon system for guiding wind directions have been installed at BLF Cells and other noticeable places, so that wind direction can be seen easily by the operating staff and necessary arrangement for remedial measures like applying odor controlling bacterial consortium to the garbage and misting of deodorant are taken up as and when necessary.
6	To save the mangroves on the South-Western side of the property which is starved of supply of sea water, the PP should ensure openings of sufficient cross	Arrangement for ingress & egress of tidal water from creek through the culverts is already in place and significant growth of healthy

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
	section in the compound wall which are designed and provided in consultation with the Chief Conservator of Forests, Mangrove Cell.	mangroves is visible. The Forest Officers through visits to project site are monitoring the protection & preservation of
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	mangrove forest.
8	The staff handling the solid waste should be trained to ensure zero spillage of the garbage during transport. The PP should ensure proper cleaning of the transport vehicles after unloading the garbage at the dumpsite.	The closed body vehicles are received to achieve zero spillage of garbage and training is given to staff for handling the Solid Waste. It is strictly observed that no tail gates of vehicles will be opened before reaching to the MSW processing site.  Arrangements are in place for Washing/cleaning of incoming waste collection trucks tyres if found with muck and dirt.  Regular cleaning of roads is undertaken to collect spilled garbage if observed and cleanliness is maintained.
9	No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.	Noted.
10	No additional land shall be used / acquired for any activity of the project without obtaining proper permission.	Noted.
11	The project proponent should ensure that the transportation of the hazardous waste to the TSDF conforms to the norms laid down in the Hazardous Waste (Management & Handling) Rules 2013.	The said condition is not applicable to this project as the project involves processing of MSW.
12	The proponent should ensure that TSDF fulfills all the provision of Hazardous Waste (Management & Handling) Rules 2003 & the design of landfill is as per guidelines of CPCB with proper leachate collection arrangement.	The site is designed as per the guide lines of MSW (M&H) Rules-2000 as well as SWM Rules 2016 and the provisions for landfill design & execution of Biogas capturing & flaring arrangement, Leachate collection,

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
		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 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,

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
		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, <a href="www.antonylara.com">www.antonylara.com</a> . Special parameters of VOC and HC are also monitored.
19	Project Proponent should develop Green Belt all along the periphery of the TSDF with plant species that are significant and used for the pollution abatement.	It is revealed that said condition is not applicable to the Kanjur project as the Kanjur project is only for treatment of Municipal Solid Waste (MSW).  Plantation in green belt development is being done on progressive basis and majority plantation is already done. Healthy growth of mangroves forest is developed on three side of buffering zone.
20	The project proponent should not store the hazardous wastes more than the quantity that has been permitted by the CPCB / Maharashtra State Pollution Control Board.	Only MSW is received at Kanjur site, therefore question of receiving of Hazardous Waste does not arise.
21	Adequate firefighting facilities should be installed to handle the fire arising from hazardous chemicals/waste that are stored/processed.	The said condition is not applicable to this project as the project involves processing of MSW Only. No HW /H Chemicals are received to this site.
		Adequate firefighting system is in place, comprising of water tankers and fire extinguishers which are placed at strategic locations for prevention of any fire incidence.
22	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured	On leeward direction plantation is done as a wind barrier. The arrangement of water sprinkling on roads through tankers is in practice

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
		and water sprinkling operation is carried out regularly in summer & winter.
23	Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.	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 collection ponds is provided. It is controlled by recirculation into the landfill BLF Cells. The excess leachate is treated in the leachate treatment plant and it is not allowed to mix with storm water. Storm water drainage galleries around the BLF Cells have been constructed for the management of rain water.
26	Periodic monitoring of ground water shall be undertaken, and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	Monthly Ground water quality is monitored as prescribed in MSW (M&H) Rules, 2000/ SWM Rules, 2016. The results analyzed indicate that the quality of ground water is found same as compared to previous year. The results are regularly submitted to MPCB by the operator. The sampling & analysis is carried out with the help of Accredited laboratory and having MoEF approval.
27	Leq.of noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc.	Due care is taken to avoid noise nuisance.

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
	shall be provided.	
28	The overall noise levels in and around the plant shall be kept well within the standards by providing noise control measures including acoustic hoods. silencers, enclosures, etc. on all sources.	Noise levels are arising from movements of trucks, dozers. These machineries are fitted with silencer for noise control. All efforts as per EIA are made to ensure that noise levels do not exceed the permissible values.
29	PP has to abide by the conditions stipulated by SEAC & SEIAA	Noted.
30	"Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment Department before start of any construction work at the site.	MPC Board has granted Authorization under MSW (M&H) Rules-2000 as per the decision in Consent Appraisal Committee meeting issued & issued letter for non-requirement of separate Consent to Establishment/operate for this activity.
31	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	All required sanitation arrangements such as WC/Urinals/Bathrooms with adequate water are available at site. Also safe, filtered, disinfected drinking water is provided to staff/ workers. Required facilities are being maintained throughout the construction period.
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# Report on compliance of general conditions for constructions phase stipulated in Environment Clearance

Sr. No	<b>Condition under Environmental Clearance</b>	Status of Compliance
i.	Provision shall be made for the housing of	All required arrangements such as
	construction labour within the site with all	housing, sanitation & safe drinking
	necessary infrastructure and facilities such as	water requirements are in place.
	fuel for cooking, mobile toilets, mobile STP,	Medical checkup has been taken
	safe drinking water, medical health care,	to check the health of workers.
	crèche and First Aid Room etc.	
ii.	Adequate drinking water and sanitary facilities	All required provisions are in
	should be provided for construction workers	place.
	at the site. Provision should be made for	2
	mobile toilets. The safe disposal of	
	wastewater and solid wastes generated during	
	the construction phase should be ensured.	
iii.	The solid waste generated should be properly	All required provisions are in
	collected and segregated. Dry/inert solid	place.

Sr. No	Condition under Environmental Clearance	Status of Compliance
	waste should be disposed off to the approved sites for land filling after recovering recyclable material.	
iv.	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	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 system 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 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.

Sr. No	Condition under Environmental Clearance	Status of Compliance
X.	Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses	Necessary due care is taken for not accepting such hazardous material at site.
	and the dumpsites for such material must be secured so that they should not leach into the	
xi.	ground water.  Any hazardous waste generated during	No hazardous waste is generated
Αι.	construction phase should be disposed off as per applicable rules and norms with necessary	during construction phase.
	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.	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/	Status of Compliance
	Operation phase	
i.	Project proponent shall ensure completion of	Plantation in green belt
	green belt development prior to functioning	development is being done on
	of MSW processing. Prior certification from	progressive basis and majority of
	appropriate authority shall be obtained.	the same is already done.
ii.	A complete set of all the documents	Complied.
	submitted to SEAC & SEIAA should be	
	forwarded to the Local authority and MPCB.	
iii.	In the case of any change(s) in the scope of	Noted.
	the project, the project would require a fresh	
	appraisal by this Department.	,
iv.	A separate environment management cell	We are having qualified staff for

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
	with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	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	Cost of environmental monitoring and management is included in tipping fees & which are being paid to the operator of the project.
	environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department.	
vi.	The project management shall advertise at 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 <sup>th</sup> June & 15 <sup>th</sup> December of each calendar year.	Complied.
viii.	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	A copy of Environment Clearance is hosted on the operator's Website as per requirement.
ix.	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restored until the desired efficiency has been achieve.	Noted.
x.	Regular monitoring of the air quality including SPM & SO <sub>2</sub> levels both in work zone and ambient air shall be carried out in and around the power plant and record shall be	Currently air monitoring at locations identified in EIA is being carried out as per the frequency defined in MSW (M&H) Rules,

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
	maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.	2000/ SWM Rules, 2016. The reports are submitted to MPCB by the operator.
xi.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely SPM, RSPM, SO <sub>2</sub> 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 <a href="https://www.antonylara.com">www.antonylara.com</a> 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 <sup>st</sup> March in Form V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by-mail.	Environment Statement is submitted, and the same report is displayed on operator's website www.antonylara.com.

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

Sr.No	Specific Conditions	Status of compliance
, I.	PP to submit their plan for segregation of	In this context, MCGM had already
	waste in the city.	submitted the Compliance of these
II.	PP to submit copy of compliance of issues	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 half
	eastern side of premises, proper drainage	yearly compliance report submitted
	plan to ensure that storm water will	by MCGM to you vide letter U/No.
	properly led away so as not to stagnate low	Dy.Ch.E./3770/SWM/Project, Dated
	line areas shall be prepared and included in	23.01.2019
Maria N. Z	the EIA report.	
IV.	PP to ensure the compliance of points raised	8
	by earlier SEAC in their meetings and site	
izada.	visit report dated 17.02.2016.	
V.	PP to ensure compliance of the conditions	
0504	stipulated by MCZMA and CRZ clearance.	
VI.	PP to prepare comprehensive drainage plan	
	to ensure proper carrying and disposal of	L DESERTA
	storm water with out contamination.	
VII.	PP to take utmost precautions to prevent	
	the nuisance to nearby public from the	
a lite is	activities carried out on site.	
VIII.	PP to make traffic plan in such a way that no	
	traffic congestion shall happen on the	X
	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	a a
	unauthorized entry, smoking etc.	
Χ.	PP to ensure that it will process waste	Noted
	generated from CRZ area only.	
XI.	PP shall ensure compliance of MCZMA	In this context, MCGM had already
	conditions.	submitted the Compliance of
		MCZMA conditions to SEIAA vide No.
		Dy.Ch.E./1722/SWM/Project dtd.
		25.07.2017.
	3	The copy of the same was also
		enclosed as Annexure –A in the half
		yearly compliance report submitted
		by MCGM to you vide letter U/No.
		Dy.Ch.E./3770/SWM/Project, Dated
		23.01.2019.

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

Sr.No.	General Conditions	Status of compliance
	like earplugs etc. shall be provided.	condition will be ensured by the
		operator while carrying out day to
	Section (1994)	day operation at site.
XI.	The overall noise levels in and around the plant	Noise monitoring as per MSW
	are shall be kept well within the standards by	Rules is being done by operator.
	providing noise control measures including	The compliance of the said
	acoustic hoods, silencers, enclosures, etc. on all	condition is being ensured by the
	sources of noise generation. The ambient noise	operator while carrying out day to
	levels shall confirm to the standards prescribed	day operation at site.
	under Environment	
	(Protection) Act, 1986 Rules, 1989.	
XII.	Green belt shall be developed & maintained	Plantation along the periphery of
	around the plant periphery. Green Belt	the site is being done on
	Development shall be carried out considering	progressive basis by the operator.
	CPCB guidelines including selection of plant	Dy. Conservator of Forest is
	species and in consultation with the local DFO/	requested by MCGM for guidance
	Agriculture Dept	regarding development &
	25 th des adjulies to the	maintenance of Green Belt around
	<ul> <li>administration of actions to a second control of the control of the</li></ul>	the plant periphery and regarding
	see the same of the second	selection of plant species as per
	TRILLIA GENERAL MARKET CONTRACTOR OF THE PROPERTY OF THE PROPE	guidelines of CPCB in that behalf.
	1.45.124	, telem in the location to ext.
		After receipt of guidance the
	Brode Countries and referre	operator will be informed to
	regarded Anna 1900 regard	implement the same during
	seg of laderers mark	development & maintenance of
	or him through the second	Green belt around the plant
	ATRIO I DE REMARKACIONE RALLES DE	periphery.
	from a grand pass of reflect to the	
XIII.	Adequate safety measures shall be provided to	The compliance of the said
	limit the risk zone within the plant boundary, in	condition is being ensured by the
	case of an accident. Leak detection devices	operator while carrying out day to
	shall also be installed at strategic places for	day operation at site.
	early detection and warning.	
XIV.	Occupational health surveillance of the	The compliance of the said
	workers shall be done on a regular basis and	condition is being ensured by the
	record maintained as per Factories Act.	operator while carrying out day to
		day operation at site.
XV.	The company shall make the arrangement for	The compliance of the said
	protection of possible fire hazards during	condition is being ensured by the
	manufacturing process in material handling.	operator while carrying out day to
		day operation at site.
XVI.	The project authorities must strictly comply	The said condition is not applicable
	with the rules and regulations with regard to	to this project as the project
	handling and disposal of hazardous wastes in	involves processing of MSW.
	accordance with the Hazardous Waste	7.0
	(Management and Handling) Rules, 2003	

Sr.No.	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 management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
XVIII.	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Operator already has the Environment Health & Safety Cell and the compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
XIX.	Separate funds shall be allocated for implementation of environmental protection measures /EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department	Cost of environmental monitoring and management is included in tipping fees which are being paid to the operator of the project.
XX.	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in	The said condition is complied.
XXI.	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1 <sup>st</sup> June & 1 <sup>st</sup> 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 said condition is complied.

Sr.No.	General Conditions	Status of compliance
	The clearance letter shall also be put on the	
	website of the Company by the proponent.	
XXIII.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM. 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	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.
XXIV.	the public domain.  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 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Noted.

Submitted please.

Encl:- As above.

Yours faithfully,

(Solid Waste Management)

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded June 2021	Remarks for the values recorded June 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	15.82 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	28.22 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	67.42 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	33.96 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 28.64 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)	8.39 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	< <b>2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded July 2021	Remarks for the values recorded July 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	22.09 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	28.52 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	55.83 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	29.79 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 29.11 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)	7.58 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<b>&lt;2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded August 2021	Remarks for the values recorded August 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	21.66 µg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	27.84 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	58.89 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	36.67 µg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 29.11 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)	7.37 µg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<b>&lt;2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded September 2021	Remarks for the values recorded September 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	19.94 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	28.02 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	58.20 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	33.96 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 26.34 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)	6.97 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	< <b>2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded October 2021	Remarks for the values recorded October 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	19.69 µg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	28.55 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	60.73 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	35.42 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 25.73 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)	6.74 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<b>&lt;2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<b>&lt;0.5</b> μg/m³	Within limit

<sup>\*</sup> As per Authorization Dated 19.08.2017

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded November 2021	Remarks for the values recorded November 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	16.45 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	27.07 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	55.83 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	29.79 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 26.80 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)	5.93 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<b>&lt;2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<b>&lt;0.5</b> μg/m³	Within limit

### MUNICIPAL CORPORATION OF GREATER MUMBAI

CHIEF ENGINEER (SOLID WASTE MANAGEMENT) DEPTT.

Dy. Ch. B./274 | /SWM/Project Data - 17 - 12 - 202 |

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

To,
The Member Secretary,
Maharashtra Pollution Control Board,
Kalpataru Point, 2<sup>nd</sup>, 3<sup>rd</sup>, & 4<sup>th</sup> 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./737/SWM/Project, Dated 25.06.2021.

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 December-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

Sr.No	Conditions Under Environmental	Status of Compliance
	Clearance	
		generation are installed and electricity
	The state of the s	generation from landfill gases
		generated from BLF Cells is used for
		captive power generation.
4	The leachate generating from the cells	Arrangements for leachate collection
	will have to be systematically collected	in impervious HDPE lined collection
	and treated to reduce BOD levels to	ponds from BLF-Cells are already
	allowable limits.	operational.
		Leachate Treatment Plant is
	Under no circumstances should the	operational. Leachate treatment
	leachate be allowed to contaminate the	comprises of two stage biological
	surrounding areas, particularly the	treatment anaerobic &, aerobic
	mangrove forest on the south western	followed by clarification & filtration.
	and eastern side of the cell.	
	PORT 474 (24 - 21 200 200 74 )	At present leachate collected is
T- 5		re-circulated in BLF Cells under
		controlled condition.
5	The PP shall take all out efforts to control	Complied.
	odor nuisance. PP should take steps to	On the basis of details of wind
	measure odor levels using instruments	direction & wind speed from Wind
	which are currently available. The	Rose Diagrams of this project site,
	measurement of odor levels shall be	locations for monitoring odor levels in
	taken at strategic locations depending on	windward and leeward directions in
	the wind direction and situation of	nearby residential colonies are
	habitats. Through regular monitoring it	finalized and monitoring has been
	should be ensured that the odor levels	carried out for odor giving compounds
	are within the acceptable limits and	like VOC, Mercaptans, ammonia,
	remedial measures like applying odor	hydrogen sulfide etc by the operator
	controlling bacterial consortium to the	through MoEF approved laboratory.
	garbage are taken up as and when	
	necessary.	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
	· Ilentification	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-	Arrangement for ingress & egress of
	Western side of the property which is	
	starved of supply of sea water, the PP	culverts is already in place and
	should ensure openings of sufficient cross	N 8774
	section in the compound wall which are	
	designed and provided in consultation	
	with the Chief Conservator of Forests,	project site are monitoring the

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
7	Mangrove Cell.  Mangrove regeneration efforts should be undertaken at the costs of the PP once regular tidal flushing is assured through measures suggested in point 6	protection & preservation of mangrove forest.
8	The staff handling the solid waste should be trained to ensure zero spillage of the garbage during transport. The PP should ensure proper cleaning of the transport vehicles after unloading the garbage at the dumpsite.	The closed body vehicles are received to achieve zero spillage of garbage and training is given to staff for handling the Solid Waste. It is strictly observed that no tail gates of vehicles will be opened before reaching to the MSW processing site.  Arrangements are in place for Washing/cleaning of incoming waste collection trucks tyres if found with muck and dirt.  Regular cleaning of roads is undertaken to collect spilled garbage if observed and cleanliness is maintained.
9	No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.	Noted.
10	No additional land shall be used / acquired for any activity of the project without obtaining proper permission.	Noted.
11	The project proponent should ensure that the transportation of the hazardous waste to the TSDF conforms to the norms laid down in the Hazardous Waste (Management & Handling) Rules 2013.	The said condition is not applicable to this project as the project involves processing of MSW.
12	The proponent should ensure that TSDF fulfills all the provision of Hazardous Waste (Management & Handling) Rules 2003 & the design of landfill is as per guidelines of CPCB with proper leachate collection arrangement.	The site is designed as per the guide lines of MSW (M&H) Rules-2000 as well as SWM Rules 2016 and the provisions for landfill design & execution of Biogas capturing & flaring arrangement, Leachate collection, treatment, leachate recirculation is taken into consideration.  The provisions for HW(M&H) Rules 2003 are not applicable as site is not

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
		accepting any Hazardous Waste.
13	The TSDF should only handle the waste generated from the member units. A leachate collection system should be provided to collect the leachate at a collection point. Treatment facility for the collected leachate should be provided. The treated water should be reused as far as possible in the project.	Only MSW generated from human habitation area is transported to this site. No industrial hazardous waste is accepted for TSDF hence no member units contributing/generating hazardous waste are covered as member units. Leachate collection and treatment facility is provided and is in operation. However, at present the Leachate is re-circulated at BLF Cells for enhancing the Bio-degradation process for generation of Methane gas. The Leachate Treatment Plant with arrangement of primary, Secondary with tertiary treatment is provided.
14	The proponent should obtain necessary clearance from the Ground Water authority before initiating the project.	Necessary clearance from the Ground Water Authority is already obtained before initiating the project.  MCGM had also informed the Ground water Authority about the revised EC.
15	The depth of the landfill should be decided based on the ground water level at site.	While deciding the depth of landfill in design, ground water level data is taken into consideration. This condition is complied while designing the project & is being complied in execution.
16	Project Proponent should prepare and implement an onsite emergency management plan.	Emergency Management Plan is complied as per the EIA report (Chapter 6). On site "Emergency Plan and Disaster Management Plan" is prepared and is under implementation.
17	Project Proponent shall carryout periodical ground water/soil monitoring in and around the site to check the contamination, including TCLP test for heavy metals	Monthly ground water quality monitoring through Piezo-metric wells water samples locations are provided in drawing. Periodical ground water /soil monitoring in and around the site is carried out at intervals set out in the MSW(M&H) Rules, 2000/ SWM Rules, 2016 through the agency approved by MoEF.  As regards to TCLP test the

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
(Sulph	of the control of 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, <a href="www.antonylara.com">www.antonylara.com</a> . Special parameters of VOC and HC are also monitored.
19	Project Proponent should develop Green Belt all along the periphery of the TSDF with plant species that are significant and used for the pollution abatement.	It is revealed that said condition is not applicable to the Kanjur project as the Kanjur project is only for treatment of Municipal Solid Waste (MSW).  Plantation in green belt development is being done on progressive basis and majority plantation is already done. Healthy growth of mangroves forest is developed on three side of buffering zone.
20	The project proponent should not store the hazardous wastes more than the quantity that has been permitted by the CPCB / Maharashtra State Pollution Control Board.	Only MSW is received at Kanjur site, therefore question of receiving of Hazardous Waste does not arise.
21	Adequate firefighting facilities should be installed to handle the fire arising from hazardous chemicals/waste that are stored/processed.	The said condition is not applicable to this project as the project involves processing of MSW Only. No HW /H Chemicals are received to this site.  Adequate firefighting system is in place, comprising of water tankers and fire extinguishers which are placed at strategic locations for prevention of any fire incidence.
22	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured	On leeward direction plantation is done as a wind barrier. The arrangement of water sprinkling on roads through tankers is in practice and water sprinkling operation is carried out regularly in summer & winter.
23	Necessary arrangement shall be made to	The said condition is not applicable to

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
	adequate safety and ventilation arrangement in furnace area.	this project as the project involves processing of MSW only. There is no furnace area in the current project plan.
24	Proper housekeeping programs shall be implemented.	Dedicated team of trained workers is already deployed to ensure the good housekeeping & cleanliness.
25	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (if applicable)  Arrangement shall be made that effluent and storm water does not get mixed.  Periodic monitoring of ground water shall	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 collection ponds is provided. It is controlled by recirculation 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.
	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.	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	Noise levels are arising from movements of trucks, dozers. These machineries are fitted with silencer for

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
	measures including acoustic hoods. silencers, enclosures, etc. on all sources.	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	<b>Condition under Environmental Clearance</b>	Status of Compliance
	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as	All required arrangements such as housing, sanitation & safe drinking water requirements are in place.
970.0 61 7	fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche and First Aid Room etc.	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	I now be made at the 181 187 thin is to be a set to be a second

Sr. No	Condition under Environmental Clearance	Status of Compliance
	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.	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 system 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 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.
X.	Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the	Necessary due care is taken for not accepting such hazardous material at site.

Sr. No	<b>Condition under Environmental Clearance</b>	Status of Compliance
	ground water.	
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	Plantation in green belt
	green belt development prior to functioning	development is being done on
	of MSW processing. Prior certification from appropriate authority shall be obtained.	progressive basis and majority of the same is already done.
ii.	A complete set of all the documents	Complied.
	submitted to SEAC & SEIAA should be forwarded to the Local authority and MPCB.	
iii.	In the case of any change(s) in the scope of	Noted.
	the project, the project would require a fresh appraisal by this Department.	
iv.	A separate environment management cell	We are having qualified staff for
	with qualified staff shall be set up for	environment monitoring at site as
	implementation of the stipulated	per MSW rules and as per our
	environmental safeguards.	concession agreement.
		Environment cell as per EC has been formed.
V.	Separate funds shall be allocated for	

Sr.No	General Conditions for Post Construction/	Status of Compliance
	Operation phase	
	implementation of environmental protection measures/EMP along with item-wise breaks-up. These costs shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department.	and management is included in tipping fees & which are being paid to the operator of the project.
vi.	The project management shall advertise at	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	
100	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	Complied.
	compliance reports in respect of the	James Committee
	stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 15 <sup>th</sup> June &	
	15 <sup>th</sup> December of each calendar year.	SENTENCE DE LE LA
viii.	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	is hosted on the operator's
ix.	In the event of the failure of any pollution	Noted.
	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.	
x.	Regular monitoring of the air quality including SPM & SO <sub>2</sub> levels both in work zone and ambient air shall be carried out in and around the power plant and record shall be maintained. The location of monitoring	Currently air monitoring at locations identified in EIA is being carried out as per the frequency defined in MSW (M&H) Rules, 2000/ SWM Rules, 2016. The
	stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.	reports are submitted to MPCB by the operator.
xi.	The proponent shall upload the status of	Air monitoring data is displayed on

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
	compliance of the stipulated EC conditions,	operator's Website
	including results of monitored data on their	<u>www.antonylara.com</u> as per
	website and shall update the same	requirement of the said clause.
	periodically. It shall simultaneously be sent to	Monitoring results are sent to the
	the Regional Office of MoEF, the respective	said Departments as required in
	Zonal Office of CPCB and the SPCB. The	the said clause.
	criteria pollutant levels namely SPM, RSPM,	Latest Monitoring results are
	SO <sub>2</sub> and NOx (ambient levels as well as stack	displayed at the location within
	emissions) or critical sector parameters,	the site at the main entrance of
	indicated for the project shall be monitored	the project site.
	and displayed at a convenient location near	
	the main gate of the company in the public domain.	
xii.		Complied
XII.	The project proponent shall also submit six	Complied.
	monthly reports on the status of compliance of the stipulated EC conditions including	
	results of monitored data (both in hard copies	
	as well as by-mail) to the respective Regional	may be the outer that
	Office of MoEF, the respective Zonal Office of	
	CPCB and the SPCB.	20 July 1824 18 18 19 19 18 19
xiii.	The environmental statement for each	Complied.
	financial year ending 31st March in Form V as	and discount is, a sun take.
	is mandated to be submitted by the project	Environment Statement is
	proponent to the concerned State Pollution	submitted, and the same report is
	Control Board as prescribed under the	displayed on operator's website
	Environment (Protection) Rules, 1986, as	www.antonylara.com.
	amended subsequently, shall also be put on	
	the website of the company along with the	is a, solution resourced
	status of compliance of EC conditions and	where the first contract of the first of
	shall also be sent to the respective Regional	- A THE CALL OF THE CASE OF TH
	Offices of MoEF by-mail.	120

## 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	In this context, MCGM had already	
Fig. 1.	waste in the city.	submitted the Compliance of these	
II.	PP to submit copy of compliance of issues	conditions to SEIAA vide No.	
	raised during the public hearing.	Dy.Ch.E./1722/SWM/Project dtd.	
Ш.	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	
1	to ensure that storm water will	submitted by MCGM to you vide	

Sr.No	Specific Conditions	Status of compliance
	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	property of the state of the st
, F. 16, S.,	water with out contamination.	872
VII.	PP to take utmost precautions to prevent the	*
	nuisance to nearby public from the activities	2
	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.	3
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	1
	entry, smoking etc.	
Χ.	PP to ensure that it will process waste	Noted
	generated from CRZ area only.	-
XI.	PP shall ensure compliance of MCZMA	In this context, MCGM had already
	conditions.	submitted the Compliance of
		MCZMA conditions to SEIAA vide
		No. Dy.Ch.E./1722/SWM/Project
		dtd. 25.07.2017.
		The copy of the same was also
		enclosed as Annexure –A in the
		half yearly compliance report
		submitted by MCGM to you vide
		letter U/No.
	1911 2011 11 11 11 11	Dy.Ch.E./3770/SWM/Project,
		Dated 23.01.2019.

Sr.No.	General Conditions	Status of compliance
l.	PP to achieve Zero Liquid Discharge; PP shall ensure that there is no increase in the effluent	
	load to CETP	into HDPE lined ponds is provided
	load to CETT	by the operator.
		As per the technology Leachate will
		be re-circulated into the BLF Cells
		under controlled conditions by the
		operator.

Sr.No.	General Conditions	Status of compliance
		Leachate Treatment Plant is operational. Leachate treatment comprises of two stage biological treatment anaerobic &, aerobic followed by clarification &
		filtration. The excess Leachate will be treated in the said Leachate Treatment Plant.
II.	No additional land shall be used /acquired for any activity of the Project without obtaining	As per the directions of Hon. Supreme Court the land
	proper permission.	admeasuring 141.77 ha. was handed over to MCGM by GoM. However, the mangroves land admeasuring 23.36 ha. was retained by GoM. vide notification dtd. 02.04.2012.  SEIAA issued Environment Clearance for processing of MSW in 65.96 ha. non CRZ area on 05.12.2014.  SEIAA issued Environment Clearance for processing of MSW in further 52.45 ha. CRZ –III area (adjacent to 65.96 ha non CRZ area) on 29.10.2018.  In case any additional land apart from above is to be used/acquired for any activity of the project, the due procedure as per law will be followed.
III.	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
IV.	Proper Housekeeping programmers shall be implemented.	Dedicated team of trained workers is already deployed by the operator to ensure the good housekeeping & cleanliness.
		The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
V.	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.	The compliance of the said condition will be ensured by the operator while carrying out day to day operation at site.

Sr.No.	General Conditions	Status of compliance
VI.	A stack of adequate height based on DG set	At present the plant electricity
	capacity shall be provided for control and dispersion of pollutant from DG set. (If	requirement is fulfilled with captive power generation unit with
	applicable).	backup power supply from MSEDCL
	аррисавіе).	&. Standby DG set of 125 KVA with
	THE COURSE OF TAXABLE 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
	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
	Serio de apropianza	into HDPE lined ponds is provided.
		It is controlled by re-circulation
	Na levela nivi motor	into the landfill BLF Cells. The
		excess leachate is treated in the
		leachate treatment plant and it is
		not allowed to mix with storm
	more productional form of particles half to	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
2 1	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
416.	Pollution Control Board.	submitted to MPCB by the
	Manager and the second of the	operator. The sampling & analysis is being
	and the state of t	carried out by the operator with
		the help of laboratory approved by
	Residence and the second secon	MoEF.
X.	Noise level shall be maintained as per	Noise monitoring as per MSW
2000	standards. For people working in the high noise	Rules is being done by operator.
	area, requisite personal protective equipment	The compliance of the said
	like earplugs etc. shall be provided.	condition will be ensured by the
		operator while carrying out day to
		day operation at site.
XI.	The overall noise levels in and around the plant	Noise monitoring as per MSW
	are shall be kept well within the standards by	Rules is being done by operator.
	providing noise control measures including	The compliance of the said
	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.
	under Environment	
	(Protection) Act, 1986 Rules, 1989.	
XII.	Green belt shall be developed & maintained	Plantation along the periphery of
	around the plant periphery. Green Belt	the site is being done on

Sr.No.	General Conditions	Status of compliance
	Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/Agriculture Dept	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.
ines Blige		After receipt of guidance the operator will be informed to implement the same during development & maintenance of Green belt around the plant periphery.
XIII.	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
XIV.	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
XV.	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
XVI.	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes	The said condition is not applicable to this project as the project involves processing of MSW.
XVII.	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
XVIII.	A separate environment management cell with qualified staff shall be set up for	Operator already has the Environment Health & Safety Cell

Sr.No.	General Conditions	Status of compliance
	implementation of the stipulated environmental safeguards.	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 breaksup. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department	Cost of environmental monitoring and management is included in tipping fees which are being paid to the operator of the project.
XX.	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in	The said condition is complied.
XXI.	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1 <sup>st</sup> June & 1 <sup>st</sup> 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 31 <sup>st</sup> 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)

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded June 2021	Remarks for the values recorded June 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	15.82 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	28.22 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	67.42 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	33.96 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 28.64 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)	8.39 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	< <b>2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded July 2021	Remarks for the values recorded July 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	22.09 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	28.52 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	55.83 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	29.79 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 29.11 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)	7.58 µg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<b>&lt;2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m³	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded August 2021	Remarks for the values recorded August 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	21.66 µg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	27.84 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	58.89 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	36.67 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 29.11 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	< <b>0.</b> 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)	7.37 µg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<b>&lt;2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded September 2021	Remarks for the values recorded September 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	19.94 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	28.02 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	58.20 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	33.96 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 26.34 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)	6.97 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<b>&lt;2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded October 2021	Remarks for the values recorded October 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	19.69 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	28.55 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	60.73 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	35.42 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 25.73 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)	6.74 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<b>&lt;2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded November 2021	Remarks for the values recorded November 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	16.45 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	27.07 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	55.83 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	29.79 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 26.80 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	< <b>0.</b> 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)	5.93 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<b>&lt;2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit

### **MUNICIPAL CORPORATION OF GREATER MUMBAI**

CHIEF ENGINEER (SOLID WASTE MANAGEMENT) DEPTT.

Dy. Ch. B. 12+41 | SWM/Project Date - 17 - 12 - 2021

Office of the Chief Engineer (SWM) Municipal Khatav Market building, 3<sup>rd</sup> 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.
  - 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./737/SWM/Project, Dated 25.06.2021.

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 December-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

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
		generated from BLF Cells is used for captive power generation.
4	The leachate generating from the cells will have to be systematically collected and treated to reduce BOD levels to allowable limits.  Under no circumstances should the leachate be allowed to contaminate the surrounding areas, particularly the mangrove forest on the south western and eastern side of the cell.	Arrangements for leachate collection in impervious HDPE lined collection ponds from BLF-Cells are already operational.  Leachate Treatment Plant is operational. Leachate treatment comprises of two stage biological treatment anaerobic &, aerobic followed by clarification & filtration.  At present leachate collected is re-circulated in BLF Cells under controlled condition.
5	The PP shall take all out efforts to control odor nuisance. PP should take steps to measure odor levels using instruments which are currently available. The measurement of odor levels shall be taken at strategic locations depending on the wind direction and situation of habitats. Through regular monitoring it should be ensured that the odor levels are within the acceptable limits and remedial measures like applying odor controlling bacterial consortium to the garbage are taken up as and when necessary.	Complied. On the basis of details of wind direction & wind speed from Wind Rose Diagrams of this project site, locations for monitoring odor levels in windward and leeward directions in nearby residential colonies are finalized and monitoring has been carried out for odor giving compounds like VOC, Mercaptans, ammonia, hydrogen sulfide etc by the operator through MoEF approved laboratory.  Wind balloon system for guiding wind directions have been installed at BLF Cells and other noticeable places, so that wind direction can be seen easily by the operating staff and necessary arrangement for remedial measures like applying odor controlling bacterial consortium to the garbage and misting of deodorant are taken up as and when necessary.
6	To save the mangroves on the South-Western side of the property which is starved of supply of sea water, the PP should ensure openings of sufficient cross section in the compound wall which are designed and provided in consultation with the Chief Conservator of Forests,	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

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
7	Mangrove Cell.  Mangrove regeneration efforts should be undertaken at the costs of the PP once regular tidal flushing is assured through	protection & preservation of mangrove forest.
8	measures suggested in point 6  The staff handling the solid waste should be trained to ensure zero spillage of the garbage during transport. The PP should ensure proper cleaning of the transport vehicles after unloading the garbage at the dumpsite.	The closed body vehicles are received to achieve zero spillage of garbage and training is given to staff for handling the Solid Waste. It is strictly observed that no tail gates of vehicles will be opened before reaching to the MSW processing site.  Arrangements are in place for Washing/cleaning of incoming waste collection trucks tyres if found with muck and dirt.  Regular cleaning of roads is undertaken to collect spilled garbage if observed and cleanliness is maintained.
9	No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.	Noted.
10	No additional land shall be used / acquired for any activity of the project without obtaining proper permission.	Noted.
11	The project proponent should ensure that the transportation of the hazardous waste to the TSDF conforms to the norms laid down in the Hazardous Waste (Management & Handling) Rules 2013.	The said condition is not applicable to this project as the project involves processing of MSW.
12	The proponent should ensure that TSDF fulfills all the provision of Hazardous Waste (Management & Handling) Rules 2003 & the design of landfill is as per guidelines of CPCB with proper leachate collection arrangement.	The site is designed as per the guide lines of MSW (M&H) Rules-2000 as well as SWM Rules 2016 and the provisions for landfill design & execution of Biogas capturing & flaring arrangement, Leachate collection, treatment, leachate recirculation is taken into consideration.  The provisions for HW(M&H) Rules 2003 are not applicable as site is not

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
		accepting any Hazardous Waste.
13	The TSDF should only handle the waste generated from the member units. A leachate collection system should be provided to collect the leachate at a collection point. Treatment facility for the collected leachate should be provided. The treated water should be reused as far as possible in the project.	Only MSW generated from human habitation area is transported to this site. No industrial hazardous waste is accepted for TSDF hence no member units contributing/generating hazardous waste are covered as member units. Leachate collection and treatment facility is provided and is in operation. However, at present the Leachate is re-circulated at BLF Cells for enhancing the Bio-degradation process for generation of Methane gas. The Leachate Treatment Plant with arrangement of primary, Secondary with tertiary treatment is provided.
14	The proponent should obtain necessary clearance from the Ground Water authority before initiating the project.	Necessary clearance from the Ground Water Authority is already obtained before initiating the project.  MCGM had also informed the Ground water Authority about the revised EC.
15	The depth of the landfill should be decided based on the ground water level at site.	While deciding the depth of landfill in design, ground water level data is taken into consideration. This condition is complied while designing the project & is being complied in execution.
16	Project Proponent should prepare and implement an onsite emergency management plan.	Emergency Management Plan is complied as per the EIA report (Chapter 6). On site "Emergency Plan and Disaster Management Plan" is prepared and is under implementation.
17	Project Proponent shall carryout periodical ground water/soil monitoring in and around the site to check the contamination, including TCLP test for heavy metals	Monthly ground water quality monitoring through Piezo-metric wells water samples locations are provided in drawing. Periodical ground water /soil monitoring in and around the site is carried out at intervals set out in the MSW(M&H) Rules, 2000/ SWM Rules, 2016 through the agency approved by MoEF.  As regards to TCLP test the

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
		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, <a href="www.antonylara.com">www.antonylara.com</a> . Special parameters of VOC and HC are also monitored.
19	Project Proponent should develop Green Belt all along the periphery of the TSDF with plant species that are significant and used for the pollution abatement.	It is revealed that said condition is not applicable to the Kanjur project as the Kanjur project is only for treatment of Municipal Solid Waste (MSW). Plantation in green belt development is being done on progressive basis and majority plantation is already done. Healthy growth of mangroves forest is developed on three side of buffering zone.
20	The project proponent should not store the hazardous wastes more than the quantity that has been permitted by the CPCB / Maharashtra State Pollution Control Board.	Only MSW is received at Kanjur site, therefore question of receiving of Hazardous Waste does not arise.
21	Adequate firefighting facilities should be installed to handle the fire arising from hazardous chemicals/waste that are stored/processed.	The said condition is not applicable to this project as the project involves processing of MSW Only. No HW /H Chemicals are received to this site.  Adequate firefighting system is in place, comprising of water tankers and fire extinguishers which are placed at strategic locations for prevention of any fire incidence.
22	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured	On leeward direction plantation is done as a wind barrier. The arrangement of water sprinkling on roads through tankers is in practice and water sprinkling operation is carried out regularly in summer & winter.
23	Necessary arrangement shall be made to	The said condition is not applicable to

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
	adequate safety and ventilation arrangement in furnace area.	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 collection ponds is provided. It is controlled by recirculation 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	Noise levels are arising from movements of trucks, dozers. These machineries are fitted with silencer for

Sr.No	Conditions Under Environmental Clearance	Status of Compliance
	measures including acoustic hoods. silencers, enclosures, etc. on all sources.	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

Over 100 and 1		
Sr. No	<b>Condition under Environmental Clearance</b>	Status of Compliance
i.	Provision shall be made for the housing of	All required arrangements such as
	construction labour within the site with all	housing, sanitation & safe drinking
F 1 10	necessary infrastructure and facilities such as	water requirements are in place.
	fuel for cooking, mobile toilets, mobile STP,	Medical checkup has been taken
	safe drinking water, medical health care,	to check the health of workers.
	crèche and First Aid Room etc.	
ii.	Adequate drinking water and sanitary facilities	All required provisions are in
3	should be provided for construction workers	place.
	at the site. Provision should be made for	
	mobile toilets. The safe disposal of	
	wastewater and solid wastes generated during	
	the construction phase should be ensured.	
iii.	The solid waste generated should be properly	All required provisions are in
	collected and segregated. Dry/inert solid	place.
	waste should be disposed off to the approved	
	sites for land filling after recovering recyclable	
	material.	
iv.	Disposal of muck during construction phase	All necessary guide lines shall be

Sr. No	Condition under Environmental Clearance	Status of Compliance
v.	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.  Arrangement shall be made that waste water	followed for disposal of muck (if any) generated during construction.  Necessary drainage is made to
	and storm water do not get mixed.	ensure that no waste water and storm water is mixed. Storm water drainage system 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
5		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.
X.	Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be	Necessary due care is taken for not accepting such hazardous material at site.

Sr. No	Condition under Environmental Clearance	Status of Compliance
3	secured so that they should not leach into the ground water.	
xi.	Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.	No hazardous waste is generated during construction phase.
xii.	The diesel generator sets to be used during construction phase should be low Sulphur diesel type and should confirm to Environment (Protection) Rules prescribed for air and noise emission standards.	Diesel generator sets are not used during construction phase, as regular electricity is available at site. DG set at site as standby unit and temporarily used is confirming noise & air emissions standards under EP Rules.
xiii.	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.	Noted.
xiv.	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours	Necessary and due care is being taken.

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

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
i.	Project proponent shall ensure completion of green belt development prior to functioning of MSW processing. Prior certification from appropriate authority shall be obtained.	Plantation in green belt development is being done on progressive basis and majority of the same is already done.
ii.	A complete set of all the documents submitted to SEAC & SEIAA should be forwarded to the Local authority and MPCB.	Complied.
III.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.	Noted.
iv.	A separate environment management cell with qualified staff shall be set up for 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

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
		been formed.
٧.	Separate funds shall be allocated for implementation of environmental protection	Cost of environmental monitoring and management is included in
	measures/EMP along with item-wise breaks- up. These costs shall be included as part of the project cost. The funds earmarked for the	tipping fees & which are being paid to the operator of the project.
	environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB &	
250	this department.	ELECTRONIC REPRESENTATION
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	Complied.
	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.	n te fil med glassen gen av elsterne e. Sen tetta mella i landelle ka strelle e
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	Complied.
	MPCB & this department, on 15 <sup>th</sup> June & 15 <sup>th</sup> December of each calendar year.	region of the following of
viii.	A copy of the clearance letter shall be sent by	A copy of Environment Clearance
	proponent to the concerned Municipal	is hosted on the operator's
	Corporation and the local NGO, if any, from whom suggestions/representations, if any,	Website as per requirement.
	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	Noted.
	control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restored until the desired	, b
х.	efficiency has been achieve.  Regular monitoring of the air quality including SPM & SO <sub>2</sub> levels both in work zone and	Currently air monitoring a locations identified in EIA is being
	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	carried out as per the frequence defined in MSW (M&H) Rules 2000/ SWM Rules, 2016. The reports are submitted to MPCI
	decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit	by the operator.

Sr.No	General Conditions for Post Construction/ Operation phase	Status of Compliance
	report accordingly to MPCB.	
xi.	The proponent shall upload the status of compliance of the stipulated EC conditions,	Air monitoring data is displayed on operator's Website
	including results of monitored data on their website and shall update the same	<u>www.antonylara.com</u> as per requirement of the said clause.
	periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective	Monitoring results are sent to the said Departments as required in
	Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely SPM, RSPM,	the said clause.  Latest Monitoring results are
	SO <sub>2</sub> and NOx (ambient levels as well as stack emissions) or critical sector parameters,	displayed at the location within the site at the main entrance of
	indicated for the project shall be monitored and displayed at a convenient location near	the project site.
	the main gate of the company in the public domain.	of subself and had not be seen
xii.		Complied
XII.	The project proponent shall also submit six monthly reports on the status of compliance	Complied.
	of the stipulated EC conditions including results of monitored data (both in hard copies	
	as well as by-mail) to the respective Regional	1000 Mil 1971 1 DES
	Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	residence in the second second
xiii.	The environmental statement for each	Complied.
	financial year ending 31 <sup>st</sup> March in Form V as	5
	is mandated to be submitted by the project proponent to the concerned State Pollution	Environment Statement is submitted, and the same report is
	Control Board as prescribed under the	displayed on operator's website
	Environment (Protection) Rules, 1986, as	www.antonylara.com.
	amended subsequently, shall also be put on	
	the website of the company along with the	terrest and the property of the
	status of compliance of EC conditions and	FIRST CONTROL OF THE
	shall also be sent to the respective Regional	
	Offices of MoEF by-mail.	k my man and a man and a first the first

## 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	In this context, MCGM had already
	waste in the city.	submitted the Compliance of these
II.	PP to submit copy of compliance of issues	conditions to SEIAA vide No.
	raised during the public hearing.	Dy.Ch.E./1722/SWM/Project dtd.
III.	Earlier SEAC-I observation compliance to be	25.07.2017.
	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 half
	eastern side of premises, proper drainage	yearly compliance report submitted
	plan to ensure that storm water will	by MCGM to you vide letter U/No.
	properly led away so as not to stagnate low	Dy.Ch.E./3770/SWM/Project, Dated
	line areas shall be prepared and included in	23.01.2019
	the EIA report.	
IV.	PP to ensure the compliance of points raised	a g
	by earlier SEAC in their meetings and site	
a Contract	visit report dated 17.02.2016.	9
V.	PP to ensure compliance of the conditions	
Jungel 4	stipulated by MCZMA and CRZ clearance.	
VI.	PP to prepare comprehensive drainage plan	redity of the Andrew
	to ensure proper carrying and disposal of	
trajen e	storm water with out contamination.	
VII.	PP to take utmost precautions to prevent	
	the nuisance to nearby public from the	
Popio 15	activities carried out on site.	* (x)
VIII.	PP to make traffic plan in such a way that no	
	traffic congestion shall happen on the	
ni YET	nearby roads which can affect traffic flow.	
IX.	No burning is allowed on site; PP to take	
	adequate precautions to prevent the fire	
	incidents by way of administrative and	
	safety controls like prevention of	
	unauthorized entry, smoking etc.	
Χ.	PP to ensure that it will process waste	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
		enclosed as Annexure –A in the half
		yearly compliance report submitted
		by MCGM to you vide letter U/No.
		Dy.Ch.E./3770/SWM/Project, Dated
		23.01.2019.

Sr.No.	General Conditions	Status of compliance
l.	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 will
	As the as	be re-circulated into the BLF Cells
		under controlled conditions by the
	rate and the second	operator.
		Leachate Treatment Plant is
		operational. Leachate treatment
	The second of the second	
		comprises of two stage biological
		treatment anaerobic &, aerobic
		followed by clarification &
		filtration. The excess Leachate will
		be treated in the said Leachate
		Treatment Plant.
II.	No additional land shall be used /acquired for	As per the directions of Hon.
	any activity of the Project without obtaining	Supreme Court the land
	proper permission.	admeasuring 141.77 ha. was
		handed over to MCGM by GoM.
	* LJ0~5,31 F3	However, the mangroves land
		admeasuring 23.36 ha. was
		retained by GoM. vide notification
	fred all participates and a	dtd. 02.04.2012.
		SEIAA issued Environment
		Clearance for processing of MSW in
	to the state of th	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
12		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.	DD to take utweet accounting for the body	The compliance of the city
III.e	PP to take utmost precaution for the health	The compliance of the said
	and safety of the people working in the unit as	condition is being ensured by the
	also for protecting the environment.	operator while carrying out day to
		day operation at site.
IV.	Proper Housekeeping programmers shall be	Dedicated team of trained workers

Sr.No.	General Conditions	Status of compliance
	implemented.	is already deployed by the operator to ensure the good housekeeping & cleanliness.  The compliance of the said
enter ou enter en lander e		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
<b>v</b> .	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 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
	s fees reminiscent marks and it	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
Form the second		not allowed to mix with storm water.  Storm water drainage galleries around the BLF Cells have been constructed for the management of rain water.
IX.	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	Monthly Ground water quality is being monitored as prescribed in MSW (M&H) Rules, 2000/ SWM Rules, 2016. The results are submitted to MPCB by the operator.  The sampling & analysis is being carried out by the operator with the help of laboratory approved by MoEF.
Х.	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment	Noise monitoring as per MSW Rules is being done by operator.

Sr.No.	General Conditions	Status of compliance	
	like earplugs etc. shall be provided.	condition will be ensured by the operator while carrying out day to day operation at site.	
XI.	The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including	Noise monitoring as per MSW Rules is being done by operator. The compliance of the said	
	acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise	condition is being ensured by the operator while carrying out day to	
	levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.	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	t the site is being done of progressive basis by the operator. t Dy. Conservator of Forest	
		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	The compliance of the said condition is being ensured by the operator while carrying out day to	
	shall also be installed at strategic places for early detection and warning.	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.No.	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 management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.	The compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
XVIII.	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Operator already has the Environment Health & Safety Cell and the compliance of the said condition is being ensured by the operator while carrying out day to day operation at site.
XIX.	Separate funds shall be allocated for implementation of environmental protection measures /EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department	Cost of environmental monitoring and management is included in tipping fees which are being paid to the operator of the project.
XX.	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in	The said condition is complied.
XXI.	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1 <sup>st</sup> June & 1 <sup>st</sup> 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 said condition is complied.

Sr.No.	General Conditions	Status of compliance
	The clearance letter shall also be put on the	
	website of the Company by the proponent.	=
XXIII.	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 sectoral	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	180
	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	100 at 10
	monitored data (copies enclosed) both in hard	*
W 8 A	copies as well as by e-mail to the respective	
	Regional Office of MoEF, the respective Zonal	
	Office of CPCB and the SPCB.	8
XXV.	The environmental statement for each financial	Noted.
	year ending 31 <sup>st</sup> March in Form-V as is	
	mandated to be submitted by the project	8
	proponent to the concerned State Pollution	8
	Control Board as prescribed under the	
	Environment (Protection) Rules, 1986, as	a 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	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)

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded June 2021	Remarks for the values recorded June 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	15.82 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	28.22 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	67.42 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	33.96 µg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 28.64 μg/m3	Within limit
6	Lead	1.0 μg/m3 (24 hrs)	< <b>0.</b> 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)	8.39 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	< <b>2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded July 2021	Remarks for the values recorded July 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	22.09 μg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	28.52 μg/m3 (24 hrs)	Within limit
3 .	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	55.83 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	29.79 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 29.11 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)	7.58 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	< <b>2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit

<sup>\*</sup> As per Authorization Dated 19.08.2017

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded August 2021	Remarks for the values recorded August 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	21.66 µg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	27.84 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	58.89 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	36.67 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 29.11 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)	7.37 µg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	< <b>2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m³	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded September 2021	Remarks for the values recorded September 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	19.94 µg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	28.02 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	58.20 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	33.96 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 26.34 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)	6.97 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	< <b>2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit

<sup>\*</sup> As per Authorization Dated 19.08.2017

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded October 2021	Remarks for the values recorded October 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	19.69 µg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	28.55 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	60.73 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	35.42 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 25.73 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)	6.74 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	<b>&lt;2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	<b>&lt;0.5</b> μg/m³	Within limit

<sup>\*</sup> As per Authorization Dated 19.08.2017

Sr. No.	Parameters *	Permissible levels as per SWM Rules, 2016	Values Recorded November 2021	Remarks for the values recorded November 2021
1	Sulphur Dioxide	80 μg/m3 (24 hrs)	16.45 µg/m3 (24 hrs)	Within limit
2	Nitrogen Dioxide	80 μg/m3 (24 hrs)	27.07 μg/m3 (24 hrs)	Within limit
3	Particulate matter, PM <sub>10</sub>	100 μg/m3 (24 hrs)	55.83 μg/m3 (24 hrs)	Within limit
4	Particulate matter, PM <sub>2.5</sub>	60 μg/m3 (24 hrs)	29.79 μg/m3 (24 hrs)	Within limit
5	Ozone	8 hours average: 100 μg/m3	8 hours average: 26.80 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)	5.93 μg/m3 (24 hrs)	Within limit
9	Benzene	5 μg/m3 (annual)	< <b>2.1</b> μg/m3	Within limit
10	Benzo(α)Pyrene	1 ng/m³ (annual)	< <b>0.1</b> ng/m <sup>3</sup>	Within limit
11	Arsenic	6 ng/m³ (annual)	< <b>0.5</b> ng/m <sup>3</sup>	Within limit
12	Nickel	20 ng/m³ (annual)	<0.5 ng/m <sup>3</sup>	Within limit
13	Methane	Not to exceed 25% of the Lower Explosive Limit (equivalent to 650 mg/m³)	< <b>0.5</b> μg/m³	Within limit