

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

SEAC-I /C.R24/HTC-2
Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date: 2nd February 2017.

To,
M/s. Maharashtra State Road,
Development Corporation Limited (MSRDC),
D-2, KC Marg, Nityanand Nagar, ONGC Colony,
s Bandra West, Mumbai, Maharashtra 400050

Subject: : Environment clearance for proposed Versova Bandra Sea Link (VBSL) Project
in Mumbai, Maharashtra State by MSRDC.

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 136th meeting and recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 107th meetings.

2. It is noted that the proposal is considered by SEAC-II under screening category 8(b) B1 as per EIA Notification 2006.

Brief Information of the project submitted by you is as below-

1	Name of the Project	Versova Bandra Sea Link (VBSL) Project in Mumbai, Maharashtra State
2	Name, address, e-mail & Contact no. of Proponent	Name: Mr. R.B. Gadge/ Mr. Shreekant. V. Jadhav. Address: Maharashtra State Road Development Corporation Limited (MSRDC), D-2, KC Marg, Nityanand Nagar, ONGC Colony, Bandra West, Mumbai, Maharashtra 400050 Telephone Number: 022-26400190/ 26400201/ 26558175/ 26558176/ 26433908 Email ID: gadge101@gmail.com/
3	Name of Consultant	Address: M/s Fine Envirotech Engineers
4	Accreditation of Consultant (NABET Accreditation)	NABET – QCI-154

5	New Project /Expansion in existing project /Modernization /Diversification in existing project	New Project
6	If expansion/ Diversification, Whether environmental clearance Has been obtained for existing project (If yes, enclose a copy with compliance table)	Not Applicable
7	Activities schedule in the EIA Notification	8 (B)
8	Area Details	Total plot area (sq. m.): Built up area (Sq. m.): Length of sea link – 9.890 km
9	Name of the Notified Industrial area / MIDC area	--
10	TOR given by SEAC? (If yes then specify the meeting)	TOR for EC was granted by SEAC –I in its 122 nd meeting held on 26 th February 2016.
11	Estimated capital cost of the Project (including cost for land, building, plant and machinery seperately)	Rs. 5516 Crores.
12	Location details of the project:	The project is located along the West coast of Mumbai from Bandra West to Versova in Mumbai City. Location Plan is attached as Annexure-I Bandra: Latitude:- 19 ^o 02'48.7" N, Logitude:- 72 ^o 49'23.6" E Versova: Latitude:- 19 ^o 07'29.3" N Logitude:- 72 ^o 48'56.7" E Elevation above Mean Sea Level (metres):- at MSL of 13.2
13	Distance from Protected Area/ Critically Polluted areas/ Eco- sensitive areas/ interstate boundaries	The proposed sea link passes through the CRZ I, CRZ I (i) and CRZ I (ii) along the sea side. Approx distance from Sanjay Gandhi National park Borivali is 10.20 kms.
14	Sewage generation and treatment	Amount of sewage generation (CMD): 16CMD from labour camp of casting yard. Proposed treatment for the sewage: mobile STP Capacity of the STP (CMD) (If applicable): 25 CMD

		The treated sewage will be reused for sprinkling & dust containment excess if any will be drained to Network of MCGM.																														
15	Solid waste Management	Solid waste generated during Construction phase was from Pile and Pilecap. Construction phase waste generated was approx.: 80,000 m ³ /day Solid wastes were disposed through dumpers on the same day without storing at site.																														
16	Energy	The power was obtained through Reliance Power Supply During construction phase the power requirement was 100KVA However provision was made for 2 nos diesel power generating sets of capacity 100 KVA as a backup. Adequate height stack will be provided to DG set.																														
17	Environmental Management plan Budgetary Allocation	<p>Construction Phase:</p> <table border="1"> <thead> <tr> <th>SR. No</th> <th>ITEMS</th> <th>COST (INR) DURING CONSTRUCTION PER YEAR</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>AIR ENVIRONMENT</td> <td>14,40,000</td> </tr> <tr> <td>2</td> <td>WATER ENVIRONMENT</td> <td>6,72,000</td> </tr> <tr> <td>3</td> <td>NOISE ENVIRONMENT</td> <td>1,20,000</td> </tr> <tr> <td></td> <td>TOTAL EMP COST</td> <td>22,32,000.00</td> </tr> </tbody> </table> <p>Operation Phase:</p> <table border="1"> <thead> <tr> <th>SR. No</th> <th>ITEMS</th> <th>COST (INR) DURING OPERATION PER YEAR</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>AIR ENVIRONMENT</td> <td>4,80,000.00</td> </tr> <tr> <td>2</td> <td>WATER ENVIRONMENT</td> <td>2,24,000.00</td> </tr> <tr> <td>3</td> <td>NOISE ENVIRONMENT</td> <td>40,000.00</td> </tr> <tr> <td></td> <td>TOTAL EMP COST</td> <td>7,44,000.00</td> </tr> </tbody> </table> <p>Disaster Management Plan & CSR</p>	SR. No	ITEMS	COST (INR) DURING CONSTRUCTION PER YEAR	1	AIR ENVIRONMENT	14,40,000	2	WATER ENVIRONMENT	6,72,000	3	NOISE ENVIRONMENT	1,20,000		TOTAL EMP COST	22,32,000.00	SR. No	ITEMS	COST (INR) DURING OPERATION PER YEAR	1	AIR ENVIRONMENT	4,80,000.00	2	WATER ENVIRONMENT	2,24,000.00	3	NOISE ENVIRONMENT	40,000.00		TOTAL EMP COST	7,44,000.00
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		SR. No	ITEMS	COST (INR)
		1	Fully equipped Life saving boats at 2 location	75 lacs
2	Training to MSRDC staff & Concessionaire staff for DMP	20 lacs		
3	Environmental & social Awareness program.	35 lacs		
4	Green areas	42 lacs		
	Total	172 lacs		
18	EIA Submitted (If yes then submit the salient features)	Yes Executive Summary is attached as Annexure-2		

3. The proposal has been considered by SEIAA in its 107th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:

General Conditions for Pre- construction phase: -

- (i) No mangrove shall be disturb
- (ii) In case of any change in the location of casting yard PP shall approach SEIAA for fresh approval.
- (iii) PP shall comply with the issues raised by MCZMA/CRZ.
- (iv) This environmental clearance is issued subject to land use verification. Local authority / planning authority should ensure this with respect to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc. issued if any. Judgments/orders issued by Hon`ble High Court, Hon`ble NGT, Hon`ble Supreme Court regarding DCR provisions, environmental issues applicable in this matter should be verified. PP should submit exactly the same plans appraised by concern SEAC and SEIAA. If any discrepancy found in the plans submitted or details provided in the above para may be reported to environment department. 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.
- (v) E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.
- (vi) The permissions/approval shall be issued by the competent Authority to the project only after ensuring sustained connectivity of sewer line to the project site and proper disposal of treated water as per environmental norms.
- (vii) This environmental clearance is issued subject to obtaining NOC from Forestry & Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.

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- (viii) "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.
 - (ix) All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.

General Conditions for Construction Phase-

- (i) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche and First Aid Room etc.
- (ii) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.
- (iii) The solid waste generated should be properly collected and segregated. dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.
- (iv) Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- (v) Arrangement shall be made that waste water and storm water do not get mixed.
- (vi) All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
- (vii) 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 improved.
- (viii) 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.
- (ix) 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.
- (x) 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.

- (xi) 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.
- (xii) The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.
- (xiii) 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.
- (xiv) 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.
- (xv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- (xvi) The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.
- (xvii) 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 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.
- (xviii) 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.
- (xix) Noise should be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
- (xx) 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.

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- (xxi) 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.
 - (xxii) 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 clearance.
 - (xxiii) Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.

General Conditions for Post- construction/operation phase-


- (i) Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line. 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.
- (ii) A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.
- (iii) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.
- (iv) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (v) 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.
- (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://mepc.maharashtra.gov.in>
- (vii) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
- (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.

- (ix) 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, 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.
 - (x) 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.
 - (xi) The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any 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 under EP Act or of the Hon`ble 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, if any or action initiated under EP Act.
 5. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environmental Clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.
 6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
 7. **Validity of Environment Clearance.** The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.
 8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
 9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981,

the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

- 10. Any appeal against this environmental clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D- Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.


 (S. M. Gavai)
 Member Secretary, SEIAA

Copy to:

- 1. Shri. Johny Joseph, Chairman, IAS (Retd.), SEAC-II, office of the Lokayukta and New Up- Lokayukta, New Administrative Building, 1st floor, Madam Cama Road, Mumbai.
- 2. Additional Secretary, MOEF, MoEF& CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
- 3. The MoEF, Regional Office, Nagpur.
- 4. IA- Division, Monitoring Cell, MoEF& CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
- 5. Managing Director, MSEDCL, MG Road, Fort, Mumbai
- 6. Commissioner, Mumbai Municipal Corporation.
- 7. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
- 8. Regional Office, MPCB, Mumbai.
- 9. Select file (TC-3)

(EC uploaded on 13.2.2017)