

Compliance Status Report

Integrated Seawoods Project

- Ref** Environment Clearance Letter No. SEAC-2009/CR.135/TC2 dated: 18.12.2009, valid up to 17/12/2016. Amended EC received dated 05/04/2010 (Attached as **Annexure II**) (Applied for revalidation)
Consent to Establish No. BO/CAC-cell/CE/CAC-300 dated 22/03/2017, Valid up to 02/02/2020
- To** M/s. L&T Seawoods Ltd.
- For** "Integrated Seawoods Project" Plot No. R1, Sector 40, Seawoods Railway Station, Nerul, Navi Mumbai, Maharashtra.
- Status** Construction activities are started at site from 01.06.2011 – Approved FSI area is 2,43,004 sq.m out of which 1,23,883 sq.m. is constructed as on date. (Commercial 81,749 sq. m. + Retail 42,134).

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General Conditions for Construction Phase	
i.	Project proponent should follow disaster management plan.
	Yes. Project specific Disaster management plan is submitted to the ministry. And same will be followed while construction as well as operation phase.
ii.	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 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.
	Commencement certificate is attached as Annexure III .
iii.	"Consent for Establishment" shall be obtained from the 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 site.
	The copy of the Consent to Establish has been submitted earlier to the Regional Office. Revalidated Consent to Establish is attached as Annexure IV .
iv.	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout construction phase.
	Yes. Above condition is noted and complied.
v.	A First Aid Room will be provided in the project both during construction and operation of the project.
	Yes. Above condition is noted and complied.
vi.	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 etc.
	Yes. Above condition is noted and complied.

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vii.	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 waste generated during the construction phase should be ensured.
	Yes. Above condition is noted and complied.
viii.	All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.
	Top soil is used for landscaping purpose.
ix.	Green belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agricultural Dept.
	Yes, above condition is noted complied.
x.	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.
	Above condition is noted.
xi.	Soil & 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.
	Yes, soil samples are regularly being collected & analyzed. Please refer Post Monitoring Reports. No groundwater source at site, Tanker water is being used for construction.
xii.	Constructions 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.
	The entire project roads are being constructed in concrete. The footpaths are being prepared in paver blocks. So bituminous material is not being used on the site at all. Even though, proper care is being taken not let any construction spoil contaminate any water way. Also all the construction material is being reused on the site itself.
xiii.	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.
	Yes. Hazardous waste generated, if any, will be sold to authorized recyclers.
xiv.	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.
	At present the construction phase power supply is being provided by MSEDCL. So, D. G. sets are being used on the site as backup power only. The proponent will make sure that all the relevant rules and laws will be adhered to.

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xv.	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.
	The site is using power supplied by MSEDCL and hence DG sets are being used as backup power. If & when the diesel storage exceeds the limits, the required permission shall be obtained as per the rules.
xvi.	Vehicles hired for bringing construction material to the site should be in good condition and should have pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non- peak hours.
	All the vehicles bringing construction material have valid PUC certificate. All the vehicles do comply with relevant air and noise standard. The proponent has specifically instructed the sub-contractors to generally run the vehicles during non-peak hours.
xvii.	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.
	Yes, the Ambient Noise & Ambient Air monitoring are regularly carried out at the boundary wall of the premises as per environmental protection act 1986. Please refer Post monitoring report. Following are the measures will be taken to reduce load on Ambient Noise & Air: <ul style="list-style-type: none"> ▪ Temporary barricades will erect around the premises. ▪ The noise generating activities will carried out only during day time. ▪ Transportation of the construction material will be carried out during day time. ▪ Separate Entry & exist for the construction vehicles will provided.
xviii.	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 27th August 2003. (The above condition is applicable only if the project site is located within the 100 km of Thermal Power Stations).
	Fly ash is being used in concrete as cementitious material.
xix.	Ready mixed concrete must be used in building construction.
	Yes, Ready mixed concrete is being used.
xx.	The approval of component authority shall be obtained for structural safety of the buildings due to any possible earthquake, adequacy of firefighting equipment's etc. as per National Building Code including measures from lighting.
	Above condition is noted.
xxi.	Storm water control and its re-use as per CGWB and BIS standards for various applications.

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	Above condition is noted.
xxii.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
	Ready mix concrete used for part construction completed till date.
xxiii.	The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.
	No ground water source at site.
xxiv.	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. Discharge of this unused treated affluent 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.
	Yes. The total sewage generation from the project will be 3063 CMD. Waste water from all the services except bow down from cooling tower, gardening sector will be treated in STP of capacity 3100 CMD. The proposed treatment technology for STP is Moving Bed Bio Reactor (MBBR). Necessary measures will be made to mitigate the odor problem from STP. STP of 1685 CMD is already installed at site for part construction. Photographs are attached as Annexure V.
xxv.	Project proponent shall ensure completion of STP, MSW disposal facility prior to occupation of the buildings and should obtain completion certification for these systems/aspects from MPCB.
	Yes, STP and MSW disposal facility will be completed before occupation and completion certificate will be obtained from MPCB. <ul style="list-style-type: none"> • Sewage Treatment Plant with total capacity of 3100 CMD will be provided to treat the sewage from the project. The treated sewage will be used for flushing, cooling and gardening. • We will take care for proper disposal of Solid waste generated within the site. Construction way debris generated during pre-construction and construction phase will be disposed of by using it for filling the plot and authorized municipal waste disposal site. • Waste generation during operational phase would include collection, transportation and disposal in a manner so as to cause minimal environment impact. Biodegradable & Non-Biodegradable waste will be disposed to authorized municipal waste disposal site. Photographs of SWM system is attached as Annexure VI.
xxvi.	Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.
	Yes. Above condition is noted.
xxvii.	The Project proponent agreed for written commitment for handing over O & M of

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	Environment Management Plan including STP after completion of the project and will provide corpus for at least 5 years while handing over to the society.		
	Yes. Break up of Environmental Management Plan is as given below:		
	Environment Protection Measure	Capital Cost in Rs.	Recurring Cost/ annum in Rs.
	Environment Protection measures during construction stage (barrier construction, water sprinkling etc.)	1,50,00,000	2,00,000
	Labour facilities (personal protective equipment, other measures concerning occupational health, drinking water/ sanitation etc.)	1,00,00,000	10,00,000
	Sewage Treatment Plant	7,00,00,000	70,00,000
	Solid Waste Management	15,00,000	10,00,000
	Rain Water Harvesting	3,50,00,000	2,50,000
	Green Belt	75,00,000	7,50,000
	Environmental Monitoring (including cost of staffing)	10,00,000	20,00,000
	Total	14,00,00,000	1,22,00,000
xxviii.	Permission to draw ground water shall be obtained from the competent Authority prior to construction / operation of the project.		
	Yes. Above condition is noted.		
xxix.	Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.		
	Yes. Above condition is note and complied.		
xxx.	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.		
	Yes. Above condition is note and complied.		
xxxi.	The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.		
	<ul style="list-style-type: none"> • We will take care for proper disposal of Solid waste generated within the site. Construction way debris generated during pre-construction and construction phase will be properly segregated and disposed off by using it for filling the plot and authorized municipal waste disposal site. • Waste generation during operational phase would include collection, transportation and disposal in a manner so as to cause minimal environment impact. Biodegradable & Non-Biodegradable waste will be disposed to authorized municipal waste disposal sites. 		

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xxxii.	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.
	Yes. Above condition is note and complied.
xxxiii.	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.
	Yes. Above condition is note and complied.
xxxiv.	Energy conservation measures like installation of CFLs / TFLs for the lighting the areas outside 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 installing solar street lights, common solar water heater system. Project proponent should install, after checking feasibility, solar plus hybrid non-conventional energy source as source of energy.
	<p>Following measures will be taken to maximize energy usage:</p> <ul style="list-style-type: none"> ➤ ENERGY CONSERVATION: <ol style="list-style-type: none"> 1. Energy efficient LED light fixtures in common areas and corridors. 2. Automatic power factor correction (APFC) system to maintain PF of 0.95 and above 3. Solar water heater for kitchen hot water requirement. Photographs of solar system is attached as Annexure VII. 4. Variable frequency drive (VFD) for water pumps and HVAC equipment. 5. All utilities and services hook up with Building Management System (BMS) to achieve energy conservation. 6. Insulated Roof to reduce heat gain. 7. Low power consumption chillers. 8. DGU glass to minimize heat radiation. 9. Recycled material like fly ash in concrete. 10. Reduction of transportation by engaging local suppliers for construction material. ➤ GREEN BUILDING CONCEPT Green Features. <ol style="list-style-type: none"> 1. Effective use of existing landscapes 2. Use of energy efficient and Eco-friendly equipment. 3. Use of recycled and Environment Friendly Building materials. 4. Efficient use of water 5. Use of Non-Toxic & recycled materials 6. Indoor Environment Quality 7. Effective controls and building management system ➤ ECO FRIENDLY PRACTISES <ol style="list-style-type: none"> 1. Implementation of recycling program to recycle construction waste material.

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	<p>2. Use of local material to the extent possible in the construction.</p> <p>3. Use of construction material which has recycled content.</p> <p>4. Fly ash is used in concrete</p>
xxxv.	<p>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 D.G. 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.</p>
	<p>Yes, above condition is noted.</p> <p>The DG sets are operated only during power failure & DG room will be provided with the acoustic enclosure.</p>
xxxvi.	<p>Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.</p>
	<p>Noise does not exceed the prescribed standards. Please refer Post Monitoring Reports.</p>
xxxvii.	<p>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.</p>
	<p>Parking Details:</p> <ul style="list-style-type: none"> • 2 wheelers: 1426 Nos. • 4 wheelers: 3765 Nos. <p>The parking will be provided within the buildings.</p> <p>Proper traffic management plan will be followed to avoid traffic congestion.</p>
xxxviii.	<p>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 aspiration for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.</p>
	<p>Ours is IGBC Gold rated building and we are complying all national as well as international norm.</p>
xxxix.	<p>The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air, and ventilation.</p>
	<p>Yes. Above point is noted and complied.</p>
xl.	<p>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.</p>
	<p>There is regular supervision by site engineers throughout the construction phase so as to avoid disturbance to the surrounding.</p>

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xli.	Under the provision 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 clearance.																		
	Yes, above condition is noted.																		
xlii.	Six monthly monitoring reports should be submitted to the Department and MPCB.																		
	Yes, we are regularly submitting six monthly compliance reports to the department & MPCB. Monitoring Reports for the period of January 2017 - June 2017 are attached.																		
xliii.	A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.																		
	Yes, above condition is noted and will be complied.																		
xliv.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.																		
	Yes, above condition is noted.																		
xlv.	No land development/ construction works preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.																		
	Yes, above condition is noted.																		
xlvi.	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.																		
	Yes, above condition is noted.																		
xlvii.	Separate funds shall be allocated for implementation of environmental protection measures EMP along with item - wise breakup. These costs shall be included as part of 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.																		
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	Green Belt	75,00,000	7,50,000
	Environmental Monitoring (including cost of staffing)	10,00,000	20,00,000
	Total	14,00,00,000	1,22,00,000
xlvi.	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		
	Yes, We have published advertisement in two local newspapers and copy of same is already provided.		
xlix.	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 1st June & 1st December of each calendar year.		
	Yes, above condition is noted. Six monthly compliance reports as per condition stipulated in Environmental Clearance is submitted to MPCB & department regularly.		
i.	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.		
	Yes. Above condition is noted.		
ii.	The proponent shall also 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, NO_x (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.		
	Yes. Above condition is noted.		
iii.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions, including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal office of CPCB and the SPCB.		
	Yes, six monthly Compliance report are enclosed.		
iiii.	The environmental statement for each financial year ending 31st March in form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as		

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	amended subsequently, shall also be put on the website of the company along with the status of compliance of EC condition and shall also be sent to the respective Regional Offices of MoEF by e-mail.
	Yes, above condition is noted.
liv.	The environmental clearance is being issued without prejudice to the court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision of the Honorable court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.
	Yes, above condition is noted.

