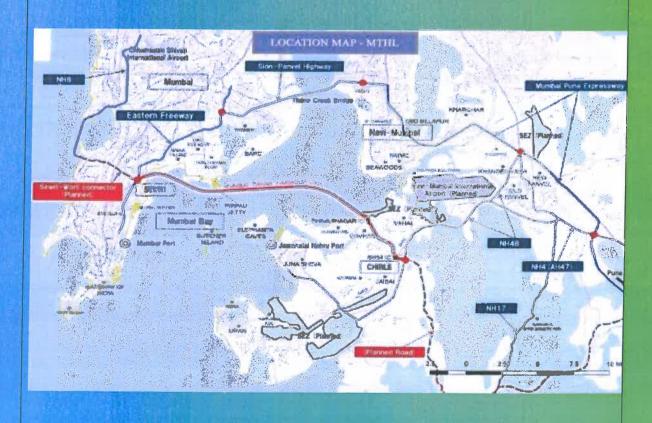


Mumbai Metropolitan Region Development Authority

Mumbai Trans Harbour Link Project

Quarterly Progress Report - No. 22

(From 1st July 2022 to 30th Sep 2022)



Mumbai Trans Harbour Link Project Quarterly Progress Report No. 22 1st July 2022 to 30th Sep 2022

Loan Agreement No. ID-P255 (Tranche-I) & ID-P283 (Tranche-II)

ORGANIZATION INFORMATION

Mumbai Met	ropolitan Region Development Authority				
Person in	Metropolitan Commissioner, MMRDA				
Charge					
Contact	M.M.R.D.A. New Office Building, Bandra-Kurla Complex,				
Address	Plot no. R-5, R-6 & R-12, E Block, Bandra (East),				
	Mumbai - 400051				
	Phone: +91-22-26594000 Fax No:+91-22-2659 1264				
Mumbai Trans Harbour Link Project Implementation Unit					
Headed by:	Engineer-In-Chief				
	Mumbai Trans Harbour Link Project Implementation Unit				
Contact	M.M.R.D.A. New Office Building, Bandra-Kurla Complex,				
Address	Plot no. R-5, R-6 & R-12, E Block Bandra (East),				
	Mumbai - 400 051				
	Phone: +91-22-2659 4034 Fax No: +91-22-2659 4179				
	Person in Charge Contact Address Mumbai Trar Headed by: Contact				

Details of JICA Loan

I)	JICA ODA Loan Portion:	238,572 million Japanese YEN (JPY)
Source of Finance	Tranche-I:	144,795 million Japanese YEN (JPY) (Loan Agreement signed on 31 st Mar 2017)
	Tranche-II:	66,909 million Japanese YEN (JPY) (Loan Agreement signed on 27 th Mar 2020)
Terms and Conditions of JICA ODA Loan (Tranche-1)	Repayment Period:	30 years, including 10 years of the grace period.

DOCUMENT VERIFICATION AND REVISION RECORD

PRO	DJECT NAME	Mumbai Trans Harbour Link Project								
DO	C NO.	22	DATE OF ISSUE							
DO	TITLE	Quarterly Progress Report No. 22								
REV No.	DATE OF ISSUE	DESCRIPTION	PREPARED BY		CHECKED BY	APPROVED BY				
R0	05/07/2017	Quarterly Progress Report No. 1 (Apr-Jun 17)	J Sen	ıthil	Dr T K Sundaram	Dr Robin Sham				
R0	05/10/2017	Quarterly Progress Report No. 2 (Jul-Sep 17)	J Sen	thil	Dr T K Sundaram	Dr Robin Sham				
R0	05/01/2018	Quarterly Progress Report No. 3 (Oct-Dec 17)	J Sen	thil	Dr T K Sundaram	Dr Robin Sham				
R0	05/04/2018	Quarterly Progress Report No. 4 (Jan-Mar 18)	J Sen	thil	Dr T K Sundaram	Dr Robin Sham				
R0	24/07/2018	Quarterly Progress Report No. 5 (Apr-Jun 18)	Prasha	nt B	Dr T K Sundaram	Dr Robin Sham				
R0	10/10/2018	Quarterly Progress Report No. 6 (Jul-Sep 18)	Prasha	nt B	Dr T K Sundaram	Dr Robin Sham				
R1	08/02/2019	Quarterly Progress Report No. 7 (Oct-Dec 18)	Prashai	nt B	J Senthil/ Dr T K Sundaram	Dr Robin Sham				
R0	05/04/2019	Quarterly Progress Report No. 8 (Jan-Mar 19)	Prashar	nt B	J Senthil	V. D. Sharma/ Dr Robin Sham				
R0	18/09/2019	Quarterly Progress Report No. 9 (Apr-Jun 19)	Prashar	nt B	Mr. Som Ghosh	Dr Robin Sham				
R0	13/11/2019	Quarterly Progress Report No. 10 (Jul-Sep 19)	Prashar	nt B	Mr. Som Ghosh	Dr Robin Sham				
R0	11/02/2020	Quarterly Progress Report No.11 (Oct-Dec 19)	Prashar	Prashant B Mr. Som Gho		Dr Robin Sham				
R0	25/11/2020	Quarterly Progress Report No.12 (Jan-Mar 20)	Prashan	nt B	Mr. Som Ghosh	Dr Robin Sham				
R0	15/12/2020	Quarterly Progress Report No.13 (Apr-Jun 20)	Prashan	t B	Mr. Som Ghosh	Dr Robin Sham				
R0	06/01/2021	Quarterly Progress Report No.14 (Jul-Sept 20)	Prashan	t B	Mr. Som Ghosh	Dr Robin Sham				
R0	12/02/2021	Quarterly Progress Report No.15 (Oct-Dec 20)	Prashan	t B	Mr. Som Ghosh	Dr Robin Sham				
R0	06/05/2021	Quarterly Progress Report No.16 (Jan-Mar 21)	Prashan	t B	Mr. Som Ghosh	Dr Robin Sham				
R0	30/07/2021	Quarterly Progress Report No.17 (Apr-Jun 21)	Prashan	t B	Mr. Som Ghosh	Dr Robin Sham				
R0	11/11/2021	Quarterly Progress Report No.18 (Jul - Sep 21)	Prashant	t B	Mr. Som Ghosh	Dr Robin Sham				
R0	17/01/2022	Quarterly Progress Report No.19 (Oct-Dec 21)	Prashant	В	Mr. Som Ghosh	Dr Robin Sham				
R0	22/04/2022	Quarterly Progress Report No.20 (Jan - Mar 22)	Prashant	В	Mr. Som Ghosh	Dr Robin Sham				
R0	12/07/2022	Quarterly Progress Report No.21 (Apr-Jun 22)	Prashant	В	Mr. Som Ghosh	Dr Robin Sham				
R0	18/10/2022	Quarterly Progress Report No.22 (Jul-Sep 22)	Prashant	В	Mrs. Mayil. K	Dr Robin Sham				



Contents

1.0 P	ROJECT DESCRIPTION	5
1.1	Project Objective	
1.2 1.3	Necessity of the Project	
2.0 P	ROJECT IMPLEMENTATION	
2.1	Project Scope	9
2.2	Implementation Schedule	11
2.3	Project Cost	
2.3.1. 2.3.1.		
2.4	Organization for Implementation	
2.4.1	Executing Agency	15
2.4.2	Contractor(s)/ Supplier(s), and Consultant(s) and their Performance:	16
2.4.2.	· · · · · · · · · · · · · · · · · · ·	16
2.4.2.	2 Performance	
	actor's Progress:	
Packa	ge-1 Physical Progress till 30 th Sep 2022.	18
Packa	ge-2 Physical Progress till 30th Sep 2022	19
	ge-3 Physical Progress till 30th Sep 2022	
	ge-4 (ITS) Progress till 30 th Sep 2022	
	ge-1 Safety Report	
	ge-2 Safety Report	
	ge-3 Safety Report	
3.0 BE	ENEFITS DERIVED FROM THE PROJECT (EFFECTIVENESS)	24
3.1	Operational and Physical Condition	24
3.2	Precautions (Measures to be adopted/ Points which require special attention)	
3.3	Environmental and Social Impacts	26
3.4 3.5	Qualitative and Quantitative Data of Monitoring Indicators	29
	Monitoring Plan for the indicators	
4.0	OPERATION AND MAINTENANCE (O&M) (SUSTAINABILITY)	
	, , , , ,	
	O&M and Management	
	•	
	ALUATION	
	JICA and Borrower / Executing Agency performance	
5.2 5.3	Overall Evaluation	2
	ment 1- MMRDA & PIU Organization Chart	
Attachi	ment 2- Environmental & Social Impacts3	6
Attachi	ment 3- JICA's Concurrence Status	7
	ment 4- Project Procurement and Financial Status till 30th Sep 2022	
	ment 5- Financial S-Curve for Cumulative Planned Vs Actual Amount in Rs Crores4 ment 6- Package-1's Construction Programme Updated as of 25th Sep 20224	
	ment 7- Package-2's Construction Programme Updated as of 25th Sep 2022	
Attachr	ment 8- Package-3's Construction Programme Updated as of 25th Sep 20224	4
Attachr	ment 9- Project Progress Photos for Sep 2022	5
Annexu	Ire-1 JICA Reimbursement backup-Aug-22	4
Anneyi Anneyi	ure-2 JICA Reminursement backup-Sept-22	ว ลิ
	ure-1 JICA Reimbursement backup-Aug-22 64 ure-2 JICA Reimbursement backup-Sept-22 65 ure-3 Extension of Validity for CRZ Clearance 66	,

1.0 PROJECT DESCRIPTION

1.1 Project Objective

Original:

0

To improve connectivity in Mumbai Metropolitan region by constructing the Mumbai Trans Harbour Link connecting Mumbai with Navi Mumbai, thereby contributing to mitigation of traffic congestion and promoting regional economic development.

Actual (P/R, PCR)

There is no change in the Project Objective.

1.2 Necessity of the Project

The Project is consistent with the development policy, sector plan, national/regional development plans and demand of target group of the recipient country.

Benefits from MTHL Project

- Saving in travel time for commuters from Mumbai to Navi Mumbai.
- Improved comfort and accessibility between the island and the mainland.
- Reduced operating costs of vehicles due to lesser congestion.
- Smooth traffic flow from Navi Mumbai airport to Mumbai Island.
- Accelerated economic development of Navi Mumbai and nearby regions.
- Greater economic integration of Mumbai Island with Navi Mumbai and extended regions of Pune, Goa, Panvel and Alibaug.
- Improvement in environment and reduced pollution levels.
- Improved safety due to reduction in accidents.
- Improvement in trade competitiveness through faster and improved logistics.
- Accelerated growth of Navi Mumbai.
- Decongestion of Mumbai Island and dispersal of population to Navi Mumbai region & beyond.

Necessity of the Project

- 1. Although the urbanization in India has been rapidly progressing, infrastructure development in the urban areas has not caught up its progress. Particularly, the traffic congestion in the urban areas due to a lack of road network hinders the economic development. Thus, Government of India (GOI) places transport and connectivity as one of the "Growth Enablers" and plans to enhance road network in the "Three Year Acton Agenda 2017-2018 to 2019-20 (NITI Aayog)".
- 2. Mumbai Metropolitan Region, which includes Mumbai and Navi Mumbai, has about 18.4 million people in population as of 2011 (Census 2011) and the population density reaches 20,694 people per square km in the center of Mumbai, which is one of the most overpopulated and high-density cities in the world.
- 3. Mumbai, the narrow stretch of land that has traditionally been the epicentre of India's commerce, has seen a steady increase in population in the last three decades despite obvious spatial constraints. Thus, the development of Navi Mumbai has been identified as



an urgent requirement for broad development in Mumbai Metropolitan Region.

- 4. The Government of Maharashtra (GoM), of which Mumbai Metropolitan Region is under jurisdiction, has been facilitating various development plans particularly in Navi Mumbai area, which stands at the opposite site of Mumbai across the Mumbai Bay and still has spacious area for development, such as a new international airport, Special Economic Zone (SEZ) and expansion of Jawaharlal Nehru Port in order to promote the sustainable economic development in Mumbai Metropolitan Region.
- 5. Furthermore, a lack of connectivity in Mumbai has stunted its growth. The GoM has given importance to construct the faster connection with Mumbai to Navi Mumbai International Airport, Jawaharlal Nehru Port, Mumbai-Pune expressway and main hinterland.
- 6. Accordingly, the Mumbai Trans Harbour Link (MTHL) has been identified as the important infrastructure to improve the connectivity between Mumbai and Navi Mumbai and continue economic development in Mumbai Metropolitan Region.
 - The MTHL is proposed to be developed as an expressway link comprising of a dual three-lane main carriageway bridge connecting Sewri in Mumbai to Chirle in Navi Mumbai. When completed, MTHL will reduce the distance between Mumbai and Navi Mumbai and will help save approximately an hour in travel time. Also, development of Navi Mumbai along with the imminent construction of the Navi Mumbai airport will lead to increased traffic between Mumbai and Navi Mumbai. Consequently, the project is envisaged to; improving accessibility between Mumbai and Navi Mumbai, accelerating growth of Navi Mumbai, smooth traffic flow from Navi Mumbai airport to Mumbai, accelerating economic development of Navi Mumbai and surrounding regions, greater economic integration of Mumbai with Navi Mumbai and extended regions of Pune, Goa, Panvel and Alibaug, and decongestion of Mumbai and dispersal of population to Navi Mumbai region and beyond.
- 7. The Comprehensive Transportation Study (CTS) for Mumbai Metropolitan Region which was guided by Mumbai Metropolitan Region Development Authority (MMRDA) and supported by World Bank, was completed in July 2008, which was over 25 years after the issuance of the last comprehensive transport study. The report provided a vision for Mumbai's future transportation as seamless and integrated system, in which commuters can make their journeys safely and conveniently by various modes of transport, particularly by public transport, and recommended the development of Multi Modal Corridor to take care of the varied travel demands of the region for the period up to 2031. The CTS proposed to develop the highway network in the region. The MTHL has been regarded as the priority road for Mumbai, considering its function and importance connecting between Mumbai and Navi Mumbai.
- 8. Necessity of the Project: To promote economic development in Mumbai Metropolitan Region it is essential to improve the connectivity between Mumbai and Navi Mumbai, by constructing MTHL.

Actual (P/R, PCR)

There is no change in the Necessity of the Project preamble.

NS HAD

0

0

1.3 Rationale of the Project Design

- Timing, Scale, Technology of the Project:

Demand Analysis

0

0

1. At the opening year 2022, the daily traffic on the main bridge is expected to be 39,300 PCU. The traffic is projected to increase up to 103,900 by 2032 and up to 145,500 by the year 2042. The daily breakdown by vehicle class on the main bridge link is presented in the Table 1.3.1 below:

	Table 1.3.1 Demand Projections Over the Period										
Vehicle Type		Sewri Interc ar Interchange	hange and	Between Shivaji Nagar Interchange and Chirle Interchange							
	2022	2032	2042	2022	2032	2042					
Car	24,100	66,400	94,100	4,900	21,300	43,300					
Taxi	2700	14,100	20,200	100	400	2,300					
Bus	2,700	3,700	3,700	2,700	3,700	3,700					
LCV	2,200	4,100	5,600	700	1,300	1,800					
HCV	3,000	6,500	8,100	1,000	2,000	2,200					
MAV	4,600	9,100	13,800	400	900	1,700					
Total	39,300	103,900	145,500	9,800	29,600	55,000					

LCV: Light Commercial Vehicle; HCV: Heavy Commercial Vehicle; MAV: Multi Axle Vehicle

- 2. At the opening year in 2022, the traffic flow on MTHL represents a diversion of 10% on the traffic across Thane creek which will increase up to 16% in 2032. If only Thane Creek Bridge is considered, then the diverted traffic from the bridge will be 21% in 2022 which will rise up to 35% in 2032.
- 3. 6-lane of main carriageway was decided by GoM. It was reviewed based on the forecasted result of future traffic volume by Manual of Specification and Standards for Expressways (IRC: SP:99-2013). The result of the review shows that 6-lane will be required in 2032 (10 years later after traffic open). Although, 8-lane will be required in 2042, it is assumed that the level of service of MTHL would be maintained as additionally metro might be constructed in parallel with MTHL.

Design Parameters / Overall Design

- 4. The MTHL which is 21.8 km long road bridge partly on the land and partly over the creek across the Mumbai Bay between Sewri in Mumbai and Chirle in Navi Mumbai, is to be constructed with the approach sections and interchanges. ITS (Intelligence Transport System) and the other necessary facilities will be provided for full access-controlled bridges.
- 5. As per the provisions of IRC (Indian Road Congress) SP:99-2013, the Width of each lane of the Main Carriageway is 3.5 meters.
- 6. When the design speed is 100 km/h according to the traffic demand forecast the large vehicle, ratio will be as low as 9.4% (2022).
- 7. The shoulder width of bridge towards outside of each carriageway is 2.5 meters and towards median side of each carriageway is 0.75 meters.
- 8. The major portion of MTHL structure is on sea and partly towards ends is on land with



- different type and with different span, viz., PC box girder with 50 m spans which is typically applied on marine viaduct since, it is economical, easy to construct and maintain.
- 9. On the land portion, the PC box girder having span of generally 30m is used.
- 10. As far as the location in which long span (150-180 m) is required to cross significant obstacles, such as navigation channels, pipelines and creeks, the steel box girder bridge with steel deck is proposed with large block erection method to shorten the construction period.
- 11. The project is coded with three lanes of traffic in each direction. The reference toll is presented in the Table 1.3.2 below for each vehicle class in Year 2022 (based on 2015 monetary value reflecting price escalation).

Table 1.3.2: Base Toll Rates (Rs) for different class of vehicles between Interchanges

Vehicle Type	Sewri to Shivaji Nagar	Shivaji Nagar to Chirle	Total
Car	180	60	240
Bus	420	130	550
LCV	240	70	310
HCV	420	130	550
MAV	600	180	780

Intelligent Transport Systems (ITS) and Toll Management System (TMS)

- 12. The Toll Management System will be implemented in MTHL to collect tolls from all road users of MTHL. Two types of toll collection method will be adopted: Electronic Toll Collection (ETC) and Manual (paying by cash).
- 13. The lanes corresponding to these toll collection methods are dedicated ETC lanes and Manual lanes, and Manual system shall be installed to ETC lanes for backup to be able to cope at the time of the trouble of ETC equipment failure.

Traffic management System

- 14. Traffic Management System is a support system to Manage the traffic on MTHL safely and efficiently. The System consists of the information collection system including Closed-Circuit Television (CCTV), Emergency Call Box (ECB), Automatic Traffic Counter-Cum-Classifier (ATCC) and Meteorological Data System (MDS), and Information Dissemination System including Variable message Sign (VMS).
- 15. CCTV Cameras shall be installed at around three places per 1 km, on Both side of main route and the monitoring of the traffic condition of the whole stretch of MTHL will be almost enabled in the Traffic Control Centre and VMS displays the appropriate information for road users on the collated information.
- 16. The Information collected by these devices shall be transmitted to the Command Control Centre through the medium of an Optical Fiber Cable laid in MTHL.

Actual (P/R, PCR)

There is no change in the Rationale of the Project Design.



2.0 PROJECT IMPLEMENTATION

2.1 Project Scope

0

0

0

0

0

0

0

0

0

0

Refer Table 2.1.1 and 2.1.2 for details on Scope of the Project.

Table 2.1.1 Comparison of Original and Actual location

Table 2.1.2 Comparison of Original and Actual Scope

Items	Original	Actual
Construction	n work: 6-lane Marine Bridge Road (21.8 km)	
	 1 Interchange (Sewri) Viaduct superstructure (Marine Portion: PC Box Girder & 	
Barbara	Steel Box Girder with Steel Slab Land Portion: PC Box Girder	1
Package-1 Ch 0+000- 10+380	 & PC-I Girder) Viaduct Substructure (RC Concrete Structure) Viaduct Foundation (Bored piles) 	(P/R and PCR)
(10.380 km)	 Road Furniture and roadside facilities (Traffic Signs and Pavement Marking, Traffic Safety Devices, Crash Barrier, Drainage Structures, Noise Barriers, View Barriers) 	
Package-2 Ch 10+380- 18+187 (7.80 km)	 1 Interchange (Shivaji Nagar) Viaduct superstructure (Marine Portion: PC Box Girder & Steel Box Girder with Steel Slab Land Portion: PC Box Girder & PC-I Girder) Viaduct Substructure (RC Concrete Structure) Viaduct Foundation (Bored piles) Road Furniture and roadside facilities (Traffic Signs and Pavement Marking, Traffic Safety Devices, Crash Barrier, Drainage Structures, Noise Barriers, View Barriers) 	(P/R and PCR) Actual: No View Barriers
Package-3 Ch 18+187- 21+800 (3.61 km)	 2 Interchanges (State Highway-54, National Highway-4B) Viaduct superstructure (Marine Portion: PC Box Girder & Steel Box Girder with Steel Slab Land Portion: PC Box Girder & PC-I Girder & Steel Truss Girder for Rail-over-Bridges (ROB) 	(P/R and PCR) Actual: No Noise

Mumbai Trans Harbour Link Project - Quarterly Progress Report No. 22 (Jul-Sep 2022)

		Actual
	Viaduct Substructure (RC Concrete Structure)	Barriers &
	Viaduct Foundation (Bored piles)	View Barriers
	Cutting Section (6-lane with Slope Protection)	
	Road Furniture and roadside facilities (Traffic Signs and	
	Pavement Marking, Traffic Safety Devices, Crash Barrier,	
	Drainage Structures, Noise Barriers, View Barriers)	
	Administrative Buildings	
	Toll Booths (1 for main alignment and each on and off	
	rumps for 3 interchanges)	
	Traffic Management System (Traffic Control Centre, Closed	
Package-4	Circuit Television (CCTV), Meteorological Observation	(P/R and
ITS (Intelligent	System (MET), Emergency Call Box (ECB), Automatic	PCR)
Transport	traffic Counter-cum-Classifier (ATCC), Variable Message	, 0, 0
System)	Sign (VMS))	
	Highway Lighting (Whole sections Low-positioned lighting	
	for some sections)	
	Electrical Powering System including HV/ LV Ring Network	
	across the Bridge.	
	Tender Assistance	
Consulting	Construction Supervision	(P/R and
Services	Facilitation of Implementation of Environmental Management	PCR)
	Plan (EMP), Environmental Monitoring plan (EMoP).	



2.2 Implementation Schedule

0

0

2.2.1 The Original Implementation Schedule

Table 2-2-1 Comparison of Original and Actual Schedule

I	Items	Original	Status (P/R and PCR) as on 30 th Sep 2022		
1)	Completion of Land Acquisition and Resettlement	Mar 2019	Dec 2022		
2)	Consulting Services				
	a) Selection of Consultant	May - Dec 2016	May - Dec 2016		
	b) Consultancy Works	Dec 2016 – Sep 2024	Dec 2016 – Sep 2024		
3)	Selection of Contractor				
Pa	ackage-1, Package-2 & Package-	3 (Civil)			
	a) Pre-Qualification Process	May - Dec 2016	May – Dec 2016		
_	b) Main Bidding	Jan- Dec 2017	Jan – Dec 2017		
	c) JICA's Concurrence of Contract	Feb-2018	Feb-2018		
Pa	ckage-4 (ITS)				
	a) Pre-Qualification Process	Single Stage Bidding as concurred	by JICA		
	b) Main Bidding	June 2019 – Sep 2020	Jan 2021 - Dec 2021		
4)	Civil Construction				
Pac	ckage-1 and Package-2	Mar 2018 – Sep 2022	Mar 2018–Sep 2023 (Extended)		
Pac	ckage-3	Mar 2018 – Sep 2021	Mar 2018 – Mar 2023 (Extended)		
Pac	ckage-4	Oct 2020 – Sep 2022	June 2022 – Aug 2023		
5)	Defect Liability Period				
Pac	ckage-1 and Package-2	Oct 2022 – Sep 2024	Oct 2023 – Sep 2025		
Pac	ckage-3	Oct 2021 – Sep 2023	Apr 2023 – Mar 2025		
Pac	ckage-4	Oct 2022 – Sep 2024	Sep 2023 – Aug 2025		
	Commencement of Toll Collection	Sep 2022	Oct 2023		
	Selection of O&M Organization	Oct 2020 – Sep 2021	Oct 2022 – Sep 2023		

Attachment 6, 7 & 8: Package wise construction schedules (progress) updated at the end of 2nd Quarter (July – Aug - Sep 2022).

2.2.2 Reasons for changes of the schedule and their effects to the Project

(P/R and PCR)

No change in the Implementation Schedule except the selection of O&M Organization timeline.



2.3 Project Cost

2.3.1.a Comparison of Originally Planned and Actually Incurred Cost by ITEM

Table 2.3.1.a.(i) Originally Planned Cost by ITEM

	Foreign	Currency	Portion	Local	Currency F	ortion		Total		
Cost Breakdown	Total (JPY mil)	JICA Portion (JPY mil)	Others (JPY mil)	Total (Rs. mil)	JICA Portion (Rs. mil)	Others (Rs. mil)	Total (JPY mil)	JICA Portion (JPY mil)	Others (JPY mil)	
Package-1	34,398	34,398	0	45,376	45,376	0	105,713	105,713	0	
Package-2	26,513	26,513	0	32,617	32,617	0	77,774	77,774	0	
Package-3	759	759	0	8,276	8,276	0	13,766	13,766	0	
Package-4 (ITS)	0	0	0	1,444	1,444	0	2,269	2,269	0	
Package-5 (Geotechnical Investigation)	0	0	0	166	0	166	260	0	260	
Dispute Boards (Package-1, 2, 3 & 4)	63	63	0	45	45	0	134	134	0	
Price Escalation	2,251	2,251	0	7,133	7,133	0	13,460	13,460	0	
Physical Contingency	6,398	6,398	0	9,506	9,489	17	21,338	21,312	26	
Consulting Services	1,650	1,650	0	1,587	1,587	0	4,145	4,145	0	
Land Acquisition*	0	0	0	11,293	0	11,293	17,748	0	17,748	
Administration Cost	0	0	0	4,898	0	4,898	7,698	0	7,698	
GST	0	0	0	18,238	0	18,238	28,663	0	28,663	
Import Tax	0	0	0	13,435	0	13,435	21,114	0	21,114	
Interest during construction	2,942	0	2,942	0	0	0	2,942	0	2,942	
Front End Fee	477	0	477	0	0	0	477	0	477	
Total	75,451	72,032	3,419	154,013	105,967	48,046	317,501	238,572	78,929	

Note - 1. Exchange Rate: US\$1=Rs. 71.9, US\$1=JPY 113.0, Rs.1 = JPY 1.57

2. Price Escalation (a) Foreign Currency Portion: 1.83% p.a.

(b) Local Currency Portion: 4.13% p.a.

3. Physical Contingency: 10%

4. Base Year for Cost Estimation: Dec 2018

* Base Cost for Land Acquisition considered in the year 2016 was INR 9,062,669,696. The base cost has been revised to INR 11,293 million considering Price Escalation and 10% Physical Contingency.



Table 2.3.1.a.(ii) Actually Incurred Cost by ITEM

0

0

0.

0

(

W. That I have	Foreig	n Currency	Portion	Local	Currency	Portion		Total		
Cost Breakdown	Total (JPY mil)	JICA Portion (JPY mil)	Others (JPY mil)	Total (Rs. mil)	JICA Portion (Rs. mil)	Others (Rs. mil)	Total (JPY mil)	JICA Portion (JPY mil)	Others (JPY mil)	
Package-1	30,848	30,848	-	37,634	37,634		89,000	89,000		
Package-2	23,624	23,624	-	23,422	23,422		59,801	59,801		
Package-3	633	633	-	6,601	6,601		10,664	10,664		
Package-4 (ITS)	-		-	-			-			
Package-5 (Geotechnical Investigation)	_			196		196	308		308	
Dispute Boards (Package-1, 2, 3 & 4)	-			-			-		-	
Price Escalation	-			4	4		6	6	-	
Physical Contingency	-			-			-		-	
Consulting Services	253	253		362	362		1,262	1,262		
Land Acquisition*	-			7,601		7,601	11,933		11,933	
Administration Cost	-			3,112		3,112	4,886		4,886	
GST	-			15,495		15,495	24,328		24,328	
Import Tax	-			-			-		-	
Interest during construction	-			154		155	242		242	
Front End Fee	-			1,869		1,869	2,935		2,935	
Total	55,358	55,358	-	96,451	68,022	28,428	205,365	160,733	44,632	

Note - 1. Exchange Rate: Rs.1 = JPY 1.57 for MMRDA Portion only

2. Price Escalation (a) Foreign Currency Portion: 1.83% p.a.

(b) Local Currency Portion: 4.13% p.a.

3. Physical Contingency: 10%

4. Base Year for Cost Estimation: Dec 2018

* Base Cost for Land Acquisition considered in the year 2016 was INR 9,062,669,696.

The base cost has been revised to INR 11,293 million considering Price Escalation and 10% Physical Contingency.



2.3.1.b Comparison of Originally Planned and Actually Incurred Cost by YEAR

Table 2.3.1.b.(i) Originally Planned Cost by YEAR (All Figures are in JPY mil)

Cost	Total					Others (MMRDA
Breakdown	Total	Tranche I	Tranche II	Tranche III	Sub Total	Portion)
FY 2017	12,679	10,134	0	0	10,134	2,545
FY 2018	30,771	22,707	0	0	22,707	8,064
FY 2019	72,379	56,816	0	0	56,816	15,563
FY 2020	92,944	55,138	16,040	0	71,178	21,765
FY 2021	66,397	0	50,869	0	50,869	15,527
FY 2022	27,683	0	0	20,113	20,113	7,570
FY 2023	3,723	0	0	565	565	3,158
FY 2024	10,925	0	0	6,189	6,189	4,735
Total	317,501	144,795	66,909	26,868	238,571	78,929

Table 2.3.1.b.(ii) Actually Incurred Cost by YEAR (All Figures are in JPY mil)

Cost	Total		Others (MMRDA			
Breakdown	Total	Tranche I	Tranche II	Tranche III	Sub Total	Portion)
FY 2017	13,738	9,232	-	-	9,232	4,506
FY 2018	26,813	21,695	_	_	21,695	5,118
FY 2019	40,410	31,014	-	_	31,014	9,396
FY 2020	31,822	23,885	_	-	23,885	7,937
FY 2021	54,057	43,284	-	-	43,284	10,773
FY 2022	38524	12,864	18758		31,622	6,902
FY 2023						
FY 2024						
Total	205,364	141,974	18,758	•	160,732	44,632

(Note) 1. Exchange Rate used: Rs.1 = JPY 1.57 for MMRDA Portion only

- 2. Fiscal Year starting from 1st April and ending on 31st Mar.
- **2.3.2** Reason(s) for the wide gap between the original and actual, if there have been any, the remedies you have taken, and their results.

(P/R and PCR)

There is no major gap between the original and actual cost.



1st July to 30th Sep 2022

2.4 Organization for Implementation

2.4.1 Executing Agency

Original:

0

Executing Agency

Mumbai Metropolitan Region Development Authority (MMRDA) was established on 26th Jan1975 in accordance with the Mumbai Metropolitan Development Act, 1974 to make Mumbai Metropolitan Region (MMR) a destination for economic activity by promoting infrastructure and regional planning. MMRDA takes all the necessary measures, required from time to time, in an effective manner and be fully responsible for the Project implementation. After completion of the Project, MMRDA continues to be responsible for the efficient operation and maintenance of the Project.

The GoM appointed MMRDA as the implementing/ executing agency of MTHL vide Government Resolution dated 4th Feb 2009 and further the ownership of MTHL would be with MMRDA vide Government Resolution dated 8th June 2011.

Organization's Role

To construct, execute, carryout, improve, work, develop, administer, manage, control or maintain in MMR all types of roads, highways, express routes, paths, streets, bridges, sideways, tunnels and other infrastructure, works and conveniences, approach road, etc.

Under the Project, MMRDA is responsible for all the tendering process including employment of consultants, as well as for the construction process.

Project Implementation Unit (PIU)

The PIU is in charge of the Projects. The PIU is headed by Chief Engineer, comprising of 6 Divisions/Cells (Finance Division, Social Development Cell, Engineering Division, Land Cell, Administrative Division and Environmental Cell), Supervision/ ITS Consultant and supporting staff.

Procurement

MMRDA shall have to adopt the JICA's Standard Bidding Documents of the latest version, as stipulated in Section 4.01 (2) of "Guidelines for Procurement under Japanese ODA Loans."

Procurement of goods and services, except for consulting services, converted by the Japanese ODA Loan should be implemented in accordance with "Guidelines for Procurement under Japanese ODA Loans", dated in Apr 2012. Employment of consultants should be implemented in accordance with "Guidelines of Employment of Consultant under Japanese ODA Loans", dated in Apr 2012. "Principles of Procurement under the Project" is attached for a brief explanation of the above Guidelines.

Actual, if changed: (P/R and PCR)

There is no change made in the original Organisation Set-up & Implementation methods. Refer Annexure III Organisation Chart.



2.4.2 Contractor(s)/ Supplier(s), and Consultant(s) and their Performance:

2.4.2.1 Procurement & Consultant

Table 2.4.2 Procurement of Contractor(s)/ Supplier(s) and Consultant(s)

Contract	Selection Method			
Package	Original: (P/M)		Actual: (P/R and PCR)	
Construc	tion Works	2		
1	<u>Package-1:</u> From CH 0+000 - To CH 10+380 (10.38 km)	International Competitive Bidding Process (With PQ, Single stage with two envelopes)	No Change	
2	Package-2: From CH 10+380 - To CH 18+187 (7.80 km)	International Competitive Bidding Process (With PQ, Single stage with two envelopes)	No Change	
3	Package-3: From CH 18+187 - To CH 21+800 (3.61 km)	International Competitive Bidding Process (With PQ, Single stage with two envelopes)	No Change	
4	Package-4: To install ITS (Toll Management System and Highway Traffic Management System)	International Competitive Bidding Process (With PQ, Single stage with two envelopes)	International Competitive Direct Bidding Process without Pre-Qualification	
5	Package-5: To conduct the geotechnical investigation	Local Competitive Bidding Process	No Change	
Consulting Services				
1	Consulting Service for Supervision	Short List Method (QCBS)	No Change	



2.4.2.2 Performance

Consultant's Progress:

July 2022:

- 1) GC scrutinized & certified the following invoices claimed by the Contractors:
- i) Package-1: IPC-52 and 53 20% Detailed Verification and IPC-55 80% Ad-hoc.
- ii) Package-2: IPC-50 20% Detailed Verification and IPC-51 80% Ad-hoc.
- iii) Package-3: IPC-46 20% Detailed Verification and IPC-47 80% Ad-hoc.
- iv) Package-4: The Contractor started the Geotechnical Survey Works at the Gavhan location, and the design/ drawings phase has been begun since June 2022.
- 2) GC/Employer didn't submit any reimbursement claim in July 2022.

August 2022:

0

(

()

- 1) GC scrutinized & certified the following invoices claimed by the Contractors:
 - i) Package-1: IPC-54 & 55 20% Detailed Verification and IPC-56 & 57 80% Ad-hoc.
 - ii) Package-2: IPC-51 20% Detailed Verification and IPC-52 80% Ad-hoc.
 - iii) Package-3: IPC-47 20% Detailed Verification and IPC-48 80% Ad-hoc.
 - iv) Package-4: Contract was signed on 4th Aug 2022.
- 2) GC has prepared and submitted a total reimbursement claim of 10717.45 million JPY to MMRDA / JICA in Aug 2022.(Please refer Annexure-1)

September 2022:

- 1) GC scrutinized & certified the following invoices claimed by the Contractors:
- i) Package-1: IPC-56 & 57 20% Detailed Verification and IPC-58 80% Ad-hoc.
- ii) Package-2: IPC-52 & 53 20% Detailed Verification and IPC-53 80% Ad-hoc.
- iii) Package-3: IPC-48 20% Detailed Verification.
- GC has prepared and submitted a total reimbursement claim of 8194.45 million JPY to MMRDA / JICA in Sep 2022. (Please refer Annexure-2)
- 3) 100% of the Technical Design Modules across all the 3 Packages have been given "NONO" by the GC.
- 4) Approximately 99.95% of the Construction (GFC Good For Construction) Design Modules across all the 3 Packages have been given "NONO" by the GC.

Package-1 – 100%, Package-2 – 99.95%, Package-3 -100%

Contractor's Progress:

Package-1 Physical Progress till 30th Sep 2022

S. No	Activity	Total Scope	Unit	Cumulative Achieved Works	% of Work done Against the Total Scope	Remarks
1.	Permanent Bridge Works - L	and/ Inte	rchange	Zone		
1.1	Piles	523	No.	523	100.00%	
1.2	Pile Caps	158	No.	142	89.87%	
1.3	Piers	228	No.	207	90.79%	
1.4	Pier Caps	228	No.	199	87.28%	
2	Permanent Bridge Works - I	ntertidal 2	one			
2.1	Piles	312	No.	312	100%	
2.2	Pile Caps	75	No.	75	100.00%	
2.3	Piers	146	No.	146	100.00%	
2.4	Pier Caps	146	No.	146	100.00%	
3	Permanent Bridge Works - N	larine Zor	ne 🗀			
3.1	Piles	403	No.	403	100%	
3.2	Pile Caps	80	No.	80	100.00%	
3.3	Piers	162	No.	140	86.42%	
3.4	Pier Caps	162	No.	144	88.89%	
4	Permanent Bridge Works - To	otal				
4.1	Piles	1238	No.	1238	100%	
4.2	Pile Caps	313	No.	297	94.89%	
4.3	Piers	536	No.	493	91.98%	
4.4	Pier Caps	536	No.	489	91.23%	
5	Precast Segments					
5.1	Segment Casting	6713	No.	5536	82.47%	
5.2	Segment (Span) Erection+ Cast-in-Situ Slab	478	No.	321	67.15%	
6	OSD Structural Steel					
6.1	Fabrication	53703	MT	53703	100%	
6.2	Assembly (Large Blocks)	53703	МТ	23330	43.44%	
6.3	OSD Span Erection	38	No.	10	26.32%	
7 2	Crash Barrier				The first control of the second control of t	
7.1	Crash Barrier - Median	20405	Rmt	2340	11.47%	
7.2	Crash Barrier - Outer	31077	Rmt	501	1.61%	

Package-2 Physical Progress till 30th Sep 2022

0

0

0

0

0

0

 \bigcirc

 \bigcirc

0

0

S. No	Activity	Total Scope	Unit	Cumulative Achieved Works	% of Work done Against the Total Scope	Remarks
21	Permanent Bridge Works	- Land/ In	terchang	e Zone		
1.1	Open Foundation	113	No.	113	100%	
1.2	Piers	119	No.	119	100%	
1.3	Pier Caps	105	No.	105	100%	
1.4	Portal Beams- Land	6	No.	6	100%	
1.5	Pier Head Segments -Land	42	No.	42	100%	
2 .	Permanent Bridge Works	- Intertida	& CRZ Z	Zone		
2.1	Piles	280	No.	280	100%	
2.2	Pile Caps	72	No.	72	100%	
2.3	Piers	72	No.	72	100%	
2.4	Pier Caps	18	No.	18	100%	
2.5	Pier Head Segments	54	No.	54	100%	ألي سير برسا
3 4	Permanent Bridge Works -	Marine Z	one			Property of the second
3.1	Piles	504	No.	504	100%	
3.2	Pile Caps	120	No.	118	98%	
3.3	Piers	120	No.	112.62	94%	,
3.4	Pier Caps	48	No.	34	71%	
3.5	Pier Head Segments	74	No.	39	53%	
4	Permanent Bridge Works -	Total				
4.1	Open Foundation	113	No.	113	100%	
4.2	Piles	784	No.	784	100%	
4.3	Pile Caps	192	No.	190	99%	
4.4	Piers	311	No.	303.62	98%	
4.5	Pier Caps/ Portal Beams	177	No.	163	92%	
4.6	Pier Head Segments	170	No.	135	79%	
5 -	Precast Segments					
5.1	Segment Casting	3142	No.	2576	82%	
5.2	Segment (Span) Erection + Cast-in-Situ Slabs	272	No.	171	63%	
₹6∄	OSD Structural Steel					
6.1	Fabrication	34726	MT	34,726	100%	
6.2	Assembly (for Large Block)	34726	МТ	9863	28.40%	
6.3	OSD Span Erection	32	No.	7	22%	
7	Crash Barrier					
7.1	Crash Barrier - Median	15614	Rmt	720	4.61%	
7.2	Crash Barrier - Outer	20945	Rmt	30	0.14%	



Package-3 Physical Progress till 30th Sep 2022

S. No	Activity	Total Scope	Unit	Cumulative Achieved Works	% of Work done Against the Total Scope	Remarks
1	Permanent Bridge Works					
1.1	Open Foundations	221	No.	221	100.00%	
1.2	Piles	24	No.	24	100.00%	
1.3	Pile Caps	4	No.	4	100.00%	
1.4	Piers	242	No.	237	97.93%	
1.5	Pier Caps	189	No.	181	95.77%	
1.6	Segment Casting	834	No.	834	100.00%	
1.7	Segment (Span) Erection	59	No.	48	81.36%	
1.8	Cast in-situ Slab	108	No.	88	81.48%	
1.9	Rail Overbridge (ROB) Span	20	No.	7	35.00%	
1.10	Crash Barrier – Median	5500	Rmt	596	10.84%	
1.11	Crash Barrier - Outer	9000	Rmt	0	0%	

Package-4 (ITS) Progress till 30th Sep 2022

- Letter of Acceptance (LOA) was issued to Strabag GmbH and Strabag AG JV on 5th May 2022. The Package-4 Contract was signed on 4th Aug 2022.
- 2. Preliminary design and drawings are submitted for Civil works, ITS & Electrical works for review and approval.
- 3. Safety, Quality, and Detailed works programme submitted for review and approval.
- 4. Request for Mobilization advance submitted.
- 5. The Contractor has commenced the Geotechnical Survey Works at Gavhan location.

Please refer Attachment 9 - Site Progress Photos showing the development of the project.



Health & Safety and Environment (HSE)

The HSE Plans have been submitted by the respective construction agencies for the Packages which are being monitored by the GC on a regular basis.

Package-1 Safety Report

0

0

0

0

0

S	Description	Unit	Jul-Aug-	Cumulative
No.			Sep 2022	Cumulative
1	Average Daily Manpower (all Workmen & Staff)	Numbers	3,454	2,759
2	Man-Days Worked	Days	4,82,452	61,24,635
3	Man-Hours Worked	Hours	38,59,620	5,24,52,099
4	Accident-Free Man Hours	Hours	33,02,136	18,10,908
5	Fatal Accidents (Reportable)	Incidents (Nos.)	0	5
6	Fatality Cases.	Fatalities (FAT)	0	6
7	Lost Time Injury Incidents (Reportable)	Incidents (Nos.)	1	8
8	Lost Time Injury Cases (Persons Injured)	# Injured Persons	1	10
9	Restricted Work Medical Case	RWMC (#Incidents)	0	0
10	Medical Treatment Cases	MTC (#Incidents)	0	1
11	First Aid Cases.	FAC (#Cases)	22	301
12	Near Miss Incidents.	NMI (#Incidents)	7	123
13	Dangerous Occurrences.	DO (#Numbers)	1	5
14	Reportable Sick Cases (Succumbed due Covid)	Sick (#Persons)	0	2
15	Man-Hours Lost	Hours	1,048	2,96,576
16	Man-Days Lost	Days	131	37,081
17	Reportable Incident Frequency Rate / Million Man Hours	# (FAT+ Injuries)/MMH	0.74	0.31
18	Reportable Incident Severity Rate / Million Man Hours	Days Lost/MMHr	106.91	706.95
19	Total Injury Incident Frequency Rate / 1M Man Hours	TIFR	0.74	0.32
20	Toolbox Talks	Sessions	14,173	1,37,573
21	Safety Walk down Inspections (Joint & CFT)	Numbers	20	227
22	Routine Safety Inspections (Safety Team with Reports)	Numbers	96	4,034
23	Total Observations Raised (Safety)	Numbers	8,060	83,423
24	Health & Hygiene Inspections	Numbers	12	52
25	Total Observations Raised (Health & Hygiene)	Numbers	73	520
26	Training Sessions done for Offices & Sites	Sessions	451	3,077
27	Personnel Attended Training Sessions (Classroom & Site)	Persons	6,415	37,793
28	Contractor Safety Committee Meetings	Numbers	3	36
29	Critical Excavations	Numbers	6	86
30	Pre-employment Medical check-ups	Persons	2,716	40,370
31	Safety Inductions completed	Persons	2,716	42,257
32	Mock drills Conducted	Numbers	8 2	32
33	Contractor's Internal Audits Conducted	Numbers	4	49

Mumbai Trans Harbour Link Project - Quarterly Progress Report No. 22 (Jul-Sep 2022)

Package-2 Safety Report

S No.	Description	Unit	Jul-Aug- Sep 2022	Cumulative
1	Average Daily Manpower (all Workmen & Staff)	Numbers	2,792	2,075
2	Man-Days Worked	Days	2,12,157	2,547,113
3	Man-Hours Worked	Hours	23,33,727	28,509,625
4	Accident-Free Man Hours	Hours	16,04,405	929,005
5	Fatal Accidents (Reportable)	Incidents (Nos.)	0	0
6	Fatality Cases.	Fatalities (FAT)	0	0
7	Lost Time Injury Incidents (Reportable)	Incidents (Nos.)	2	11
8	Lost Time Injury Cases (Persons Injured)	# Injured Persons	2	11
9	Restricted Work Medical Case	RWMC (#Incidents)	0	6
10	Medical Treatment Cases	MTC (#Incidents)	0	12
11	First Aid Cases.	FAC (#Cases)	4	175
12	Near Miss Incidents.	NMI (#Incidents)	50	350
13	Dangerous Occurrences.	DO (#Numbers)	0	15
14	Reportable Sick Cases (Succumbed due Covid)	Sick (#Persons)	0	3
15	Man-Hours Lost	Hours	616	5,648
16	Man-Days Lost	Days	77	706
17	Reportable Incident Frequency Rate / Million Man Hours	# (FAT+ Injuries)/MMH	2.51	0.386
18	Reportable Incident Severity Rate / Million Man Hours	Days Lost/MMHr	92	25
19	Total Injury Incident Frequency Rate / 1M Man Hours	TIFR	2.51	1.017
20	Toolbox Talks	Sessions	1,182	11,894
21	Safety Walk down Inspections (Joint & CFT)	Numbers	11	172
22	Routine Safety Inspections (Safety Team with Reports)	Numbers	324	1,596
23	Total Observations Raised (Safety)	Numbers	1,800	22,109
24	Health & Hygiene Inspections	Numbers	0	4
25	Total Observations Raised (Health & Hygiene)	Numbers	0	16
26	Training Sessions done for Offices & Sites	Sessions	145	1,187
27	Personnel Attended Training Sessions (Classroom & Site)	Persons	3,023	22,846
28	Contractor Safety Committee Meetings	Numbers	3	51
29	Critical Excavations	Numbers	0	0
30	Pre-employment Medical check-ups	Persons	886	16,917
31	Safety Inductions completed	Persons	918	17,252
32	Mock drills Conducted	Numbers	3	42
33	Contractor's Internal Audits Conducted	Numbers	0	0



Package-3 Safety Report

()

S No.	Description	Unit	Jul-Aug- Sep 2022	Cumulative
1	Average Daily Manpower (all Workmen & Staff)	Numbers	529	428
2	Man-Days Worked	Days	67,129	7,93,050
3	Man-Hours Worked	Hours	5,37,031	63,44,490
4	Accident-Free Man Hours	Hours	5,37,031	5,37,031
5	Fatal Accidents (Reportable)	Incidents (Nos.)	0	0
6	Fatality Cases.	Fatalities (FAT)	0	0
7	Lost Time Injury Incidents (Reportable)	Incidents (Nos.)	1	3
8	Lost Time Injury Cases (Persons Injured)	# Injured Persons	1	3
9	Restricted Work Medical Case	RWMC (#Incidents)	0	0
10	Medical Treatment Cases	MTC (#Incidents)	0	0
11	First Aid Cases.	FAC (#Cases)	9	124
12	Near Miss Incidents.	NMI (#Incidents)	9	37
13	Dangerous Occurrences.	DO (#Numbers)	0	. 1
14	Reportable Sick Cases (Succumbed due Covid)	Sick (#Persons)	0	0
15	Man-Hours Lost	Hours	24	2,216
16	Man-Days Lost	Days	3	277
17	Reportable Incident Frequency Rate / Million Man Hours	# (FAT+ Injuries)/MMH	6	0.473
18	Reportable Incident Severity Rate / Million Man Hours	Days Lost/MMHr	19	44
19	Total Injury Incident Frequency Rate / 1M Man Hours	TIFR	6	0
20	Toolbox Talks	Sessions	552	8,190
21	Safety Walk down Inspections (Joint & CFT)	Numbers	12	181
22	Routine Safety Inspections (Safety Team with Reports)	Numbers	42	605
23	Total Observations Raised (Safety)	Numbers	541	771
24	Health & Hygiene Inspections	Numbers	6	8
25	Total Observations Raised (Health & Hygiene)	Numbers	31	43
26	Training Sessions done for Offices & Sites	Sessions	49	317
27	Personnel Attended Training Sessions (Classroom & Site)	Persons	827	1,008
28	Contractor Safety Committee Meetings	Numbers	3	47
29	Critical Excavations	Numbers	0	9
30	Pre-employment Medical check-ups	Persons	951	10,528
31	Safety Inductions completed	Persons	951	10,585
32	Mock drills Conducted	Numbers	3	41
33	Contractor's Internal Audits Conducted	Numbers	3	12



3.0 BENEFITS DERIVED FROM THE PROJECT (EFFECTIVENESS)

3.1 **Operational and Physical Condition**

(This section will be developed when the operational plan is available)

Facilities	Description of condition	Problems, its Background and Remedial Action Plan
(P/R and PCR)	(P/R and PCR)	(P/R and PCR)

3.2 Precautions (Measures to be adopted/ Points which require special attention)

Original Issues and Countermeasure(s)	Actual Issues and Countermeasure(s)
3.2.1 General Issues	(P/R and PCR)
1. Toll Arrangement/ Toll Rate	
Fixed toll rate as per the type of vehicle	Appropriate Tolling Policy/ Rates finalization is in
will be levied for the road users after the	progress.
completion of the Project. An appropriate	
tolling policy/ rates will be finalized in	
consultation with the state government	
prior to the completion of Civil works.	
2. Operation and Maintenance	
MMRDA proposes to appoint separate	
agencies for Operation & Maintenance of	A single Operation and Maintenance Contractor
· · · · · · · · · · · · · · · · · · ·	A single Operation and Maintenance Contractor
the bridge and for Toll Management	finalization is in progress.
System. Both the agencies for O & M and	
Toll Management System may be	
appointed through open tendering	
process. Overall monitoring of the two	
agencies would be done by MMRDA in-	
house through a separate cell which	
could be constituted for the purpose.	
MMRDA has confirmed to allocate an	
adequate budget for engaging the	
Contractors.	
	(D/D and DCD)
	(P/R and PCR)
Consideration	MMRDA has disclosed Supplemental EIA &

a. **CRZ Clearance**

- i. Supplemental EIA has been approved by MMRDA and disclosed on the website of JICA. A supplemental EIA report has been disclosed also on the website of MMRDA.
- ii. Furthermore, renewed CRZ Clearance has been obtained in January 2016.
- iii. In accordance with the conditions for CRZ Clearance, appropriate measures shall be taken, and necessary budget

- SIA on MMRDA website.
- The renewed CRZ clearance was granted on 25/1/2016 from MoEF&CC and the approval conditions have been imposed on the Contractors as the Employer's requirements. monitored MMRDA has actively compliances of the approval conditions and maintained them throughout the construction phase.
- MMRDA appointed Mangroves & Marine Biodiversity Foundation for bird monitoring



shall be secured by MMRDA.	and implementation of Flamingos and bird
	monitoring program for the MTHL project
	during the construction as well as the long-
	term monitoring after the construction.
	•Rs 91.42 Crore has been transferred to
	Mangroves & Marine Biodiversity Foundation,
	Mumbai for the development & conservation
	of mangrove area and its afforestation. Such
W 10	funds will be managed by the Mangrove
	Foundation of Maharashtra State.
	As per the renewed CRZ clearance condition,
	IIT Mumbai has been appointed for the DPR
	study to develop a Mahul creek Effluent
	Treatment Plant (ETP). Rs 4.98 Crore was
	secured for IIT services. The Draft DPR has
	been reviewed and approved.
	Proposal of extension for CRZ clearance
	submitted vide reference no MCZMA
	2022/08/CR-246/3719 dated 4 th Aug-2022.
	(Please refer Annexure-3)
h Required Permits	

b. Required Permits

0

The Permits to be obtained by MMRDA/ Contractors and the present status is given in the following Table.

Table 3.2.2 Present Status of some Important Permits

Clearance Required	Approving Authority	Responsible Organization	Obtained by when	Remark /Status
Mangrove Cutting	Hon. Bombay High Court	MMRDA/ Contractor	Approval received from Hon. Bombay High Court on 28 th Nov 2016	Mangrove cutting operation was completed with full compliance and as of now, no further follow up work is required.
Tree Cutting /Transplantati on	Respective Tree Authorities	Contractor for respective Packages	-	Pkg-1: Tree Cutting/ Transplantation permission from the Garden Dept., MCGM obtained on 24th Dec 2020. Pkg-2: Tree Cutting/ Transplantation permission obtained & completed. Pkg-3: Forest Department issued a concurrence on 19/05/2019. CIDCO's permission for Tree Cutting/ Transplantation obtained on 25th Nov 2019.



Clearance Required	Approving Authority	Responsible Organization	Obtained by when	Remark /Status
Consent to Establish	Maharashtra Pollution Control Board	Contractor for respective Packages	Pkg-1-18.07.2018 Pkg-2-16.08.2018 Pkg-3-29.05.2019	

3.3 Environmental and Social Impacts

Major environmental and social impacts have occurred during project implementation (e.g. involuntary resettlement, poverty reduction, impacts on the natural environment).

Issue(s)	Action or countermeasure(s) taken and remaining problem(s)
Establishment of Effective Environmental and Social Cell in PIU	
MMRDA confirmed that Social Development Cell (2 Officers), Land Cell (3 Officers), and Environmental Cell (2 Officers) had been set up.	Cell is established by MMRDA (Annexure III, Organization chart)
2. Rehabilitation and Land Acquisition Issues	Sewri: Involuntary resettlement in Sewri section
a. Affected Area and Population	has been further validated by Social Development Cell of MMRDA. Out of 297 Project Affected Households (PAHs) have given consents as
Due to the Project, 1282 non-titleholders will be involuntary resettled.	follows:
and 108.4379 ha of land will be handed	164 PAHs Kanjurmarg for residential
over by CIDCO.	25 PAHs Kanjurmarg for commercial
	7 PAHs (Satsangi Plot) Kanjurmarg for Commercial
	1 PAHs (commercial to residential) for Bhakti Park
	100 PAHs HDIL Kurla for residential
	Navi Mumbai: CIDCO has been finalizing the land acquisition closely monitored by Land Cell of MMRDA.
	CIDCO has possessed 106.3542 ha of land and handed over to MMRDA, except private land of 2.0837 ha.
	0.3937 ha land is under acquisition out of balance 2.0837 ha land. CIDCO is planning to acquire the balance ROW land of with the help of Collector, Raigad.



Issue(s)	Action or countermeasure(a) taken and
13346(3)	Action or countermeasure(s) taken and remaining problem(s)
b. Entitlement Policy	
MMRDA prepared the entitlement matrix for resettlement of non-title holders in Sewri, which meets the Resettlement and Rehabilitation Policy for Mumbai Urban Transportation Project (1997, amended in 2000) and JICA guidelines for Environmental and social considerations (2010) ("Guidelines") (Attachment 2-5).	enforcement. As per the Attachment 2-5 of JICA MoD, MMRDA has committed to enforce the agreed/approved policy.
c. Compensation to Project affected	
Fishermen Detailed baseline survey will be undertaken by MMRDA in order to identify fishermen who are affected by the Project. Based on the result of the baseline survey, MMRDA will compensate them in accordance with compensation policy prior to the construction. Monitoring will be conducted by MMRDA with assistance of the Consultant to gasp the exact impact during construction and operation phase.	Updated Attachments 2-8 and 2-10 are enclosed in the report.
d. Implementation Schedule	
The Implementation schedule for land acquisition, resettlement and rehabilitation is attached as per Attachment 2-10.	Updated Attachment 2-10 is enclosed in the report.
e. Grievance Redressal Mechanism	Sewri: FLGRC (Field Level Grievance Redressal
Grievance Redressal Committee ("GRC") set under MMRDA will deal with grievances raised by PAPs in Sewri and fishermen to be affected by the Project. Any grievances raised by PAPs whose land is acquired by CIDCO shall be resolved by CIDCO.	Committee) and SLGRC (Senior Level Grievance Redressal Committee) were set as per the RAP and in operation. Compensation Committee has been constituted to address the issues of Compensation to Lease Holders at Sewri. Fishermen: GRC for resolving grievances of the fisherfolk was set up as per the compensation policy and is in operation.
f. Internal Monitoring	
Internal Monitoring of the Resettlement	NS HARO

 \bigcirc

Issue(s)	Action or countermeasure(s) taken and
Artist Dis (DAD)	remaining problem(s)
Action Plan (RAP) implementation will be conducted by MMRDA in accordance with the RAP with necessary assistance of the consultant. RAP Internal Monitoring Form (Attachment 2-8) will be submitted to JICA on a quarterly basis as a part of PSR during the RAP implementation. g. Qualitative Independent Evaluation	Internal Monitoring updates are mentioned in Attachment 2-8.
An Independent Evaluation Agency will be hired by MMRDA for evaluation of RAP implementation. An external evaluation report will be submitted to MMRDA at mid-term and end-term. MMRDA would submit the evaluation report to JICA in a timely manner.	Updated Attachment 2-10 is enclosed in the report.
h. RAP Implementation Budget The amount of estimated resettlement and compensation budget is Rs.906.26 Cr MMRDA informed to the JICA Mission that RAP implementation cost would be borne by MMRDA and ensured sufficient and timely allocation of funds for smooth implementation. i. Environmental Management Plan	As updated in MOD dated 03/09/2019 for MTHL- II, the base cost Budget towards RAP Implementation is updated as Rs 1129.3 Cr.
("EMP") The mitigation measures against air pollution, waste, noise, and water pollution etc. shall be taken during construction and operation phase. Mitigation measures such as installation of noise barrier, appropriate waste management, etc. have been prepared by MMRDA. The mitigation measures are listed in the EMP matrix. (Attachment 2-1). During the detailed design stage, MMRDA, with assistance of the Consultant, will update the EMP, as necessary.	EMP will be updated, if required, in due course of construction activities/progress.
j. Environmental Monitoring Plan ("EMoP")	RANS HA



Issue(s)	Action or countermoscure(a) taken and
13346(3)	Action or countermeasure(s) taken and remaining problem(s)
MMRDA takes overall responsibility for implementation of EMoP. During construction, environmental monitoring will be carried out by contractors under supervision by Construction Supervision consultant. The result shall be reported to the JICA India Office on a quarterly basis as a part of Progress Status Report (PSR) by filling in the Reporting Form of Environmental Monitoring Result. (Attachment 2-4). After completion of the construction, EMoP shall be implemented by MMRDA, and the results shall be submitted to the JICA India Office semi-annually until two years after complementation of construction. The required amount of estimated environmental monitoring budget is borne by MMRDA.	Environmental Monitoring Plan with the package wise budgeted cost is reported in Attachment 2-3 . Environmental Monitoring Results during the construction phase are reported in Attachment 2-4 .
k. Long Term Bird Monitoring	
MMRDA committed to conduct the long-term monitoring of birds and its habitat in Sewri mudflats with the assistance of hired bird expert. During the long-term monitoring, MMRDA will share information and receive advice from external experts including the one from NGOs and civil society.	 MMRDA has entrusted the work of bird monitoring and implementation of Flamingos and birds related mitigation measures & bird monitoring program to Mangrove and Marine Biodiversity Foundation. Rs. 31.92 Crore deposited to Mangrove foundation, Mumbai for periodical disbursement to BNHS.

3.4 Qualitative and Quantitative Data of Monitoring Indicators

Operation and Effect Indicator EIRR and/ or FIRR

Supporting data for Computing EIRR and/ or FIRR

Indicators	Original (Year 2015)	Target (Year 2024) 2 Years After Commercial Operation
Average Annual Daily Traffic (PCU/ day)	-	47,400
Daily Average Travel Time (min) * 1	61 min	15.8 min



0

0

0

0

0

Indicators	Original (Year 2015)	Target (Year 2024) 2 Years After Commercial Operation
Number of Users (Persons/ year) * 2	-	46,077,504
Cargo Volume (tons/ year) * 3	-	13,511,759

^{*1} Section on Sewri - Chirle

^{*2} Assumptions: average passengers of car and taxi (2.6 persons), bus (37.2 persons) based on JICA study. Number of passengers of LCV, HCV and MAV is assumed as 1 person each. *3 Assumptions: the maximum capacity of respective vehicle (LCV: 1 ton, HCV and MAV: 15 tons) is used for estimation.

EIRR	Original: 15.4% Cost: Project cost (excluding Price Escalation, Tax and Duties and Administration cost) O&M cost, Land Acquisition	
	Benefit: Travel Time cost and Vehicle Operation cost Project Life: 32 Years	Attachment(s): Supporting data for computing EIRR
FIRR	Original: 1.5% Cost: Project Cost, O&M cost, Land Acquisition cost Benefit: Toll Revenue Project Life: 32 Years	Actual: (PCR)

3.5 Monitoring Plan for the indicators

Monitoring Methods, Section(s)/ department(s) in charge of monitoring, frequency, the term and so forth are given below:

Original: (P/M and PCR)

Monitoring Organization

PIU shall be In-Charge of Monitoring activities for the Project.

Submission of QPR and PCR

The timely submission of the following documents is required by MMRDA.

- a. Quarterly Progress Report (QPR): The progress report for the Project should be submitted by MMRDA to JICA on quarterly basis, not later than 30 days after the concerned quarter, in the form of Project Status Report (PSR) attached hereto as per Annex I; Updated status land Acquisition, milestone achieved with respect to Action Plan with Timetable, the monitoring form for environmental and social consideration should also be appended to the PSR. In addition, MMRDA shall also forward the Monthly & Quarterly Progress Reports (including S-Curve Chart) prepared by the Consultant to JICA India Office on regular basis till project completion.
- **b.** Project Completion Report (PCR): A project completion report should be submitted by MMRDA to JICA promptly, but in any event not later than six months after completion of the



Project, in the form of Project Status Report (PSR) attached hereto as per Annex I.

Actual: (P/R and PCR)

Monitoring Organization

PIU for MTHL has been established for monitoring the Project.

Submission of QPR and PCR

This QPR No. 22 is submitted for the period of 1st July to 30th Sep 2022.

3.6 Achievement of the Project Objective

(PCR)

0

0

4.0 OPERATION AND MAINTENANCE (O&M) (SUSTAINABILITY)

4.1 O&M and Management

- Organization Chart of O&M
- Operational and maintenance system (structure and the number, qualification and skill of staff or other conditions necessary to maintain the outputs and benefits of the project soundly, such as manuals, facilities and equipment for maintenance, and spare part stocks etc.)

Original: (P/M)

Operation & Maintenance, Toll Management and ITS

MMRDA proposes to engage two separate agencies for O&M and Toll Management System. Though MMRDA will not directly carry out O&M, the overall monitoring over the O&M agency will be the responsibility of MMRDA. O&M Budget will be allocated by MMRDA. O&M and increase in toll rate will be done in accordance with the NHAI's manuals such as "NHAI Works manuals".

Actual: (PCR)

4.2 O&M Cost and Budget

- The actual annual O&M cost for the duration of the project, as well as the annual O&M budget.

(PCR) This will be reported when the outcome of the above work-study is available.



5.0 EVALUATION
5.1 JICA and Borrower / Executing Agency performance
JICA:
(PCR)
Borrower/ Executing Agency:
(PCR)
5.2 Overall Evaluation
Please describe your evaluation on the overall outcome of the project.
(PCR)
5.3 Lessons Learnt and Recommendations
Please raise any lessons learned from the project experience, which might be valuable for he future JICA assistance or similar type of projects, as well as any recommendations, which

might be beneficial for better realization of the project effect, impact and assurance of



sustainability.

(PCR)

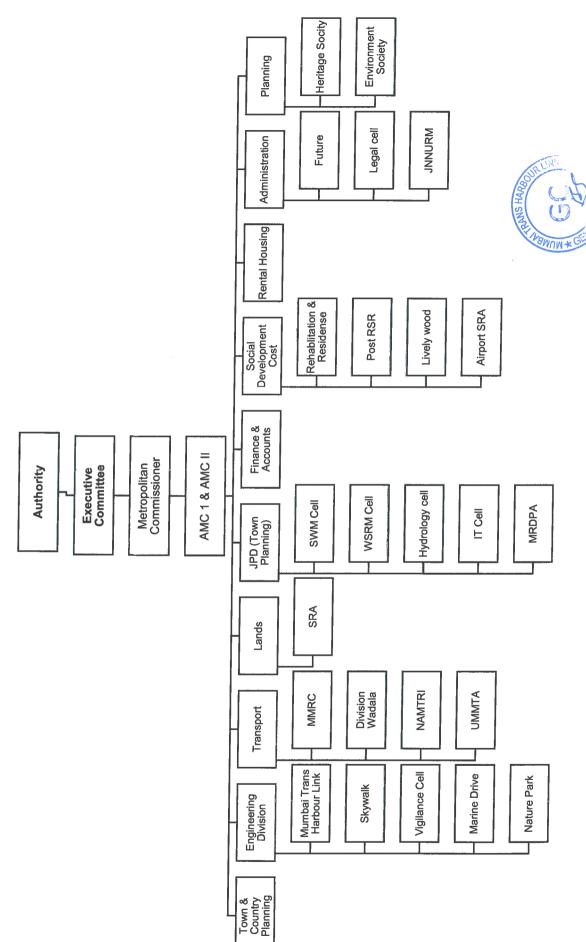
HILL INC. DECISED I HISMORIU DESCRESSO DESCRIPTO DE	ARE STORES AND ADDRESS OF TAXABLE DATE.
our Link Project - Quarterly Progress Report No. 22 /	11111 Sen 2012

Attachment 1- MMRDA & PIU Organization Chart

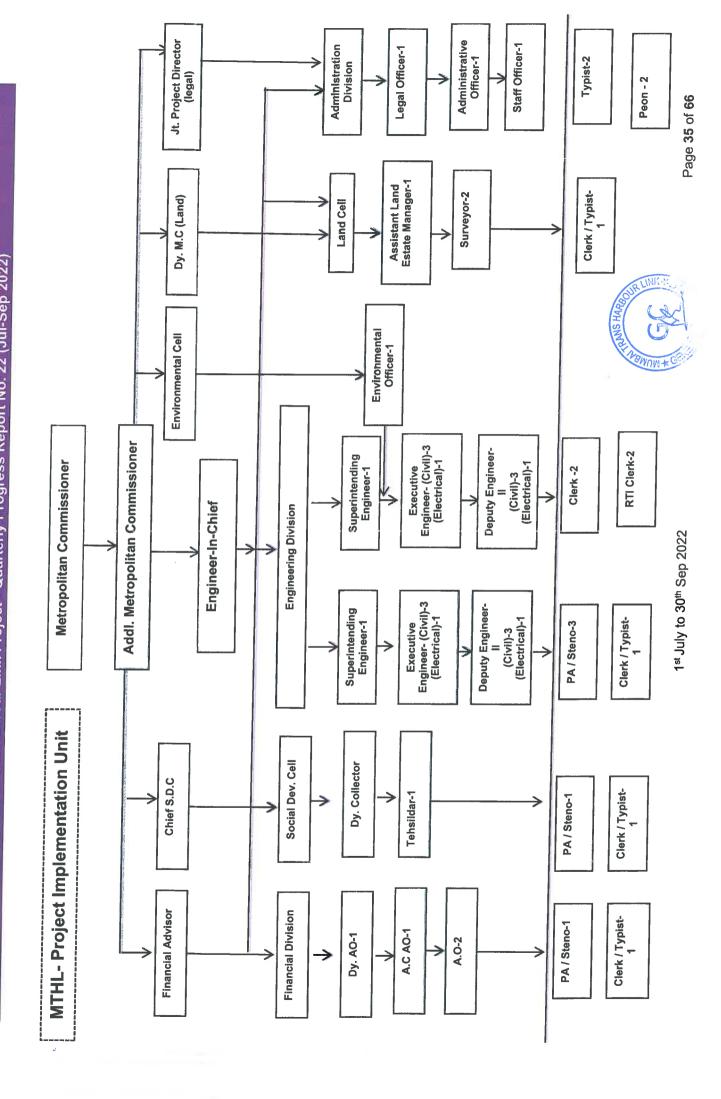


MMRDA Organization chart

Mumbai Trans Harbour Link Project - Quarterly Progress Report No. 22 (Jul-Sep 2022)



1st July to 30th Sep 2022



Attachment 2- Environmental & Social Impacts

Attachment 2-3 – Envi. Monitoring Plan with Package-wise Estimated Cost

Attachment 2-4 – Environmental Monitoring Result Reporting Form

Attachment 2-6 – MTHL Land Acquisition Status

0

0

0

0

0

0

0

0

0

0

0

0

0

-01

Attachment 2-8 – RAP Internal Monitoring Form

Attachment 2-10 – Schedule of the RAP Implementation



Environmental Monitoring Plan with Packagewise Estimated Cost

Catadorna	No.	Impacted Item on JICA Guidelines	Parameter	Method	Lecation	Frequency a year	Cost (INR)	Cost Pkg, I (INR)	Cost Pkg.2 (INR)	Cost Pkg.3 (INR)	Total Cost (INR)	Standard Central Pollution Control Board (CPCB) Ministry of Environment & Forest (MoEF)	# The Section of the Fig.
	1	Air pollution	SO ₂ , NO ₂ , PM ₁₀ , PM _{2.5} , O ₃ , CO, (6 Items)	National Ambient Air Quality Standards, 2009	1. Sewri & Sewri bay area for package I	Fortnightly at all locations except 2 locations each near Batching plants	1,800,000	15,000,000	1,800,000	742,500	17,542,500	National Ambient Air Quality Standards (NAAQS) by Central Pollution Control Board (CPCB)	P1 contractor team is conducting Ambient air quality monitoring with reference to National Standards and clause 1.2 of Employer's requirement.
					Nhava temporary bridge casting yard in Gavhan for package II	4 Times / Year						(Standard for 24hrs: Industrial and Residential/ Ecological Sensitive area)	P 2 contractor Monitoring plan has been designed as per EIA of 2015
					3. Gavhan & Chirle for package III	Fortnightly only for 3 months (jan-2019 to Mar-2019). Then quarterly monitoring as per MOEF and CPCB norms						· SO ₂ : 80 / 80μg/m ³	P3 contractor team is conducting Ambient air quality monitoring with reference to National Standards and clause 1.2 of Employer's requirement.
												PM ₁₀ : 100 / 100μg/m ³ PM _{2.5} : 50 / 60μg/m ³ O ₃ : 180 / 180μg/m ³	P 1 received Consents CTE & CTO from MPCB and they are following MPCB frequency in addition to frequency set by Environment Expert from GC. The NAAQ standards are showing High rate as that is the usual procedure. The frequency of monitoring is set by us which varies for different parameters as either Statutory requirements or as required by us to ensure we have sufficient data in hands if there are additional claims for Compensation in C5 category. Summary: Although the contract conditions for all packages were same at the time of biding. Later modifications suggested by GC were not accepted by P 2. P1 and P3 accepted the modifications and hence the difference. Second point is P 1 carrying out monitoring as per the obatiend CTE and CTO. Both other packages have applied for CTE but haven't obtained it yet. So we expect the monitoring frequecy would change after obtaining CTE.
	2	Water pollution	pH, BOD, DO, Turbidity and O&G		Sewri & Sewri bay area for package I	Quarterly	810,000	2,400,000	810,000	0	3,210,000	CO: 0.4 / 0.4mg/m ³ Marine water quality Standards – Class SW-IV Harbour Waters (MPCB)	Water Pollution not applicable for Pkg. 3
					2. Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year						pH : 6,5-9	
u,					3. Gavhan & Chirle for package III	Not applicable						DO: 3 mg/l Turbidity: 30 NTU BOD: 5 mg/l 0 & G: 10 mg/l	
Pollution	3	Waste	Volume of waste soil, cutting tree and domestic garbage		1. Sewri & Sewri bay area l for package I	Daily	500,000	299,200,000	500,000	500,000	300,300,00 0		The cost of waste disposal for P1 includes C&D waste, Pile muck etc. from all areas like, interchange, intertidal and marine. The disposal location is at MCGM approved location Bhayandarpada, Thane.



Category	No.	Impacted Item on JICA Guidelines	Parameter	Method	2. Nhava temporary bridge & casting yard in Gavhan fo package II 3. Gavhan & Chirle for package III	4 Times / Year	Cost (INR)	Cost Pkg1 (INR)	Cost Pkg 2 (INR)	Cost Pkg.3 (INR)	Total Cost (INR)	Standard Central Pollution Control Board (CPCB) – Ministry of Environment & Forest (MoEF) Municipal Soild Waste Management Rules, 2013 Generated waste shall be reused or disposed at designated site. Sites have been identified and the location for Pkg. 1 is at Bhayandar Pada in Thane. For Pkg. 2 & 3 is in Navi Mumbai at Pushpak Node nera "Teen Taki Junction" along the Amar Marg.	P2 contractor has considered only Domestic garbage with respect to CIDCO. Other wastes are not considered. Construction wastes will be
	4 and 8	Soil Contamination/ sedimentation	Heavy Metals & Oil & Grease (5-10 items shall be selected from Soil pollution standards)	Manual Soil Testing in India by Department of Agriculture and	1. Sewri & Sewri bay area for package I 2. Nhava temporary bridge & casting yard in Gavhan for package II	1. Muck: 1 Time / Year 2. Sediments: 4 Times / Year	150,000	1,500, 00 0	150,000	100,000	1,750,00 0	Soil Pollution Standard in India (MOEF) Cd: 0.01mg/l	
					3. Gavhan & Chirle for package III	*If any spillage/ leakage take place from chemical, fuel storage area. *One time grab sample to be collected during Bridge Construction *Pre & Post Monsoon at Storage area only						Lead: 0.01mg/l Chromium (VI): 0.05mg/l Arsenic: 0.01mg/l T-Mercury: 0.0005mg/l Copper: 125mg/kg (some items shall be selected from totally 25 standards items)	
	5	Noise and vibration	Ambient and road side noise (dB(A) $L_{ m Aeq}$	IS Standard)	Sewri & Sewri bay area for package I Nhava temporary bridge & casting yard in Gavhan for package II Gavhan & Chirle for package III	Fortnightly 2 Times / Year	150,000	54,000	150,000	369,000	573,000	-Construction Noise; 85dB(A) -Ambient Noise Standards in India (dB (A) _{Leq}) 1.Industrial Area	
						-						Day Time: 75 (6-22hr) Night Time: 70 (22-6hr) 2.Commercial Area: Day Time: 65 (6-22hr) Night Time: 55 (22-6hr) 3.Residential Area: Day Time: 55 (6-22hr)	
			Vibration (dB L10 or		1 Location Gavan area for	Half yearly	75,000	0	75,000	400,000	475,000	Night Time: 45 (22-6hr) 4.Silence Zone Day Time: 50 (6-22hr) Night Time: 40 (22-6hr) - Construction vibration 75dB	Not applicable for Pkg. 1
			mm/sec)		package III							-Vibration Standards roadside 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) 2. Residential Area: Day Time: 65 (7-20hr) Night Time: 60 (20-7hr)	
	9 and 10	Protected Area /Ecosystem	1.Monitoring of mudflat conditions including fauna-flora	and quantitative	mangrove replant area for Package I	Quarterly during the construction Period	6,500,000	7,200,000	6,500,000	0	13,700,000		Not applicable for Pkg. 3
			2. Monitoring of Cutting Tree and replantation/		area for package II	4 Times / Year						Significant impacts are not caused by the project	
:			3.Monitoring of Mangrove Plantation area appointed by MoEF	1-1. Fauna-Flora Line-Point census and record number and appeared species	Not applicable for Package III							Note)	AREON !

Category	, No.	Impacted Item on JICA Guidelines				Frequency a year		Cost Pkg,1 (INR)	Cost Pkg.2 (INR)	Cost Pkg.3 (INR)	Total Cost (INR)	Standard Central Poliution Control Board (CPCB) Ministry of Environment & Forest (MoEF)	Z Tremovities
Natural environment			4. Monitoring of sedimentation soil and ecological parameter (18items on Supplemental EI/Table 6.1.15 for soil and 7 items such as 1)Netprimary productivitye, 2)Chlorophyll-a, 3)Phosphate, 4)Nitrate, 5)Nitrite, 6)Particulate Organic Carbon, 7) SiO ₂)	community surve	ļ							Detailed monitoring plan will be setup during basic design stage	
				1-3: Benthos Surve 2-1: Cutting trees confirmation 3-1: Mangrove survey in the replanted area	1					s		Standard for Soil; Supplemental EIA Table 6.1.15 Standard for Ecological Parameter: Netprimary Productivity <1,500 mgC/m3/day at surface Chlorophyll-a <4mg/m3 Phosphate: 0.1-90µg/l Nitrate: 1.0-500µg/l Nitrite: <125µg/l Particulate Organic Carbon: 10-100mg/m³ SiO2: 10-5,000µg/l	
	11	Hydrology	Flooding situation	Flood level measurement during high precipitation periods	Not applicable for Package I		350,000	0	350,000	0	350,000	Project activities and structures does not cause flooding and impacts on tidal conditions	Not applicable for Pkg. 1 & 3
					2 Locations (CRZ at Sewri and Shivaji Nagar) for Package II	4 Times / Year							
			_		Not applicable for Package								
	12	Topography and Geology	Conditions in embankment area	Visual survey about Stability of embankment	Not applicable for Package I Interchange in Shivaji Nagar for Package II	4 Times / Year	115,000	0	115,000	0	115,000	Embankment shall be stabilized without any landslide and cracks	Not applicable for Pkg, 1 & 3
H	13	Local economy			Not applicable for Package Affected area	-	As per Actuals						
	14	such as employment and livelihood Local conflict of	Construction	Confirmation of	2 Locations (camp site in	2 Times / Year	125,000	0	125,000	0	125,000	Employment opportunity shall be provided fairly	
опшеп		interests	worker's township	workers list from contractor	Sewri and Shivaji Nagar) for Package II							minproyment opportunity shall be provided fairly	
ial envir	15	Infectious diseases such as HIV/AIDS	Number of infected patient	Confirmation of health check list from contractor	2 Locations	4 times / year x 4.5 years	525,000	0	525,000	0	525,000	Infection disease rate shall not be caused by the project	
Sociz	16	Labour Environment	Construction worker's condition	Confirmation of safety devices and conditions via interviews	2 Location (camp site in Sewri and Shivaji Nagar) for Package II	2 times / year	500,000	0	500,000	0		"Building And Other Construction Workers (Regulation of Emloyment and Conditions of Service) Act, 1996", "The building and other construction worker's welfare cess Act, 1996" and international standards such as "IFC Performance Standard 2 Labor and Working Conditions"	
Other	17	Accidents	Number of accidents		2 Locations (camp site in Sewri and Shivaji Nagar) for Package II	4 Times / Year	400,000	0	400,000	0	400,000	Any accidents are not caused by construction	
		<u> </u>		Total			8140500	325,354,000	12,000,000	2,211,500	339,565,500		



The Project for Construction of Mumbai Trans Harbour Link Reporting Form of Environmental Monitoring during Construction

 Ionitoring Period -July to	Sept 2022	

This form is prepared for reporting the monitoring results to JiCA India Office. Only minimum required parameters are included in this form, and not all perameters in EMoP are covered.

0

		1						Monitoring Result	
No.	Item	Parameter	Location	Frequency a year	Item and Stanadard	Location 1- Pkg 1	Location 2	Location 3- Pkg 3	- reasons why the data is exceeding star - counter measures when the data is exce
			Sewri & Sewri bay area for package I	Quarterly monitoring is conducted at all locations.	National Ambient Air Quality Standards (NAAQS)	Sewri	Shivaji Nagar	Chirle	Remarks
1	Air pollution	SO ₂ , NO ₂ , PM ₁₀ , PM _{2.5}	Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year	(Standard for 24hrs: Industrial and Residential)				
			3. Gavhan & Chirle for	From march -2019	1. SO ₂ : 80μg/m ³	9.54	BDL	14	BDL- Below Detectable Limit
			package III	onwards monitoring is	2. NO ₂ : 80μg/m ³	24.90	24	35	
				conducted quarterly as per MOEF and CPCB norms	3. PM ₁₀ : 100µg/m ³	182.36	79	74	
				inozi una or ob noma	4. PM _{2.5:} : 60μg/m ³	38.09	34	40	
	1				5.CO:02mg/m3	1.20	1.4	0.71	
	Water pollution pH, BOD, DO, Tu and O&G				6.VOCs	1,38	2.4	1.05	
			Sewri & Sewri bay area for package I	Quarterly	Marine water quality Standards – Class SW-IV Harbour Waters (MPCB)	Zone I	Zone II	Zone III/ Package-03	
2	Water pollution	pH, BOD, DO, Turbidity	2. Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year	1. pH: 6.5-9	7.5	7.5	Not applicable	
		and Ood	Gavhan & Chirle for package III	Not applicable	2. DO: 3 mg/l	4.8	6	Not applicable	
	1		package III		3. Turbidity: 30 NTU	11.3	16.3	Not applicable	
	ŀ				4. BOD: 5 mg/l	2.8	BDL	Not applicable	
					5. O & G: 10 mg/l	BDL[DL=2]		Not applicable	
			1.0.1.0.0.11	D 1	6.COD	21	12	Not applicable	
			Sewri & Sewri bay area for package I	Daily	Municipal Soild Waste Management Rules, 2013	37.86 Tonnes for 3 months	Shivaji Nagar Camp Site	Chirle Camp Site	
			Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year	Generated waste soil (t) total	3103 m3 for 3 months	App. 2000 CuM Collected in jumbor bags and Disposed off in EBB Location	NA	
3	Waste		3. Gavhan & Chirle for package III	Once site clearing work/execution part of work start.	Generated cutting treel (ha) total			Tree cutting work completed and Half yearly report submitted to Client (April, 2022)	Both of forest and CIDCO area (234+75)= 309
					Generated domestic waste (t/month) total		3.5 T/quarter. It is disposed through	2.5 T for the quarter	1.875 M3
					<u> </u>		CIDCO daily.		
			Sewri & Sewri bay area for package I	1. Muck: 1 Time / Year 2. Sediments: 4 Times / Year	Confirmation of adequate disposal (visualt survey) Soil Pollution Standard in India (MOEF)	Sediment sample at Sewri	Muck Testing Done on September 2021 and Reports submitted to GC	Not applicable	Kindly check the letter No.Ref No. Mtl P3/L&T/GC/LT/HSE-2226/2020 dated on 12.
			Nhava temporary bridge & casting yard in Gavhan for package II	100	1. Cadmium: 0.01mg/l	BDL[DL=2]	BDL		
			3. Gavhan & Chirle for	*If any spillage/ leakage	2. total cyanide : not detected	NA	<0.005		
			package III	take place from chemical,	organic phosphorus: not detected	NA NA	8.5		
			fit fit	fuel storage area. *One time grab sample to be collected during Bridge Construction *Pre & Post Monsoon at Storage area only	4. lead: 0.01mg/l	7	0.17	Not applicable for package-	Hazardous Storeage is situated in low laying area area. Due to this reason complete ground area is complete to avoid further water logging in rainy se Therefore soil sample is impossible to taken out fraround the Oil & chemical storage area. Same has by GC during Febrary-2020 monitoring.
					5. chromium (VI): 0.05mg/l		BDL		
	Soil	Heavy Metals & Oil &			6. arsenic: 0.01mg/l or 15mg/kg (agri-land soil)	BDL[DL=1]	BDL		
4	Contamination/sedim entation	Grease			7. total mercury: 0.005mg/l	BDL[DL=2]	BDL		-
	Cillation		Grease		8. alkyl mercury: not detected	Not detected	BDL		
					9. PCBs: not detected	Not detected			



The Project for Construction of Mumbai Trans Harbour Link Reporting Form of Environmental Monitoring during Construction Attachment 2-4

1. Environmental Monitoring during Construction for 4.5 years

Monitoring Period -July	y to Sept 2022	

Attachment 2-4

This form is prepared for reporting the monitoring results to JICA India Office. Only minimum required parameters are included in this form, and not all perameters in EMOP are covered.

1					11. dichloromethane: 0.02mg/l	Not detected	BDL 25 stand	dards items during the Detailed De	esign. Only the selected items shall be reported to
1	i		İ		12. carbon tetrachloride: 0.002mg/l	Not detected	BDL JICA, and	d the rest of items shall be delete	d from this form
					13. 1,2-dichloroethane: 0.004mg/l	Not detected	BDL		
1					14. 1,1-dichloroethylene: 0.02mg/l	Not detected	BDL		
1					15. cis-1,2-dichloroethylene: 0.04mg/l	Not detected	BDL		
1			1		16. 1,1,1-trichloroethane: 1mg/l	Not detected	BDL		
	ľ				17. 1,1,2-trichloroethane: 0.006 mg/l	Not detected	BDL		
1	1				18. trichloroethylene: 0.03mg/l	Not detected	BDL		
1	1				19. tetrachloroethylene: 0.01mg/l	Not detected	BDL		
	İ			1	20. 1,3-dichloropropene: 0.002mg/l	Not detected	BDL		
				1	21. thiuram: 0.006mg/l	Not detected	BDL		
		1			22. simazine: 0.003mg/l	Not detected	BDL		
					23. thiobencarb: 0.02mg/l	Not detected	BDL		
	İ	1	1		24. benzene: 0.01mg/l	Not detected	BDL		
1					25. selenium: 0.01mg/l	Not detected	BDL		
	 		1. Sewri & Sewri bay are	Fortnightly	25. Seromani, 0.01mg i	Not detected	BDL		
1	i		for package I	Tolunghuy	Construction area Standard 85 dB(A) daytime (Japa	n	S - S - 1 - (STEERING FEAR)		
•			101 package 1]	standard)	Sewri (ST 200-500)	Sea Section (ST5000-5500)	Shivaji Nagar	
					Not constuction area: Ambient Noise Standard in	(Industrial area)	Migratory Bird Area	(Commercial area)	
1			1		India (dB(A) Laeq)		(no standard on sea section)		
1	1		2 Nihawa tamana ara	2 Times / Year		-			
			2. Nhava temporary		Day time: 6-22 hr (continious) dB(A)	-	71.3		1
			3. Gavhan & Chirle for	Fortnightly	Night time: 22-6 hr (continious) dB(A)		63.9	- 1	
		1	package III		(only sea section)	NA			Noise monitoring is not carried out in Monsoon.
1		Ambient and road side	1		Day time : 6-22 hr (10 min during 9-17 hrs)				7
		noise (dB(A)LAeq)			Night time: 22-6 hr (10 min 22-24 hr)	7			1
1		(=(-,,,,-,-,-,-,-,-,-,-,-,-,-,-,-,	İ						
			1		Note (standard values in Not construction area)				
1					1.Industrial Area				
'			_						
			1		Day Time: 75 (6-22hr)				
					Night Time: 70 (22-6hr)				
1				İ	2.Commercial Area:				
5	Noise and vibration	i	l		Day Time: 65 (6-22hr)				
1 '	1		1		Night Time: 55 (22-6hr)				
1 '	İ		1 Location Gavan area for	Half yearly	Construction area Standard 75 dB daytime (Japan				
1 '		1	package III		standard)	Sewri (ST 200-500)	Shivaji Nagar		
['		į.			Not constuction area : Vibration Standard (Japan	(Industrial area)	(Commercial area)	Chirle	
1 '					Standard along the road)	(Industrial area)	(Commercial area)	1	
1 '	1				Day time : 6-22 hr (continious)	Not applicable	Not Applicable	N-4	
1 '	i	1	1		Day time : 0-22 iii (continious)	Not applicable	Not Applicable	Not applicable	
			1	i	- · · · · · · · · · · · · · · · · · · ·		- 11		
1 1		Vibration			Night time: 22-6 hr (continious)				
		Vibration (dB)							<u> </u>
					Note (standard values in Not construction area)				
		(dB) shall be converted from							
		(dB)			Note (standard values in Not construction area)				Kindly check the letter No Ref No Mith!/
		(dB) shall be converted from			Note (standard values in Not construction area)				Kindly check the letter No.Ref No. Mthl/
		(dB) shall be converted from			Note (standard values in Not construction area)				Kindly check the letter No.Ref No. Mthl/ P3/L&T/GC/LT/HSE-2226/2020 dated on 12.12.2020
		(dB) shall be converted from			Note (standard values in Not construction area) 1. Commercial /Industrial Area				
		(dB) shall be converted from			Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr)				
		(dB) shall be converted from			Note (standard values in Not construction area) 1. Commercial /Industrial Area				
		(dB) shall be converted from	Along MTHL alignment	Quarterly	Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr)				
		(dB) shall be converted from			Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr)	Sewri side		Shiyaii Nagar cida	
		(dB) shall be converted from	and mangrove replant area	during the	Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) Standard is not existing, but quantity and quality	Sewri side (ST500-5500)	Sea Section	Shivaji Nagar side	
		(dB) shall be converted from	and mangrove replant area		Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr)	Sewri side (ST500-5500)		Shivaji Nagar side (app. ST16000-19000)	
		(dB) shall be converted from	and mangrove replant area for Package I	during the construction	Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) Standard is not existing, but quantity and quality		Sea Section		
		(dB) shall be converted from	and mangrove replant area for Package I Along MTHL alignment	during the construction Period	Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) Standard is not existing, but quantity and quality should not be worsen	(ST500-5500)	Sea Section (ST5500-16000)	(app. ST16000-19000)	
		(dB) shall be converted from	and mangrove replant area for Package I Along MTHL alignment and mangrove replant area	during the construction Period	Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) Standard is not existing, but quantity and quality		Sea Section (ST5500-16000)		
		(dB) shall be converted from	and mangrove replant area for Package I Along MTHL alignment	during the construction Period	Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) Standard is not existing, but quantity and quality should not be worsen	(ST500-5500)	Sea Section (ST5500-16000)	(app. ST16000-19000)	
		(dB) shall be converted from	and mangrove replant area for Package I Along MTHL alignment and mangrove replant area	during the construction Period	Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) Standard is not existing, but quantity and quality should not be worsen	(ST500-5500)	Sea Section (ST5500-16000)	(app. ST16000-19000)	P3/L&T/GC/LT/HSE-2226/2020 dated on 12.12.2020
		(dB) shall be converted from	and mangrove replant area for Package I Along MTHL alignment and mangrove replant area	during the construction Period	Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) Standard is not existing, but quantity and quality should not be worsen 1-1. Fauna-Flora (number of species and quantity	(ST500-5500) Flora/Fauna list maintained for Referal	Sea Section (ST5500-16000)	(app. ST16000-19000) N/A Regarding protected area (CF	P3/L&T/GC/LT/HSE-2226/2020 dated on 12.12.2020
		(dB) shall be converted from	and mangrove replant area for Package I Along MTHL alignment and mangrove replant area	during the construction Period	Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) Standard is not existing, but quantity and quality should not be worsen	(ST500-5500)	Sea Section (ST5500-16000)	(app. ST16000-19000) N/A Regarding protected area (Cr	RZ and Important Bird Area) and ecosystem, detailed in extablished during baseline survay of birds. This tenta
		(dB) shall be converted from	and mangrove replant area for Package I Along MTHL alignment and mangrove replant area	during the construction Period	Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) Standard is not existing, but quantity and quality should not be worsen 1-1. Fauna-Flora (number of species and quantity	(ST500-5500) Flora/Fauna list maintained for Referal	Sea Section (ST5500-16000)	(app. ST16000-19000) N/A Regarding protected area (Cr	RZ and Important Bird Area) and ecosystem, detailed in extablished during baseline survay of birds. This tenta
		(dB) shall be converted from	and mangrove replant area for Package I Along MTHL alignment and mangrove replant area	during the construction Period	Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) Standard is not existing, but quantity and quality should not be worsen 1-1. Fauna-Flora (number of species and quantity (1) Number of species of bird	(ST500-5500) Flora/Fauna list maintained for Referal	Sea Section (ST5500-16000)	(app. ST16000-19000) N/A Regarding protected area (Cr	P3/L&T/GC/LT/HSE-2226/2020 dated on 12.12.2020 RZ and Important Bird Area) and ecosystem, detailed is extablished during baseline survay of birds. This tenta
		(dB) shall be converted from mm/s to dB	and mangrove replant area for Package I Along MTHL alignment and mangrove replant area	during the construction Period	Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) Standard is not existing, but quantity and quality should not be worsen 1-1. Fauna-Flora (number of species and quantity (1) Number of species of bird (2) Number of species of fish	(ST500-5500) Flora/Fauna list maintained for Referal	Sea Section (ST5500-16000)	(app. ST16000-19000) N/A Regarding protected area (Cr	P3/L&T/GC/LT/HSE-2226/2020 dated on 12.12.2020 RZ and Important Bird Area) and ecosystem, detailed is extablished during baseline survay of birds. This tenta
		(dB) shall be converted from mm/s to dB	and mangrove replant area for Package I Along MTHL alignment and mangrove replant area	during the construction Period	Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) Standard is not existing, but quantity and quality should not be worsen 1-1. Fauna-Flora (number of species and quantity (1) Number of species of bird	(ST500-5500) Flora/Fauna list maintained for Referal	Sea Section (ST5500-16000)	(app. ST16000-19000) N/A Regarding protected area (Cr	RZ and Important Bird Area) and ecosystem, detailed in extablished during baseline survay of birds. This tenta
		(dB) shall be converted from mm/s to dB 1.Monitoring of mudflat conditions including fauna-	and mangrove replant area for Package I Along MTHL alignment and mangrove replant area	during the construction Period	Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) Standard is not existing, but quantity and quality should not be worsen 1-1. Fauna-Flora (number of species and quantity (1) Number of species of bird (2) Number of species of fish	(ST500-5500) Flora/Fauna list maintained for Referal	Sea Section (ST5500-16000)	(app. ST16000-19000) N/A Regarding protected area (Cr	P3/L&T/GC/LT/HSE-2226/2020 dated on 12.12.2020 RZ and Important Bird Area) and ecosystem, detailed ic extablished during baseline survay of birds. This tental
		(dB) shall be converted from mm/s to dB 1.Monitoring of mudflat conditions including fauna-flora	and mangrove replant area for Package I Along MTHL alignment and mangrove replant area	during the construction Period	Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) Standard is not existing, but quantity and quality should not be worsen 1-1. Fauna-Flora (number of species and quantity (1) Number of species of bird (2) Number of species of fish (3) Estimated number of Flamingo	(ST500-5500) Flora/Fauna list maintained for Referal 28	Sea Section (ST5500-16000)	(app. ST16000-19000) N/A Regarding protected area (Cr	
		(dB) shall be converted from mm/s to dB 1.Monitoring of mudflat conditions including fauna-	and mangrove replant area for Package I Along MTHL alignment and mangrove replant area	during the construction Period	Note (standard values in Not construction area) 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) Standard is not existing, but quantity and quality should not be worsen 1-1. Fauna-Flora (number of species and quantity (1) Number of species of bird (2) Number of species of fish	(ST500-5500) Flora/Fauna list maintained for Referal 28	Sea Section (ST5500-16000)	(app. ST16000-19000) N/A Regarding protected area (Cr	P3/L&T/GC/LT/HSE-2226/2020 dated on 12.12.2020 RZ and Important Bird Area) and ecosystem, detailed ic extablished during baseline survay of birds. This tental

The Project for Construction of Mumbai Trans Harbour Link Reporting Form of Environmental Monitoring during Construction Attachment 2-4

Monitoring Period -July to Sept 2022

Attachment 2

This form is prepared for reporting the monitoring results to JICA India Office. Only minimum required parameters are included in this form, and not all perameters in EMOP are covered.

1. Environmental Monitoring during Construction for 4.5 years

0

0

		1					· · · · · · · · · · · · · · · · · · ·			
1			area			(1) Number of species of mangorve	Dominant - Avicennia sp.	not required		
ŀ			3. Monitoring of Mangrove			(2) Density of mangrove (xx trees/10m x 10m)	EIA - Not distrubed.	not required		-
i		Protected Area	Plantation area appointed by MoEF			(2) Donsty of mangrove (AA does four A four)		not required		
	6	11000000	4. Monitoring of sedimentation soil and			1-3: Benthos Survey	Flora, fauna, phytoplankton,zooplankton, Benthos	not required		
			ecological parameter (25		1	(1) Number of species and quantity by species		not required		
l			items on EIA main text				1. Tree Cutting: 413 trees (Till			
ent			Table 6.1.15 for soil and 7 items such as 1)Net primary productivity, 2)Chlorophyll			2-1: Cutting tree confirmation	September 2022) 2. Transplanting : 483 Trees (Till	not required	Approved By Both CIDCO and Forest forest Dept (both Alibaug and Uran(regional office))	
			a, 3)Phosphate, 4)Nitrate,			(1) 1	September 2022)	 		
Enviro			5)Nitrite, 6)Particulate			(1) Number of cutting tree and species	CRZ- Cost assigned to FD	not required		
al Er			Organic Carbon, 7) SiO2)			3-1: Mangrove survey in the replant area	GC to integrate FD and environmentalist	not required	Nîl	
Natural				!		(1) Number of species of mangorve	3	not required		
Ž						(2) Density of mangrove (xx trees/10m x 10m)		not required		
				1		4. Ecologial Parameter		1.		
						(1) Net primary Productivity: <1,500 mgC/m3/day at surface	500			
						(2) Chlorophyll-a: <4mg/m3	4.5			
	1					(3) Phosphate: 0.1-90µg/l	4			
	1					(4) Nitrate: 1.0-500μg/l	6			
	1					(5) Nitrite: <125µg/l	1			
			1			(6) Particulate Organic Carbon: 10-100mg/m ³	1.38			
		Ecosystem				(7) SiO2: 10-5,000μg/l	30.02			
				Not applicable for Package I		Criteria for evaluation Project activities and structures does not cause	Sa	Chinali Nama	1	
	1			Fackage 1		flooding and impacts on tidal conditions	Sewri	Shivaji Nagar		
	7	Hydrology	Flooding situation	2 Locations (CRZ at	4 Times / Year	liouning and impacts on tital conditions				
			i looding situation	Sewri and Shivaji Nagar) for Package II		Monitoring of flooding situation	No Flooding	No flooding		
				Not applicable for Package III						
				2 Locations (1. Embankment of Inter		Criteria for evaluation Embankment shall be stabilized without any landslide and cracks	Shivaji Nagar	Shivaji Nagar Camp Site	Chirle	
	8	Topography and Geology	Conditions in embankment area	Change in Shivaji Nagar and 2 Cutting area at toll gate in Chirle)	4 times / year x 4.5 years	Monitoring of embankment			Rock filling activity is carried out as per aggrement.	
	9	Local conflict of interests	Construction worker's township	2 Locations (major camp site in Sewri and Shivaji Nagar)	4 times / year x 4.5 years	Criteria for evaluation Employment opportunity shall be provided fairly	Sewri Camp Site	Shivaji Nagar Camp Site	Chirle	
						Number of hired workers by community	680 workmen	125-150	75	
						Criteria for evaluation Infection disease rate shall not be caused by the project	Sewri Camp Site	Shivaji Nagar Camp Site		
	10	Infectious diseases such as HIV/AIDS		2 Locations (major camp site in Sewri and Shivaji Nagar)	4 times / year x 4.5 years	Confirmation of health check record and inspect project site	Doctor on call checks site specific infections., minor and major incidents . 24x7 ambulance service , ERT team with trained first aiders available	Health Checks carried out but HIV/AIDS parameter is not there.	Regular Health check up is carried out by site Doctor.	
	11	Labour Environment	Construction worker's condi	2 Locations (major camp site in Sewri and Shivaji Nagar)	2 times / year x 4.5 years	(Regulation of Employment and Conditions of Service) Act,1996", "The building and other construction worker's welfare cess Act, 1996" and	Distrubution of Safety kits to 225 Workers Medical Camp organised; wherein > 500 workers were consulted. 220 No. of Malaria tests carried out.	Shivaji Nagar Camp Site	Gavan Camp site	
						Site Visual Inspection	Weekly site inspection	Conforming with BOCW Act 1996	Conforming with BOCW Act 1996	
Other	12	Accident	Number of accidents		4 times / year x 4.5 years	Criteria for evaluation Any accidents are not caused by construction	3 RLTI reported	Shivaji Nagar Camp Site	Chirle/Other area	
٥				Nagar)		Number of recorded accident	3	NIL	Nil	



0

0

0

0

0

()

MTHL - ROW Land Acquisition Status (Attachment 2-6):

The total land required on the Navi Mumbai side is 108.4379 ha

Land acquired by MMRDA - 108.0442 ha

Land in possession of MMRDA - 106.3542 ha

Balance land acquisition - 0.3937 ha

Note: The acquisition of 0.3937 ha of ROW land is in progress and likely to complete by the end of December 2022.

ROW Land Required in ha (for Package- 2 & 3)	ROW land acquired by MMRDA In ha	ROW Land in possession of MMRDA in ha	Balance ROW to be handed over (Possession to be taken + Under acquisition)	Anticipated date for 100% ROW Land Acquisition	Remarks
108.4379	108.0442	106.3542	2.0837 (1.6900+0.3937)	31-12-2022	The payment status to the land owners is awaited from CIDCO. The same would be communicated to JICA on receipt of the same.



			Fisheries.
C4: Commercial and	Will be	Will be	 Nil
Artisanal Fisher-folks	observed	observed	
(Loss of Time and	during the	during the	
Increased Operating	construction	construction	
Costs)	period	period	
C5: Fisher-folks with	Will be	Will be	 Nil
Loss due to Turbidity	observed	observed	
	during the	during the	
	construction	construction	
	period	period	_
C6: Fisher-folks with	Will be	Will be	 Nil
Damages due to	observed	observed	_
Accidents	during the	during the	
	construction	construction	
	period	period	

2.4 Land Acquisition / Transfer

Location	ROW Land Required in Ha.	ROW Land Acquired in Ha.	Balance ROW to be handed over	Remarks
Sewri (Package-1)	10.089	10.089	0	
Navi Mumbai (Package-2 & 3)	108.4379	108.0442	2.0837 (1.6900+0.3937)	Possession to be taken=1.6900ha Under Acquisition=0.3937ha
Total	118.5269	118.1332	2.0837	

3. Monitoring Results

3.1 Sewri Section

Activity	Indicator	Total Target	Progress till Last Quarter	Progress during reporting Quarter	Cumulative Progress till Current Quarter	Cumulative Achievement of Total Target (%)	Remarks, If Any
Resettlement	No. of Residential PAHs provided with Allotment	231	226	0	226	97%	



		= 2		H Legil			REAL VIEW
Activity	Indicator	Total Target	Progress till Last Quarter	Progress during reporting Quarter	Cumulative Progress till Current Quarter	Cumulative Achievement of Total Target (%)	Remarks, If Any
	Letters of Alternate Tenements						
	No. of Residential PAHs given possession of Alternate Tenements	231	226	0	226	97%	
	No. of Commercial/R+C PAPs provided with Allotment Letters of Alternate Shops/Tenement s	66	62	0	62	92%	
	No. of Commercial R+C PAPs given possession of Alternate Shops/Tenement s	66	62	0	62	92%	Э
	No. of Occupants of MbPT Leased Plots provided Compensation	6	6	0	6	100%	
	No. of Religious properties Relocated / Removed	6	6	0	6	100%	
	No. of Other Community properties Relocated / Removed	4	4	0	4	100%	



Activity	Indicator	Total Target	Progress till Last Quarter	Progress during reporting Quarter	Cumulative Progress till Current Quarter	Cumulative Achievement of Total Target (%)	Remarks, If Any
	No. of Structures in possession of MbPT Dismantled / Cleared	9	9	0	9	100%	
	No. of PAHs/PAPs provided Shifting Charges / Arrangement	297	0	0	0	0%	
Rehabilitation	No. of PAHs / PAPs identified for Livelihood Support in Post Resettlement Assessment						
	No. of PAHs / PAPs provided Livelihood Support under Program-I (to be identified)						
	No. of PAHs / PAPs provided Livelihood Support under Program-II (to be identified)						
	No. of PAHs / PAPs provided Livelihood Support under Program-III (to be identified)						
	No. of new enterprises started						



Activity	Indicator	Total Target	Progress till Last Quarter	Progress during reporting Quarter	Cumulative Progress till Current Quarter	Cumulative Achievement of Total Target (%)	Remarks, If Any
Grievance Redress	No. of Grievances Received by FLGRC	4					
	No. of Grievances Disposed by FLGRC	3	1	0	1	100%	
	No. of Grievances Received by SLGRC	1	0	0	0		
	No. of Grievances Disposed by SLGRC	0				(9)	
Post Resettlement Assistance	No. of CHSs Registration helped						
	No. of CHSs provided Tenements for Social Amenities	c i					
	No. of CHSs' Maintenance Fund Invested						×
	No. of CHSs' Office Bearers provided training			1			



SUMMARY OF FISHER FOLKS OF MTHL PROJECT (Influence Zone of 24 villages)
Up to 30-09-2022

		p to 30-09-20)			
C		Total number	Total		d eligib nits	le family
Sr.No.	Village Name	of forms Received	C1	C2	C3	Total
11	Bamandongri	273	1	1	28	30
2	Belapur	110	0	5	15	20
3	Belpada	1185	0	7	478	485
4	Diwale	455	12	201	52	265
5	Ganeshpuri	276	0	37	35	72
6	Gavhan	2162	0	14	1317	1331
7	Jasai	926	0	0	18	18
8	Jawale	51	0	1	0	1
9	Kombadbhuja	413	1	23	134	158
10	Kopar	994	2	5	228	235
11	Karave	178	0	44	67	111
12	Mahul	1062	129	77	604	809
13	Moha	475	22	25	134	181
14	Mora	818	0	102	375	477
15	Morave	539	14	21	88	123
16	Nhava	1646	0	32	307	339
17	Sarsole	266	0	30	83	113
18	Sewri	305	0	1	72	73
19	Shelghar	241	0	0	15	15
20	Shivajinagar	202	1	4	61	66
21	Trombay	1208	49	219	823	1091
22	Ulwe	218	1	3	14	18
23	Uran & Hanuman Koliwada	683	0	11	600	611
24	Vahal	411	0	2	1	3
	Total	15097	232	865	5548	6645
_						
	Total applications					15097
	Duplicate/Repeated Applicati	on				2428
_	Net Applications					12669
	Approved applications					6645

Grievance Redressal Committee (GRC) for Fisher-folk Compensation

No. of Cases referred to GRC	No.	of Cases	No. of Cases Rejected	No. of Cases under Consideration
10	Allowed	Compensation Paid		
Nil	Nil	Nil	Nil	Nil



QPR No. 22 (July to Sep 2022) Attachment 2-10

																		_	
Implementation Schedule for Fisher-folks Compensation & Land Acquisition in Navi Mumbai		Completion Date	23-12-2015			23-12-2015	04-01-2016	Up to 30-09-2022	1. Total up to date applications scrutinized =	12669 Nos.	2. Eligible = 6645 Nos.	3. Rejected = 6024 Nos.							
sation & La	The state of	Start Date	08-10-2015			10-12-2015	1	23-12-2015	-										
Fisher-folks Compen	ks Compensation: -	Approving authority	Fisher-folks	Compensation	Committee (FCC)	MMRDA	MMRDA	1. Detailed list of	Fisher-folk PAP up to list	1 (1165 Nos) & 2 (1399	Nos) are finalized by the	Fisheries Department.	2. From 2018, FEVC	committee is the	approval authority of	PAF and approved C1-	232 Nos.	C2 - 368 Nos and C3-	3481 Nos are approved.
mplementation Schedule for F	A. Implementation Schedule for Fisher-folks Compensation: -	Task Designation	Approval of fisherfolk's	compensation Policy		Approval by MMRDA	Submission to JICA	A detailed list of PAP and	compensation plan										
•	A. Impl	Sr. No.	_			2	က	4	_										

7	6									-	O'	Sr. No.
Approval by MMRDA	Approval of compensation plan									(ā	Validation of compensation plan	Task Designation
MMRDA	FCC	· · · · · · · · · · · · · · · · · · ·		91)	Tes		5		Committee (FCC)	Compensation	Fisher-folks	Approving authority
23-11-2015	23-11-2015					23-12-2015					23-12-2015	Start Date
23-11-2015 09-03-2021	28-12-2017	and would be completed in phases.	3. Validation of compensation is in progress	Navi Mumbai of C2 & C3 on 25th April 2018.	from Fisheries Department for Fisherfolk of	2. Approval to the Fisher-folk PAP list obtained	November 2018 for C-2 & C3 Category only.	side) - 12th September 2017 and 20th	from Sewri, Mahul & Trombay (Mumbai	from Fisheries Department for Fisherfolk	1. Approval to the Fisher-folk PAP list obtained	Completion Date





B. Implementation Schedule for Land Acquisition in Navi Mumbai: -

Remarks	The payment status to the land owners is awaited from CIDCO. The same would be communicated to JICA on receipt of the same.
Anticipated date for 100% ROW Land Acquisition	The state own 31-12-2022 from sam com
Balance ROW to be handed over (Possession to be taken+	2.0837 (1.6900+0.3937)
ROW Land in possession of MMRDA in ha	106.3542
ROW Land Acquired by MMRDA in ha	108.0442
ROW Land Required in ha (for Package-2 & 3)	108.4379



Implementation Schedule for SIA (Sewri Section)

		,	
Task			Completion
No.	Task Designation	Start Date	/ Forecast Date
1	Preparation of Final SIA		Date
1.1	MMRDA Approval	Oct 2015	Jan 2016
1.2	JICA Approval	Nov 2015	Jan 2016
1.3	Posting of project Information on MMRDA	1107 2010	July 2010
1.4	Translation and disclosure of entitlement policy in local	Dec 2015	Jan 2016
	language to all PAP's		
2	LARP Implementation		
2.1	Grievance redress mechanism established	Aug 2016	Aug 2016
2.2	Staff deployment SIA implementation	June 2016	Dec. 2021
2.3	Staff Deployment Public Relation	June 2016	June 2016
2.4	Hiring of Independent Evaluation Agency	Nov 2018	Nov 2020
2.5	Preparation and issue of allotment letters to PAPs	June 2018	Dec. 2022
2.6	Notice of PAPs for shifting (Sewri Section)	Dec 2018	Nov. 2021
2.7	Allotment of dwelling units to PAPs	Sep 2016	Dec. 2022
2.8	Shifting of PAPs to resettlement Colony	Dec 2018	Nov. 2021
2.9	Transfer of compensation/allowance/ assistance to PAPs	Dec 2018	Dec. 2022
2.10	Creation of Community Revolving fund (within 3 months post handing over)	April 2019	Sep 2022
2.11	Assessment of economic rehabilitation needs by individual household (within 6 months after handing over	Sep 2019	Nov. 2022
2.12	Registration of Co-operative housing societies transfer of maintenance funds. (6 months period)	Dec 2019	Dec 2022
2.13	Signing of Civil Contract		Jan 2018
2.14	Notice of Civil works to proceed		Mar 2018
3	Monitoring & Evaluation		
3.1	Internal Monitoring- Monthly/ Quarterly	June 2016	July 2020
3.2	Independent Evaluation Mid-term and End term		
	evaluation	May 2019	June
	Mid Term	Nov 2019	2020
	End_Term	(Nov 2022



Attachment 3- JICA's Concurrence Status



0 0 0

Status of JICA'S Concurrence

	STATE OF THE PERSON NAMED IN	-	Bid Cost	ost			IICA's Con	IICA's Concurrence		
is o	Brief description	Procurement procedure	Local Total Currency (Cr Rs) (Cr Rs.)	Total (Cr Rs)	PQ Documents	PQ Evaluation	Bid Documents	Technical Evaluation	Financial Evaluation	Contract
+	Package-1 (CH 0+000 km to CH10+380 km)	ICB with PQ (2P)	7637.30	7637.30	JICA's 7637.30 Concurrence - 9th May 2016	JICA's Concurrence - 22 nd Dec 2016	JICA's Concurrence - 4 th Jan 2017	JICA's Concurrence - 12th Sep 2017	JICA's Concurrence - 12 th Oct 2017	JICA's Concurrence – 15 th Feb 2018
2.	Package-2 (CH 10+380 2. km to CH18+187 km)	ICB with PQ (2P)	5612.61 5612.61 Co	5612.61	JICA's Concurrence - 9th May 2016	JICA's Concurrence - 22 nd Dec 2016	JICA's Concurrence - 4 th Jan 2017	JICA's Concurrence - 12 th Sep 2017	JICA's Concurrence - 12th Oct 2017	JICA's Concurrence – 15th Feb 2018
6.	Package-3 3. (CH18+187 to CH21+800)	ICB with PQ (2P)	1013.79 1013.79 Co	1013.79	JICA's Concurrence - 9 th May 2016	JICA's Concurrence - 4 th Jan 2017	JICA's Concurrence - 4 th Jan 2017	JICA's Concurrence - 15th Sep 2017	JICA's Concurrence - 12th Oct 2017	JICA's Concurrence – 15th Feb 2018
4.	Package-4 Intelligent Transport System	ICB with PQ (2P)	427.00	427.00	JICA's 427.00 Concurrence - 23 rd Aug 2019	∀ Z	JICA's Concurrence - 24 th Aug 2021	JICA's Concurrence - 15th Feb 2022	JICA's Concurrence - 21st Apr 2022	JICA's Concurrence – 13th Oct 2022



Attachment 4- Project Procurement and Financial Status till 30th Sep 2022



Mumbai Trans Harbour Link Project - Quarterly Progress Report No. 22 (Jul-Sep 2022)

0 0 0

PROJECT PROCUREMENT AND FINANCIAL STATUS TILL 30th SEP 2022

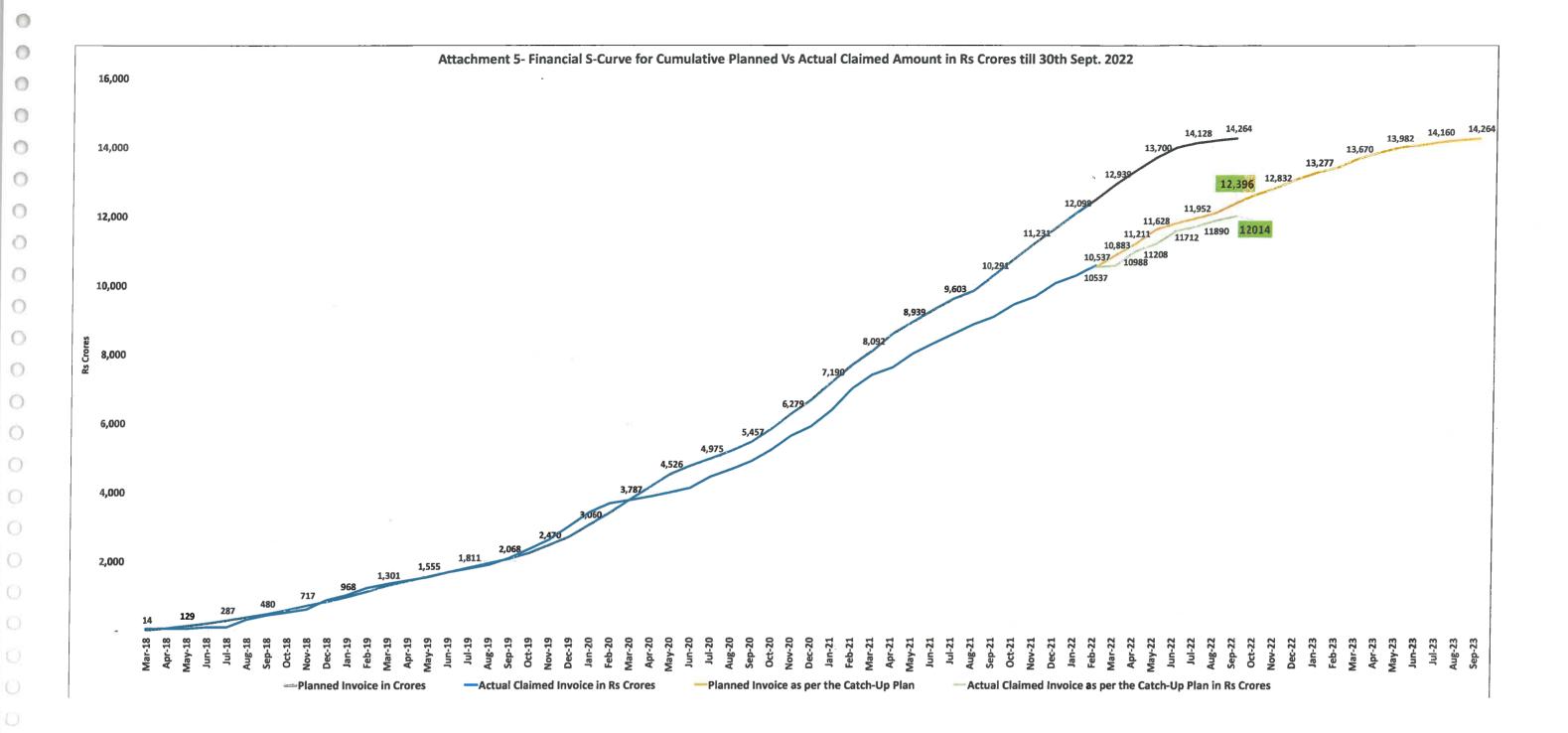
	<u> </u>			
% of Financial Progress till 30th Sep 2022 (GC Certified) (Excluding Mobilization Advance, Price Adjustment and	84.12%	82.51%	87.74%	NA
% of Overall Works Progress (Design, Material Procurement and Construction) as per the Primavera Baseline Schedule Updated as of	85.87%	84.48%	84.35%	¥ Z
Revised Project Completion Date After granting the Extension of Time (EOT)	30-Sep- 2023	27-Sep- 2023	03-Mar- 2023	Ą
Stipulated Project Completion Date	21-Sep- 2022	21-Sep- 2022	21-Sep- 2021	Aug 2023
Project Commencement Date	Mar 2018	Mar 2018	Mar 2018	June 2022
Contractors	L&T-IHI Consortium	DAEWOO- TPL JV	L&T	Strabag GmbH JV
Current	Awarded	Awarded	Awarded	Awarded
Awarded or Estimated Value (in Rs. Crore)	7637.30	5612.61	1013.79	427.00
Contract	Package-1 (CH 0+000 km to CH 10+380 km)	Package-2 (CH 10+380 km to CH18+187 km)	Package-3 (CH18+187 to CH21+800)	Package-4 Intelligent Transport System (ITS)
Туре		Browled to 19		SE .



Attachment 5- Financial S-Curve for Cumulative Planned Vs Actual Amount in Rs Crores



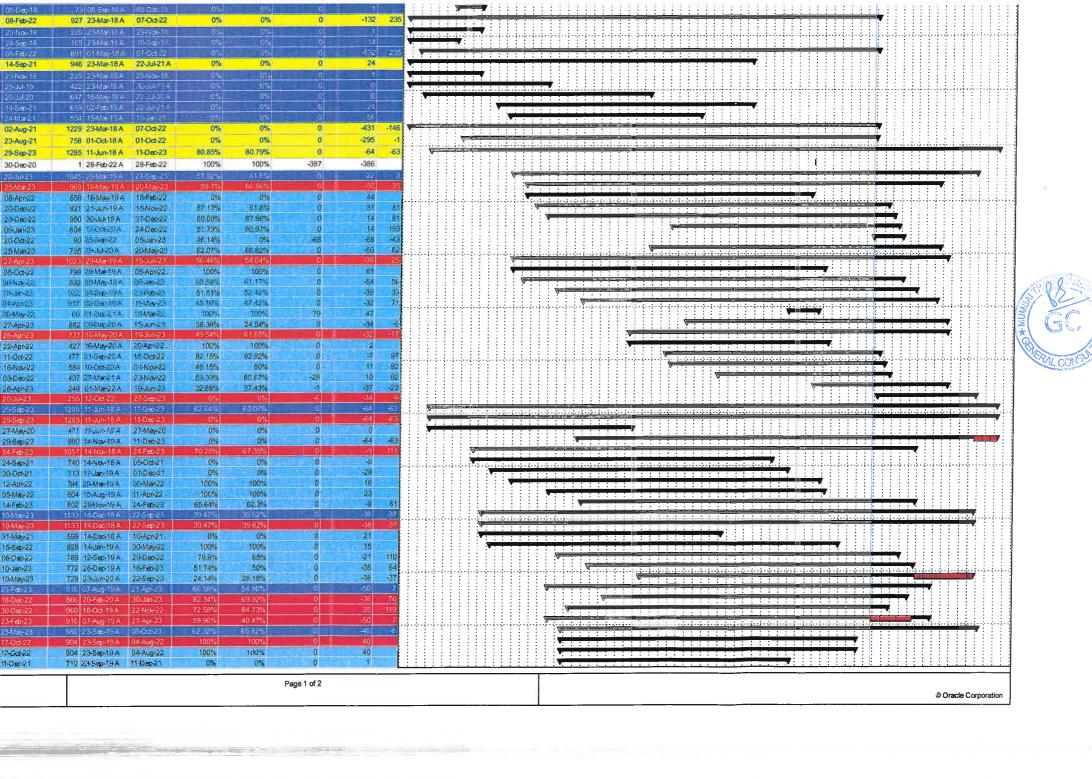
O





Attachment 6- Package-1's Construction Programme Updated as of 25th Sep 2022





© Oracle Corporation									age 2 of 2	34				
35 JANUARY STREET														
							<u>L</u> -		7	%LI 26	%69°E6		A12-rs/-50 567	
			191				74 (1) (2) (3) (3) (3) (4)	7/2 59* 69* 92* 66*	72- 95- 92- 02- 69- PP-	%0 %0 %0 %6 %0 %0	560 560 560 560	52-9041 57-9040 62-90-92 62-90-92 62-90-92	20 20-8-02 20 20 8-02 20	
						422	69- 83- 83-	5/2 50° 69° 14° 59°	72- 96- 92- 01- 69-	\$40 \$55 \$60 \$40 \$40 \$40 \$60 \$60 \$60 \$60	\$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60	25-00-25 25-00-25 25-00-25 25-00-25 25-00-25 25-00-25 25-00-25 25-00-25 25-00-25 25-00-25 25-00-25 25-00-25	25-04-0 75-2 25-04-0	
							62 63	27 92 12 12 12 12 12 12 12 12 12 12 12 12 12	71- Unit 90- 101- 609- 111- 209- 809- 101- 909- 909- 91- 91- 91- 91- 91- 91- 91- 9	\$40 \$50 \$60 \$40 \$40 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$6	\$60 \$40 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$6	52-101-51 52-101-51 52-101-52	100 05-100-25 10	
			100	 100			62 63	22- 53- 63- 74- 23- 66- 23- 23- 23- 23- 23- 23- 23- 23- 23- 23	74 97 75 09 69 #F 29 29 10 92 51 51 04	\$40 \$55 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60	\$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60	11-00-25 11-00-25 11-00-25 11-00-25 11-00-25 12-10-	A SS_66/450 SSS A SS_66/450 SSS SS_66/450 SSS SS_66/450 SSS SS_66/450 STS SS_66/450 STS SS_66/450 STS SS_66/450 SSS SS_66/450 SSS SS	

0.

Attachment 7- Package-2's Construction Programme Updated as of 25th Sep 2022



1 of 9 MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE 2) CONSTRUCTION OF 7.807 KM LONG BRIDGE SECTION ANNEXURE-5 CONSTRUCTION UPDATED (CH 10+380 - CH 18+187) ACROSS THE MUMBAI BAY INCL SHIVAJI NAGAR INTERCHANGE PROGRAMME ABSTRACT (PACKAGE-2) LINDER IDENTIFICATION NO MMRDA/ENG/000753 Original BL Project Start Activity Name R Project Finish | Actual Start Actual Finish Schedule 9 # Activity ID MTHL-PKG2-DETAILED WORK PROGRAMME 25092022 APPROVED MPR.54 0% 22-Mar-18 126 17-Nov-17 17-Nov-17 16-Mar-18 2 PROJECT PRE-COMMENCEMENT ACTIVITY 20-WELTER, PRE-CONMENCEMENT ACTIVITY 07-Feb-18 0% 55 15-Dec-17 15-Dec-17 20-Mar-18 3 PRE-COMMENCEMENT ACTIVITY 20-War-18A LIV FORWATIONAND REGISTRATION 55 15-Dec-17 07-Feb-18 4 15-Dec-17 20-Mar-18 JV FORMATION AND REGISTRATION 2490 23-Mar-18 21-Mar-23 23-Mar-18 0% PROJECT EVENT MILESTONE 2310: 23-Mar-18 6 PROJECT KEY MILESTONE 22-Sen-22 23-Mar-18 0% 2462 19-Apr-18 21-Mar-23 03-Apr-18 **INTERFACE MILESTONE ERG19** 0% 8 PHYSICAL PROGRESS AND INTERFACE DATE ADD2-ATTACHMENT 25 2023 18-Sep-18 22-Jun-22 31-Aug-18 0% 1308 03-Sep-18 06-Jul-21 25-Oct-18 01-Jan-22 0% 9 CONSTRUCTION KEY MILESTONES 22-Aug-19A, MANAGEMENT 613 20-Jan-18 18-Aug-18 12-Jan-18 22-Aug-19 0% 10 MANAGEMENT J. 07-Mar-18A, SITE ORGANISATION 11 35 20-Jan-18 23-Feb-18 07-Mar-18 SITE ORGANISATION 27-May-18 20-Jan-18 22-Aug-19 0% 12 DEVELOPMENT OF MANAGEMENT SYSTEM COUMMUNICATION / DOCUMENT CONTROL SYSTEM 13 14 QUALITY ASSURANCE AND MANAGEMENT SYSTEM 23-Mar-18 15 HEALTH SAFETY AND ENVIRONMENTAL MANAGEMENT SYSTEM | Dec 1905 Anna C/O PW/Op/sab/com/o/sa Interior (Vanagements): INTERFACE MANAGEMENT SYSTEM 23-Mar-18 16 17 RISK MANAGEMENT PLAN 7: 21:Sep: 18 A; DEVELOP MENT OF WORK PROGRAMME 23-Mar-18 21-Sep-18 18 DEVELOPMENT OF WORK PROGRAMME 63 23-Mar-18 24-May-18 0% * 23-Api-18/A, OTHER CONTRACTUAL SUBMITITALS 28 24-Mar-18 20-Apr-18 24-Mar-18 23-Apr-18 0% 19 OTHER CONTRACTUAL SUBMITTALS TTV: 03-Aug-19A, PERMIT & APPROVAL 0% 03-Aug-19 20 PERMIT & APPROVAL OS-Feb-18A SURVEYING & GEOTECHNICAL INVESTIGATION SURVEYING & GEOTECHNICAL INVESTIGATION 21 29:Apri-18/A, CUTTING OF MANGROVES: 22 **CUTTING OF MANGROVES** 28-Nov-18A, SETTING UP:BATCHING PLANT 23 O1-OH-18'A, FIC YARD & CAMP 24 PC YARD & CAMP ■ DS-AUG-19/A, CONNECTION FOR HELECTRICITY & WATER: 63 18-May-18 25 CONNECTION FOR ELECTRICITY & WATER DE Aug-18A CLITTING OF TREES 26 W: 31-May-18%, MPORT PERMITSLICENCES FOR EQUIPMENTS & GOODS 31-May-18 31-May-1 27 IMPORT PERMITS/LICENCES FOR EQUIPMENTS & GOODS THE 28-NOV:18A; NOC FOR PLANT'S FACILITIES TO BE USED AT SITE: 31-May-18 28 NOC FOR PLANT & FACILITIES TO BE USED AT SITE 28-JUF18A, TEMPORARYACCESS ROAD FOR MAINBRIDGE & INTERCHANCE 29 TEMPORARY ACCESS ROAD FOR MAIN BRIDGE & INTERCHANGE OZ-F#6-21 A DESIGN
(22-New-19/A EARLYSTAGE DESIGN WORK (NACHMATIC) 1321 20-Jan-18 04-Sep-19 01-Jan-18 02-Feb-21 100% 30 31 EARLY STAGE DESIGN WORK/INFORMATION COLLECTION 678 20-Jan-18 17_ loL18 01-jan-18 12-Nov-19 100% 100% ### 14-Apr 18 A, INDEPENDENT DESIGN CHECKER APPROVAL INDEPENDENT DESIGN CHECKER APPROVAL 32 20-Apr-18 A. TOPOGRAPHIO SURVEY 16-May-18 33 TOPOGRAPHIC SURVEY 34 BATHYMETRIC SURVEY A DSAUBIBA ADDITIONALI VIETORONGO SIBPOL PINSCA A PSAUNISA GEOTECI MARITIVESTICATIONI TITLI 35 ADDITIONAL TIME FOR ONGC & BPCL PHYSCIAL VERIFICATION 548 20-Jan-18 36 **GEOTECHNICAL INVESTIGATION** (2NoV-19%, ADOTTONAL WORKS FOR DESIGNATIONATION ADDITIONAL WORKS FOR DESIGN INITIATION OF STEEL MODULE 1 37 ** 20-Aug-20A: TEMPORARY WORK 20-Aug-20 1037 22-lan-18 01-Nov-18 100% 38 TEMPORARY WORK 20- lan-18 100% 17-Jul-18A, PROJECT OFFICE LAYOUT: PROJECT OFFICE LAYOU 39 29-04-18A CARTING YARD LAYOUT 40 CASTING YARD LAYOUT BOALIG 18A TEMPORARY BROCKE 41 TEMPORARY BRIDGE W 20-Nov-18A CASTING YARD STRUCTURE 20-Mar-18 42 CASTING YARD STRUCTURE 7:20-Aug-20A; STEEL BRID 43 STEEL BRIDGE FABRICATION YARD 1 (5761-18/4 CONCRETEMX DESIGN (1824) SEPT (AUF EIDESIGN PROGRAMM 274 23-Mar-18 12-May-18 0% 44 CONCRETE MIX DESIGN 31-Aug-18 45 JEE DESIGN PROGRAMME 1220 01-May-18 04-Sep-19 09-Apr-18 02-Feb-21 100% 100% V D2-Jan-23,7 1808 20-Jan-18 23-Aug-20 22-Dec-17 46 PROCUREMENT, MANUFACTURING AND LOGISTICS OA-Apr-18A, SURVEY & INVESTIGATION: 72 20-Jan-18 02-Apr-18 22-Dec-17 04-Apr-18 47 **SURVEY & INVESTIGATION** 0% W: 22-Jan-18A, TOPOGRAPHIC SURVEYAGENT TOPOGRAPHIC SURVEY AGENT 48 ₹ \$\$.4an-18%, BATHMETRIC BURVEYAJTILITY BURVEYAGENT 49 BATHYMETRIC SURVEY / UTILITY SURVEY AGENT DA-Apr-18A, GEOTECHNICAL INVESTIGATION AGENCY GEOTECHNICAL INVESTIGATION AGENCY 50 #11-May-20/A, TEMPORARY WOFK 0% 51 TEMPORARY WORK 964 20-Jan-18 20-Oct-18 20-Jan-18 11-May-20 1442 23-Mar-18 20-Jul-19 23-War-18 0% 52 MAIN WORK_SUBCONTRACT WORK D5-Nov-20A, EQUIPMENTS 23-War-19/A, BATC-BNG-PLANT 53 1097 23-Mar-18 12-Sep-19 23-Mar-18 05-Nov-20 100% 100% **EQUIPMENTS** 437 23-Mar-18 23-Mar-18 23-Mar-19 54 BATCHING PLAN : 24Aug+19A; RCD MACHINE 514 23-Mar-18 11-Nov-18 23-Mar-18 RCD MACHINE 55 OS-Nov-20A, GANTRY CRANE OS-Nor-20A, SEGMENT LAUNCHER 08-Feb-19 23-Mar-18 56 **GANTRY CRANE** 57 🔫 : 25-sep-20a: Precast Mouldand System 715 07-Aug-18 24-Mar-19 04-Sep-18 25-Sep-20 58 PRECAST MOULD AND SYSTEM FORM Revision Date Checked **CONTRACTOR:** Critical Remaining Work Project Baseline Bar Summary R0 25-Sep-22 MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY DAEWOO - TPL JV Actual Work Milestone (MMRDA) Remaining Work % Complete



MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE 2) CONSTRUCTION OF 7.807 KM LONG BRIDGE SECTION 3 of 9 (CH 10+380 - CH 18+187) ACROSS THE MUMBAI BAY INCL SHIVAJI NAGAR INTERCHANGE ANNEXURE-5 CONSTRUCTION UPDATED PROGRAMME ABSTRACT (PACKAGE-2) LINDER IDENTIFICATION NO MMRDA/ENG/000753 Original BL Project Start BL Project Finish Actual Start Duration Actual Finish # Activity ID PAINTING 122 SHIPPING PREPARATION W 18-Feb-22A,STEEL WOL 26-Wey-21A, SHOP DRAWINGS: 17-Jul-20 18-Feb-22 100% 123 STEEL MODULE-01 MP176 - MP171 (LHS) 699 24-Aug-19 01-Nov-21 1009 SHOP DRAWINGS 355 24-Aug-19 13-Aug-20 124 THE 18-May-21A, CUTTING& DRILLING 07-Oct-20 18-May-21 125 199 22-Nov-19 CUTTING & DRILLING 126 FITTING-UP & WELDING 294 07-Dec-19 26-Dec-20 22-OH21 A THALKSSEMBL 240 31-Mar-20 14-Feb-21 15-Dec-20 22-0d-21 127 TRIALASSEMBLING 24-Jun-21 17-May-21 336 09-Jun-20 128 03-Jan-22 PAINTING 18-Fei)-22A, SHIPPINGP 129 348 02-Sen-20 01-Nov-2 18-Aug-21 18-Feb-22 OHMA-ZZA, STEEL SPA 130 STEEL SPAN MATERIAL OCEAN FREIGHT TO THE MUMBAI PORT INCLUDING CUSTOM CLEARANCE 09-Jan-22 28-Sep-21 235 23-Nov-20 09-Jan-22 01-Mar-22 100% 131 STEEL MODULE-01_MP176 - MP171 (OCEAN FREIGHT) 14-Sée-21/4 STERL MODULE (132 STEEL MODULE-02_MP182 - MP177 (OCEAN FREIGHT) 417 10-Jul-20 01-Sep-20 13-Sep-21 100% STEEL MOUDULE-03_MP186 - MP183 (OCEAN FREIGHT) 133 347 29-Nov-20 24-Dec-21 100% DA JUD-22A, LOADA L L DA JUD-22A, STEEL 134 LOADING AND DELIVERY TO THE CONTRACTOR'S ASSEMBLY YARD 555 20-Aug-20 24 Jan-72 21-Oct-20 04-hm-22 100% 135 156 02-Jan-21 100% STEEL MODULE-01_MP176 - MP171 (DELIVERY TO ASSEMBLY YARD) 26-Oct-21 THE TOTAL TOTAL STEEL MODULE 136 343 20-Aug-20 19-Aug-21 21-Oct-20 13-Oct-21 100% STEEL MODULE-02 MP182 - MP177 (DELIVERY TO ASSEMBLY YARD) 07-Mar-22A, STEEL MOI 137 STEEL MODULE-03_MP186 - MP183 (DELIVERY TO ASSEMBLY YARD) 308 09-Jan-21 20-Nov-21 14-Apr-21 07-Mar-22 100% 24 Dec 22 s 138 STEEL MODULE-01_MP176 - MP171 (ASSEMBLY WORKS 125 13-Oct-21 17-Feb-22 100% 21-Jun-22 139 15-Dec-22, S 140 STEEL SPAN ASSEMBLY_MP171 - MP172_G1 52 20-Nov-21 100% 11 15 Dec-22 S 100% 141 44 20-Nov-21 STEEL SPAN ASSEMBLY MP171 - MP172 G2 10 22-Dec-22, 6 50 28-Dec-21 142 100% STEEL SPAN ASSEMBLY MP172 - MP173 G1 19-Jan-22 11 24-Dec 22.S 143 44 25-Jan-22 17-Feb-22 100% STEEL SPAN ASSEMBLY_MP172 -MP173_G2 17 08-Dec 22.5 144 54 29-Nov-21 21-Dec-21 100% STEEL SPAN ASSEMBLY MP173 - MP174 G1 100% 145 STEEL SPAN ASSEMBLY_MP173 -MP174_G2 44 11-Nov-21 30-Dec-21 01-Deb-22,ST 105 23-Oct-21 11-Dec-21 100% 146 STEEL SPAN ASSEMBLY_MP174 - MP175_G1 147 61 02-Nov-21 11-Dec-21 19-Sep-22 100% 19-Nov-22, 51 STEEL SPAN ASSEMBLY MP174 - MP175 G2 24-Nov-22, S 148 STEEL SPAN ASSEMBLY_MP175 -MP176_G1 50 13-Od-21 02-Dec-21 100% 12-Nov-29: \$1 89 23-Oct-21 02-Dec-21 100% 149 STEEL SPAN ASSEMBLY_MP175 - MP176_G2 25-Juli 22 A; STEE 150 381 05-Sep-2 100% 25-Jul-22 STEEL MODULE-02 MP182 - MP177 (ASSEMBLY WORKS 23-Nov-20 25-Jul 22 A. STEE 100% 151 STEEL SPAN ASSEMBLY MP176-MP177 G1 220 03-May-21 03- bil 21 25-11-22 01-Mar-22 100% DI-War-22A STEEL SP 152 STEEL SPAN ASSEMBLY MP176 - MP177 G2 120 25-Jun-2 # 28-OH21A, STEEL SPANAS 100% 153 STEEL SPAN ASSEMBLY MP177 - MP178 G1 68 28-Jun-21 09-Aug-21 05-May-21 28-Oct-21 D4-Jan-22A, STEEL SPAN 154 75 20-Aug-21 18-Sep-21 18-Oct-21 04-Jan-22 100% STEEL SPAN ASSEMBLY_MP177 - MP178_G2 7: 29-Jun-21A: STEEL SPANASSEM 71 05-Mar-21 100% 155 STEEL SPAN ASSEMBLY MP178 - MP179 G 29-Jun-21 💓 30-alig-21 a, steel spanjass 100% 156 STEEL SPAN ASSEMBLY_MP178 - MP179_G2 74 26-Apr-21 19-May-21 17-Apr-21 30-Aug-21 28-Way-21 A STEEL SPANASSEW 157 STEEL SPAN ASSEMBLY_MP179 - MP180_G1 77 02-Jan-21 28-May-21 100% 135 27-DOL21 A STEEL SPANAS 158 184 25-Feb-21 08-Feb-21 27-Oct-21 100% STEEL SPANASSEMBLY MP179 - MP180 G2 03-May-21 A STEEL SPANASSENE 159 STEEL SPAN ASSEMBLY_MP180 - MP181_G1 73 02-Nov-20 25-Nov-20 15-Jan-21 03-Mey-21 100% 7. 04-Jun-21A, STEEL SPAN ASSEME 55 19-Dec-20 04-Jun-21 100% NEW PARTIES NA STEEL SPAN ASSEMBLY 23-MEP-21 A STEEL SPAN ASSEMBLY 160 STEEL SPAN ASSEMBLY MP180 - MP181 G2 28-Dec-20 72 05-Sep-20 29-Sep-20 23-Nov-20 23-Mar-21 100% 161 STEEL SPAN ASSEMBLY MP181 - MP182 G1 31-War-21A STEEL SPAN ASSEMBL 162 STEEL SPAN ASSEMBLY_MP181 - MP182_G2 78 22-Oct-20 14-Nov-20 08-Dec-20 31-Mar-21 100% 17-Nov-22 S 163 STEEL MODULE-03_MP186 - MP183 (ASSEMBLY WORKS) 25-May-21 100% 95 09-Aug-21 28-May-22 100% 18-Od-21 164 STEEL SPAN ASSEMBLY_MP182 - MP183_G1 28-0c-22,STE 165 STEEL SPAN ASSEMBLY_MP182 - MP183_G2 138 24-Aug-21 28-Oct-21 24-Mar-22 100% 17-Nov-22, S1 100% 166 95 04-Oct-21 24-Jan-22 STEEL SPAN ASSEMBLY MP183 - MP184 G1 04-Nov-22, \$T 102 01-Nov-21 167 23-Nov-21 22-Feb-22 100% STEEL SPAN ASSEMBLY_MP183 - MP184_G2 1. 02 Nov-22 STI 168 STEEL SPAN ASSEMBLY_MP184-MP185_G1 274 24-Jul-21 08-Oct-21 10-Jul-21 100% 18-Oct 22, STE 169 130 05-Aug-21 02-Dec-21 100% STEEL SPAN ASSEMBLY MP184 - MP185 G2 301 06-Jul-21 100% 170 STEEL SPAN ASSEMBLY_MP185-MP186_G1 16-Aug-21 25-May-21 26-Oct-22 STE 299 10-Jul-21 28-Sep-21 29-May-21 100% 171 STEEL SPAN ASSEMBLY_MP185 - MP186_G2 27-Dec-22,5 172 27-Dec-22 S 38 03-Dec-21 19-Feb-20 1009 173 STEEL MODULE-01_MP176 - MP171 (LOAD OUT AND TRANSPORT) 7: 27-Sepi22.STE STEEL MODULE-02 MP182 - MP177 (LOAD OUT AND TRANSPORT) 79 30-Sep-20 21-Sep-21 100% 174 19-Nov-22, S1 26 01-Sep-21 175 STEEL MODULE-03_MP186 - MP183 (LOAD OUT AND TRANSPORT) 25-Nov-21 100% 25-0422 MA 176 177 1198 03-Sep-18 100% MAIN BRIDGE PILE FOUNDATION 23-Jan-2 08-Dec-18 21-Feb-22 178 TE : 11-Now-19 A; PILE LOADTEST 179 259 03-Sep-18 19-Nov-18 08-Dec-18 11-Nou-10 10000 :11-Jun-20 A; MAINBRIDGE PLE: FOUNDATION :LA MAIN BRIDGE PILE FOUNDATION_LAND 17+414~18+187 FROM MP250 TO MP266 323 30-Nov-18 180 100% 181 MODULE-21 MP261 - MP257 126 30-Nov-18 05-Mar-19 23-Aug-19 06-Mar-20 100% MODULE-22 MP266 - MP262 167 06-Mar-19 15-May-19 17-Jan-19 100% 100% 182 32 05-Dec-18 25-Sep-19 MODULE-20_MP256 - MP255 10-Jan-19 19-Mar-20 183 Date Revision Approved Critical Remaining Work **EMPLOYER: CONTRACTOR:** Project Baseline Bar Summan 25-Sep-22 R₀ MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY DAEWOO - TPL JV Actual Work Milestone (MMRDA) Remaining Work % Complete

17201	MBAI TRANS HARBOUR LINK PROJECT (PACKAGE 2) CONSTRUCTION OF 7.807 KM LONG (CH 10+380 - CH 18+187) ACROSS THE MUMBAI BAY INCL SHIVAJI NAGAR INTERGUNDER IDENTIFICATION NO MMRDA/ENG/000753	CHANGE	PROGRAM	ME_ABSTR	UCTION UPDATE					4 of
# Activity	D Activity Name	Original BL Project Start Duration	BL ProjectFini	Sh Actual Start	Actual Finish	Schedule % Complete	Complete		020 2021	2022 2023
84	MODULE-19_MP254 - MP250	199 11-Jan-19	16-Apr-19	05-Oct-19	11-Jun-20	100%	100%		7 11-Jun-20 A, MODU	LE-18 NP264-NP250
35	MAIN BRIDGE PILE FOUNDATION_CRZ 15+890~17+414 FROM MP225 TO MP250	268 (20-Dep-18 48 17-Aug-19	27-Nov-19	12-Jun-19	21-Feb-20	100%	100%		I-Feb-20A MAMBRED I-Feb-20A MAMBE I	GEPILE FOUNDATION_C
36 37	MODULE-14_MP231 - MP227 MODULE-15_MP236 - MP232	77 08-Mar-19	27-Nov-19 26-Aug-19	08-Nov-19 08-Aug-19	21-Feb-20 25-Dec-19	100% 100%	100% 100%	254	ec:19A;MODULE:15	MP2361-MP232
38	MODULE-16_MP240 - MP237	113 20-Dec-18	08-Mar-19	12-Jun-19	11-Nov-19	100%	100%		14:66-20/A_MDDULE:15 bec:19/A;MDDULE:15; v4:19/A,MDDULE:18_IV	/P240 - MP237
39	MODULE-17_MP245 - MP241	94 20-Mar-19	17-Jun-19	09-Oct-19	04-Jan-20	100%	100%	\$440	Jan-20A, MODULE-17 Feb-20A, MODULE-18	NP245-NP241
90	MODULE-18_MP249 - MP246	74 21-Jan-19 417 27-Feb-19	26-Mar-19 06-Jun-20	15-Oct-19 15-Oct-19	09-Feb-20 26-Aug-20	100%	100%			neriose ple foundat Neriose ple foundat
91 92	MAIN BRIDGE PILE FOUNDATION_INTERTIDAL 14+880—15+890 FROM MP206 TO MP225 MODULE-10_MP211 - MP207	243 12-Mar-20	06-Jun-20	01-Nov-19	18-Feb-20	100%	100%	149	LIFEHLONG MANDER FLA	0 1 1 1 2 2 1 3 1 3 1 3 2 2 2 2 2 2 2 2 2
93	MODULE-11_MP216 - MP212	277 27-Feb-19	03-Apr-20	15-Oct-19	24-Feb-20	100%	100%	2	HPeb-20(A, IMODULE-1	1_MP216+MP212:
34	MODULE-12_MP221 - MP217	225 06-Apr-19 313 30-Oc∔19	30-Oct-19 06-Feb-20	25-Feb-20	26-Aug-20	100%	100%		### 26-Aug-20 A MODE	1_MP216-MP212 DCLE-12_NP221-MP217 E-13_MP226-MP222
95 96	MODULE-13_MP226 - MP222 MAIN BRIDGE PILE FOUNDATION, MARINE 13+61014+800 FROM MP187 TO MP205	531 12-0ec-19	28-Nov-20	24-Jan-20 01-Oct-19	16-Jun-20 07-Feb-22	100%	100%			7. Feb-22A, MAINBR
97	MODULE-09_MP206 - MP202	340 12-Dec-19	06-Mar-20	01-Oct-19	13-Oct-20	100%	100%		13-Oct-20A, MC	MP: (17.Fpb-22'A MAN BR)DULE-09: MP206: MP20; MODULE-08: MP201:-MI ■ .07-Feb-22'A MODULE
98	MODULE-08_MP201 - MP197	262 22-Feb-20	19-May-20	19-Feb-20	25-Dec-20	100%	100%			MODULE-08: MP201:-ME
9	MODULE-07_MP196 - MP192	146 02-May-20 82 21-Aug-20	08-Sep-20 28-Nov-20	12-Oct-20 31-Aug-20	07-Feb-22 10-Dec-20	100%	100%		10-Dec-204	MODULE-06_MP181-MP
00	MODULE-06_MP191 - MP187 MAIN BRIDGE PILE FOUNDATION_MARINE (STEEL) 11+880~13+610 FROM MP171 TO MP186	678 27-Nov-19	23-Jan-21	17-Mar-20	21-Feb-22	100%	100%			21-Feb-22A, WAIN BR
)2	STEEL MODULE-03_MP186 - MP183	80 30-May-20	21-Nov-20	08-Oct-20	15-Feb-21	100%	100%		15-Feb-21	A STEEL WOOULE 03_M
03	STEEL MODULE-02_MP182 - MP177	336 27-Nov-19	10-Sep-20	17-Mar-20 19-Apr-21	25-Jan-21 21-Feb-22	100%	100%		25-Jan-21-A	MODULE-06 MP197 - MP 21 Feb-22A MANNER A STEEL MODULE-02 MF MP 21 Feb-21A MANNER 21 Feb-21A MANNER 21 Feb-21A MANNER 21 Feb-21A MANNER 21 Feb-21A MANNER 21 Feb-21A MANNER 21 Feb-21A MANNER 21 Feb-21A MANNER A MODULE-03 MP161 - MANODULE-03 MP161
)4)5	STEEL MODULE-01_MP176 - MP171 MAIN BRIDGE PILE FOUNDATION_MARINE 10+380~11+880 FROM MP146 TO MP170	185 30-Jul-20 723 24-Nov-18	23-Jan-21 28-Dec-19	19-Apr-21	21-Peo-22	100%	100%		1	21 Dec 21 A WAIN BRID
06	MODULE-05_MP171 - MP167	193 19-Jun-19	16-Oct-19	24-Feb-21	21-Dec-21	100%	100%			21-Dec-21A.WDDULE-0
7	MODULE-04_MP166 - MP162	507 24-Nov-18	18-Feb-19	19-Feb-19	20-Feb-21	100%	100%		20/Feb-21;	A.MODULE:04_MP166+I
18	MODULE-03_MP161 - MP167	393 22-Jan-19 94 16-Apr-19	18-Apr-19 27-Jul-19	03-Apr-19 21-Dec-20	25-Mar-21 27-Mar-21	100%	100%		27-Wai-2	TAINOOULEOS; MP161+
0	MODULE-02_MP156 - MP152 MODULE-01_MP151 - MP146	107 04-Od-19	28-Dec-19	23-Dec-20	03-Apr-21	100%	100%		03-Apr-2	1A MODULE OF MP151-
11	MAIN BRIDGE PILE CAP INSTALLATION	1135 22-Dec-18	23-Mar-21	01-May-19	H. S. S. S. S. S. S. S. S. S. S. S. S. S.	100%	99 71%			25-0ci 22: V
2	MAIN BRIDGE PILE CAP BOTTOM SLAB INSTALLATION	1008 22-Dec-18	17-Feb-21	19-Aug-19	23-Sep-22	0%	0%		20' Kantrian V. SAVINEDED	29-Sep-22A, RDGE PILE CAP BOTTOM
3 4	MAIN BRIDGE PILE CAP BOTTOM SLAB_CRZ 15+890~17+414 FROM MP226 TO MP250 MODULE-14_MP231 - MP227	356 17-Jan-19 168 28-Sep-19	12-Dec-19 12-Dec-19	19-Aug-19 24-Dec-19	28-May-20 28-May-20	0%	0%		28-May-20A, MODULE	E-14_WP231-WP227
5	MODULE-15_MP236 - MP232	71 05-Apr-19	11-Sep-19	02-Nov-19	21-Feb-20	0%	6 %.	21-	Feb-20A WODULE-15	MP236 - MP232
6	MODULE-16_MP240 - MP2 <u>37</u>	142 17-Jan-19	20-Mar-19	19-Aug-19	23-Feb-20	0%	0 %	123	F66-20A.MODULE-16 In+20A.MODULE-17_N	MP240 MP237
7	MODULE-17_MP245 - MP241 MODULE-18_MP249 - MP246	44 17-Apr-19 63 19-Feb-19	03-Jul-19 12-Apr-19	22-Oct-19 08-Nov-19	04-Jan-20 10-Feb-20	0%	0%	10-	Peb-20A, MODULE-18_	MP249+MP246
9	MAIN BRIDGE PILE CAP BOTTOM SLAB_INTERTIDAL 14+800~15+890 FROM MP206 TO MP225	186 06-Apr-19	18-Jul-20	30-Dec-19	30-Nov-20	0%	0%	::::::::::::::::::::::::::::::::::::::	30-Nov-20A, M	KANBRIDGE PILE CAP BO
0	MODULE-10_MP211 - MP207	95 15-Apr-20	18-Jul-20	30-Dec-19	30-Sep-20	0%	0∀		30-Sep-20A, MOI	DULE-10 MP2111-MP207 DULE-11 MP216-MP212
2	MODULE-11_MP216 - MP212	128 06-Apr-19 74 10-May-19	15-Apr-20 12-Nov-19	09-Mar-20 11-Sep-20	19-Oct-20 30-Nov-20	0% 0%	0 /		30-Nov-20 A: M	ODULE-12_MP221-MP2
3	MODULE-12_MP221 - MP217 MODULE-13_MP226 - MP222		18-Feb-20	27-Apr-20	26-Oct-20	0 %	0×		26+Oc+20A, MO	DULE+13_MP226+MP222
4	MAIN BRIDGE PILE CAP BOTTOM SLAB_MARINE 13+610~14+800 FROM MP187 TO MP205	420 21-Jan-20	10-Dec-20	16-Nov-19	09-May-22	0%	0%			THE DS-May-22 A, WAIN 6
5	MODULE-09_MP206 - MP202	289 21-Jan-20 50 23-Mar-20	20-Mar-20 30-May-20	16-Nov-19 11-Nov-20	11-Nov-20 25-Feb-21	0%	0%		11 - Alli Nov-2017 M	DOULE OF IMP206 IMP20 VINCIOULE DE MP201 IN
7	MODULE-08_MP201 - MP197 MODULE-07 MP196 - MP192	153 30-May-20	08-Oct-20	15-Oct-20	09-May-22	0%	0%	· · · · · · · · · · · · · · · · · · ·	F	AMODULEOS MP201-N MODULEOS MP191-MP 23-Sep-22A M 23-Sep-22A M
8	MODULE-06_MP191 - MP187	77 08-Oct-20	10-Dec-20	20-Nov-20	26-Jan-21	0%	g /		26-Jan-21:A,	MODULE 06: MR191 - MR
9	MAIN BRIDGE PILE CAP PRECAST SHELL_MARINE (STEEL) 11+880-13+610 FROM MP171 TO MP186	422 08-Jan-20 167 02-Nov-20	17-Feb-21 17-Feb-21	11-Oct-20 05-Nov-21	23-Sep-22 23-Sep-22	0% 0%	0%			23-Sep-22A
0	STEEL MODULE-01_MP176 - MP171 STEEL MODULE-02_MP182 - MP177	118 08-Jan-20	26-Sep-20	11-Oct-20	26-Feb-21	0%	0%		26-Feb-21A	STEEL MODULE 02 WE
2	STEEL MODULE-03_MP186 - MP183	194 07-Aug-20	03-Dec-20	19-Jan-21	20-May-22	0%	0 4			20 May-22 A; STEE
3	MAIN BRIDGE PILE CAP BOTTOM SLAB_MARINE 10+380~11+880 FROM MP146 TO MP170	300 22-Dec-18	21-Jan-20	28-Jan-21 26-Mar-21	22-Jan-22 05-Jan-22	0% 0%	0%		IIII)(mmmir)	': 22-Jan-22A, WAIN BRIDG
4 5	MODULE-05_MP171 - MP167 	108 24-Aug-19 199 22-Dec-18	28-Oct-19 01-Mar-19	15-Feb-21	22-Jan-22	0%	0 /			05-Jan-22A, MODULE-05 22-Jan-22A, MODULE-0
6	MODULE-03_MP161 - MP157	111 01-Mar-19	10-May-19	28-Jan-21	20-0d-21	0%	o /		: 20	+Oct-21 A. MODLLE-03 M
7	MODULE-02_MP156 - MP152	53 15-May-19	16-Aug-19	15-Feb-21	17-May-21	0%	0 /	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17-May-2	21 A. MODULE:02_MP156 +Od:21 A. MODULE:01_M
9	MODULE-01_MP151 - MP146 MAIN BRIDGE PLE CAP INSTALLATION	158 01-Nov-19 1119 27-Dec-18	21-Jan-20 23-Mar-21	11-Feb-21 01-May-19	24-Oct-21	0% 100%	0 / 99.71 //			25-0cl-22; MA
0	MAIN BRIDGE PILE CAP_LAND 17+414~18+188 FROM MP251 TO MP266	377 27-Dec-18	13-Jun-19	01-May-19	27-Jun-20	100%	100%		27-Jun-204, WAIN BRI	DGEPILEÇAP_LAND17
1	MODULE-21_MP261 - MP257	248 27-Dec-18	30-Mar-19	15-Oct-19	27-Jun-20	100%	100%		27-Jun-20A MODULE	-21 MP261 - MP257
2	MODULE-22_MP266 - MP262 MODULE-20_MP256 - MP255	207 02-Apr-19 54 01-Jan-19	13-Jun-19 06-Feb-19	01-May-19 29-Nov-19	16-May-20 23-May-20	100%	100 %		3:May-20A, MODULE-	20 <u>MP256</u> -MP255
4	MODULE-20_NIP256 - NIP256 MP250	218 08-Feb-19	13-May-19	23-Nov-19	20-Jun-20	100%	100%			*13 WIF 204 *WIF 20W : : : :
5	MAIN BRIDGE PILE CAP_CRZ15+890~17+414 FROM MP226 TO MP250	328 04-War-19	08-Jan-20	28-Aug-19	19-Sep-20	100%	100%	::::::::::::::::::::::::::::::::::::::	19-Sep-20A, MARV	Bridge Pilecap Crz1
6	MODULE-14_MP231 - MP227	230 24-Oct-19	08-Jan-20	11-Jan-20	19-Sep-20	100%	100 %		== : 1 → :> → P → C + O ↑ O ↑ O ↑ O ↑ O ↑ O ↑ O ↑ O ↑ O ↑ O	ULE-14_MP231-MP227
	Project Baseline Bar Critical Remaining Work Summary	EMPLOYER:		T	CONTRACTOR:		Date		Checked	Approved
	Adual Work Milestone	MUMBAI METROPOLITAN REGION DEVELOPM				ΓPL JV	25-Sep-22	R0	ļ	
	Remaining Work % Complete	(MMRDA)								
				- 1			ı	1	1	A Par

0

0

0

0

0

0

0

0

0

0

0

0

0

9

0

0

Activity D BL Project Finish Actual Start Actual Finish Schedule 6 Complet 310 MAIN BROKSE PER CAP_CRZ 15+890~17+414 FROM MB226 TO MB26 100% 26-Feb-20 25-Feb-20 24-Sep-21 | 28-Wey2) R. Modilie 14 WP28 | | 22-Feb-26A MODULE 15 | MP286 | MP 311 MODULE-14 MP231 - MP227 83 30-Dec-19 25-Feb-20 27-Dec-20 28-May-21 100% 100% 312 MODULE-15_MP236 - MP232 64 11-Nov-19 07-Jan-20 12-Oct-20 22-Feb-21 100% 100% 313 MODULE-16_MP240 - MP237 7:23/Dec-20A,MODULE 6, MP240: MP23 132 21-Sep-19 14-May-20 23-Dec-20 100% 100% 19-Nov-19 7 :22:Dec-20A.MODULE: 17: MR245:-MR24 314 MODULE-17 MP245 - MP241 163 05-Jul-19 100% 100% 16-Oct-19 25-Feb-20 22-Dec-20 315 MODULE-18_MP249 - MP246 24-Sep-21A MODULE-18: MP 201 19-Apr-19 02-kil-19 22-Oct-20 24-Sep-21 100% 100% 316 MANIBRIDGE PIER CAP INTERTIDAL 14+800-15+890 FROM ME206 TO ME226 277 06-Jun-19 C5-Nov-20 04-Feb-21 14-an-22 100% 100% 317 MODULE-10 MP211 - MP207 100% 174 20-Mar-20 05-Nov-20 02-Aug-21 14-Jan-22 100% 318 MODULE-11 MP216 - MP212 209 06-km-19 18-Aug-20 21-hip-2 26-Nov-21 100% 100% 319 MODULE-12_MP221 - MP217 # 24-Sep-214 MODULE-12 NP 100 24-Jul-19 22-Jan-20 01-Mar-21 24-Sep-21 100% 100% 320 MODI F-13 MP226 - MP222 07-34121 A MODULE-13_MP226 187 30-Jan-20 04-Feb-21 07-Jul-21 100% 100% 04-Jun-20 321 MANBROGE PER CAP_MARINE 13+610-14+800 FROM NET87 TO ME205 172 23-Apr-20 10-Ner-2 03-Aty-2 100% 79.439 322 MODULE-06 MP191 - MP187 144 18-Dec-20 10-Mar-21 20-Jan-22 100% 323 MODULE-07 MP196 - MP192 139 10-Sep-20 07-jan-21 18-Nov-21 100% E1 48% 324 MODULE-08 MP201 - MP197 114 01-km-20 29-Sep-20 03-May-21 08-Mar-22 100% 100% 325 MODULE-09 MP206 - MP202 19 - Fek-22 A, MODULE-109 46 23-Apr-20 15-Jun-20 09-Dec-21 09-Feb-22 100% 100% 326 MAN BRIDGE PER CAP_MARINE (STEEL) 11+880~13+610 FROM NB171 TO NB186 A PAR 27-Aug-21 23-Aug-21 452 30-Apr-20 100% 61 09% 327 STEEL MODULE-01_MP176 - MP171 297 08-Mar-21 27-Aug-21 17-Mar-22 100% 30.429 7: 04-Apr-22A:STEEL MO 328 STEEL MODULE-02 MP182 - MP177 148 30-Apr-20 04-Feb-21 23-Aug-21 04-Apr-22 100% 1009 329 STEEL MODULE-03 MP186 - MP183 204 19-Dec-20 22-Apr-21 24-Feb-22 100% 48 75% DZ-JAA-ES I May-zea Mobili 330 MAN BRIDGE PER CAP_MARINE 10+380-11+880 FRO MMB146 TO MB170 184 15-Mar-19 01-Apr-20 17-Dec-21 100% 331 MODULE-01 MP151 - MP146 10 08 Dec 22 M 121 14-Jan-20 01-Apr-20 17-Dec-21 26-May-22 100% 1009 332 MODULE-02 MP156 - MP152 165 05-Sep-19 100% 63% 23-Nov-19 17-Feb-22 333 MODULE-03_MP161 - MP157 144 28-May-19 31-Aug-19 22-Mar-22 100% 20% 334 MODULE-04 MP166 - MP162 118 15-Mar-19 24-May-19 100% 21-Apr-22 335 MODULE-05 MP171 - MP167 10 02-Jan-23,1 82 15-Nov-19 18-Jan-20 100% 0% MAIN BRESSE BEARING PAD AND BEARING INSALLATION 336 848 22-Feb-19 24-Scp-21 14-Sep-20 100% 90399 337 MAIN BREIGE BEARING LAND 17+414-18+188 FROM MB251 TO MB266 393 22-Feb-19 11-Feb-21 100% 22-Airo-19 7 (19 Sep-21)A MAN BRIDGE BE VIEW (18-Feb-22)A MAIN BRIDG 338 MAIN BRIDGE BEARING CRZ 15+880-17+414 FROMMB226 TO MB250 :4-Sep-20 392 CR-May-19 20-Feb-20 100% 09-565-21 1009 339 MAINERIDGE BEARING INTERTIDAL 14+800~15+890 FROMMEROS TO MR225 28 29-Jun-19 14-522-20 01-00-21 1-Feb-22 100% 1609 340 MAIN BROOSE BEARING MARINE 13+610-14+800 FROM MB187 TO MB20 10 Teb 20 226 07-Apr-20 09-Feb-2 22-Fen-22 100% 341 MAIN BRIDGE BEARING MARINE (STEEL) 11+880~13+610 FROMMB171 TO MR186 453 19-May-20 24-Sep-2 22-000-2 100% 92.74% 19-Nov-22 N 342 MAIN BREIGE BEARING MARRIE 10+380-11+880 FROMMRIAE TO MIR! 70 55 25-Apr-19 100% 343 344 MAIN BRIDGE CONCRETE GIRDER INSTALLATION 1099 12-Sep-19 07-Feb-22 100% 68 209 20-Jul-20 Assembly of Shudural Pals in Launching 345 MAIN BRIDGE PC GRIDER LAND 15+890-17+414 FROM MP251 TO MP265 346 **CNI GA 1000** Assembly of Structural Parts in Launching Gantry 1 35 12-Sep-19 17-Oct-19 17-Feb-21 12-Nov-20 100% 100% 347 **CNLGA,1005** Assembly of Mechanical Parts in Launching Gantry_1 15 17-Oct-19 01-Nov-19 05-Feb-21 06-Mar-21 100% 100% Pobyol Shuchural Parsin Launching mblyol Nachanical Parsin Launching 29 War-22A, MODULE 348 **CNLGA.1010** Assembly of Structural Parts in Launching Gantry_2 35 12-Sep-19 17-Oct-19 20-Jul-20 25-Dec-20 100% 100% 349 **CNLGA.1015** Assembly of Mechanical Parts in Launching Gantry_2 100% 15 17-Oct-19 01-Nov-19 28-Sep-20 30-Dec-20 100% 350 MODULE-22 MP266 - MP262 100% 191 01-Nov-19 100% 25-Dec-19 02-hil-21 29-Mar-22 25 May 22A, MODUL 351 MODULE-21_MP261 - MP257 192 02-Dec-19 23-Jan-20 18-Sep-21 25-May-22 100% 100% 15-Juh-22% MGDUL 352 MODULE-20 MP256 - MP255 100% 162 31-Dec-19 04-Feb-20 06-Nov-21 100% 15-Jun-22 353 MODULE-19 MP254 - MP250 100% 02-Jul-22 A. MODUL 27-Feb-20 161 11-Jan-20 26-Nov-21 02-Jul-22 100% 25-Aug-22A: MAR 354 MAIN BRIDGE PRECAST GROER_CR2 15+890~17+414 FROM MP226 TO MP250 214 04 Feb-20 25-Sep-20 30-Dec-20 25-Aug-22 100% 100% 25-Apo-22A: MO 355 MODULE-18 MP249 - MP246 104 04-Feb-20 100% 28-Mar-20 100% 20-Dec-21 25-Aug-22 6-May-21A: MODULE-17: MR245 356 MODULE-17_MP245 - MP241 100% 74 05-Mar-20 27-Apr-20 30-Dec-20 16-May-21 100% 357 D3-Aug-21A, NODULE-16 IMPZ MODULE-16 MP240 - MP237 37 03-Apr-20 21-May-20 100% 100% 13-Apr-21 03-Aug-21 358 MODULE-15 MP236 - MP232 ### 22-Sep-21A MODULE-15_MP 31 27-Apr-20 100% 100% 19-Jun-20 06-Jul-21 22-Sep-21 359 MODULE-14_MP231 - MP227 HIG NOW 21 A MODULE NOW 100% 42 27-May-20 25-Sep-20 27-Aug-21 10-Nov-21 100% 10 Dec 2 A MODULE 13 1 MAIN BOGE PRECAST GROER_INTERTIDAL 14+800-15+890 FROM MP205 TO MP225 360 94 12-Sep-20 11-Apr-22 100% 100% 23-Jen-21 25-Oct-21 361 MODULE-13 MP226 - MP222 39 12-Sep-20 21-Oct-20 25-Oct-21 100% 100% 10-Dec-21 362 MODULE-12 MP221 - MP217 14-Jah-22A, MODULE-12 65 08-Oct-20 20-Nov-20 20-Nov-21 14-Jan-22 100% 100% 363 27-Feb-22A MODULE-MODULE-11 MP216 - MP212 100% 100% 85 09-Nov-20 19-Dec-20 27-Dec-21 27-Feb-22 11-Apr-22 A MOCULE 364 MODULE-10_MP211 - MP207 84 08-Dec-20 100% 100% 23-Jan-21 31-Jan-22 11-Apr-22 365 MAIN BRIDGE PRECAST GROER_MARINE 13+610-14+800 FROM MP187 TO MP205 **2d:/Vipr-**2 164 12-Jan-21 10-Jun-21 19-Mar-22 100% 56.62% 366 CNL GD.1000 Dismantling of Launching Gantry_1 20 18-May-21 10-Jun-21 100% 0% 367 CNLGD.1010 Dismantling of Launching Gantry 2 20 12-May-21 03-Jun-21 14-Sep-22 20-Sep-22 100% 100% 368 MODULE-09_MP206 - MP202 12 May-22A, WODUX 12-May-22 100% 100% 47 12-Jan-21 17-Feb-21 19-Mar-22 369 *** 27:Jun-224.WODU MODULE-08 MP201 - MP197 26 05-Feb-21 19-Mar-21 17-Apr-22 27-Jun-22 100% 100% 370 MODULE-07_MP196 - MP192 17-Apr-21 100% 36.85% 88 08-Mar-21 03-Jun-22 2d War-MODULE-06 MP191 - MP187 54 12-Apr-21 18-May-21 100% 0% Date Revision Checked Approved Critical Remaining Work Project Baseline Bar Summary **EMPLOYER:** CONTRACTOR: 25-Sep-22 RO MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY Actual Work Milestone DAEWOO - TPL JV (MMRDA) Remaining Work % Complete

5 of 9

MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE 2) CONSTRUCTION OF 7.807 KM LONG BRIDGE SECTION (CH 10+380 - CH 18+187) ACROSS THE MUMBAI BAY INCL SHIVAJI NAGAR INTERCHANGE

0

0

0

0

0

0

0

0

ANNEXURE-5 CONSTRUCTION UPDATED PROGRAMME_ABSTRACT (PACKAGE-2)

UNDER IDENTIFICATION NO MMRDA/ENG/000753 # Activity D Original BL Project Start | BL Project Finish | Actual Start | Actual Finish 247 MODULE-15_MP236 - MP232 248 MODULE-16 MP240 - MP237 24-Jan-20A MODULE-17 MP245-NP241 MODULE-17_MP245 - MP241 249 14 Feb-20A MODULE:18 MP249 - MP246 250 MODULE-18_MP249 - MP246 W d7 bec 20 A MANBRIO SE PLE CAP: NT 251 MAIN BRIDGE PILE CAP INTERTIDAL 14+800~15+890 FROM MP206 TO MP225 100% 199 18-Apr-19 05-Sep-20 29-Jan-20 07-Dec-20 07-0d-20A,NXXXIE-10: MP211 - MP207 252 MODULE-10_MP211 - MP20 253 MODULE-11 MP216 - MP212 254 MODULE-12_MP221 - MP217 7-Sep-20 HE (19/NOV-20A-MCBULE) MF220+MF222 12 MF220+MF222 12 MF206-MF202 20-Nov-20A-MCDUKEOD MF206-MF202 MODULE-13_MP226 - MP222 255 23-May-22 100% 256 MAIN ERIOGE PILE CAP MARINE 13+610~14+800 FROM MP187 TO MP205 06-Jan-21 13-Jan-20 413 01-Feb-20 257 MODULE-09 MP206 - MP202 Neggy D4-Mei-21 A, MCDUL E-DB, MP2D1-MP1 Neggy B2A, MCDUL E-DB, MP2D1-MP1 Neggy BD, Jen-21 A, MCDUL E-DB, MP191-MP1 25-CH-22, MAN 258 MODULE-08_MP201 - MP197 04-Mar-21 259 MODULE-07 MP196 - MP192 11-Nov-20 01-Dec-20 23-May-22 260 MODULE-06_MP191 - MP187 261 MAIN BRIDGE PILE CAP_MARINE (STEEL) 11+880~13+610 FROM MP171 TO MP186 100% 00 39 18-Nov-20 485 20-Jan-20 23-Mar-21 1999 DE-Mai-21 A; STEEL MODALLE-32 NP1 262 STEEL MODULE-01 MP176 - MP171 23-Mar-21 A PERMINDENT OF THE PROPERTY O 263 STEEL MODULE-02 MP182-MP177 158 20-Jan-20 02-Nov-20 264 STEEL MODULE-03 MP186 - MP183 265 100% MAIN BRIDGE PILE CAP MARINE 10+380~11+880 FROM MP146 TO MP170 08-Feb-21 23-Mar-22 323 03-lan-19 17-Feb-20 AND CONTROL OF THE CO 266 MODULE-05_MP171 - MP167 119 10-Sep-19 267 MODULE-04 MP166 - MP162 268 MODULE-03 MP161 - MP157 08-Feb-21 269 MODULE 02 MP156 - MP152 54 27-May-19 26-Sep-19 Danow21A.MODIA.E.O.1.M 270 MODULE-01 MP151 - MP146 17-Feb-20 22-Feb-21 271 21-Wah2 27-Aug-21 A. MANGRID GE PIEF DEWah2 J.A. NOOLLE-21_MP281-A 272 28-Jul-21 100% 96 76 1255 09 Jan-19 273 MAIN BRIDGE PIER LAND 17+414-18+188 FROM MPD51 TO MRD66 08-Nov-19 06-Nov-19 27-Aug-21 274 MODULE-21_MP261 - MP257 301 14-Jan-19 12-Jul-19 27-May-20 03-May-21 100% 100% D2-Febra IA: MOCULIE-D2 NOP2B6-IMP 275 02-Feb-21 100% 100% MODULE-22_MP266 - MP262 315 04-May-19 08-Nov-19 06-Nov-19 21-147-21A.MC 33EE-20_MP288 276 100% 100% MODULE-20 MP256 - MP255 11-May-20 21-Jun-21 225 09-Jan-19 17-May-19 100% 100% 277 MODULE-19_MP254 - MP250 336 28-Feb-19 20-Sep-19 15-km-20 27-Aug-21 278 100% 100% MAIN BRIDGE PIER. CRZ 15+890-17+414 FROM MB226 TO MB250 393 26-Mar-19 D4-Nov-19 11-Aug-21 06-f-eb-20 279 100% 100% OF Not-20A MODULETE MP239 - MP232

27 Jun 20A MODULETE MP239 - MP232

22 Jun 20A MODULETE MP344 - MP249 - MP232 MODULE-14 MP231 - MP227 228 05-Dec-19 06-Feb-20 02-Feb-20 22-Jan-21 100% 280 MODULE-15 MP236 - MP232 134 16-Oct-19 19-Dec-19 06-Nov-20 100% 06-Jan-20 281 MODULE-16_NP240 - MP237 04-Nov-19 27-Jun-20 100% 100% 85 13-Aug-19 30-Oct-19 MODULE-17_MP245 - MP241 100% 100% 282 171 22-May-19 25-Sep-19 24-Dec-19 23-Jun-20 283 MODULE-18_MP249 - MP246 238 26-Mar-19 06-Jun-19 02-Mar-20 11-Aug-21 100% 100% 284 MAIN BROIGE PIER INTERTIDIAL 14+800-15+850 FROM MB206 TO MB225 10-Feb-20 417 11-New-19 16-00-20 285 MODULE-10 MP211 - MP207 338 24-Feb-20 16-Oct-20 10-Feb-20 03-Feb-21 100% 100% 22:Mai-21A.MODULE-11;MR216;M MODULE-11 MP216 - MP212 100% 100% 286 17-Jul-20 13-Nov-20 22-Mar-21 386 11-May-19 OS-Jun 21 A MODULE 12 WP221 MODULE-12 MP221 - MP217 100% 287 30-Nov-20 08-Jun-21 97 17-Jun-19 03-Jan-20 r 20:F66-21:A.MDDDUEE-13:MP226-MP 100% 100% 288 MODULE-13 MP226 - MP222 235 06-Jan-20 15-May-20 29-Oct-20 20-Feb-21 289 MIAIN BRIDGE PIER_MARINE 13+610~14+800 FROM MIB187 TO MIB205 100% 316 19-Mar-20 18-Feb-21 4-Jan-21 MOONE F-06 MP191 - MP187 100% 290 173 13-Nov-20 18-Feb-21 19,004-21 24-Jan-22 100% 291 MODULE-07_MP196 - MP192 100% 87.76% 176 17-Jul-20 19-Dec-20 MODULE-08 MP201 - MP197 100% 100% 292 16-Oct-21 162 25-Apr-20 03-Sep-20 04-Jan-21 18-74-21 X NODUNE 09 NP206 - NF 100% 100% 293 MODULE-09 MP206 - MP202 66 19-Mar-20 23-May-20 18-Jan-21 18-Mar-21 21-Wer-2 80.38% 294 MAIN BRIDGE PIER MARINE (STEEL) 11+880~13+610 FROM MB171 TO MB186 544 17-Feb-20 28-Jul-21 295 100% 67.33% STEEL MODULE-01 MP176 - MP171 236 23-Dec-20 28-Jul-21 21-Jan-22 296 STEEL MODULE-02_MP182 - MP177 170 17-Feb-20 08-Feb-21 18-Jan-22 100% 100% 15-Jan-21 70,5% 297 STEEL MODULE-03 MP186 -MP183 100% 290 06-Oct-20 12-Oct-2 03-Apr-21 100% 100% 298 MAIN BRIDGE PIER_MARINE 10+380-11+880 FROM MB145 TO MB170 187 07-Feb-19 13-NEH-20 20-Sep-21 17-May-22 107-Jan-22A, MODULE-01 29-Jan 22A, MODULE-02 299 MODULE-01_MP151 - MP146 100% 100% 129 10-Dec-19 13-Mar-20 20-Sep-21 07-Jan-22 MODULE-02 MP156 - MP152 100% 100% 300 25-Oct-21 29-Jan-22 77 11-Jul-19 04-Nov-19 100% 100% 301 MODULE-03_MP161 - MP157 31-Dec-21 12-Mar-22 61 22-Apr-19 01-Aug-19 128-Api-22/A, MODULE 14 12 Apay 22 A, MODULE 302 100% 100% MODULE-04_MP166 - MP162 84 07-Feb-19 06-May-19 24-Jan-22 28-Apr-22 MODULE-05 MP171 - MP167 100% 100% 303 69 10-Oct-19 31-Dec-19 18-Feb-22 17-May-22 304 MAIN BRIDGE PIER CAP INSTALLATION 979 08-Fet-19 27-Aug-21 25-Feb-20 100% 80.01% 100% 100% 305 17-Jan-22 MAIN BRIDGE PIER CAP LAND 17+414~18+188 FROM ME251 TO ME266 13-Nov-20 313 C8-Feb-19 23-Nov-19 14-OGZTA MODULEZT MP 100% 306 MODULE-21 MP261 - MP257 159 13-Feb-19 11-Feb-21 14-Oct-21 100% 05-Aug-19 13-Mar-21 A; MODULE-22 MP266 -MP MODULE-22_MP266 - MP262 100% 100% 307 13-Nov-20 13-Mar-21 114 03-Jun-19 23-Nov-19 22 Nov 2 A MODULE 20 M 308 MODULE-20 MP256 - MP255 100% 100% 22-Nov-21 182 08-Feb-19 01-Jun-19 07-Jan-21 itilani peni Noduce 19. 309 MODULE-19_MP254 - MP250 212 30-Mar-19 01-Mar-21 17-Jan-22 100% 100% 09-Oct-19 Revision Checked Approved Date Project Baseline Bar Critical Remaining Work **CONTRACTOR:** 25-Sep-22 R0 Actual Work MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY DAEWOO - TPL JV Milestone (MMRDA) Remaining Work % Complete

MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE 2) CONSTRUCTION OF 7.807 KM LONG BRIDGE SECTION 7 of 9 (CH 10+380 - CH 18+187) ACROSS THE MUMBAI BAY INCL SHIVAJI NAGAR INTERCHANGE ANNEXURE-5 CONSTRUCTION UPDATED PROGRAMME ABSTRACT (PACKAGE-2) UNDER IDENTIFICATION NO MMRDA/ENG/000753 Activity ID Activity Name BL Project Finish | Actual Start Original Actual Finish Schedule 9 372 MAIN BRIDGE PRECAST GIRDER_MARINE 10+380~11+880 FROM MP146 TO MP170 148 04-Jun-21 02-Feb-22 100% 373 CNLGA.1020 Assembling of Launching Gantry_1 20 10-Jun-21 03-Sep-21 100% 374 CNLGA.1030 Assembling of Launching Gantry_2 20 04-Jun-21 26-Jun-21 21-Sep-22 100% 50% 375 MODULE-05 MP171 - MP167 28 28-Dec-21 02-Feb-22 100% 376 MODULE-04_MP166 - MP162 28 29-Nov-21 03-Jan-22 377 MODULE-03 MP161 - MP157 W 108-J 04-Dec-21 100% 28 30-Oct-21 378 MODULE-02 MP156 - MP152 28 29-Sep-21 05-Nov-21 100% 379 MODULE-01_MP151 - MP146 28 28-Jun-21 06-Oct-21 380 STITCH JOINT CASTING 571 07-Dec-19 12-Feb-22 12-tan-21 0% 381 MAIN BRIDGE STITCH JOINT CASTING LAND 15+890~17+414 FROM MP251 TO MP256 263 07-Dec-19 16-Mar-20 DB-Jul-21 BJun-22 A, MODU 382 MODULE-19 MP254 - MP250 106 10-Feb-20 16-Mar-20 29-Nov-21 28-Jun-22 0% 383 13-Juh-22'A, MODUL MODULE-20 MP256 - MP255 156 17-Jan-20 20-Feb-20 10-Nov-21 13-Jun-22 0% 384 209 06-Jan-20 # 19 May 22A, MODULI MODULE-21_MP261 - MP257 08-Feb-20 23-Sep-21 19-May-22 0% 385 MODULE-22_MP266 - MP262 175 07-Dec-19 25-Mar-22 25-War-22-A, MODULE-2 10-Jan-20 08-Jul-21 0% 23-Aug-22A: MAN 386 MAIN BRDIGE STITCH JOINT CASTING_CRZ 15+890~17+414 FROM MP226 TO MP250 206 11-Mar-20 13-Oct-20 12-Jan-21 23-Aug-22 0% 29 19-Sep-20 08-Nov-21 A, MODULE-114 ; N 387 MODULE-14 MP231 - MP227 13-Oct-20 02-Sep-21 08-Nov-21 388 20-Sep-21A MODULE-15: MP MODULE-15 MP236 - MP232 19 02-Jun-20 09-Jul-20 10-Jul-21 20-Sep-21 0% 389 MODULE-16_MP240 - MP237 19 04-May-20 06-Jun-20 23-Apr-21 31-Jul-21 0% 390 MODULE-17_MP245 - MP241 41 09-Apr-20 14-May-20 12-Jan-21 12-May-21 #### 12-May-21/A, MODULE-17_MP245-1 23-Aug-22A, MOE 391 MODULE-18 MP249 - MP246 142 11-Mar-20 14-Apr-20 29-Dec-21 23-Aug-22 0% 7777 07-Apr-22A, MAINBRID 392 MAIN BREDGE STITCH JOINT CASTING INTERTIDAL 14+800-15+890 FROM MP206 TO MP228 155 14-00-26 10-Feb-21 27-Oct-21 07-Apr-22 0% 393 WW 07-Apr-22A MODULE-MODULE-10_MP211 - MP207 43 18-Jan-21 10-Feb-21 03-Feb-22 07-Apr-22 25-Feb-22A MODULE-1 394 MODULE-11 MP216 - MP212 112 14-Dec-20 05-Jan-21 30-Dec-21 25-Feb-22 0% 12-Jan-22A, MODULE-12 395 MODULE-12_MP221 - MP217 97 14-Nov-20 07-Dec-20 24-Nov-21 12-Jan-22 0% 396 MODULE-13_MP226 - MP222 28 14-Oct-20 27-Oct-21 18-Dec-21 A, MODULE 113 06-Nov-20 08-Dec-21 0% 397 127 11-Feb-MAIN BRIDGE STITCH JOINT CASTING MARINE 13+610~14+800 FROM MP187 TO MP208 21-Jun-21 21-Mar-22 398 MODULE-06_MP191 - MP187 16 04-Jun-21 21-Jun-21 11-Mar-23 399 MODULE-07_MP196 - MP192 72 17-Apr-21 0% 05-May-21 07-Jun-22 0% 400 MODULE-08 MP201 - MP197 59 13-Mar-21 05-Apr-21 20-Apr-22 25-Jun-22 0% NO DULE 401 MODULE-09 MP206 - MP202 34 11-Feb-21 06-Mar-21 21-Mar-22 09-May-22 402 MAIN BRIDGE STITCH JOINT CASTING MARINE 10+380-11+880 FROM MP146 TO MP170 107 06-Oct-21 12-Feb-22 0% 403 MODULE-01 MP151 - MP146 12 06-Oct-21 23-Oct-21 17: 27-M 404 MODULE-02_MP156 - MP152 12 05-Nov-21 22-Nov-21 405 1 25 MODULE-03 MP161 - MP157 0% 12 04-Dec-2 21-Dec-21 0% 406 MODULE-04_MP166 - MP162 12 03-Jan-22 0% 17 23 19-Jan-22 407 MODULE-05 MP171 - MP167 12 27-Jan-22 12-Feb-22 408 MAIN BRIDGE STEEL GIRDER INSTALLATION 397 03-0ct-20 01-Mar-22 01-Jan-22 100% 23 33% MAN BRIDGE STEEL GIRDER INSTALLATION_MARINE 11+880~13+610 FROM MP171 TOMP 186 409 03-Oct-20 01-Mar-22 23,339 410 STEEL MODULE-01_MP176 - MP171 (INSTALLATION) 114 07-Dec-21 01-Mar-22 100% 411 MF 09-Dec-22:S STEEL MODULE-02 MP182 - MP177 (INSTALLATION) 138 03-Oct-20 30-Sep-21 01-Jan-22 100% 58.33% 412 STEEL MODULE-03_MP186 - MP183 (INSTALLATION) 83 30-Sep-21 07-Dec-21 100% 413 414 CRASH BARRER & GURARO RAILS 07-Mar-22 25-Jul-22 368 20-Feb-20 100% 2549 415 WATER PROOFING 333 26-Mar-20 17-Mar-22 100% 416 PAVEMENT 413 16-Mar-20 24-May-22 100% 417 **EXPANSION JOINT** 283 27-May-20 21-Apr-22 180% H-1 H-1 1 H-1 1 H-1 1 H-1 418 SUBSTATION 30-Mar-21 271 15-Way-19 15-Apr-21 100% 419 NOISE BARRIER 184 15-Mar-20 14-Sep-21 2009 26-N d7-Apr-2 420 FENDER INSTALLATION 80 24-04-21 24-Nov-21 100% 421 DRAINAGE WORKS 322 16-Mai-20 09-Mar-22 1,00% 422 SIGNBOARDS 150% 60 12 Feb-22 23-Apr-22 W 423 26-Way-21A, NTERCHANGE FOUN 424 13-May-21:A. INTERCHANGE RAMP 425 INTERCHANGE RAMP PILE FOLINDATION 05-Mar-20 DQ-CH19 100% 475 24-Dec-18 13-May-21 13-May-21.A.: NT ERCHANGE RAMP 05-Aug-19 13-May-21 426 INTERCHANGE RAMP PILE FON MA 100% 03-Jan-20 09-Oct-19 L. VETTE 28-Jun-20A, MODULE 23 WAA2-MAP4 427 MODULE 23 MAA2-MAP4 75 05-Aug-19 100% 02-Nov-19 13-Jan-20 28-Jun-20 100% TTY 13-May-21:A, MODULE: 24 MAP4-M 428 MODULE 24 MAP4-MP246 137 02-Nov-19 03_lan-20 09-Oct-19 13-May-21 100% 100% 429 INTERCHANGE RAMP PILE FON_AC 107 01-Od-19 16-Aug-20A INTERCHANGE RAMP PILE FON 05-Mar-20 25-Oct-19 16-Aug-20 100% 100% 16 Aug-20A MODULE 33 ACA2 ADPS 430 MODULE_33_ACA2-ACP5 60 01-Oct-19 19-Dec-19 25-Oct-19 16-Aug-20 100% 100% 25-Reb-20A; MODULE_34_ACPS-MP256 431 MODULE_34_ACP5-MP256 62 19-Dec-19 05-Mar-20 02-Nov-19 25-Feb-20 100% 100% 07-May-21/A, INTERCHANGE: RAMP INTERCHANGE RAMP PILE FON_JM 432 178 03-Jan-19 05-Aug-19 25-Nov-19 07-May-21 100% 100% 433 ## 23-Apr-21A, MODULE: 25: MP245-JN MODULE 25 MP245-JMP4 178 22-Apr-19 05-Aug-19 26-Nov-19 23-Apr-21 100% 100% 434 MODULE 26 JMP4-JMP8 88 19-Feb-19 100% 17-Feb-21/A MODULE: 26 JANP4-AMPB 20-Apr-19 01-Dec-20 17-Feb-21 Date Revision Checked Approved Project Baseline Bar Critical Remaining Work EMPLOYER: **CONTRACTOR:** 25-Sep-22 R₀ MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY Actual Work Milestone DAEWOO - TPL JV (MMRDA) Remaining Work % Complete

0

0

# Ad 498 499 500 501 502 503	MODULE_33_ACA2-ACP8-ACP7-ACP5-ACP5	Original Duration	DI D 1 101 1				•						
499 500 501 502	MODULE_33_ACA2-ACP8-ACP7-ACP6-ACP5		BL Project Start	BL Project Finis	h Actual Start	Actual Finish	Schedule % Complete	Performance % Complete					<u>0</u> 22 2023
500 501 502		140	27-Feb-21	08-Sep-21	01-Nov-21	10-Apr-22	100%	100%				·····	20-Sep-22A
501 502	MODULE_34_ACP5-ACP4-ACP3-ACP2-ACP1-BP266	122	31-May-21	27-Dec-21	07-Apr-22	20-Sep-22	100%	100%				H	20-Sep-22A;
502	INTERCHANGE BOX GIRDER INSTALLATION_JM		11-Mar-20	26-Feb-21	30-Aug-22		100%	33%	333334				HA processor /
	MODULE_25_MP245-JMP1-JMP2-JMP3-JMP4		19-Aug-20	09-Feb-21			100%	0%			:::::::::::: :::::::::: ::		14-Nov-22;
503	MODULE_26_JMP4-JMP6-JMP8-JMP8		29-Sep-20	26-Feb-21	30-Aug-22		100%	8.4%			H		. arressant
	MODULE_27_JMPS-JMP9-JMP10-JMA2		11-Mar-20	29-Sep-20	08-Sep-22		100%	9%					
504	INTERCHANGE BOX GIRDER INSTALLATION_MJ		20-Sep-19	08-Jan-21	17-Mar-22		100%	92.31%	9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				14-Nov-22 11-Jun-22 A. MOD
505	MODULE_35_MJA24MJP124MJP114MJP90		20-Sep-19	16-Mar-20	17-Mar-22	11-Jun-22	100%	100%			####		7910447
506	MODULE_36_MJP9-MJP6-MJP6-MJP5-MJP4		16-Mar-20	29-Oct-20	28-Mar-22	23-Aug-22	100%	100%					23-Aug-22A: N 14-Nov-22
507 508	MODULE_37_MJP4-MJP3-MJP1-MP252	The second secon	30-Jun-20 30-Od-20	08-Jan-21	16-Jun-22	100	100%	75%					
509	INTERCHANGE BOX GROER INSTALLATION_CA	5.765.92	06-Sep-21	15-Feb-22 15-Feb-22			100%	0.076					
510	MODULE_28_MP249-CAP1-CAP2-CAP3-CAP4 MODULE_29_CAP4-CAP5-CAP6-CAP7-CAP8		09-Apr-21	23-Nov-21			100%	0%0					
511	MODULE 30 CAPS-CAP9-CAP10-CAA2		30-Oct-20	08-Apr-21			100%	70/			*****		ondens den ey, 07-Ap
512	INTERCHANGE BOX GIRDER INSTALLATION, AM		14-0d-19	19-Aug-20			100%	C#4					▼▼▼▼ Ω1;Aþ
513	MODULE 31 AMA2-AMP8-AMP7-AMP6-AMP4		14-Oct-19	11-Mar-20			100%	10%				, , , , , , , , , , , , , , , , , , , ,	27-Ma
514	MODULE 32 AMP4-AMP3-AMP2-AMP1-MP259		10-Feb-20	19-Aug-20			100%	7%			<u> </u>		D1-Ab
515	INTERCHANGE RETAINING STRUCTURE		CANCEL CONTRACTOR	06-Nov-20	15-May-21		100%	65.47%					17-Yov-22 5-Mar-22'A, JNTERCI 26-Sep-22, IN
516	INTERCHANGE RETAINING STRUCTURE_AC		24-Jun-20	06-Nov-20	15-May-21	25-Mar-22	100%	195(6 0%)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	:2	5-Mar-22A, INTERC
517	INTERCHANGE RETAINING STRUCTURE JM	76	11-Mar-19	08-May-19	24-Feb-22		100%	47,84%			*		26-Sep-22, IN
518	INTERCHANGE RETAINING STRUCTURE, MJ	101	09-May-19	11-Jul-19	18-Oct-21	06-Aug-22	100%	A TOOK					06-Aug-22/A, N
519	INTERCHANGE RETAINING STRUCTURE CA	39 (06-Feb-20	24-Mar-20	28-Dec-21		100%	7951%	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				17-Nov-22, I
520	INTERCHANGE RETAINING STRUCTURE AM	41	12-Jul-19	24-Oct-19			100%	320%		1 1 1 1 1 1 1 1 1 1 1 1 1			17-Nov-22.1
521	MISCELLANEOUS & FINISHING WORKS	444	19-Aug-20	28-Apr-22			100%	0%	11111111111111			111111111111111111	
522	EXPANSION JOINT	416 (01-Oct-20	22-Apr-22			0%	1 1 0 A					* -
523	CRASH BARRIER & GURARD RAILS	388	19-Aug-20	21-Feb-22			100%	MS-tox					
524	WATER PROOFING	388	10-Sep-20	08-Mar-22			100%	100		21111211111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ii danamara
525	PAVEMENT	434 (Control of the Contro	28-Apr-22			100%	一个人					
526	DRAMAGE WORKS		Control of the Contro	26-Feb-22			100%	0.4				111111111111111111111111111111111111111	H
527	PROJECT HANDINGOVER	65 2	24-May-22	22-Sep-22			100%	0%					₩
528	DEFECT LIABILITY PERIOD (DLP)	730 2	22-Sep-22	21-Sep-24			0%	0⊗	1 4 1 4 1 4 2 1 4 2 1 4 1 4 1 4 1 4 1 4				
529	PRICE SCHEDULE	2490 2	23-Mar-18	21-Mar-23	23-Mar-18		98.67%	46.99%		11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
530	SCHEDULE4	2490 2	3-M ar-18	21-Mar-23	23-Mar-18		96,32%	53.26%					
531	SCHEDULE 2	1644 2	3-Mar-18	22-Sep-22	23-Mar-18		100%	98.27%	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
532	SCHEDULE3	1644 2	3-Mar-18	22-Sep-22	23-Mar-18		100%	98%					
533	SCHEDULE42	1644 2	3-Mar-18	22-Sep-22	23-Mar-18	*	100%	54.2%				*************	
534	SCHEDULE43		MARTITAL RESERVE	designation of the same	23-Mar-18		100%	0.28%					
144				17-Jun-22	16-Dec-17	CAUTA AND BEING	100%	85.37%					
~~	MTHL-PKG2-RAMBOLL DESIGN PROGRAMME_25092022_APPROVED_MPR.54							75.7%					

Project Baseline Bar Critical Remaining Work Summary	EMPLOYER:	CONTRACTOR:	Date	Revision	Checked	Approved
Actual Work ♦ Milestone	MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY (MMRDA)	DAEWOO - TPL JV	25-Sep-22	R0		
Remaining Work % Complete						

Attachment 8- Package-3's Construction Programme Updated as of 25th Sep 2022



MTHL Pkg 3_MPR Schedule Sep'22				Classic Schedule Layout								08-Oct-22 18:55									
vity ID	Activity Name	Original Duration	BL1 Start	BL1 Finish	Start	Finish	Activity % Complete	Schedule % Complete	Performance % Complete	Earned Value Cost	Budgeted Tot Co		Jul	Qtr 3, 20:	Sep	Oct	Qtr 4, 202	2 Dec		1, 2023 Feb M	itr2 Iar A
MTHLF	Pkg 3_MPR Schedule Sep'22	1439	23-Mar-18	03-Mar-23	23-Mar-18 A	03-May-23		86.61%	84.35%	Rs8.551,260,616	Rs10,137,901,01		301	Aug	Зер		1404	Dec	Jaii	reb ivi	a1 /
	rement of Mumbai Trans Harbo	1439	23-Mar-18	03-Mar-23	23-Mar-18 A	03-May-23		86.01%	84.35%	Rs8,551,260,616	Rs10,137,901,01	6	1	;		:	1 1				
e t	Commencement Date (CD)	0	23-Mar-18		23-Mar-18 A		100%	100%	100%	Rs0	Rs	o	1	; ; ;		:		1	, 1	4	
Miles	stones (As level of effort)	749	30-Sep-19	03-Маг-23	30-Sep-19 A	03-May-23	· ·	0%	0%	Rs0	Rs	0							· ·		
K	an array on their relative term of the array of the commence o	0	3 0-Sep-19	30-Sep-19	30-Sep-19 A	30-Sep-19.	100%	100%	100%	Rs0	Rs	0							i	į	;
■ KE	O KD 2 [NOC for technical design doc & drav	0	29-Jun-20	29-Jun-20	29-Jun-20 A	29-Jun-20 A	100%	100%	100%	Rs0	Rs	0			: -		·				æ
■ KI	KD 3 [NOC for Good for construction draw	0	17-Aug-20	17-Aug-20	17-Aug-20 A	17-Aug-20.	100%	100%	100%	Rs0	Rs	0	:					1		4	;
■ KE	KD 4 [Substantial completion of foundation	0	27-Nov-20	27-Nov-20	27-Nov-20 A	27-Nov-20	100%	100%	100%	Rs0	Rs	0	1						i		i
■ KE	KD 5 [Substantial completion of pile caps	0	25-Dec-21	25-Dec-21	25-Dec-21 A	25-Dec-21.	100%	100%	100%	Rs0	Rs	o if applica	; able), pie	: ers, abutn	ents r	e casting	segment	completio	n]		:
E KE	KD 6 [Substantial completion superstructure	0	06-Dec-22	06-Dec-22	05-Jan-23	05-Jan-23	0%	0%	0%	Rs0	Rs	0							KD 6 [S	ubstantial	comple
€ KD	KD 7 [Substantial completion of kerb/traffic	0	17-Feb-23	17-Feb-23	19-Apr-23	19-Apr-23	0%	0%	0%	Rs0	Rs	0		,			1				
™ KD	KD 8 [Final completion & handing over]	0	03-Mar-23	03-Mar-23	03-May-23	03-May-23	0%	0%	0%	Rs0	Rsi	ō		į							
Finar	ncial Milestone	1348	23-Mar-18	03-Mar-23	23-Mar-18 A	03-May-23		0%	0%	Rs0	Rsl		!	!		-	1 1			1 -	-
FIV	Completion of the works amounting to 7%	0	23-Mar-18	31-Jul-19	23-Mar-18 A	31-Jul-19A	100%	100%	100%	Rs0	Rst										
FIV	Completion of the works amounting to 259	0	23-Mar-18	31-Jan-20	23-Mar-18 A	31-Jan-20 A	100%	100%	100%	Rs0	Rs	j l		!							
FIV	Completion of the works amounting to 40%	0	23-Mar-18	22-Mar-20	23-Mar-18 A	22-Mar-20	100%	100%	100%	Rs0	Rs			ģ.			;		******	·	
FM	Final Completion and Handing over.	0	03-Mar-23	03-Mar-23	03-May-23	03-May-23	0%	0%	0%	Rs0	Rs								1000		:
FM	Substantial completion of all Works and St	167	03-Sep-22	17-Feb-23	03-Nov-22	19-Apr-23	0%	13.17%	0%	Rs0	Rs0		Ļ	0) ()						js Co.	
FM	Completion of the works amounting to 50%	231	23-Mar-18	31-May-20	23-Mar-18 A	31-May-20	100%	100%	100%	Rs0	Rs0							1		4	1
FM	Completion of the works amounting to 85%	276	31-Oct-21	31-Oct-21	31-Oct-21 A	31-Oct-21 A	100%	100%	100%	Rs0	Rs0	Contra			1						
Interf	ace Milestone	630	17-Sep-18	16-Aug-22	25-Mar-18 A	16-Oct-22		0%	0%	Rs0	Rs0					7 16	3-Oct-22, li	nterface M	lilestone	in the same of	
Delay	Events	1193	19-Арг-18	25-Jul-22	19-Apr-18 A	26-Sep-22		0%	0%	Rs0	Rs0				7	26-Sep-	22, Delay	Events	:		1 1
Docu	ment Submittals	45	06-Арг-18	30-Sep-19	06-Apr-18 A	30-Sep-19.		100%	100%	Rs74,992,895	Rs74,992,895	1									1
Emple	oyer's Obligation / Land Handover	1153	23-Mar-18	25-Jul-22	23-Mar-18 A	26-Sep-22		0%	0%	Rs0	Rs0				7	26-Sep-	22, Emplo	yer's Oblig	ation / La	ı nd Hando	ver
Emple	oyer Office (Sch 01- General Item)	797	25-Jan-19	18-Dec-22	25-Jan-19 A	20-Jan-23		98.76%	97.51%	Rs138,804,765	Rs142,351,965				-			- :	→ 20-Ja	an-23, Em	ployer
Surve	ey & Geotechnical Investigation Works	346	19-Apr-18	30-Sep-19	19-Apr-18 A	30-Sep-19.	**************************************	100%	100%	Rs242,300,773	Rs242,300,773					j			· ; ·	-	
Desig	n Works	1043	25-Apr-18	25-Jul-22	25-Apr-18 A	26-Sep-22		100%	100%	Rs159,122,500	Rs159,122,500				7: 2	26-Sep-	22, Desigr	n Works			:
Procu	urement Works	1000	15-Feb-19	25-Oct-22	15-Feb-19 A	06-Dec-22		99.52%	94.17%	Rs1,306,322,068	Rs1,387,160,466				<u> </u>		,	7 06-Dec-2	22, Procu	rement W	orks
Co-or	rdinated Fabrication & Manufracturing V	942	21-Feb-19	04-Sep-22	21-Feb-19 A	31-Oct-22		100%	98%	Rs382,793,834	Rs390,605,953				÷		7 31-Oc-2	2, Co-ordi	nated Fal	brication &	Manu
Const	truction Works	1231	26-Sep-18	02-Mar-23	26-Sep-18 A	01-May-23		89.63%	88.44% I	Rs6,246,923,781	Rs7,063,465,440	-		:	+		:	:	:	:	$\dot{-}$
Pre	econstruction Activity	1082	26-Sep-18	01-Nov-22	26-Sep-18 A	13-Dec-22		0%	0%	Rs0	Rs0							▼ 13+De	c-22, Pred	constructio	n Activ
Sub	b Structures (Open Foundation, Pier ,Pier C		14-Nov-18	10-Oct-22	14-Nov-18 A	18-Nov-22		99.89%			Rs3 392 80 6 946	-			-	:	18-	Nov-22, S	ub Structi	ures (Open	Found
	per Structures			20-Jan-23	11-Sep-19 A	17-Feb-23		85.81%			Rs1 408 927 164	-			1		:	9		▼ 17-Feb-	
The second second	arings Installation	-	04-Nov-20	19-Dec-22	04-Nov-20 A	30-Jan-23	CENTER I	50.16%	41.18%	Rs4 304 874	Rs10.454.695					;			30)-Jan-23, E	Jearing
	dge Ancil laries & Miscellaneous Item		27-Jul-22	02-Mar-23	05-Jul-22 A	01-May-23		19.08%	1.64%	Rs1.277.620	R\$78.136 642		4	·							
The second second	Wall Grade work			06-Jan-23 16-Jan-23	22-Dec-21 A 16-Feb-19 A	06-Feb-23 16-Jan-23		40.7% 99.81%		Rs187,455,890 Rs1 504 901 611	Rs450.167.295 Rs1.514.366.401	3	- 1	- 1	:	\$ 1	:				
The state of the s	ter Proofing				05-Dec-22	22-Apr-23	KEEL	0%	0%	Rs0	Rs6.259.406					1		:	▼ 10-Jar	1-23, At Gr	ade WO
	chalt Pavement, Kerb , traffic sign				27-Jan-23	28-Apr-23		0%	0%	Rs0	Rs154.449.156					:	-		Vi-		4
The second second	mpound wall with safety fence				04-Jan-22 A	16-Mar-23		37.96%	2.92%	Rs1,398,726	Rs47.897.735						:			<u>:</u>	16-Mai
Comp	letion of Interface Activity	17	25-Jul-22	17-Aug-22	26-Sep-22	17-Oct-22		0.00%	0%	Rs0	Rs677,901,024		-			17-	-Oct-22, C	ompletion	of Interfa		
Testin	g & Commissioning Works	34 2	24-Jan-23	03-Mar-23	25-Mar-23	03-May-23		0%	0%	Rs0	Rs0		:	:		9 9	;	;	;		<u> </u>



Actual Level of Effort Remaining Work ♦ Milestone
Actual Work Critical Remaining Work ▼ summary

Page 1 of 1

TASK filter: All Activities

© Oracle Corporation

0				
0	Mumbai Trans Harbour Link Project	- Quarterly Progress	Report No. 2	2 (Jul-Sep 20
0				
0				
0				
0				
0				
0				
0				
0				
0				
0				
0				
0				

Attachment 9- Project Progress Photos for Sep 2022



Package 1- Site Progress Photos

Photo No. 1: LG-07 AP 40-41 installation in progress



Photo No. 2: OSD 2 SPAN 1SOUTH MP 69-70 loading out in progress

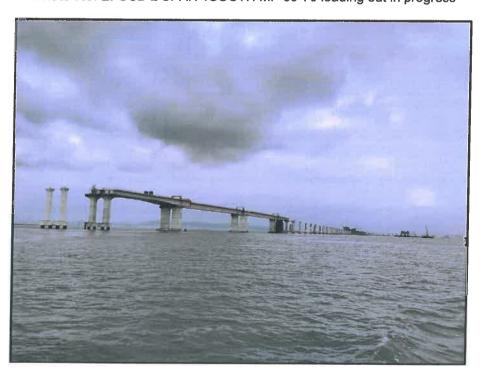


Photo No. 3: A view of erected OSD -4 Span





Photo No. 4: MP 113 S Pier Head Shuttering



Photo No. 5: BP 33 Cast in situ Shutter Checking



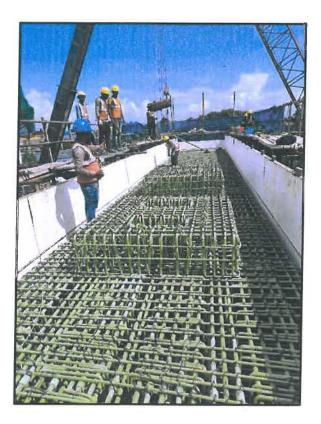


Photo No. 6: BP 33 Portal Pier Cap in progress



Photo No. 7: AP 35 Pier cap casting in progress





Photo No.8: EP 08-09 Top slab Cast in situ reinforcement in progress



Photo No. 9: MP 13 gantry lifting segment in progress



0



Photo No. 10: SE, MMRDA factory visit to Vada for composite girder



Photo No. 11: BP 33 portal pier cap casting in progress



 \bigcirc



Photo No. 12: A view of Sewri I/C from LPN 01 looking towards to the sea



0

Package 2 - Site Progress Photos



Photo No. 1: LG-1 Load Testing at MP 148A- MP 148B LHS in progress



Photo No. 2: Segment concreting at Bay-3 in progress



O



Photo No. 3: Outer Crash barrier formwork alignment at Span MP 222-223 LHS in progress



Photo No. 4: Pier cap concrete at MP 185 RHS in progress





Photo No. 5: Pile reinforcement cage inspection at MP 240 R Substation in progress



Photo No. 6: Median side crash barrier formwork fixing at Span MP 234-235 LHS in progress

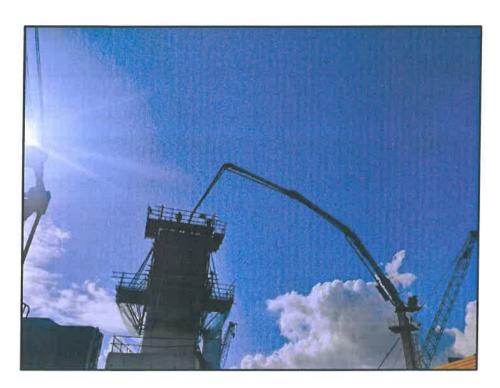


Photo No. 7: Pier 1st lift concrete at MP 174 RHS in progress



Photo No. 8: Pile cap concrete at MP 171 LHS in progress





Photo No. 9: Integral pier head segment concrete at MP 190 LHS in progress



Photo No. 10: 7th OSD span erection at Span MP 178-179 LHS in progress





Photo No. 11: Segment concreting at Bay-1 in progress



Photo No. 12: Web concrete at Ramp JM in progress



1st July to 30th Sep 2022

0

0

Package 3 - Site Progress Photos



Photo No. 1: Gavan ROB structural works in progress



Photo No. 2: Gavan superstructure works in progress



 \bigcirc



Photo No. 3: Toll-plaza area ground clearance works in progress

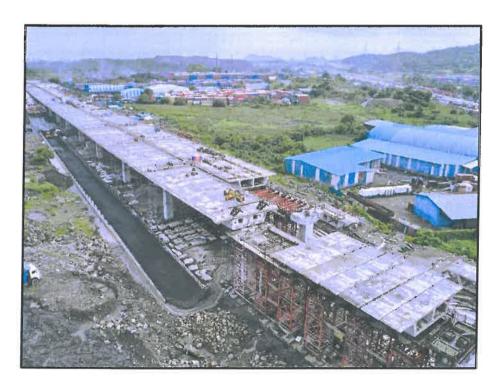


Photo No. 4: Jasai viaduct works in progress





Photo No. 5: Chirle Interchange works in progress



Photo No. 6: Gavan ROB span RMP 274-275 deck concrete completed





Photo No. 7: Chirle Pier RP 28 L final lift shuttering works in progress



Photo No. 8: Chirle Pier cap LP 30 pedestal & seismic arrester pre-pour inspection works in progress

0



Photo No. 9: Chirle MJP Loop FDD inspection works in progress



Photo No. 10: Jasai ROB Span RP26-27 Girder's Erection completed



 \bigcirc



Photo No. 11: Jasai ROB Span LP25-26 Girder's Erection works in progress



Annexure-1 JICA Reimbursement backup-Aug-22



Reimbursement details for the month of Aug-2022 (Annexure-1)

 \bigcirc

 \bigcirc

 \bigcirc

Date of Disbursement	Amount of Disbursement in JPY
12-Aug-22	JPY 88,65,96,523
12-Aug-22	JPY 72,89,55,950
12-Aug-22	JPY 34,33,99,348
12-Aug-22	JPY 22,97,22,845
12-Aug-22	JPY 1,24,56,66,862
12-Aug-22	JPY 1,38,42,41,854
12-Aug-22	JPY 89,02,76,572
12-Aug-22	JPY 8,02,15,015
12-Aug-22	JPY 30,83,77,793
12-Aug-22	JPY 16,82,91,883
12-Aug-22	JPY 10,72,16,192
12-Aug-22	JPY 1,32,69,881
12-Aug-22	JPY 68,54,60,567
16-Aug-22	JPY 1,51,22,72,162
16-Aug-22	JPY 87,45,60,133
16-Aug-22	JPY 40,42,12,162
16-Aug-22	JPY 1,36,45,436
16-Aug-22	JPY 36,39,65,964
16-Aug-22	JPY 21,86,39,966
16-Aug-22	JPY 10,10,53,041
16-Aug-22	JPY 34,11,254
19-Aug-22	JPY 3,43,89,227
19-Aug-22	JPY 2,26,56,982
19-Aug-22	JPY 5,38,57,469
19-Aug-22	JPY 4,30,99,888
Total Amount	10717.45 Million JPY



Annexure-2 JICA Reimbursement backup-Sept-22



Reimbursement details for the month of Sep-2022

Date of disbursement	Amount of Disbursement in JPY						
06-Sep-22	JPY 32,24,88,971						
06-Sep-22	JPY 8,70,89,495						
06-Sep-22	JPY 3,71,56,813						
06-Sep-22	JPY 10,58,102						
06-Sep-22	JPY 30,58,21,682						
06-Sep-22	JPY 1,24,27,36,098						
06-Sep-22	JPY 21,85,06,012						
06-Sep-22	JPY 98,91,031						
06-Sep-22	JPY 52,08,53,904						
06-Sep-22	JPY 1,75,89,24,445						
06-Sep-22	JPY 67,71,38,065						
06-Sep-22	JPY 2,00,77,169						
06-Sep-22	JPY 1,00,85,86,340						
06-Sep-22	JPY 35,81,51,885						
06-Sep-22	JPY 1,19,57,92,464						
06-Sep-22	JPY 43,01,82,140						
Total Amount	8194,45 Million JPY						



Annexure-3 Extension of Validity for CRZ Clearance





The Member Secretary,

Maharashtra Coastal Zone Management Authority

Environment Department, 15th floor

New Administrative Building,

Mantralaya, Mumbai 400032

0

Name of work: Mumbai Trans Harbour Link (MTHL) Project.

Sub: Extension of validity of CRZ Clearance

Ref

1. MMRDA letter No. MMRDA/MTHL-PIU/CRZ Extension/1338/2022 dated 04/08/2022.

2. MMRDA letter No. MMRDA/MTHL-PIU/CRZ Extension/1360/2022 dated 11/08/2022.

Sir,

Mumbai Metropolitan Region Development Authority has submitted application for Extension of CRZ Clearance vide letter dated 04/08/2022 & online submission having file no. MCZMA 2022/08/CR-246/3719 on Maharashtra Coastal Zone Management Authority official website.

In view of above, it is requested to take this project on agenda during the next scheduled meeting of MC2MA to consider the proposal of extension of CR2 clearance at the earliest please.

Thanking you,

Yours faithfully,

(S. A. Wandhekar)
Engineer in Chief

21-9-22 (ALTH) ARA PARTITION AND PARTITION OF STATES OF SO, O. 9.5. ITALIANT HATE 8.00 0.3.