

Ref.: MIAL/ENV/17/41

Date: December 19, 2017

To,  
Additional Chief Secretary,  
Government of Maharashtra,  
Environment department,  
Room no. 217, 2<sup>nd</sup> Floor,  
Mantralaya Annex,  
Mumbai – 400032.

Dear Sir,

**Subject:** 13<sup>th</sup> half yearly Environmental Compliance report of EC received for “Proposed non operational area (landside) development of CSIA & construction of 6 buildings at Vile Parle, Sahar, Brahmanwada, Marol, Chakala, Kolkalyan and Kurla by M/s Mumbai International Airport Pvt. Ltd.

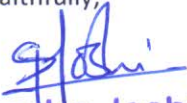
**Ref:** EC dated 01<sup>st</sup> July 2011 vide SEIAA, GoM, File No: SEAC-2010/CR.53/TC-2

With reference to above, please find enclosed herewith the compliance Report of EC conditions for the period from April to September 2017.

Kindly acknowledge the receipt of the EC compliance report.

Thanking you.

Yours faithfully,



**Shailendra Joshi**  
Deputy General Manager - Environment  
Mumbai International Airport Pvt. Ltd.  
Chhatrapati Shivaji International Pvt. Ltd.  
1st Floor, Terminal 1B, Santacruz (E),  
Mumbai-400 099. India.

**Enclosed:** As above

- CC:** 1) Additional PCCF– Ministry of Environment, Forest& Climate Change, Regional office – Nagpur  
(Kind Attn: Mr. Suresh Kumar)  
2) Zonal officer– Central Pollution Control Board, Vadodara  
3) Regional officer – Maharashtra Pollution Control Board, Govandi (E), Mumbai



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Compliance status of the conditions stipulated in Environmental Clearance letter is as:

S.N.	Conditions	Compliance
3i.	This environmental clearance is issued subject to land use verification. Local authority/planning authority should ensure this with request to Rules, Regulation, Notification, Government Resolutions, Circulars, etc. issued if any. This environmental clearance issued with respect to the environmental consideration and it does not mean that State Level Impact Assessment Authority (SEIAA) approved the proposed land use.	Noted. Land use shall be as approved by Urban Development Department, GoM, as per plan prepared by MMRDA (Special Planning Authority for CSIA).
3ii.	Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement in Para 2. Prior certification from appropriate authority shall be obtained.	Will be complied.
3iii.	The height, Construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with survey number before approving layout plan & before according commencement certificate to proposed work. ULB should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area.	Noted. FSI/FAR will be as approved by Urban Development Department, GoM and as per related Rules & Regulations.
3iv.	“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.	“Consent to Establish” for building Multi Level Car Parking (MLCP) 2 (bldg 5) was obtained in Jan 2014 from MPCB and subsequently CTO obtained. The MLCP is fully operational since August 2015.

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3v.	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	All the requirements regarding Sanitary & hygiene is being complied.
3vi.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche and First Aid Room etc.	Housing for construction labor is not permitted in CSIA due to safety & security issue, hence Contractor has made provision for housing of construction labour offsite.
3vii.	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.	Complied.
3viii.	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.	Complied
3ix.	Biodegradable waste should be transferred to mechanical composting units on MIAL's offsite solid waste treatment plant, treated waste (manure) should be utilized in the existing premises for gardening. And, no wet garbage will be disposed outside the premises. Local authority should ensure this.	Noted.
3x.	Arrangement shall be made that waste water and storm water do not get mixed.	Noted.
3xi.	All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	Is being complied.
3xii.	Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and	Noted.

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	improved.	
3xiii.	Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/Agriculture Dept.	Noted.
3xiv.	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.	Noted.
3xv.	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.	Will be complied.
3xvi.	Construction spoil, 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.	Noted.
3xvii.	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.	Noted. All hazardous waste generated is being disposed off as per MPCB guidelines.
3xviii.	The diesel generator sets to be used during construction phase should be low Sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.	Complied.
3xix.	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.	Complied.
3xx.	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	Is being complied.

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	during non-peak hours.	
3xxi.	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.	Complied.
3xxii.	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27 <sup>th</sup> August, 2003. (The above condition is applicable only if the project site is located within the 100Km of Thermal Power Stations).	Noted.
3xxiii.	Ready mixed concrete must be used in building construction.	Being Complied. Ready Mix concrete is being used.
3xxiv.	The approval of competent authority shall be obtained for structural safety of the buildings due to any possible earthquake, adequacy of fire fighting equipments etc. as per National Building Code including measures from lighting.	Is being complied.
3xxv.	Storm water control and its re-use as per CGWB and BIS standards for various applications.	Being planned with applicable norms and approval by MCGM.
3xxvi.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Is being complied.
3xxvii.	The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.	Will be complied.
3xxviii.	The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled/reused to the maximum extent possible. Treatment of 100% gray water	Noted.

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	by decentralized treatment should be done. Discharge of unused treated effluent shall conform to the norms and standards of the Maharashtra Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.	
3xxxix.	Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.	Noted.
3xxx.	Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.	Will be complied.
3xxxii.	Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.	Will be complied.
3xxxiii.	Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.	Will be complied.
3xxxiiii.	Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.	Will be complied.
3xxxv.	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.	Will be complied.
3xxxvi.	Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible like	Will be complied.

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	installing solar street lights, common solar water heaters system. Project proponent should install, after checking feasibility, solar plus hybrid non conventional energy source as source of energy.	
3xxxvi.	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.	Will be complied.
3xxxvii.	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.	Will be complied. The same will be considered during the design.
3xxxviii.	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.	Noted.
3xxxix.	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	Will be complied. The same will be considered during the design.
3xl.	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.	Noted.
3xli.	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental	Noted.



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	clearance.	
3xlii.	Six monthly monitoring reports should be submitted to the Department and MPCB.	Is being complied. Last report was submitted on 23 <sup>rd</sup> June 2017
3xliii.	A complete set of all the documents submitted to Department should be forwarded to the MPCB.	Complied.
3xliv.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.	Noted.
3xlv.	No land development/construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.	Requisite approvals are being taken from concerned local govt. authorities.  Refer Annexure-I for the details of the completed / ongoing projects.
3xlvi.	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Complied.
3xlvii.	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 fund earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department.	Complied.



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## **Annexure-I**

As a part of the Environmental Clearance received for Non-Operational Area (Landside Development) of CSIA & Construction of 6 Buildings dated 1<sup>st</sup> July 2011, following projects have been already completed / initiated:

- Construction of Multi Level Car Parking-2 (bldg 5) is completed and the building is fully operational since August 2015.
- Construction of one of the roads (Project Office Road - 740 m) is completed.
- Construction of 3 Culverts on Nallah and 1 Nallah Cleaning Ramp is completed as a part of expansion/ up-gradation of International Airport Road (IA Road). Balance Road Expansion work shall be taken up later.
- Received approvals from MMRDA & MCGM for construction of four roads in MIAL Colony (approx. 1050 m). The construction started in May 2017 and shall be completed by December 2018.
- Received approvals from MMRDA & MCGM for construction of International Cargo Complex Road (approx. 300 m) and the construction to be commenced shortly.
- Started the construction of utility/ facility buildings in non-operational area of CSIA. Construction of proposed 4.00 MLD STP in MIAL Colony started from November 2016 and shall be completed by December 2018.
- The construction of three roads in North Village zone (area along International Airport road) started from Nov 2017 and will be completed by September 2019.
- The construction of proposed park in IAD colony is started from Oct 2017 and will be completed by September 2019.
- Received approval from MCGM for Realignment of 1800mm dia sewer line in IAD colony. The construction is started from March 2017 & will be completed by April 2018.
- The construction of pumping main & collection well from North village (area along International Airport road) to T2 STP is started from Dec 2017 & will be completed by Dec-2018.