

# HALF YEARLY REPORT FOR MUMBAI TRANS HARBOUR LINK

JULY TO  
DECEMBER  
2018



*Submitted to*  
**Maharashtra Pollution Control Board (MPCB)**

*Submitted by*



Mumbai Metropolitan  
Region Development Authority  
(MMRDA)

### Information of Project officer and Nodal officer

<b>1.</b>	<p><b>Name of Project officer</b></p> <p><b>Email</b></p> <p><b>Phone /Fax Number</b></p>	<p>Executive Engineer, MTHL- Project Implementation Unit</p> <p>2<sup>nd</sup> floor, New Administrative building, MMRDA, Engineering Division, Mumbai Metropolitan Region Development Authority (MMRDA), E-Block, Bandra Kurla Complex, Bandra East, Mumbai, Maharashtra 400051 Phone No.: 022-26594034</p>
<b>2.</b>	<p><b>Name of Nodal officers</b></p> <p><b>Email</b></p> <p><b>Phone /Fax Number</b></p>	<p>Chief Engineer, MTHL Project Implementation Unit</p> <p>2<sup>nd</sup> floor, New Administrative building, MMRDA, Engineering Division, Mumbai Metropolitan Region Development Authority (MMRDA), E-Block, BKC, Bandra Kurla Complex, Bandra East, Mumbai, Maharashtra 400051</p> <p>Email : <b>chiefengineer1@mailmmrda.maharashtra.gov.in</b> Phone No.: 022-26594034</p>

**Photographs showing present progress of work**

Please refer to the Quarterly Progress Report No. 6 & 7 for the photographs of the progress

## Monitoring the Implementation of Environmental Safeguards

**Ministry of environmental & Forest  
Western Region, Regional Office, Bhopal**

### Monitoring Report

#### PART - I DATA SHEET

No.	Particular	Information
1.	<b>Project type:</b> River Valley / Mining / Industry / Thermal / Nuclear / Others (specify)	: Infrastructure
2.	<b>Name of the Project</b>	: Mumbai Trans Harbour Link Project
3.	<b>Clearance letter (s) / OM No. and date</b>	: F. No. 11-65/2012-IA.III on 25 <sup>th</sup> January, 2016
4.	<b>Location</b>	<b>Start point :</b> Sewri in Mumbai City
	a) District (s)	: <b>End Point:</b> Chirle in Raigad District
	b) State (s)	: Maharashtra
	c) Location latitude / longitude	: <b>Start:</b> Latitude: 18°59'48.57"N Longitude: 72°51'20.67"E <b>End:</b> Latitude: 18°56'18.33"N Longitude: 73° 1'52.92"E
5.	<b>Address for Correspondence</b>	: Chief Engineer,
	a) Address of the Concerned Project Chief Engineer (with Pin code & Telephone / Telex / Fax Numbers)	MTHL Project Implementation Unit 2 <sup>nd</sup> floor, New Administrative building, MMRDA, Engineering Division, Mumbai Metropolitan Region Development Authority (MMRDA), E-Block, BKC, Bandra Kurla Complex, Bandra East, Mumbai, Maharashtra 400051
	b) Address of the Concerned Project Chief Engineer (with Pin code & Telephone / Telex / Fax Numbers)	Phone No.: 022-26594034
6.	<b>Salient features</b>	: The proposed Mumbai Trans Harbour Link ('MTHL') is proposed to facilitate decongestion of the island city by improving connectivity between Island city and main land (Navi Mumbai) and development of Navi Mumbai Region.
	a) of the Project	

No.	Particular	Information
		<p>Mumbai Trans Harbour Link Project is 22 km long 6-lane bridge across the Mumbai bay connecting Sewri on Mumbai side to Chirle on Navi Mumbai side.</p> <p><b>Benefits:</b></p> <ul style="list-style-type: none"> <li>• Saving in travel time, Vehicle Operating Cost and Fuel Savings</li> <li>• Accelerated growth of Navi Mumbai</li> <li>• Decongestion of island city of Mumbai</li> <li>• Connectivity to MbPT and JNPT Ports</li> <li>• Faster access to Navi Mumbai International Airport</li> <li>• Connectivity to Pune Expressway and to South India</li> </ul>
	b) of the Environmental Management Plans	Various measures stipulated in the Environmental Management Plan mentioned in the CRZ clearance are being complied.
7.	<p><b>Breakup of the Project Area</b> :</p> <p>a) Submergence area: forest &amp; non forest</p>	<p>Total Area of Right of Way: 120.228 Ha</p> <p>Forest area: 47.417 Ha</p> <p>Non-Forest area: 72.811 Ha</p>
	b) Others	--
8.	<p><b>Breakup of the project affected population</b> with the enumeration of those losing Houses / Dwelling units only, Agricultural Land &amp; Landless Laborers / Artisans:</p> <p>a) SC, ST / Adivasi</p> <p>b) Others</p> <p>(please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details &amp; year of survey)</p>	<p><b>Project affected population:</b></p> <p>Please refer to the Quarterly Progress Report No. 6 &amp; 7 for the project affected population.</p> <p>Fisheries Department, Govt. of Maharashtra has so far approved eligibility of 2564 Fisher-folks as project affected.</p>
9	<p><b>Financial Details:</b> Project cost as originally planned and subsequent revised estimates and the year of price reference</p>	<p>The total cost of the project is Rs. 17,843 Crore</p> <p>Year of reference : 2016</p>
	b) Allocation made for	Allocation of Rs. 335 Crore has been made for the

No.	Particular		Information
	environmental management plans with item wise and year wise breakup		implementation of Environment Management Plan for the MTHL project.  The item-wise cost breakup of the EMP is attached as Annexure-I.
c)	Benefit cost ratio/Internal rate of Return and the year of assessment	:	-
d)	Whether (c) includes the cost of environmental management as shown in the above	:	-
e)	Actual expenditure incurred on the project so far	:	Rs. 2069.69 Crore
f)	Actual expenditure incurred on the environmental management plans so far	:	Please refer Annexure-II for actual expenditure incurred on the environmental management plans so far.
<b>10</b>	<b>Forest Land Requirement</b>		
a)	The status of approval for diversion of forest land for non-forestry use	:	Stage – I clearance approval for diversion of forest land for non-forestry use has been received from MoEF & CC on 22 <sup>nd</sup> January 2016 vide letter F.No.8-89/2013-FC.
b)	The status of clearing felling	:	NOC from Hon. High Court for cutting of mangroves is received on 28 <sup>th</sup> November 2016.  Working Permission from Forest Department received on 22 May 2017.  Commencement Letters have been issued to the Contractors of Package-1, Package-2 and Package-3 on 23 March 2018.  Felling of Mangroves (forest) has started.
c)	The status of compensatory afforestation, if any Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	:	Funds have been transferred to Mangrove Cell, Maharashtra State Forest Department for Compensatory Afforestation (CA).  Mangrove Cell, Maharashtra State submitted 1 <sup>st</sup> status report of plantation dated 27 July 2018 (attached as Annexure-III).
<b>11</b>	The status of clear felling in non-forest areas (such as submergence area or	:	Commencement Letters have been issued to the Contractors of Package-1, Package-2 and Package-3 on

No.	Particular	Information
	reservoir, approach roads.), if any with quantitative information required.	23 March 2018. Felling in non-forest area has not started yet.
12	<b>Status of construction</b> (Actual&/or planned)	Commencement Letters have been issued to the Contractors of Package-1, Package-2 and Package-3 on 23 March 2018.  Please refer to the Quarterly Progress Report No. 6 & 7 attached with this report.
a)	Date of commencement (Actual & / or planned)	: Commencement Letters have been issued to the Contractors of Package-1, Package-2 and Package-3 on 23 March 2018.
b)	Date of completion (Actual&/or planned)	: -
13	<b>Reasons for the delay</b> if the project is yet to start	: Not Applicable.
14	<b>Dates of Site Visits</b>	--
a)	The dates on which the project was monitored by the Regional Office on previous occasions, if any	: --
b)	Date of site visits for this monitoring report	: --

Name:- D. D. T. Thube

**Chief Engineer, MTHL Project Implementation Unit**

New Administrative building, MMRDA, 2<sup>nd</sup> floor, Engineering Department, Mumbai Metropolitan Region Development Authority (MMRDA), E-Block, BKC, Bandra Kurla Complex, Bandra East, Mumbai, Maharashtra 400051  
Phone No.: 022-26594034

Signature:

  
CHIEF ENGINEER  
(MTHL, PU)  
MMRDA

Stamp:

### HALF YEARLY COMPLIANCE REPORT

1.	<b>Project Type</b>	:	Infrastructure
2.	<b>Name of the Project</b>	:	Mumbai Trans Harbour Link (MTHL) Project
3.	<b>Clearance letter and date</b>	:	F. No. 11-65/2012-IA.III on 25 <sup>th</sup> January, 2016
4.	<b>Location</b>	:	
	<b>a. District</b>	:	<b>Start point :</b> Sewri in Mumbai City <b>End Point:</b> Chirle in Raigad District
	<b>b. State</b>	:	Maharashtra
	<b>c. Latitude/Longitude</b>	:	<b>Start:</b> Latitude: 18°59'48.57"N Longitude: 72°51'20.67"E  <b>End:</b> Latitude: 18°56'18.33"N Longitude: 73° 1'52.92"E
5.	<b>Address of correspondence</b>	:	
6.	<b>a. Address of concerned project Head</b>	:	Chief Engineer,  MTHL Project Implementation Unit  2 <sup>nd</sup> floor, New Administrative building, MMRDA, Engineering Division, Mumbai Metropolitan Region Development Authority (MMRDA), E-Block, Bandra Kurla Complex, Bandra East, Mumbai, Maharashtra 400051 Phone No.: 022-26594034



### Compliance to the Conditions Recommended in CRZ Clearance

Sr. No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
i.	All the terms and conditions stipulated by the MCZMA in their letter No. CRZ 2015/CR236/TC 4 dated 26 <sup>th</sup> November 2015 shall be strictly complied with.	Noted. MMRDA is following the conditions stipulated in the CRZ Clearance.
ii.	All the terms and conditions as mentioned in the earlier CRZ Clearance dated 19 <sup>th</sup> July 2013, shall also be complied with in letter and spirit,	Noted. MMRDA is following the conditions stipulated in the CRZ Clearance dated 19 <sup>th</sup> July 2013.
iii.	The Environment Management Plan as presented during the meeting shall be implemented in consultation with all the stakeholders.	MMRDA is implementing the Environment Management plan as stipulated in CRZ clearance. The implementation plan with detailed EMP is attached as an <b>Annexure I</b> .
iv.	The project/activity shall be carried out strictly be in accordance with the provisions of CRZ Notification, 2011, and shall not affect the coastal ecology of the area including flora and fauna.	Noted and is being complied
v.	The project proponent shall obtain all permissions from concerned authorities prior to commencement of the project and shall observe all safety requirements onshore and offshore.	Noted and will be complied.
vi.	The project proponent shall not undertake any blasting/construction activities during night hours.	Noted.
vii.	The proposal indicates the diversion of 47.417 ha forest land for which the proponent shall obtain the requisite Forest Clearance. The project may be executed in the entire stretch in non-forest land, and while making application to get the Forest Clearance, the execution of work on non-forest land shall not be cited as a reason for grant of FC and in case FC is declined, the forest land shall be maintained at its existing condition. The PP shall submit an undertaking to this effect at the earliest to the concerned Regional Office to this Ministry.	Stage I Clearance for diversion of Forest land is issued by MoEF & CC vide letter dated 22 January 2016.  Working Permission from Forest Department received on 22 May 2017.
viii.	All the wildlife mitigation measures as proposed	Noted and shall be complied

Sr. No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
	by BNHS in their report dated 23.09.2015 for original alignment shall be implemented with the following modification	
	a) Construction of jetty on both the ends passing through mud flats and mangroves must not exceed 30 months and construction of actual spans must not exceed more that further 12 months.	Noted.
	b) The distance between the supporting pillars shall remain 50 m as currently proposed by the MMRDA.	The distance between the piers is maintained more than 50 m.
	c) MMRDA will partly bear the cost of setting of effluent treatment plant in the region as suggested by BNHS.	Noted and being complied.
ix.	The project proponent shall not undertake any blasting/construction activities during night hours.	Noted.

Sr. No.	GENERAL CONDITIONS	COMPLIANCE STATUS
1	Adequate provision for infrastructure facilities including water supply, fuel and sanitation must be ensured for construction workers during the construction phase of the project to avoid any damage to the environment.	Noted and shall be complied.
2	Full support shall be extended to the officers of this Ministry/Regional Office at Nagpur by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	Noted and shall be complied.
3	A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Nagpur regarding the implementation of the stipulated conditions.	Noted and shall be complied
4	MoEF&CC or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.	Noted and shall be complied

Sr. No.	GENERAL CONDITIONS	COMPLIANCE STATUS
5	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with to the satisfaction of the Ministry.	Noted.
6	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the MoEF & CC.	Noted.
7	The project proponents shall inform to the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Noted.
8	A copy of the clearance letter shall be marked to concerned Panchayat/ local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal	Noted and complied
9	A copy of the CRZ Clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The Clearance letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/Tehsildar's Office for 30 days.	Noted and complied.
10	The above stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.	Noted and will be complied.
11	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, and clearances under the Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Noted and will be complied.
12	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the	Complied.

Sr. No.	GENERAL CONDITIONS	COMPLIANCE STATUS
	Ministry of Environment, Forest & Climate Change at. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Nagpur.	
13	This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	Noted.
14	Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
15	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent on its website.	Noted
16	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban Local Body 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.	Complied.
17	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.	Noted. Six monthly reports on compliance & monitoring results of conditions stipulated in CRZ clearance is being submitted to MPCB Regional, sub regional office, Nagpur MPCB office, MCZMA & SEIAA.
18	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 & CC, the respective Zonal Office of CPCB and the SPCB.	Six monthly compliance & monitoring results has been submitted to MPCB Regional, sub regional office, Nagpur MPCB office, MCZMA & SEIAA
19	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be	Noted and shall be implemented.

Sr. No.	GENERAL CONDITIONS	COMPLIANCE STATUS
	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 & CC by e-mail.	

## **Annexures**

<b>Annexure I</b>	Environment Management Plan
<b>Annexure II</b>	item-wise cost breakup of the Environment Management Plan
<b>Annexure III</b>	Quarterly Progress Reports 6 & 7

## Annexure-I Environment Management Plan stipulated in CRZ clearance

Sr. No	Environmental attribute	Cost in Crores
1.	Environmental Monitoring- Air Act, Water Act, Noise levels	8
2.	Compensatory Restoration Plan (Mangroves)	25
3.	Implementation of the suggestions given by BNHS	25
4.	Noise barriers	45
5.	Mitigation of marine water pollution caused due to the surrounding industries and Sewage from Urban Bodies, by providing Funding and Capacity Building for Enabling Effluent Treatment	40
6.	<ul style="list-style-type: none"> <li>• Contribution to Mangroves Fund, an initiative by Govt. of Maharashtra for Conservation and Protection of Mangroves in Coastal areas by depositing Seed Money.</li> <li>• This can be used for Survey &amp; Demarcation of Notified areas</li> <li>• Purchase of vehicles and equipment for anti-Encroachment drives, etc.</li> </ul>	25
7.	Oil Spill Mitigation Plan	10
8.	Habitat quality assessment and monitoring Surveillance management and monitoring team for migratory birds, marine flora, turbidity in sea floor, etc Corpus fund for mudflat restoration program	20
9.	Appointment of Bird Monitor and his assistant till Restoration of Baseline data	4
10.	DMP, Firefighting, Risk Analysis	15
11.	Sustainable development including establishing Nature Interpretation Centre	10
12.	Safety and Security	15
13.	Energy conservation	10
14.	Landscaping-Plantation of trees, flower in plants etc.	8
15.	Compensation and Capacity Building of Fisher folks due to Temporary and Permanent Loss of Fishing round	75
		<b>335 crores</b>

**Annexure-II**

<b>EMP break up for July- December 2018</b>				<b>Cumulative Expenditure (Rs. In Crore)</b>
<b>Sr. No</b>	<b>Environmental attribute</b>	<b>Cost in crores (As stipulated in CRZ clearance) (Rs. in Crore)</b>	<b>Expenditure incurred on the environmental management plans (Rs. in Crore)</b>	
1.	Environmental Monitoring- Air Act, Water Act, Noise levels	8	0.17	0.22
2.	Compensatory Restoration Plan (Mangroves)	25	-	50.81
3.	Implementation of the suggestions given by BNHS	25	--	41.98
4.	Noise barriers	45	0.42	0.50
5.	Mitigation of marine water pollution caused due to the surrounding industries and Sewage from Urban Bodies, by providing Funding and Capacity Building for Enabling Effluent Treatment	40	--	5.80
6.	Contribution to Mangroves Fund, an initiative by Govt. of Maharashtra for Conservation and Protection of Mangroves in Coastal areas by depositing Seed Money. This can be used for Survey & Demarcation of Notified areas. Purchase of vehicles and equipment for anti-Encroachment drives, etc.	25	--	25.00
7.	Oil Spill Mitigation Plan	10	0.18	0.27
8.	Habitat quality assessment and monitoring Surveillance management and monitoring team for migratory birds, marine flora, turbidity in sea floor, etc Corpus fund for mudflat restoration program	20	.	.
9.	Appointment of Bird Monitor and his assistant till	4	--	--



<b>EMP break up for July- December 2018</b>				<b>Cumulative Expenditure (Rs. In Crore)</b>
<b>Sr. No</b>	<b>Environmental attribute</b>	<b>Cost in crores (As stipulated in CRZ clearance) (Rs. in Crore)</b>	<b>Expenditure incurred on the environmental management plans (Rs. in Crore)</b>	
	Restoration of Baseline data			
10.	DMP, Firefighting, Risk Analysis	15	0.46	0.57
11.	Sustainable development including establishing Nature Interpretation Centre	10	--	10
12.	Safety and Security	15	1.58	2.11
13.	Energy conservation	10	1.30	1.36
14.	Landscaping-Plantation of trees, flower in plants etc.	8	0.14	0.24
15.	Compensation and Capacity Building of Fisher folks due to Temporary and Permanent Loss of Fishing round	75	--	48.93
		<b>335 Crores</b>	<b>4.25Crores</b>	<b>187.79Crores</b>

\*Provisions made against Items Sr. No. 3,8 & 9 of EMP are related to bird monitoring and hence are clubbed together. The work has been entrusted to Mangrove Foundation, Mumbai for implementation. The total expenditure made under the above items has been shown against item No. 3 only.