









General Consultant for Mumbai Trans Harbour Link Project

Ref No.: MTHL/GC/MMRDA/QPR/2018/ 354

24th July 2018

To,

The Chief Engineer

Engineering Division
Mumbai Metropolitan Regional Development Authority (MMRDA)
2nd Floor., New MMRDA Building,
Plot No. R-06 & R-12, 'E' Block,
Bandra Kurla Complex, Bandra East,
Mumbai, Maharashtra, India 400051

Project: Mumbai Trans Harbour Link (MTHL) Project

Subject: Quarterly Progress Report (QPR) No.5 – April-June 2018

Dear Sir,

We submit here with 2 copies of Quarterly Progress Report (QPR) No. 5 for the period of April – June 2018. You may kindly forward the same to JICA at the earliest.

Thanking you.

Yours Faithfully,

Dr. S H Robin Sham, CBE

(BSc, PhD, DIC, FCGI, FRSA, CEng, FICE, FIStructE, FHKIE)

The Engineer

MTHL Project

Encl: Quarterly Progress Report No. 5 – April-June 2018 (Two Hard Copies)





Mumbai Trans Harbour Link Project

Quarterly Progress Report-No.5 From1stApril 2018 to 30th June 2018



Mumbai Trans Harbour Link Project Quarterly Progress Report No. 5 1stApril2018 to 30th June 2018 Loan Agreement No. ID-P255

ORGANIZATION INFORMATION

Borrower	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. R5,6&12, E Block, Bandra (East), Mumbai - 400051					
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Executing	Mumbai Trans Harbour Link Project Implementation Unit						
Agency							
	Headed by:	Chief Engineer					
		Mumbai Trans Harbour Link Project Implementation Unit					
	Contact	J' I ' I					
	Address	Plot no. R5,6&12, E Block Bandra (East),Mumbai - 400 051					
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Details of JICA Loan

Source of	JICA ODA	276,333Million Japanese YEN (JPY)
Finance	Loan :	·
	Tranche-1:	144,795Million Japanese YEN (JPY)
		(Loan Agreement signed on 31 st March 2017)
	Tranche-2:	131,538 Million Japanese YEN (JPY)
Terms and	Interest	- 0.10150% (LIBOR- 0.00150%+ SPREAD RATE – 0.1000%)
Conditions	Rate:	from 20 th September 2017 to 19 th March 2018.
of JICA	Repayment	- 30 years, including 10 years of grace period.
ODA Loan	Period:	

DOCUMENT VERIFICATION AND REVISION RECORD

PRO	JECT NAME	Mumbai Trans Harbour Link Project			
DOC NO.		DAT	E OF ISSUE	16/07/20	18
DOC	TITLE	Quarterly Progress Report No. 05		•	
REV. No.	DATE OF ISSUE/REV.	DESCRIPTION	PREPARED	СНЕСКЕD	APPROVED
R1	05/07/2017	Quarterly Progress Report No 1 (Apr-17 to Jun 17)	JS	TKS	TL
R1	05/10/2017	Quarterly Progress Report No 2 (Jul 17to Sep 17)	JS	TKS	TL
R1	05/01/2018	Quarterly Progress Report No 3 (Oct 17 to Dec 17)	JS	TKS	TL
R1	05/04/2018	Quarterly Progress Report No 4 (Jan 18 to Mar 18)	JS	TKS	TL
R1	24/07/2018	Quarterly Progress Report No 5 (Apr 18 to Jun 18)	PB	TKS	TL

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1.0 PROJECT DESCRIPTION

1.1 Project Objective

Original:

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. It also conforms to the national and state laws.

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. The traffic congestion in the urban areas due to a lack of road network hinders the economic development. Given this situation, the necessity of comprehensive infrastructure development plan was given the importance for the growing economic developments in the 12th Five –Year Plan (April 2012 to Mar 2017).
- 2. Mumbai Metropolitan Region which includes Mumbai and Navi Mumbai, has about 13.59 million population as of 2011(census 2011) and population density has reached 17,400 people per square km in the center of Mumbai, it is one of the over populated city, having highest population density in the world.
- 3. Mumbai the narrow stretch of land, has traditionally been the epicenter 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), has been facilitating various development plans particularly in Navi Mumbai area. The Navi Mumbai stands at the opposite side of Mumbai across the Mumbai bay and still has spacious area for development such as 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 faster communication and transport infrastructures with in Mumbai has stunned its growth. The GoM has given importance to construct the faster connection of Mumbai with Navi Mumbai International Airport, Jawaharlal Nehru Port, Mumbai- Pune express way and Mainland.
- 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.
- 7. The Comprehensive Transportation Study (CTS) for Mumbai Metropolitan Region (MMR), which was conducted by MMRDA and supported by World Bank, was completed in July 2008 over 25 years after the issuance of the last comprehensive transport study. The report provided a vision for Mumbai's future transportation as seamless, 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 in MMR to take care of the varied travel demands of the region for the horizon period up to 2031.
- 8. Accordingly, whereas the CTS recommended developing the metro and suburban railway network in the Mumbai it also proposed to develop the highway network in the region.
- The MTHL has been regarded as the priority road for MMR for a long time, considering its function and importance of connecting Greater Mumbai and Navi Mumbai
- 10. 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.
- 11. When completed, MTHL will reduce the travel distance between Mumbai and Navi Mumbai and will help save approximately an hour in travel time.
- 12. 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.
- 13. Consequently, the Project is envisaged to:
 - improving accessibility between Mumbai and Navi Mumbai,
 - accelerate the growth of Navi Mumbai,
 - improving smooth traffic flow from Navi Mumbai airport to Mumbai,
 - accelerate the economic development of Navi Mumbai and surrounding regions.

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- greater economic integration of Mumbai with Navi Mumbai extended regions of Pune, Goa, Panvel and Alibaug and decongestion of Mumbai, and
- dispersal of Population to Navi Mumbai region and Beyond.
- 14. Thus, 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

1.3 Rationale of the Project Design

Demand Analysis

1. At the opening year 2022, the daily traffic on the main bridgesisexpected 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 on the main bridge link, by vehicle class, is presented in the **Table 1.3.1**below:

Vehicle Type	Between Sewri Interchange and Shivaji Nager Interchange			Between Shivaji Nager 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

Table 1.3.1 Demand Projections Over the Period

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. The lane requirement was reviewed based on the forecasted result of future traffic volume. The result of the review shows that 6-lane will be required in 2032 (10 years later after traffic open to Public in 2022).

Design Parameters

- 4. The MTHL which is about 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 meter.
- 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 2015 monetary value.

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 in 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.

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 Traffic Control Centre through the medium of an Optical Fiber Cable laid in MTHL.

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Actual (P/R, PCR)

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

1.4 Project Packages

- 1. **Package-1** includes the Sewri Interchange on land, Mumbai side and the adjoining 10.380 km (CH 0+000 km to CH 10+380 km) bridge above sea/creek. The typical width of carriageway will be approximately 14 M for each way.
- 2. **Package-2** includes about 7.8 km long bridge (CH 10+380 km to CH18+187 km) above sea/creek and Shivaji Nagar Interchange on land, Navi Mumbai side. The typical width of carriageway will be approximately 14 M for each way.
- 3. **Package-3** includes about 3.6 km long bridge and road (CH18+187 CH21+800) having interchanges at State Highway-54, National Highway-4B near Chirle and Rail-over-Bridges (ROB) at two locations in Navi Mumbai side. The typical width of the carriageway will be approximately 14 M for each way.
- 4. **Package-4** consisting of Intelligent Transport Systems (ITS) including Operation& Maintenance Facility and Equipment Installation for the Project. Bid for the Package-4 will be issued at a later stage.

Actual (P/R, PCR)

There is no change in the Contract Package

2.0 PROJECT IMPLEMENTATION

2.1 Project scope

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

Location	Original: (P/M)	Actual: (P/R and PCR)
	Mumbai Metropolitan Region Development	
	Authority, Mumbai State of Maharashtra	

Table 2.1.2 Comparison of Original and Actual Scope

Items	Original	Actual					
Construction work:6-lane Marine Bridge Road (21.8 km)							
Package 1 Ch 0+000- 10+380 (10.380 Km)	 1 interchange (Sewri) 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) High way Lighting (Whole Sections. Low-positioned lighting for some sections) Road Furniture and road side facilities (Traffic Signs and Pavement Marking, Traffic Safety Devices, Crash Barrier, Drainage Structures, Noise Barriers, View Barriers) 	(P/R and PCR)					
Package 2 Ch 10+380- 18+190 (7.81 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) High way Lighting (Whole Sections. Low-positioned lighting for some sections) Road Furniture and road side facilities (Traffic Signs and Pavement Marking, Traffic Safety Devices, Crash Barrier, Drainage Structures, Noise Barriers) 	(P/R and PCR)					
Package3 Ch 18+190- 21+830 (3.64 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 Girderfor Rail-over-Bridges (ROB) 	(P/R and PCR) Actual: No Marine Portion in Package-3					

Items	Original	Actual
	 Viaduct Substructure (RC Concrete Structure) Viaduct Foundation (Bored piles) Highway Lighting Whole Sections Road Furniture and road side facilities (Traffic Signs and Pavement Marking, Traffic Safety Devices, Crash Barrier, Drainage Structures) 	
Package 4 ITS (Intelligent Transport System)	 Toll Booths (1 for Main Alignment and one each "on and off" ramps for 3 Interchanges) Traffic Management System (Traffic Control Centre, Closed Circuit Television (CCTV), Meteorological Data System (MDS), Emergency Call Box (ECB), Automatic traffic Counter-Cum-Classifier (ATCC), Variable Message Sign (VMS)) 	(P/R and PCR)
Consulting Service	 Tender Assistance Construction Supervision Facilitation of Implementation of Environmental Management Plan (EMP), Environmental Monitoring plan (EMoP) and Resettlement Action Plan (RAP) 	(P/R and PCR)

2.2 Implementation Schedule

2.2.1 The Original Implementation Schedule

The original project implementation schedule for commissioningthe projectfromSewri Interchange to Chirle Interchange at State Highway-54by June 2021and the updated project implementation schedule as on September 2017, is provided in the following Table 2.2.1

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

Items	Original	Updated
		(June-18)
Appointment of General Consultant	June 2016	December 2016
Completion of land acquisition and Resettlement	November 2016	June 2018
Stage-2 Main Tender for construction of Package-1,2 &3	June 2016	January-2017
Commencement of construction of Package-1,2&3	January 2016	March -2018
Completion of construction of Package-3	June 2020	September 2021
Completion of construction of Package-1&2	June 2021	September 2022
Stage-2 Main Tender for construction of Package-4	September 2018	September 2019
Award and Commencement of ITS Package-4	July 2019	September 2020
Completion of ITS Package-4	June 2021	September 2022
Commercial Operation Date	June 2021	September 2022

Attachment: Project Implementation Program (June-18)

2.2.2 Reasons for any changes of the schedule and their effects in the Project

Actual (P/R and PCR)

Tender Invitation and the date of Bid Submissions were delayed, because of the following reason:

- Enormous number of queries (3224) had to be answered and 15 addenda for all the 3 packages were to be issued.
- A large number of Technical issues had to be discussed with Technical Advisory Committee and incorporated in the addenda.
- A large number of coordination issues especially with environment agency had to be addressed and incorporated in the bid documents.

2.3 Project Cost

2.3.1: Comparison of originally planned and incurred Cost by year is given Table 2.3.1

Table 2.3.1 Comparison of Originally Planned and Actually Incurred Cost by year

Breakdown of	Orig	Originally Planned			Actually Incurred		
Cost	JICA Portion	MMRDA	Total	JICA Portion	MMRDA	Total	
Year	In Rs Cr	In Rs Cr	In Rs Cr	In Rs Cr	In Rs Cr	In Rs Cr	
Budget	15,100.16	2743.06	17,843.22				

Breakdown of	Originally Planned			Actually Incurred		
Cost	JICA Portion	MMRDA	Total	JICA Portion	MMRDA	Total
FY2016-2017					176.39	176.39
FY2017-2018				656.20	110.62	766.82
FY2018-2019				28.72	281.58	310.30
Total			17,843.22	684.92	568.59	1253.51

^{*} Fiscal Year starting in April and ending in March Unit: (All Figures: in Crores INR)

2.3.2	Reason(s) for the wide gap between the original and actual, if there have beer
	any, the remedies you have taken, and their results.

Actual (P/R, PCR)		

2.4 Organization for Implementation

2.4.1 Executing Agency:

Executing Agency:

- 1. Mumbai Metropolitan Region Development Authority (MMRDA) was established on 26thJanuary 1975 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.
- 2. The GoM appointed the MMRDA as the implementing/ executing agency of MTHL vide Government Resolution dated 4th February 2009 and further the ownership of MTHL would be with MMRDA vid Government Resolution dated 8thJune 2011.

Organization's Role:

- 3. The broad responsibilities of the Mumbai Metropolitan Region Development Authority includes:
 - Preparation of Regional Development Plans
 - Providing financial assistance for significant regional projects
 - Providing help to local authorities and their infrastructure projects
 - Coordinating execution of projects and/or schemes in MMR
 - Restricting any activity that could adversely affect appropriate development of MMR, etc.
- 4. In particular, as a Special Planning Authority for Mumbai Metropolitan Region (MMR), it plans, conceptualizes, promotes, executes and monitors the key projects for developing new growth centers and brings about improvement in sectors like transport, housing, water supply and environment in the Region.

Project Implementation Unit (PIU)

5. The PIU is in charge of the Project. The PIU is headed and Coordinated by Chief Engineer. PIU comprises of officials from Engineering Division, Finance Division, Land Cell, Social Development Cell, Administrative Division, Environmental Cell and Support Staff of MMRDA.

Procurement

- 6. MMRDA shall have to adopt the JICA's Standard Biding Documents of the latest version, as stipulated in Section 4.01 (2) of "Guidelines for Procurement under Japanese ODA Loans.
- 7. 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 April 2012. Employment of consultants should be implemented in accordance with "Guidelines of Employment of Consultant under Japanese ODA Loans", dated in April 2012. "Principles of Procurement under the Project" is attached for brief explanation of the above Guidelines.

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

There is no change made in original Organisation Set up & Implementation methods

Annexure III Organizational Chart

2.4.2 Performance of Consultants / Contractor(s):

Consultant's Progress:

April 2018:

- 1 In the month of April, the extent of site area as per the contractual obligation was handed over to all the 3 packages for casting yard & ROW.
- 2 First part of the Mobilization Advance Payment was made to all the three packages.
- 4 Nos. Reimbursement Claims have been processed, involving 4 different currencies, by the GC in the month of April 2018.
- 4 On 18thApril 2018, Interface Coordination meeting was held between MMRDA- (MTHL-PIU), General Consultant and the three Package Contractors at the MMRDA office to discuss various interface issues of the design and construction phase.
- 5 GC is supervising all the Geo-Technical Investigations by Package-1 and Package 2 Contractors. GC also assisting in shifting of utilities if they come in the bridge alignment.

May 2018:

- 1 The main event of this month took place at Delhi JICA Office on 3rd May 2018 (along with MMRDA and GC officials) where in a presentation on Long Term Annual Forecast and Social & Environmental aspects were made and discussed.
- 2 GC prepared and submitted monthly, four monthly and annual forecasts of financial disbursement to MMRDA and same was submitted to JICA.
- 3 GC processed & certified IPC-001 for package 1, 2 & 3 for payment of all the 3 packages under Schedule No. 1 General Items. i.e. 101 Performance Security.
- 4 GC is assisting in the settlement of compensation for the Project Affected Fishermen and attending all the Compensation Committee meetings of Project affected Persons at Sewri side.
- 5 GC also reviewed and commented upon the Design Basis Report (DBR) submitted by all the 3 package Contractors.

June 2018:

- 1 In the month of June 2018, Site Specific (Seismic) Studies Report Review Meeting between MMRDA officials, the GC, all the 3 packages designers and IIT Bombay Experts took place at IIT, Bombay on 20th June 2018 to finalize the report.
- 2 In the first week of June 2018, Monthly Progress Review meetings with all the 3 package Contractors took place at the GC Conference room.
- 3 Also, in the 3rd week of June 2018, Monthly Design Review Meeting with all the 3 package Contractors took place at the GC Conference room.
- 4 Additional Metropolitan Commissioner (AMC) and the GC officials visited the package 1 site on 1st June 2018 to review the site progress.
- 5 All the 3 package Contractors have submitted the initial project submissions to the GC. GC reviewed the submittals and approved with due comments.

Construction Progress:

Package-1

Mobilisation

Resource Mobilisation is in progress. Geotechnical investigation works is in Progress. Total 25 Geotechnical Rigs have been mobilised; of which 17 are at the Interchange zone, 6 are at the Intertidal zone and 2 in the Marine area.

Tree Survey

Tree Survey by marking, painting & numbering within the demarcated ROW area of interchange & Casting area has been completed. Tree survey report is prepared & submitted by the Contractor to the GC. GC reviewed the report and after necessary corrections, the report has been submitted to MMRDA for review and further action.

Physical Progress

S. No	Activity	Total Scope	Unit	Completed up to 31 st March2018	Completed in April- June 2018	Cumula tive	% of Work done Progress	Remarks
1	Geotechnical investigation							
1.1	Marine	194	Nos	83	108	191	98%	
1.2	Intertidal	117	Nos	53	61	114	97%	
1.3	Interchange	216	Nos	38	82	120	55%	
	Total	527	Nos	174	251	425	80%	
2	Survey							
2.1	Geo Physical	10	km	10	0	10	100%	
2.2	Bathymetry	10.78	km					
2.3	Topography	10.78	km					
3	Tree Survey							
3.1	Tree numbering- Casting yard	15	На	15		15	100%	Report reviewed by the GC
3.2	Tree numbering - ROW	10	На	10		10	100%	and submitted to the client for further action.

Package-2

Mobilisation

Resource Mobilisation is in Progress, Geotechnical investigation works were started on 23rdFebruary2018 and currently in progress. Total 15 Nos of Geotechnical Rigs at Land and Interchange locations have been mobilised.

Physical Progress

S.No	Activity	Total Scope	Unit	Completed up to 31 st March2018	Completed inApril- June 2018	Cumul ative	% of Workdone Progress	Remarks
1	Geotechnical investigation							
1.1	Marine	154	Nos	27	115	142	99%	
1.2	Intertidal	84	Nos	10	72	82	97%	
1.3	Interchange	66	Nos	0	38	38	57%	
	Total	304	Nos	37	225	262	86%	
2	Survey							
2.1	Geo Physical	7	km				0%	
2.2	Bathymetry	7.80	km				0%	
2.3	Topography	7.80	km				0%	
3	Tree Survey							
3.1	Tree numbering- Casting yard	16	На	16		16	100%	Report reviewed by the GC and submitted to the client for further action.

Package-3

Mobilisation

Staff Mobilization& Site set-up works are in Progress.

Physical Progress

S.No	Activity	Unit	Total Scope	Completed up to 31 st March2018	Completed in April-June 2018	Cumulative	% of Work done Progress	Remarks
1	GPS points Established	No.	3	3		3	100%	
2	Z-value Shifting	Km	6.65	5.5	0	5.5	48%	
3	Centre Line Fixing (Temp. Marking)	Km	3.61	3.39	0	3.39	94%	
4	Survey Pillars Fixing	No.	100	45	0	45	45%	
5	Traverse Survey	Km	3.61	2.813	0	2.813	78%	
6	Topography Survey	Km	3.61	0	0	0	0%	

Package-4

Pre-qualification documents are under preparation.

2.4.3 Health & Safety and Environment (HSE)

The HSE Plan will be prepared by the respective construction agency for the Packages. This will be monitored and implemented by GC.

Package-1

S.No	Description	Status
1	Incidents & Injuries during the month (April, May & June 2018)	NIL
2	Training undertaken for site & Office	556
3	Inspections done for offices & sites	24
4	Total Man-hours Work	319632
5	Average Man Power per day	372

Package-2

S.No	Description	Status
1	Incidents & Injuries during the month (April, May &June 2018)	NIL
2	Training undertaken for site & Office	141
3	Inspections done for offices & sites	6
4	Total Man-hours Work	132444
5	Average Man Power per day	193

Package-3

S.No	Description	Status
1	Incidents & Injuries during the month (April, May &June 2018)	NIL
2	Training undertaken for site & Office	NIL
3	Inspections done for offices & sites	NIL
4	Total Man-hours Work	9304
5	Average Man Power per day	24

2.4.4 Procurement Status

The contracts for Package 1, 2 & 3 are awarded to the Contractors as given below:

Table 2.4.4 Present Status of Procurement

Туре	Contract	Estimated Value (Rs. Crore)	Award Value (Rs. Crore)	Current Status	Contractor	Award Date as per PIP Sep 2017	Status / Remarks
	Package-1 (CH 0+000 km to CH 10+380 km)	7945.30	7637.30	Awarded	L&T-IHI Consortium	Nov 2017	Date of Commencement 23 rd March 2018
CIVIL	Package-2 (CH 10+380 km to CH18+187 km)	5933.27	5612.61	Awarded	DAEWOO - TPL JV	Nov 2017	Date of Commencement 23 rd March 2018
	Package-3 (CH18+187 km to CH21+800 km)	1610.05	1013.79	Awarded	L&T	Nov 2017	Date of Commencement 23 rd March 2018
ITS	Package-4 Intelligent Transport System	144.30		Design Stage		Jul 2020	

Financial Report

The following is the Project Cost reimbursable by JICA:

- i. Package-1 100% Construction cost excluding the taxes
- ii. Package-2 100% Construction cost excluding the taxes
- iii. Package-3 100% Construction cost excluding the taxes
- iv. Package-4 100% Procurement cost excluding the taxes

3.0 BENEFITS DERIVED FROM THE PROJECT

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

Original Issues and Countermeasure(s)	Actual Issues and Countermeasure(s)
 3.2.1 General Issues 1. Toll Arrangement/ Toll Rate Fixed toll rate by the type of vehicle will be levied for the road users after the 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 will appoint a toll collection agency during project 	(P/R and PCR) No significant event. No significant event.
implementation period. Thereafter, a single operation and maintenance contractor shall be appointed through open tendering process. MMRDA has confirmed to allocate adequate budget for engaging the contractors.	
3.2.2 Environmental and Social	(P/R and PCR)
Consideration a.CRZ Clearance	MMRDA has Uploaded Supplemental EIA & SIA on MMRDA website.
Supplemental EIA has been approved by MMRDA, and disclosed on the website of JICA. Supplemental EIA report will be disclosed also on the website of MMRDA. Renewed CRZ Clearance will be	 The CRZ clearance for MTHL was acquired on 25/1/2016 from MoEF&CC and enclosed in the contractor's bid documents. MMRDA has been actively committing the conditions of the MOEFCC approval condition and will continue during the construction phase. MMRDA appointed (BNHS) Bombay Natural

obtained in a timely manner.

 In accordance with the conditions for CRZ Clearance, appropriate measures shall be taken, and necessary budget shall be secured by MMRDA.

- History Society for bird monitoring 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 91.36 Crore have been deposited to Mangroves & Marine Biodiversity Foundation of State government for the development of a new mangrove area and its afforestation as well as the Birds monitoring by MNHS. Such funds will be managed by the mangrove foundation of MH state and disbursed periodically to BNHS.
- As per the new CRZ clearance condition, 4.98Cr has been allocated for the consulting services to develop a Mahul creek Effluent Treatment Plant (ETP). IIT Mumbai is appointed for the DPR study and completed for the pre-monsoon season study and will complete post-monsoon study with the draft policy and implementation plan for the ETP.
- Pre-construction activities like soil testing have begun.

3.2.3 Permits

The Permits to be obtained by MMRDA and the Present Status are given in Table 3.2.2

Clearance **Approved** Responsible Obtained by Status Required authority Organization when Mangrove Hon. Bombay **MMRDA** Before start of Approval received from Hon. Bombay High Court on 28th cutting High Court Construction Nov 2016 Tree cutting Respective Contractor for To be obtained Contractors to tree authorities respective before start of submit the proposals Construction Packages to the Tree authorities

Table 3.2.2 Present Status of the Permits

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)
1. Establishment of Effective	Cell is established by MMRDA
Environmental and Social Cell in	(Annexure III, Organization chart)

Issue(s)	Action or countermeasure(s) taken and			
PIU	remaining problem(s)			
MMRDA confirmed that Social Development Cell, Land Cell, and Environmental Cell had been set up, which consists of two officers at each cell.				
 Rehabilitation and Land Acquisition Issues Affected Area and Population Due to the Project, 1,272 non-titleholders will be involuntary resettled, and 108.09 ha of land will be handed over by CIDCO. 	Sewri: Involuntary resettlement in Sewri section has been further validated by Secial Development Cell of MMRDA. Out of 232 project affected households (PAHs), MMRDA has confirmed the consent of the 156 PAHs for the resettlement site in HDIL buildings at Kurla (E). MMRDA has confirmed the consent of 75 PAHs of Kanjurmarg resettlement site and rest of 1PAH is yet to give its consent.			
	Navi Mumbai: CIDCO is finalizing the land acquisition in Navi Mumbai side and monitored by Land Cell of MMRDA. Out of 108.09 Ha ROW 98.75 Ha has been handed over by CIDCO to MMRDA. CIDCO is in process of handing over the balance 9.34 Ha land to MMRDA.			
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).	There are no changes to enforce the entitlement policy. As per the Attachment 2-5, 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	A re-survey was conducted for 3060 PAPs of Navi Mumbai from December till January. Of these, 1584 PAPs submitted their documents and 1476 PAPs are yet to submit their documents. Status for the same is shared in Annexure IV. In February 2018 a joint survey was carried out along with Fisheries Department for C1			

conducted by MMRDA with assistance of the Consultant to gasp the exact impact during construction and operation phase.

Action or countermeasure(s) taken and remaining problem(s)

category fishermen of Mahul & Trombay. All the fishermen who had their Sus and Dol in the alignment were surveyed and the positions on the nets were marked using GPS. The draft list for the village of Trombay was shared with the fisheries society of Trombay. The confirmed list from the fisheries society is awaited. Mahul fisheries society has requested that the C1 fishermen category survey should be carried out again in the presence of the fishermen who own the nets. A resurvey will be carried out for them in accordance to the next highest high tide levels.

The list of eligible PAPs from Trombay and Mahul are yet to be confirmed by the fisheries society of the respective villages. The fisheries societies are verifying the list of eligible PAPs and collecting the bank account details and other necessary identity proofs of fishermen.

d. Implementation Schedule

The Implementation schedule for land acquisition, resettlement and rehabilitation.

Land cell of MMRDA are managing the land acquisition related to the MTHL.

Expected schedule as of 30/06/2018

- a) Sewri: August 2018
- b) Creek portion (MbPT): August 2018
- c) Creek portion (JNPT): August 2018
- d) Navi Mumbai: August 2018

In Navi Mumbai side, out of 108.09 ha land to be handed over to the Contractor, 2.57 ha Govt. land & 9.34 ha CIDCO land has not been handed over to the Contractor yet.

Social Development Cell of MMRDA has managed resettlement and rehabilitation in parallel.

Sewri: November 2018

e. Grievance Redressal Mechanism

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.

Sewri: The Chief, Social Development Cell, dealing with the grievances raised by PAP's in Sewri as per the approved RAP. The appointment of single committee officer is in process by the Social Development Cell.

A part from the GRC, a compensation committee, chaired by a former judge, has been formulated to address the issues/grievances of

Issue(s)	Action or countermeasure(s) taken and
	remaining problem(s)
f. Internal Monitoring Internal Monitoring of the	the plot lessees at MbPT area, Sewri. Marine: GRC to be set up as per fisher folk compensation policy dated 23 rd Dec. 2015 Navi Mumbai: CIDCO is the Land Acquiring body for Land on Navi Mumbai side. GRC has already set up by CIDCO and has been functioning. Sewri Area: All the 322 Structures (232 Residential + 60
Resettlement 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.	 Commercial + 30 others) are required to be removed to clear the Land portion & thereafter, this land portion can be handed over to Contractor. 156 PAPs out of 232 PAPs had given their consent to shift to HDIL buildings in Kurla, 75 PAPs have given consent to shift at

Issue(s)	Action or countermeasure(s) taken and remaining problem(s)		
a Ovelitativa Indonesia de Francisco	remaining problem(s)		
 g. Qualitative Independent Evaluation 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. h. RAP Implementation Budget 	MMRDA will form the independent evaluation before the mid-term and end-term in a timely manner.		
The amount of estimated resettlement and compensation budget is Rs. XX. 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	Estimated tentative Budget for the Financial year 2018-2019 - • Sewri Side for MbPT Lessees: Rs. 30 Crore • Fishermen Compensation: Rs. 70 Crore • Navi Mumbai Side CIDCO Land: Rs. 21 Crore		
i. Environmental Management Plan ("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.	The EMP followed by MMRDA is in accordance with the stipulations set by the MCZMA & MOEF&CC in the CRZ clearance of MTHL. Due to the concerns of the very limited workable time with the CRZ clearance by MoEF&CC in January 2016, MMRDA requested relaxation of two conditions set by MOEF & MCZMA namely; • "MMRDA to ensure that Construction activities near Flamingo habitat area may be restricted to the season when Flamingos are not on the site or not in larger flocks." • "The project proponent shall not undertake any blasting/construction activities during night hours." MoEF&CC has agreed to relax the two conditions vide letter dated 28/8/2017 As per the Employer's requirement, the Contractors will prepare their EMP and GC will review and make necessary modifications in conformity with the stipulations as well as the JICA's Supplemental EIA.		
j. Environmental Monitoring Plan ("EMoP")	Environmental monitoring will start during the Construction period.		

Issue(s)	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.	(As per the MOM Attachment of 2-4)		
k. Long Term Bird Monitoring MMRDA committed to conduct the long-term monitoring of birds and its habitat in Sewri mud-flats with the assistance of hired bird expert. During the long-term monitoring, MMRDA will share information and receive advices from external experts including the one from NGOs and civil society.	 MMRDA has appointed (BNHS) Bombay Natural History Society for bird monitoring and implementation of Flamingos and birds related mitigation measures & bird monitoring program Rs. 31.92 Crore deposited to Mangrove foundation of State government 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	Target (Year 2023)		
	(Year 2015)	2 Years After Commercial		
		Operation Date		
Average Annual Daily Traffic	-	45,700		
(PCU/ day)				
Daily Average Travel Time (min)	61 min	15.8 Min		
(from Sewri to Chirle)				

EIRR	Original:	Actual: (PCR)
	13.7%	%
	Cost : Project cost (excluding Price Escalation, Tax and	Cost:
	Duties and Administration cost) O&M cost, Land	
	Acquisition	
	Benefit: Travel Time cost and Vehicle Operation cost	
	Project Life: 32 Years	
FIRR	Original:	Actual: (PCR)
	1.77%	%
	Cost : Project Cost, O&M cost, Land Acquisition cost	
	Benefit: Toll Revenue	
	Project Life: 35 Years	

3.5 Monitoring Plan for the indicators

Monitoring Methods, Section(s)/department(s) in Charge of monitoring, are given below

Original: (P/M and PCR)

Monitoring Organization

PIU shall be In-Charge of Monitoring activates 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 as per annex II: 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 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 Project in the form of Project status Report (PSR) attached as per Annex II

Actual (P/R and PCR)

Monitoring Organization

PIU for MTHL has been established and monitoring the Project

Submission of QPR and PCR

Quarterly Progress Report will be prepared and Submitted to JICA on Quarterly basis QPR Submitted up to30th June 2018.

3.6 Achievement of the Project Objective

(Achievement of Project Objective shall be communicated after start of revenue Operation of the Project)

Actual (PCR)

4.0 OPERATION AND MAINTENANCE (O&M) SUSTAINABILITY

4.1 O&M and Management

Original:

Overall

MMRDA will be responsible for O&M after the Completion of the Project. O&M Budget will be allocated by MMRDA. O&M and increase in Toll rate will be done in accordance with Toll notification issued by Maharashtra Government.

Operation & Maintenance, Tolling and ITS

MMRDA will appoint Operation, Maintenance and Tolling Contractor for the road maintenance and Toll collection and allocated adequate budget for engaging the Contractor. The Budget for O&M will be provided by MMRDA.

Actual:

4.2 O&M Cost and Budget

This will be reported when the outcome of the above work study is available.

It is assumed that O&M cost in Feasibility Study Report, 2012 is one percent of the total project cost, amounts 1,010 million INR at the year of Commercial Operation Date (COD). And it is annually escalated 5% of escalation.

JICA report

5.0 EVALUATION

5.1 JICA and Borrower / Executing Agency performance

JICA:	
(PCR)	
Borrower/Executing Agency:	
(PCR)	

5.2 Overall evaluation

(PCR)

5.3 Lessons Learnt and Recommendations

Please raise any lessons learned from the project experience, which might be valuable for the 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.

Experience learnt			

Annexure I

Land Acquisition

Land Acquisition:

No	Description	Area (Ha)	Status			
1	Land acquisition for l	Land acquisition for ROW (Permanent)				
1.1	Sewri side					
a	Land Acquisition on Sewri Side for ROW (permanent)	10.089	 Out of 10.089 ha ROW area, 8.1189 ha area has been handed over to the Contractor. At Sewri Interchange Land area, there are 322 structures (232 residential + 60 commercial + 30 others) located on MbPT land. All the 322 structures are required to be demolished to clear the land area. The process of compensation to lessees and rehabilitation of (Project Affected Person) PAP by MMRDA is in progress. Out of 18 Plots at Sewri Gadi Adda, 5 plots are vacant and Notices to remaining 13 plots issued, under MR& TP Act ,1966 Section 126 ,1(a) & (b). The process of compensation to lessees & rehabilitation of PAPS is in Progress 			
1.2	Navi Mumbai side	avi Mumbai side				
а	Area handed over by CIDCO to MMRDA	98.750	In possession of MMRDA.			
b	Remaining area to be acquired	9.340	Included Land of Govt, Private and Private Forest Land. Land acquisition process in progress.			
	Total Land for ROW	108.090				
2	Land allocation for C	asting yards	(Temporary)			
2.1	Sewri side					
	Package -1	15.170	Total area is in possession of MMRDA which is handed over to the Package 1 Contractor.			
2.2	Navi Mumbai Side					
а	Package -2	15.360	Both casting yard areas are handed over by			
b	Package -3	11.000	CIDCO to MMRDA. However, some structures and containers are still to be removed from package3 casting yard. Both casting yard areas have been handed over to the Contractors.			
	Total Area for Casting Yards	41.530				

ANNEXURE II PROCUREMENT AND PROJECT STATUS

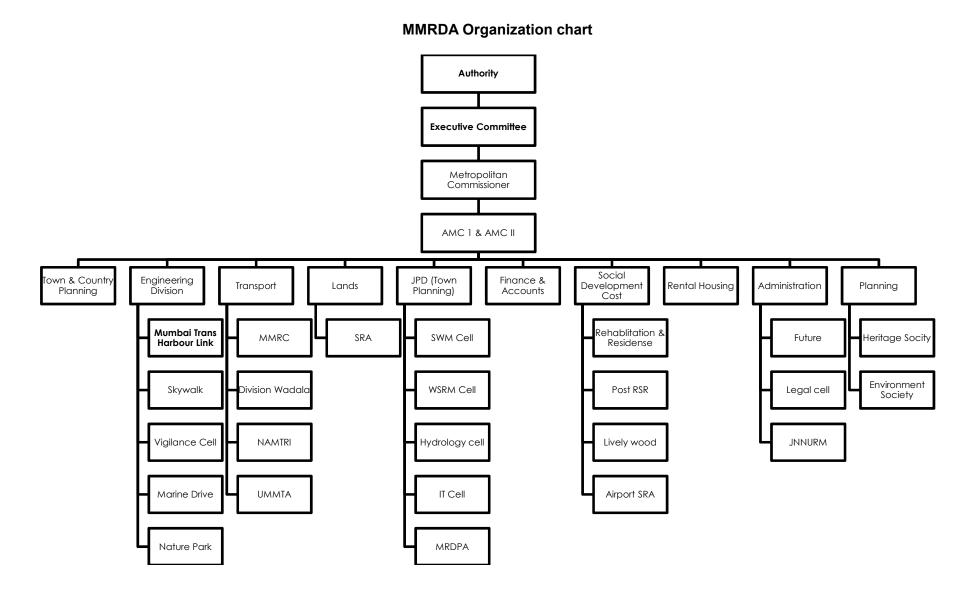
PROCUREMENT AND PROJECT STATUS

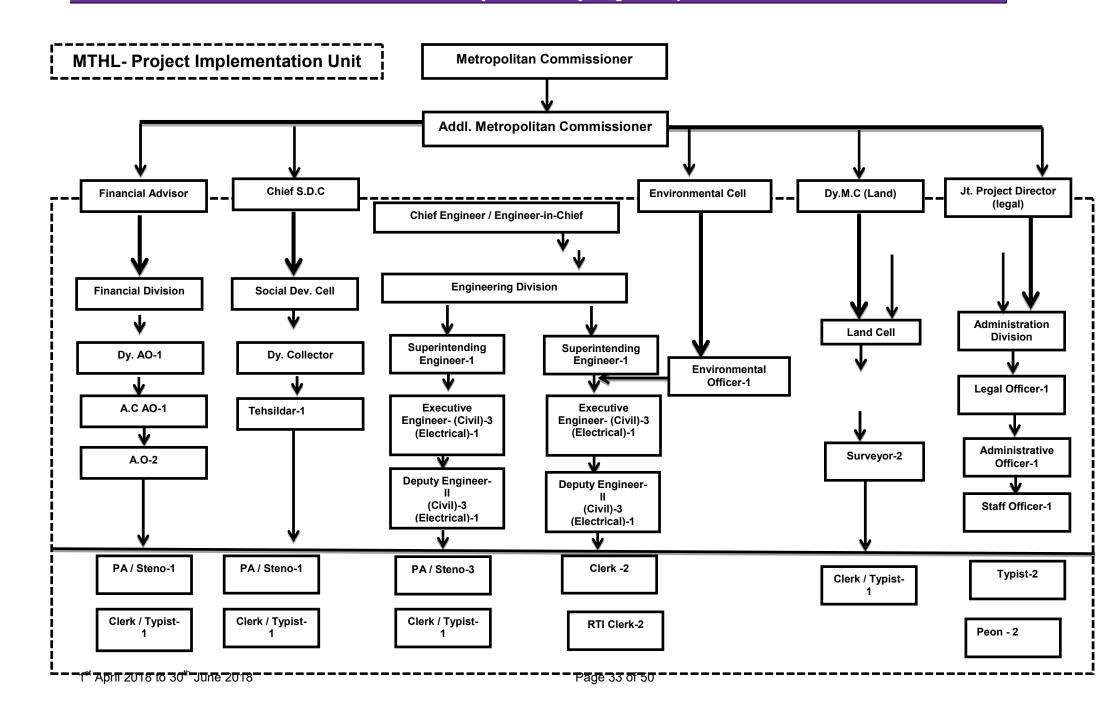
	Type	Contract	Awarded or Estimated Value (in Rs. Crore)	Current Status	Contractors	Award Date/As per PIP Mar 2018	Actual/ Projected as per PIP Mar-2018	Physical % completion up to June 2018	Present Financial Progress (Till 30 th June 2018) in %
		Package-1 (CH 0+000 km to CH 10+380 km)	7637.30	Awarded	L&T-IHI Consortium	Nov 2017	Sep 2022		5.17%
	CIVIL	Package-2 (CH 10+380 km to CH18+187 km)	5612.61	Awarded	DAEWOO- TPL JV	Nov 2017	Sep 2022		5.11%
		Package-3 (CH18+187 to CH21+800)	1013.79	Awarded	L&T	Nov 2017	Sep 2021		4.84%
Ī		Package-4 Intelligent Transport System	144.26 (Estimated)	Design Stage		Jul 2020 (Estimates)	Sep 2022		Nil

ANNEXURE III

ORGANIZATION CHART

(MMRDA Organization chart)





ANNEXURE IV JICA'S CONCURRENCE STATUS

Status of JICA'S Concurrence

SI.	_	Procurement	Bid C	ost			JICA's Con	currence on		
No.	. description	procedure	Local Currency (Cr Rs.)	Total (Cr Rs)	PQ Documents	PQ Evaluation	Bid Documents	Technical Evaluation	Financial Evaluation	Contract
1.	Package-1 (CH 0+000 km to CH10+380 km)	ICB with PQ (2P)	7637.30	7637.30	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 - 12 th Oct 2017	JICA's Concurrence – 15 th Feb 2018
2.	Package-2 (CH 10+380 km to CH18+187 km)	ICB with PQ (2P)	5612.61	5612.61	JICA's Concurrence - 9 th 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 - 12 th Oct 2017	JICA's Concurrence – 15 th Feb 2018
3.	Package-3 (CH18+187 to CH21+800)	ICB with PQ (2P)	1013.79	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 - 15 th Sep 2017	JICA's Concurrence - 12 th Oct 2017	JICA's Concurrence – 15 th Feb 2018
4.	Packag-4 Intelligent Transport System	ICB with PQ (2P)	144.26	144.26	-	-	-	-	-	-

ANNEXURE V

GC STAFF DEPLOYMENT POSITION 1ST APRIL 2018 TO 30TH JUNE 2018

GC's Staff Deployment for April 2018

	Organisation	Home Office	Expert's in India	Indian Personnel	Total
PA-1& PA-2	AECOM		2	4	6
	PADECO		2	4	6
	Dar Al-Handasah			1	1
	T.Y.LIN		1		1
	Sub-total	0	5	9	14
PB-1, PB-2	AECOM			13	13
& PB-3	PADECO			10	10
	Dar Al-Handasah				0
	T.Y.LIN				0
	Sub-total	0	0	22	22
Support	AECOM			5	5
Person	PADECO			5	5
	Dar Al-Handasah				0
	T.Y.LIN				0
	Sub-total	0	0	10	10
	Total	0	5	41	47

GC's Staff Deployment for May 2018

	Organisation	Home Office	Expert's in India	Indian Personnel	Total
PA-1& PA-2	AECOM	2	2	2	6
	PADECO		1	4	5
	Dar Al-Handasah			1	1
	T.Y.LIN		1		1
	Sub-total	2	4	7	13
PB-1, PB-2	AECOM			16	16
& PB-3	PADECO			10	10
	Dar Al-Handasah			2	2
	T.Y.LIN				0
	Sub-total	0	0	28	28
Support	AECOM			5	5
Person	PADECO			5	5
	Dar Al-Handasah				0
	T.Y.LIN				0
	Sub-total	0	0	10	10
	Total	2	4	45	51

GC's Staff Deployment for June 2018

	Organisation	Home Office	Expert's in India	Indian Personnel	Total
PA-1& PA-2	AECOM	2	3	5	10
	PADECO	0	5	5	10
	Dar Al-Handasah	0	0	1	1

	Organisation	Home Office	Expert's in India	Indian Personnel	Total
	T.Y.LIN	0	0	0	0
•	Sub-total	2	8	11	21
PB-1, PB-2 & PB-3	AECOM	0	0	18	18
α PD-3	PADECO	0	0	10	10
	Dar Al-Handasah	0	0	4	4
	T.Y.LIN	0	0	1	1
	Sub-total	0	0	33	33
Support	AECOM	0	0	7	7
Person	PADECO	0	0	6	6
	Dar Al-Handasah	0	0	0	0
	T.Y.LIN	0	0	0	0
•	Sub-total	0	0	13	13
	Total	2	8	57	67

ANNEXURE VI PROJECT PROGRESS PHOTOS

Meeting Photos



Photo 1: Design (Seismic) Review Meeting with all 3 Packages held at MMRDA Conference Hall on 20th June 2018



Photo 2: Monthly Design Review Meeting with the Package 1 Contractor held at GC Conference Room on 21st June 2018

Package 1- Site Progress Photos



Photo 3: Temporary Access Bridge Piling Gantry Erection Completed at MP 1 Location



Photo 4: Girder 3-3X Fabrication Work in Progress



Photo 5: Project Office – Plinth Beam Formworks at STP Yard in progress



Photo 6: Project Office - Foundation Works at STP Yard completed

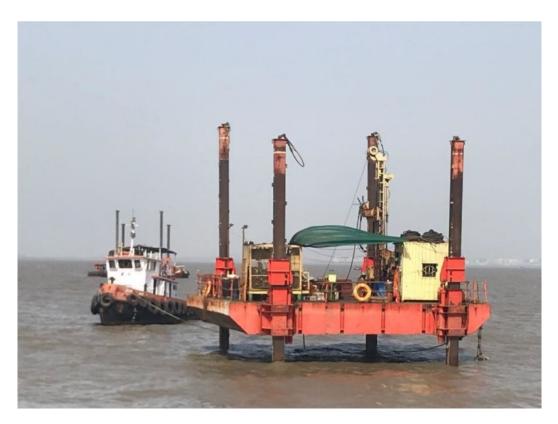


Photo 7: Marine GTI works at MP 146A in progress



Photo 8: Additional Metropolitan Commissioner (AMC) Site Visit dated 1.6.2018





Photo 9: Excavation and ground levelling work in the Casting Yard



Photo 10: Excavation and ground levelling work for the Labor Camp in Progress



Photo 11: Geotechnical Investigation Works at Interchange



Photo 12: Geotechnical Investigation at P 157R



Photo 13: Jack Up at P 152L Location

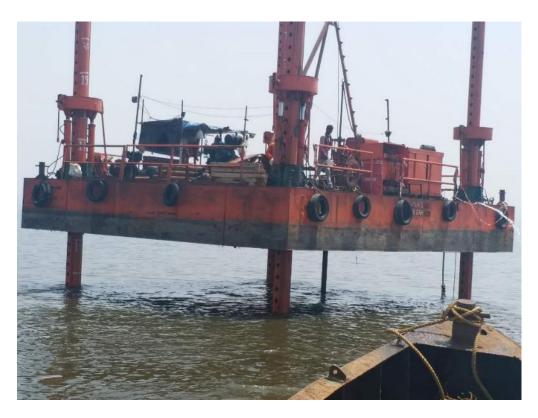


Photo 14: Jack Up at P 163R Location





Photo 15: Joint Inspection by the GC and Contractor at the Casting Yard



Photo 16: Joint Inspection by the GC and Contractor dated 19.6.2018



Photo 17: Site office container placing and set up works ongoing



Photo 18: Survey Work (Control Point) On-going



Photo 19: Survey Work (Control Point) On-going



Photo 20: Centre Line Marking at Chainage 18+187

ANNEXURE VI

PROJECT IMPLEMENTATION PROGRAMME & UPDATED PROGRESS UP TO 30thJune 2018

Project Implementation Programme

AN	EX	IIDE	VI
$-A\Pi$			VI

D Activ	tivity Name	Duration in Days	Start	Finish	Activity % Complete 4	Q1	2017 Q2 Q3 Q	1 01 02	U18	1 01	2019 O2 C	03 04	01 (2020	Q4 Q1	Q2 Q3	Q4 O	1 02 03	3 Q4 Q1	2023	Q4 Q1 L	2024 Q2 Q3
ımbai Tre	ans Harbour Link (MTHL) DID (TA Stage)	2433	14-Dec-16 A	21-Sep-24	V V	Q1	<u> </u>	. Q1 Q2	Q0 Q2	Q1	عد ا	xU (24	Q, (42 UJ	Q+ Q1	QZ Q3	: 4	, Q2 Q3	, Q1 Q1	QZ Q3	Q-7 Q1	ا ا
	ans Harbour Link (MTHL) PIP (TA-Stage)															i						
estones			14-Dec-16 A	·	•																	
THL-GC		2640	14-Dec-16 A	21-Sep-24	*																	
.1000 Co	ommencement of GC Services	0	14-Dec-16 A		100%																	
	ompletion of GC Services	0		21-Sep-24	0%																	
	Civil & ITS	1415	23-Mar-18 A	29-Sep-22															7			
	ackage-3 Completion & Handover to MMRDA	0		30-Oct-21	0%												•					
	ackage-1 Completion & Handover to MMRDA	0		21-Sep-22	0%														•			
	ackage-2 Completion & Handover to MMRDA	0		21-Sep-22	0%														•			
	ackage-4 Completion & Handover to MMRDA	0		22-Sep-22	0%	ļļ.													•			
	ommercial Operation Date	0		22-Sep-22	0%														•			
	1 Millstones	1613	23-Mar-18 A	29-Sep-22															7			
P1-1170 Pro	roject Commencement Date	0	23-Mar-18 A		100%			•														
	D-1 Construction Programme, completion of Soil Investigation, Submit Final plans	0		19-Sep-18	0%				•													
P1-1190 KC	D-2 Technical Design documents & Drawings for Foundation /substructure Superstructure	0		23-Mar-19	0%					•												
	concrete and Steel)					ļļ.			<u> </u>				ļ							<u> </u>		
	D-3 GFC for Foundation /Substructure, Superstructure (concrete & Steel)	0		19-Sep-19	0%							•										
	D-4 Substantial completion of Foundation, Piles, Piers, Abutments, Earthworks and	0		22-Mar-21	0%										•							
	olphins.																					
	D-5 Substantial completion of Pile Caps, Piers and Abutments and Pre-Casting Segment	0		22-Sep-21	0%											•	•					
	ompletion.																					
	D-6 Substantial completion of Concrete Superstructure /cast-in-situ concrete structures, &	0		22-Mar-22	0%													•				
	teel structures																					
	D-7 Substantial completion of Kerbs /Traffic Signs, Marking & Noise barriers, Removal of	0		23-Jun-22	0%													•				
jett	tties, Restoration					L !																
	D-8 Substantial completion of all works in all respects and Starting the Trail Run	0		29-Sep-22	0%														•			
op	peration.																					
Package - 2	2 Millstones	1643	23-Mar-18 A	21-Sep-22															7			
	roject Commencement Date	0	23-Mar-18 A		100%			•														
	D-1 Construction Programme, completion of Soil Investigation, Submit Final plans	0		19-Sep-18	00/	1 1		1 1	•											: : :	1 1	1
				19-Sep-16	0%	1 :													: !			!
	D-2 Technical Design documents & Drawings for Foundation /substructure Superstructure	0		23-Mar-19	0%					•												
(cc	concrete and Steel)	0		23-Mar-19						•												
P2-2140 KD	concrete and Steel) D-3 GFC for Foundation /Substructure, Superstructure (concrete & Steel)	0								•		•										
P2-2140 KD P2-2150 KD	concrete and Steel) D-3 GFC for Foundation /Substructure, Superstructure (concrete & Steel) D-4 Substantial completion of Foundation, Piles, Piers, Abutments, Earthworks and			23-Mar-19	0%					•		•			•							
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P2-2140 KD P2-2150 KD dol	concrete and Steel) D-3 GFC for Foundation /Substructure, Superstructure (concrete & Steel) D-4 Substantial completion of Foundation, Piles, Piers, Abutments, Earthworks and	0		23-Mar-19 19-Sep-19	0%							•			•		•					
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P2-2140 KD P2-2150 KD dol P2-2160 KD Co	concrete and Steel) D-3 GFC for Foundation /Substructure, Superstructure (concrete & Steel) D-4 Substantial completion of Foundation, Piles, Piers, Abutments, Earthworks and olphins. D-5 Substantial completion of Pile Caps, Piers and Abutments and Pre-Casting Segment	0		23-Mar-19 19-Sep-19 22-Mar-21	0% 0% 0%					•		•			•		•	•				
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P2-2140 KD P2-2150 KD P2-2170 KD P2-2170 KD P2-2180 KD P2-2190 KD P2-2190 KD P3-1870 KD P3-1880 KD P3-1890 KD P3-1910 KD P3-1910 KD P3-1920 KD Ste	D-3 GFC for Foundation /Substructure, Superstructure (concrete & Steel) D-4 Substantial completion of Foundation, Piles, Piers, Abutments, Earthworks and olphins. D-5 Substantial completion of Pile Caps, Piers and Abutments and Pre-Casting Segment ompletion. D-6 Substantial completion of Concrete Superstructure /cast-in-situ concrete structures, & teel structures D-7 Substantial completion of Kerbs /Traffic Signs, Marking & Noise barriers, Removal of tities, Restoration D-8 Substantial completion of all works in all respects and Starting the Trail Run peration. 3 Millstones Toject Commencement Date D-1 Construction Programme, completion of Soil Investigation, Submit Final plans D-2 Technical Design documents & Drawings for Foundation /substructure Superstructure concrete and Steel) D-3 GFC for Foundation /Substructure, Superstructure (concrete & Steel) D-4 Substantial completion of Foundation, Piles, Piers, Abutments, Earthworks and olphins. D-5 Substantial completion of Pile Caps, Piers and Abutments and Pre-Casting Segment ompletion. D-6 Substantial completion of Concrete Superstructure /cast-in-situ concrete structures, &	0 0 0 0 0 0 1317 0 0 0		23-Mar-19 19-Sep-19 22-Mar-21 22-Sep-21 22-Mar-22 23-Jun-22 21-Sep-22 30-Oct-21 19-Sep-18 26-Jan-19 25-Jul-19 30-Apr-20 29-Oct-20	0%			•		•	•				•	•	•					

Actual Work

Remaining Work

Critical Remaining Work

Milestone

Project Implementation Programme Progress Updated up to 30th Jun 2018

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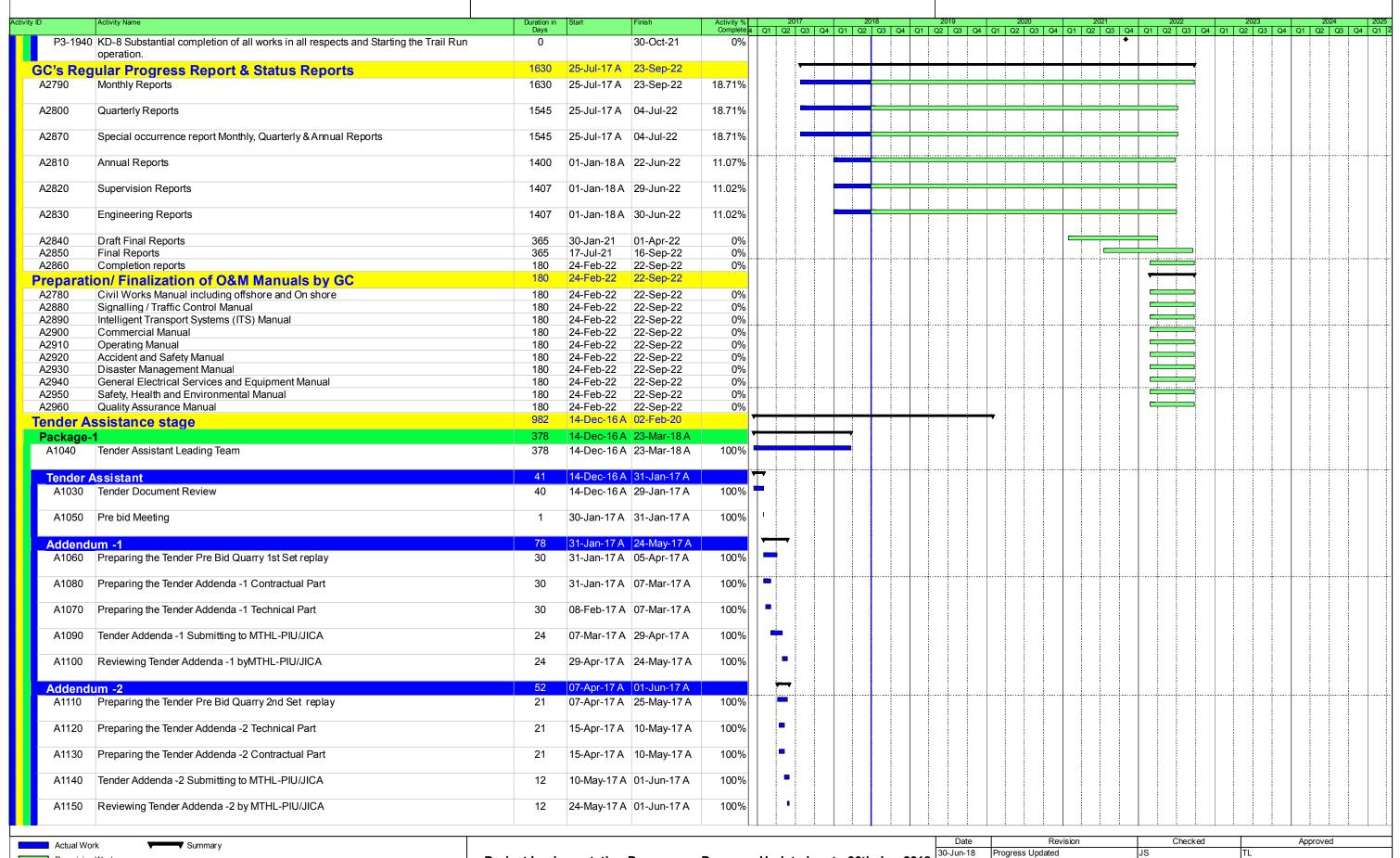
Remaining Work

Milestone

Critical Remaining Work

Project Implementation Programme

ANNEXURE VI



Project Implementation Programme Progress Updated up to 30th Jun 2018

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Project Implementation Programme

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ID	Activity Name	Duration in	Start Finish	Activity %	2017			2018		2019		2020		021	2022		2023		2024	4
		Days	22-May-17 A 05-Jul-17 A	Complete 4	Q1 Q2 (Q3 Q4	Q1 C	Q2 Q3	Q4 Q1 C	Q2 Q3 Q	4 Q1 Q	2 Q3 (Q4 Q1 Q2	Q3 Q4 C	01 Q2 C	3 Q4 Q1	Q2 Q	3 Q4 (Q1 Q2 (Q3 (
	um -3,4&5 Preparing the Tender Pre Bid Quarry 3rd Set replay	40		100%																
ATTOU	Preparing the fender Pre Bid Quarry 3rd Set replay	14	22-May-17 A 22-Jun-17 A	100%																
A1170	Preparing the Tender Addenda -3 Technical Part	14	30-May-17 A 15-Jun-17 A	100%	•															
A1180	Preparing the Tender Addenda -3 Contractual Part	14	30-May-17 A 15-Jun-17 A	100%																
A1190	Tender Addenda -3,4&5 Submitting to MTHL-PIU/JICA	6	15-Jun-17 A 22-Jun-17 A	100%	1															
A1200	Reviewing Tender Addenda -3,4&5 by MTHL-PIU/JICA	12	22-Jun-17 A 28-Jun-17 A	100%	g.															
A1210	Addendum-3,4&5 Issued to Bidders (including Addendum & Extension)	1	28-Jun-17 A 05-Jul-17 A	100%	•															
_Bid sub	mission to MTHL & Technical Bid Opening	14	30-Jun-17 A 17-Jul-17 A		7															
A1220	Bid submission to MTHL & Technical Bid Opening	14	30-Jun-17 A 17-Jul-17 A	100%																
	al Evaluation	42	19-Jul-17 A 12-Sep-17 A			_														
	Envelop A for Tender Fee & EMD is opened	2	19-Jul-17 A 21-Jul-17 A	100%	_															
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	Stage-4 Evaluation (Technical) Evaluation Report for Stage-1,2,3 Submitting to MTHL-PIU	26	25-Jul-17 A 22-Aug-17 A 31-Jul-17 A 19-Aug-17 A	100%		•														
A3000	Evaluation Final Report (Technical) Submitting to MTHL-PIU/JICA	6	18-Aug-17 A 22-Aug-17 A	100%		1														
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	GC Preparing LOA for Successful Bidder	6	25-Oct-17 A 01-Nov-17 A	100%																
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	MMRDA Issue LOA to Successful Bidder Contract Agreement	0	17-Nov-17 A 17-Nov-17 A 17-Nov-17 A 26-Dec-17 A	100%																
	Notice to Commencement of Work	0	28-Feb-18 A 23-Mar-18 A	100%																
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A1330	Tender Document Review	40	14-Dec-16 A 29-Jan-17 A	100%	•															
A1340	Tender Assistant Leading Team	41	14-Dec-16 A 31-Jan-17 A	100%																

Actual Work Summary

Remaining Work

Critical Remaining Work

Project Implementation Programme Progress Updated up to 30th Jun 2018

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Project Implementation Programme

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Actual Work Summary

Remaining Work

Critical Remaining Work

Project Implementation Programme Progress Updated up to 30th Jun 2018

Date Revision Checked Approved

30-Jun-18 Progress Updated JS TL

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Project Implementation Programme

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According Acco	A1580	Tender Committee approval by MTHL-PIU/JICA		25-Sep-17 A 28-Sep-17 A		Q1 (Q2 Q3 (Q4 Q1	Q2 Q3 Q4	4 Q1 Q2	Q3 Q4	Q1 Q2	Q3 Q4	Q1 Q2	Q3 Q4	Q1 Q2 C	13 Q4 Q1	Q2 Q3	Q4 Q1	Q2 Q3	Q.
According Acco	Δ1590	Evaluation Reports (Financial) approved by IICA	10	28-Sen-17 Δ 12-Oct-17 Δ	100%																
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Package-3	A1820	Contract Agreement	24	30-Nov-17 A 19-Jan-18 A	100%			7													
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A1790 Reviewing Tender Addenda -3,4&5 by MTHL-PIU/JICA 12 22-Jun-17 A 28-Jun-17 A 100%	A1770	Preparing the Tender Addenda -3,4&5 Contractual Part	14	30-May-17 A 15-Jun-17 A	100%	†	•			1											
	A1780	Tender Addenda -3,4&5 Submitting to MTHL-PIU/JICA	6	15-Jun-17 A 22-Jun-17 A	100%		•														
A1800 Addendum-3,4&5 Issued to Bidders (including Addendum & Extension) 1 28-Jun-17 A 100%	A1790	Reviewing Tender Addenda -3,4&5 by MTHL-PIU/JICA	12	22-Jun-17 A 28-Jun-17 A	100%		Œ														
	A1800	Addendum-3,4&5 Issued to Bidders (including Addendum & Extension)	1	28-Jun-17 A 05-Jul-17 A	100%		•														

Actual Work

Remaining Work

Critical Remaining Work

Project Implementation Programme Progress Updated up to 30th Jun 2018

Page no 5/15

 Date
 Revision
 Checked
 Approved

 30-Jun-18
 Progress Updated
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Project Implementation Programme

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vity ID	Activity Name	Duration in Days	Start Finish	Activity % Complete 4	Q1 Q2 Q3 Q	2018 14 Q1 Q2 Q3 Q4 Q1	2019 Q2 Q3 Q4 Q ²	2020 I Q2 Q3 Q4 Q1	2021 Q2 Q3 Q4	Q1 Q2 Q3 Q4 Q1	2023 2024 Q2 Q3 Q4 Q1 Q2 Q3 (
Bid sub	mission to MTHL & Technical Bid Opening	14	01-Jul-17 A 17-Jul-17 A		₩						
A1810	Bid submission to MTHL & Technical Bid Opening	14	01-Jul-17 A 17-Jul-17 A	100%							
		40	10 Jul 17 A 00 Con 17 A		-						
	cal Evaluation Envelop A for Tender Fee & EMD is opened	40	19-Jul-17 A 09-Sep-17 A	100%							
A3240	Envelop A for Tender Fee & EMID is opened	2	19-Jul-17 A 21-Jul-17 A	100%							
A3250	Stage-1,2 & 3 Evaluation	14	21-Jul-17 A 09-Aug-17 A	100%	•						
A3260	Envelop B Technical Bid are opened	0	25-Jul-17 A 25-Jul-17 A	100%	1						
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A3270	Stage-4 Evaluation (Technical)	24	01-Aug-17 A 18-Aug-17 A	100%	•						
A3280	Evaluation Report for Stage-1,2,3 Submitting to MTHL-PIU	7	10-Aug-17 A 19-Aug-17 A	100%							
A3260	Evaluation Report for Stage-1,2,3 Submitting to MTHE-FIO	,	10-Aug-17 A 19-Aug-17 A	100 %							
A3290	Evaluation Final Report (Technical) Submitting to MTHL-PIU/JICA	7	17-Aug-17 A 22-Aug-17 A	100%	1						
A3300	Evaluation Reports (Technical) Approved by MTHL-PIU/JICA	8	31-Aug-17 A 09-Sep-17 A	100%							
	al Evaluation	37	11-Sep-17 A 09-Nov-17 A				ļļļ	_	.ļļ		
A1830	Envelop C Financial Bid Opening Stage-5	0	11-Sep-17 A 11-Sep-17 A	100%	'						
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A1860	Bid Evaluation Report (Financial)	12	11-Sep-17 A 24-Sep-17 A	100%							
A1870	Tender Committee approval by MTHL-PIU/JICA	7	25-Sep-17 A 28-Sep-17 A	100%							
71.0.0	Torus Committee approval 2) mm 2 1 torus (·	20 30p 1171								
A1880	Evaluation Reports (Financial) approved by JICA	10	28-Sep-17 A 12-Oct-17 A	100%	•						
A3090	Management Committee approval by MTHL-PIU/JICA	10	30-Sep-17 A 09-Nov-17 A	100%	- -						
		400	25-Oct-17 A 23-Mar-18 A				 		- 		
Tender	GC Preparing LOA for Successful Bidder	108	25-Oct-17 A 25-Mai-18 A 25-Oct-17 A 01-Nov-17 A	100%							
A1040	GC Freparing LOA for Successful Bluder	0	25-OCI-17 A 01-NOV-17 A	100 %							
A1890	Finalization and Award of Contract by MMRDA	21	01-Nov-17 A 16-Nov-17 A	100%	•	1					
	,										
A1900	MMRDA Issue LOA to Successful Bidder	0	17-Nov-17 A 17-Nov-17 A	100%							
A3020	Contract Agreement	24	17-Nov-17 A 26-Dec-17 A	100%	'						
A3030	Notice to Commencement of Work	0	28-Feb-18 A 23-Mar-18 A	100%			 		 		
A3030	Notice to Commencement of Work	U	20-Feb-10 A 23-Wai-10 A	100 %							
Package-	-4	712	25-Oct-17 A 02-Feb-20		-		 				
	der Assistance Activities - Prequalification	362	25-Oct-17 A 21-Dec-18		-						
	GC to Prepare PQ Applications Including MMRDA/JICA Approval	90	25-Oct-17 A 26-Jun-18 A	100%	-	 					
A2550	MMRDA to Invite PQ Applications (including Addendum & Extension)	60	26-Jun-18 A 23-Aug-18	10%							
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	GC to Evaluate PQ Applications and Prepare PQ Evaluation Report MMRDA & JICA Approve PQ Evaluation Report	60	23-Aug-18 22-Oct-18 21-Dec-18	0% 0%							
	der Assistance Activities - Bidding	528	23-Aug-18 02-Feb-20	0 78		→	 				
	GC to Prepare Bidding Documents Including MMRDA/JICA Approval	180	23-Aug-18 19-Feb-19	0%							
P4-1000	MMRDA to Invite Bids	0	19-Feb-19	0%		•					
P4-1010	Pre Bid Meeting	0	18-Mar-19	0%		•	: : :				
	Pre Bid Queries submissions final	75	18-Mar-19 01-Jun-19	0%							
	Addendum Preparation Addendum Submission to MTHL-PIU/JICA	60	10-Apr-19 09-Jun-19 24-Apr-19 23-Jun-19	0% 0%							
	Addendum Submission to MTHL-PIO/JICA Addendum Approved by MTHL-PIU/JICA	60	01-May-19 30-Jun-19	0%							
	Addendum Issued to Bidders (including Addendum & Extension)	60	08-May-19 07-Jul-19	0%					ttt		
P4-1070	Bid submission to MTHL & Technical Bid Opening	0	21-Jul-19	0%			•				
	Evaluate Bids, Prepare Bid Evaluation Report (Technical)	45	22-Jul-19 05-Sep-19	0%							
	D Evaluation Reports (Technical) Approved by MTHL-PIU/JICA	45	21-Aug-19 05-Oct-19	0%							
P4-1100	Financial Bid Opening	0	05-Oct-19	0%			<u> </u>				
Actual Wo	ork Summary						Date Date	Revision	1	Checked	Approved
Remainin	g Work	Project Imple	ementation Programme	Progress	Updated ur	o to 30th Jun 201	30-Jun-18 P	rogress Updated		JS	TL
Critical Re	emeining Work	-,,,,-,-,-,-,-,-,-,-,-,-,-,-,-,-		. 3	' 					I	

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Project Implementation Programme

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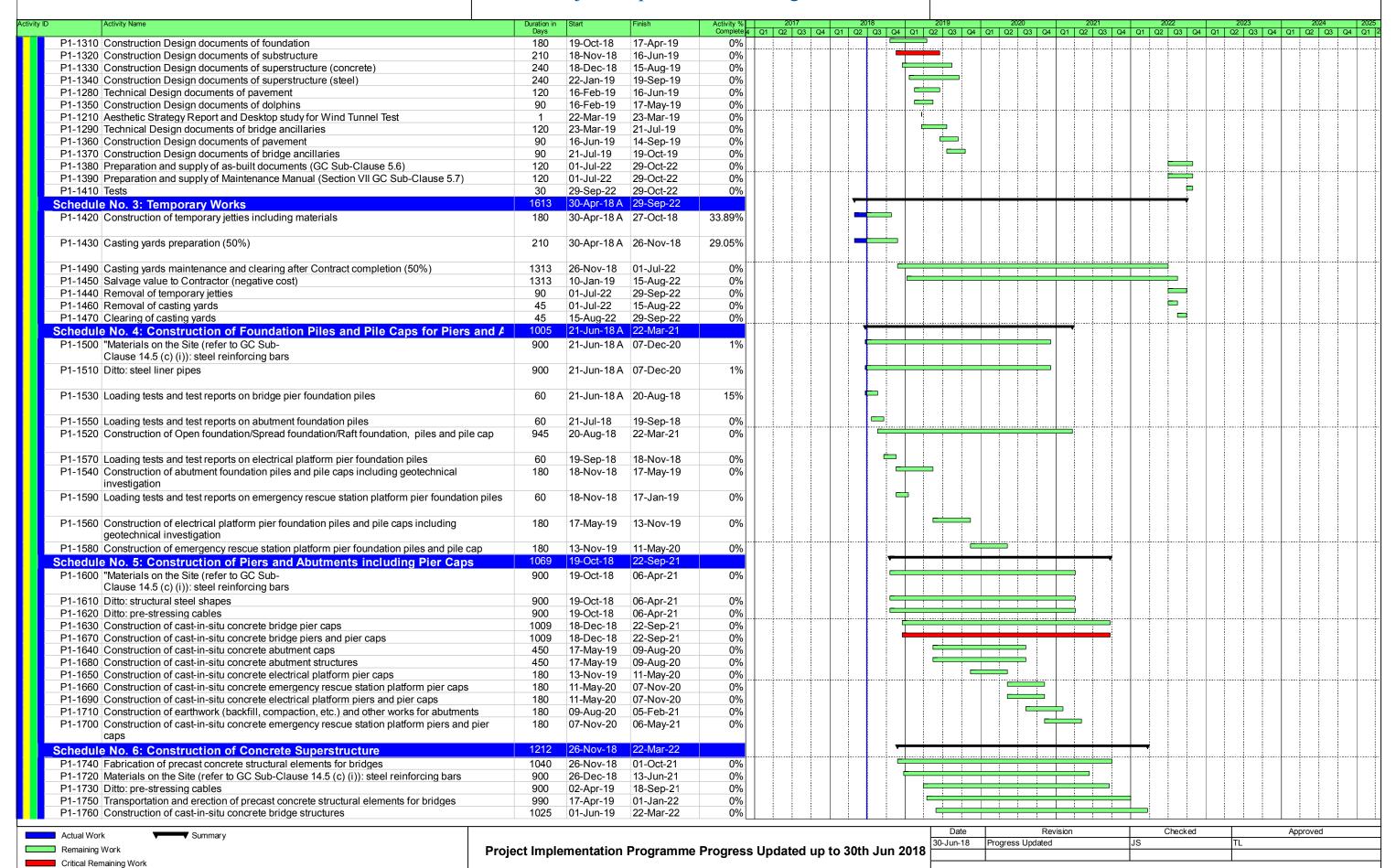
ID Activity Name	Duration in	Start Finish	Activity %	2017		2018	201	9	2020		2021	2022		2023	2024	
	Days		Complete	Q1 Q2 Q3	Q4 Q	Q2 Q3	Q4 Q1 Q2	Q3 Q4 Q1	Q2 Q3	Q4 Q1 Q2	2 Q3 Q4	Q1 Q2 Q3	Q4 Q1 Q2	Q3 Q4	Q1 Q2 Q3	3 (
P4-1110 Evaluate Bids, Prepare Bid Evaluation Report (Financial)	30	06-Oct-19 05-Nov-19	0%													
P4-1120 Tender Committee approval by MTHL-PIU/JICA	30	05-Nov-19 05-Dec-19	0%													
P4-1130 Evaluation Reports (Financial) approved by JICA	30	05-Dec-19 04-Jan-20	0%													
P4-1140 MMRDA Issue LOA to Successful Bidder	1	04-Jan-20 05-Jan-20	0%		!											
P4-1150 Works Commencement	14	05-Jan-20 19-Jan-20	0%					•								
P4-1160 Prepare Contract Agreement & MMRDA/Contractor to Sign CA	28	05-Jan-20 02-Feb-20	0%	+	·											
			076													
Construction Stage	1712	23-Mar-18 A 29-Nov-22														
Package 1 Sewri Interchange and adjoining 10.38 km bridge (0+000 to 10+380)	1681	23-Mar-18 A 29-Oct-22											7			
Mobilisation	180	23-Mar-18 A 19-Sep-18				+										- 1
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D4 0000 Construction Decreases accordation of Oail Investigation Cultural Final plans	450	20 4 - 40 4 40 0 - 40	400/		ļ									ļļ		
P1-2260 Construction Programme, completion of Soil Investigation, Submit Final plans	150	22-Apr-18 A 19-Sep-18	46%													
Schedule No. 1: General Items	1643	30-Apr-18 A 29-Oct-22				-				-						
		· · · · · · · · · · · · · · · · · · ·	4.000/			1										
P1-1070 Allow for DNP Services (Section VII GC Clause 11)	2	30-Apr-18 A 01-May-18 A	100%													
P1-1080 Provision and maintenance of health and safety measures during the Time for Completion	1643	30-Apr-18 A 29-Oct-22	3.71%					: 1		1 :	: : 1		-			
(Section VII GC Sub-Clause 6.7)																
P1-1090 Provision (construction) of office facilities with furniture and office equipment	1643	30-Apr-18 A 29-Oct-22	3.71%				<u> </u>				 	\rightarrow	=			
1 : 1000 1 : one of (contract and contract that the contract and contr	.0.0	20 300 22	0.1 170													
D4 4400 Maintenance of above office facilities for the French used wines the Time for Completion	1642	20 Amr 40 A 20 Oct 22	2.740/	+	 				<u>j</u>				<u></u>			
P1-1100 Maintenance of above office facilities for the Employer during the Time for Completion	1643	30-Apr-18 A 29-Oct-22	3.71%										ГІІ			
(Section VII GC Sub-Clause 6.6)																
P1-1110 Removal/clearing of above office facilities for the Employer and for the Engineer (Section	2	30-Apr-18 A 01-May-18 A	100%		i	11 1										i
VII GC Sub-Clause 6.6)																
P1-1120 Provision and removal of diversion roads (Section VII GC Sub-Clause 4.15)	2	30-Apr-18 A 01-May-18 A	100%			1										
1 1 1 2 1 1 1 1 1 2 1 1 1 2 1 1 2 1 2 1	_	or the lost of may fort	100 70													- 1
D4 4400 C		00.4 40.4 . 04.14 40.4	4000/													
P1-1130 Operation and maintenance of diversion roads during the Time for Completion (Section VI	1 2	30-Apr-18 A 01-May-18 A	100%		!	1' 1										
GC Sub-Clause 4.15)																
P1-1140 Clearing from Site and Works after Taking-Over (Section VII GC SubClause 4.23)	2	30-Apr-18 A 01-May-18 A	100%			1										
P1-1150 Supply of vehicles, boats, etc. for the Employer (Section VII GC Sub-Clause 6.6)	1643	30-Apr-18 A 29-Oct-22	3.71%	+	:								<u> </u>			
Cupply of vertices, boats, etc. for the Employer (Geodon viii et cup Chause 6.6)	10-10	30-Apr-10-A 23-36t-22	3.7 1 70													
	4040	00.4 40.4 00.0 4.00	0.740/										_			
P1-1160 Operation and maintenance of above vehicles, boats, etc. for the Employer during the Time	1643	30-Apr-18 A 29-Oct-22	3.71%							1	1 1					
for Completion																
P1-1000 Performance Security (Section VII. GC Sub-Clause 4.2)	1	30-May-18 A 31-May-18 A	100%													
P1-1010 Insurance for Works (Section VII GC Sub-Clause 18.2)	1	30-May-18 A 31-May-18 A	100%			1										
insurance for Works (Seedier Vil See Sub States 18.2)	'	oo way fort of way fort	100 70													
D4 4000 1		04.84 40.8 04.1 40.8	4000/													
P1-1020 Insurance for Contractor's Equipment (Section VII GC Sub-Clause 18.2)	1	31-May-18 A 01-Jun-18 A	100%			1 1										
					<u> </u>	.ii.							<u> </u>			
P1-1030 Insurance against Injury to Persons and Damage to Property (Section VII GC Sub-Clause	2	31-May-18 A 01-Jun-18 A	100%			- 1										
18.3)																
P1-1040 Insurance for Contractor's Personnel (Section VII GC Sub-Clause 18.4)	2	31-May-18 A 01-Jun-18 A	100%													
insurance for Contractor 31 ersonner (Cection VII CC Sub-Grause 10.4)		31-May-10A 01-Juli-10A	100 /0													
D4 4050 L		04.1440.4.04.140.5	40001													
P1-1050 Insurance for Design Liability (Section VIII, PC Sub-Clause 18.5)	2	31-May-18 A 01-Jun-18 A	100%			'										
P1-1060 Automobile Liability Insurance (Section VIII, PC Sub-Clause 18.6)	2	31-May-18 A 01-Jun-18 A	100%			1 1										
Schedule No. 2: Contractor's Documents	1591	21-Jun-18 A 29-Oct-22				+ +			+ + +		+ + +	\longrightarrow				
			4.004		.											
P1-1200 Technical Design documents of highway and interchange alignments	90	21-Jun-18 A 19-Sep-18	10%													
P1-1220 Technical Design documents of earthwork	90	21-Jun-18 A 19-Sep-18	10%													
		·														i
P1-1300 Construction Design documents of earthwork	150	21-Jun-18 A 18-Nov-18	6%				•									
Construction Design documents of earthwork	150	21-Juli- 10 A 10-110V-10	070													
						i										
P1-1230 Technical Design documents of foundation	180	21-Jul-18 17-Jan-19	0%													
P1-1260 Technical Design documents of superstructure (steel)	365	21-Jul-18 21-Jul-19	0%		1]				1 1				
P1-1240 Technical Design documents of substructure	210	19-Sep-18 17-Apr-19	0%		1		-									-1
P1-1270 Technical Design documents of dolphins	150	19-Sep-18 16-Feb-19	0%			<u></u>										
P1-1400 Submission of samples (GC Sub-Clause 7.2)						1 1	<u> </u>									
	150	19-Sep-18 16-Feb-19	0%			T										
P1-1250 Technical Design documents of superstructure (concrete)	240	19-Oct-18 16-Jun-19	0%	<u></u>	<u>:</u>	<u> </u>			<u> </u>		<u> </u>		<u></u>	<u></u>		_!
Actual Work Summary				•				Date		Revision		Check	ed		Approved	_
-			_				30-	Jun-18 Pr	ogress Upda	ated		JS	Т			_
Remaining Work Pro	ject Impl	ementation Programme	Progress	Updated د	up to	30th Jui	2018	 	5							_
Critical Remaining Work		•	_	-	-			1					1			

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Milestone

Project Implementation Programme

ANNEXURE VI



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Project Implementation Programme

	EX	HRE	
-			v

Activity Name	Duration in Days	Start	Finish	Activity % _ Complete 4	Q1 Q2 Q3 Q4	Q1 Q2	8 Q3 Q4 Q1	2019 Q2 Q3 Q4	Q1 Q2 Q3	Q4 Q1 Q2	021 Q3 Q4 Q1	2022 Q2 Q3 Q4 Q1	2023 Q2 Q3 Q4 (2024 Q1 Q2 Q3
P1-1770 Construction of cast-in-situ concrete electrical platform structures	500	07-Nov-20	22-Mar-22	0%				20 04			: : :			
P1-1780 Construction of cast-in-situ /Pre Cast concrete emergency rescue station structures	450	22-Dec-20	17-Mar-22	0%						<u> </u>]		
Schedule No. 7: Fabrication and Erection of Steel Superstructure	1184	23-Dec-18	21-Mar-22				+					▼		
P1-1790 Materials on the Site (refer to GC SubClause 14.5 (c) (i)): structural steel materials	990	23-Dec-18	08-Sep-21	0%				<u> </u>	1 1	<u>: </u>	-			
P1-1800 Fabrication of steel structural elements for bridges	900	22-Jan-19	10-Jul-21	0%							.			
P1-1810 Fabrication of steel structural elements for others	900	22-May-19	07-Nov-21	0%					<u> </u>					
P1-1820 Transportation to and erection at the Site of fabricated steel structural elements for bridges	900	22-May-19	07-Nov-21	0%					1 1	: 				
g				1										
P1-1830 Transportation to and erection at the Site of fabricated steel structural elements for others	820	19-Sep-19	17-Dec-21	0%				+						
D4 4040 O for a silver	700	00 5 1 00	40 5 1 00	00/										
P1-1840 Surface anti-corrosion coating of erected steel structure for bridges	730	20-Feb-20	19-Feb-22	0%										
P1-1850 Surface anti-corrosion coating of erected steel structure for others	450		21-Mar-22	0%	ļii			<u></u> ii		<u> </u>	 	"		
Schedule No. 8: Construction of Earthworks	660	17-Apr-19	05-Feb-21	221										
P1-1860 Materials on the Site (refer to GC SubClause 14.5 (c) (i)): steel reinforcing bars for	450	17-Apr-19	10-Jul-20	0%										
retaining walls, etc.														
P1-1870 Construction of reinforced concrete retaining walls	600	16-Jun-19	05-Feb-21	0%										
P1-1880 Construction of earthwork (fill, compaction, etc.)	600	16-Jun-19	05-Feb-21	0%										
Schedule No. 9: Construction of Dolphins and Fenders			07-Dec-20		ļļļ					Ţ ~	<u> </u>	<u> </u>	<u> </u>	
P1-1920 Loading tests and test reports on dolphin foundation piles	60	20-Aug-18	19-Oct-18	0%										
P1-1890 "Materials on the Site (refer to GC Sub-	180	19-Sep-18	18-Mar-19	0%										
Clause 14.5 (c) (i)): steel reinforcing bars		1.2.5	10.15											
P1-1900 Ditto: steel liner pipes	180	19-Sep-18	18-Mar-19	0%				_						
P1-1910 Construction of dolphin foundation piles including geotechnical investigation	210	19-Oct-18	17-May-19	0%										
P1-1930 Construction of concrete structure	300	17-May-19	12-Mar-20	0%	ļiii				Ţ <u>.</u>	<u> </u>	ļ			
P1-1940 Fenders including Materials	270	12-Mar-20	07-Dec-20	0%								<u>i </u>		
Schedule No. 10: Fabrication and Installation of Bridge Ancillaries	705	10-Jun-20	16-May-22									T'		
P1-1950 Materials on the Site (refer to GC SubClause 14.5 (c) (i)): bridge bearings (shoes)	600	10-Jun-20	31-Jan-22	0%										
P1-1960 Ditto: expansion joints	600	10-Jun-20	31-Jan-22	0%										
P1-1990 Crash barriers including Materials	600	10-Jul-20	02-Mar-22	0%							1			
P1-2000 Deck waterproofing including Materials	600	23-Sep-20	16-May-22	0%								-		
P1-1970 Installation of bridge bearings (shoes)	450	06-Jan-21	01-Apr-22	0%								-		
P1-1980 Installation of expansion joints	450	06-Jan-21	01-Apr-22	0%								-		
Schedule No. 11: Construction of Asphalt Pavement	270	22-Sep-21	19-Jun-22								1			
P1-2010 Asphalt pavement including Materials	270	22-Sep-21	19-Jun-22	0%							<u> </u>			
Schedule No. 12: Fabrication and Installation of Miscellaneous Items	600		21-Sep-22							· ·		† †		
P1-2020 Materials on the Site (refer to GC SubClause 14.5 (c) (i)): noise barriers	365	29-Jan-21	29-Jan-22	0%							 			
P1-2030 Ditto: view barriers	365	29-Jan-21	29-Jan-22	0%										
P1-2070 Drainage facility including Materials	450	26-Mar-21	19-Jun-22	0%						-		—		
P1-2040 Installation of noise barriers	450	30-Mar-21	23-Jun-22	0%										
P1-2050 Installation of view barriers	450	30-Mar-21	23-Jun-22	0%					1					
P1-2060 Safety fences including Materials	365	19-Jun-21	19-Jun-22	0%										
P1-2080 Kerbs including Materials	365	19-Jun-21	19-Jun-22	0%								 		
P1-2090 Road furniture including Materials	270	22-Sep-21	19-Jun-22	0%							<u> </u>	 		
P1-2100 Pavement marking including Materials	180	21-Dec-21	19-Jun-22	0%								 		
P1-2120 Gantry/overhang (cantilever)-type signage support structures including Materials	180	21-Dec-21	19-Jun-22	0%						7	T ==	 		
P1-2110 Road signage including Materials	120	19-Feb-22	19-Jun-22	0%								 		
P1-2130 Median openings including Materials	120	19-Feb-22	19-Jun-22	0%								-		
P1-2140 Traffic signals including Materials and testing	90	23-Jun-22	21-Sep-22	0%								 		
P1-2150 Restoration of removed items	90	23-Jun-22		0%								 -		
P1-2160 Other miscellaneous items including Materials and testing as required	90	23-Jun-22		0%										
Schedule No. 13: Provisional Sums	2		01-May-18 A			▼								
P1-2240 Schedule No. 13: Provisional Sums	2		01-May-18 A	100%		1								
Sandado rec. 10.1 Tornolonal Odino	_	55 / tpi = 10 //	J. May 1074	10070										
Remaining Works & Taking Over Certificate	0	21-Sep-22	21-Sep-22											
A2130 Contractor to Achieve Issuance of Taking Over Certificate	0		21-Sep-22	0%								•		
ackage 2: 7.8 km long bridge (10+380 to 18+187) + interchanges	1712	23-Mar-18 A		0 /0	t	-			+	+	 	+		
	180						⊸ ∤							
Mobilisation P3 2000 Mahilisation		23-Mar-18 A		4000/										
P2-2200 Mobilisation	30	23-Mar-18 A	22-Apr-18 A	100%										
D0 0040 0 4 11 D 4 11 10 10 11 11 11 11 11 11 11 11 11 11	4	00 4 10 1	10.0				_							
P2-2210 Construction Programme, completion of Soil Investigation, Submit Final plans	150	22-Apr-18 A	19-Sep-18	46%			_							
						1				1				

Actual Work

Remaining Work

Critical Remaining Work

Project Implementation Programme Progress Updated up to 30th Jun 2018

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Project Implementation Programme

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Schedule No. 1: General Items P2-1000 Performance Security (Section VII. GC Sub-Clause 4.2) P2-1010 Insurance for Works (Section VII. GC Sub-Clause 18.2) 1 23-Mar-18 A 17-Apr-18 A 17-Apr-18 A 17-Apr-18 A 17-Apr-18 A 17-Apr-18 A 18.3) P2-1020 Insurance against Injury to Persons and Damage to Property (Section VII GC Sub-Clause 18.3) P2-1040 Insurance for Contractor's Personnel (Section VII GC Sub-Clause 18.4) P2-1050 Insurance for Contractor's Personnel (Section VII. PC Sub-Clause 18.4) P2-1050 Insurance for Design Liability (Section VIII, PC Sub-Clause 18.5) 2 23-Mar-18 A 16-Apr-18 A 16-Apr-18 A 16-Apr-18 A 16-Apr-18 A 16-Apr-18 A 19-Apr-18 A 16-Apr-18 A 16-	100% 100% 100% 100% 100% 100% 100% 1.83% 1.83% 1.83% 0% 0%	Q1 Q2 Q3 Q4 Q										
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P2-1270 Construction Design documents of earthwork 150 21-Jun-18 A 18-Nov-18	6%			¹								
P2-1200 Technical Design documents of foundation 180 21-Jul-18 17-Jan-19	0%			7								
P2-1230 Technical Design documents of superstructure (steel) P2-1210 Technical Design documents of substructure 365 21-Jul-18 21-Jul-19 P2-1210 Technical Design documents of substructure 210 19-Sep-18 17-Apr-19	0% 0%				T							
P2-1210 Technical Design documents of substructure 210 19-Sep-18 17-Apr-19 P2-1240 Technical Design documents of dolphins 150 19-Sep-18 16-Feb-19	0%		_									
P2-1370 Submission of samples (GC Sub-Clause7.2) 150 19-Sep-18 16-Feb-19	0%	†	<u> </u>	+	1-1-1-		1-1-1-					
P2-1220 Technical Design documents of superstructure (concrete) 240 19-Oct-18 16-Jun-19	0%											
P2-1280 Construction Design documents of foundation 180 19-Oct-18 17-Apr-19	0%				_							
P2-1290 Construction Design documents of substructure 210 18-Nov-18 16-Jun-19	0%			T	<u> </u>							
P2-1300 Construction Design documents of superstructure (concrete) P2-1310 Construction Design documents of superstructure (steel) 240 18-Dec-18 15-Aug-19 P2-1310 Construction Design documents of superstructure (steel) 240 22-Jan-19 19-Sep-19	0%	 										
P2-1310 Construction Design documents of superstructure (steel) P2-1250 Technical Design documents of pavement 240 22-Jan-19 19-Sep-19 16-Jun-19	0% 0%											
P2-1320 Construction Design documents of dolphins P2-1320 Construction Design documents of dolphins 90 16-Feb-19 17-May-19	0%											
P2-1180 Aesthetic Strategy Report and Desktop study for Wind Tunnel Test 1 22-Mar-19 23-Mar-19	0%			l i								
P2-1260 Technical Design documents of bridge ancillaries 120 23-Mar-19 21-Jul-19	0%				-							
P2-1330 Construction Design documents of pavement 90 16-Jun-19 14-Sep-19	0%											
P2-1340 Construction Design documents of bridge ancillaries 90 21-Jul-19 19-Oct-19	0%								<u> </u>	_		
P2-1350 Preparation and supply of as-built documents (GC Sub-Clause 5.6) 120 01-Aug-22 29-Nov-22	0%											
P2-1360 Preparation and supply of Maintenance Manual (Section VII GC Sub-Clause 5.7) 120 01-Aug-22 29-Nov-22 P2-1380 Tests 30 30-Oct-22 29-Nov-22	0% 0%	1 1 1 1								_		
Schedule No. 3: Temporary Works 1613 31-May-18 A 30-Oct-22			+		+					,	+	
P2-1390 Construction of temporary jetties including materials 180 31-May-18 A 27-Nov-18	0 70			•								
1. 2. 333 Solidation of temperary jourse metalling materials			, <u> </u>		1 1							
	16.67%					1 !			$ \stackrel{\cdot}{\cdot}$			1 1

Actual Work

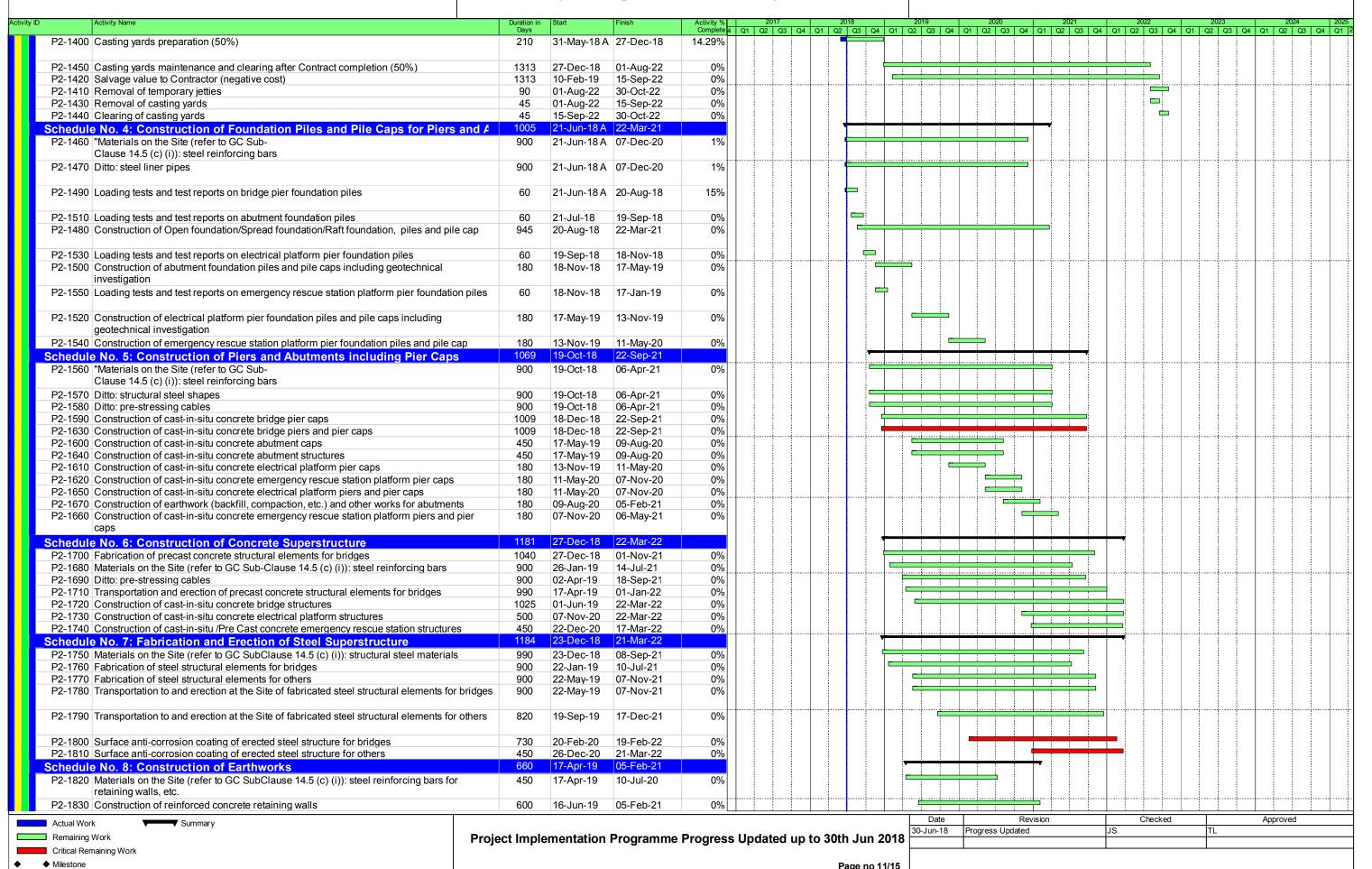
Remaining Work

Critical Remaining Work

Project Implementation Programme Progress Updated up to 30th Jun 2018

Project Implementation Programme

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Project Implementation Programme

ANNEXURE VI

D Activity Name	Duration in Days	Start	Finish	Activity %	01 02	017	01 02	2018	4 01 0	2019	01 01	2020	01 02	2021	01 02	Q3 Q4 Q	2023	3 04 0	2024	03 0
P2-1840 Construction of earthwork (fill, compaction, etc.)	600	16-Jun-19	05-Feb-21	0%	Q1 Q2	Q3 Q4	Q1 Q2	ري ر	- Q1 Q		Q1 Q2		Q1 Q2	Q3 Q4	Q1 Q2	Q3 Q4 Q	. (2	23 Q4 C	ı QZ C	w Q
Schedule No. 9: Construction of Dolphins and Fenders	840	20-Aug-18	07-Dec-20					-	+ +	+ +		+ + -								
P2-1880 Loading tests and test reports on dolphin foundation piles	60	20-Aug-18	19-Oct-18	0%																
P2-1850 "Materials on the Site (refer to GC Sub-	180	19-Sep-18	18-Mar-19	0%				<u> </u>	-											
Clause 14.5 (c) (i)): steel reinforcing bars				7,5																
P2-1860 Ditto: steel liner pipes	180	19-Sep-18	18-Mar-19	0%		 	·····	·				'ii	† <u>†</u>	†****	† 			···†····		
P2-1870 Construction of dolphin foundation piles including geotechnical investigation	210	19-Oct-18	17-May-19	0%				=	+											
P2-1890 Construction of concrete structure	300	17-May-19	12-Mar-20	0%						++	 									
P2-1900 Fenders including Materials	270	12-Mar-20	07-Dec-20	0%							÷	\div								
Schedule No. 10: Fabrication and Installation of Bridge Ancillaries	705	10-Jun-20	16-May-22									1		1						
P2-1910 Materials on the Site (refer to GC SubClause 14.5 (c) (i)): bridge bearings (shoes)	600	10-Jun-20	31-Jan-22	0%		1								·				***		
P2-1920 Ditto: expansion joints	600	10-Jun-20	31-Jan-22	0%											-					
P2-1950 Crash barriers including Materials	600	10-Jul-20	02-Mar-22	0%											-					
P2-1960 Deck waterproofing including Materials	600	23-Sep-20	16-May-22	0%								—	 	; ;	 					
P2-1930 Installation of bridge bearings (shoes)	450	06-Jan-21	01-Apr-22	0%		<u> </u>	<u> </u>													
P2-1940 Installation of expansion joints	450	06-Jan-21	01-Apr-22	0%										: :						
Schedule No. 11: Construction of Asphalt Pavement	270	22-Sep-21	19-Jun-22												1					
P2-1970 Asphalt pavement including Materials	270	22-Sep-21	19-Jun-22	0%										<u> </u>						
Schedule No. 12: Fabrication and Installation of Miscellaneous Items	600	29-Jan-21	21-Sep-22										-							
P2-1980 Materials on the Site (refer to GC SubClause 14.5 (c) (i)): noise barriers	365	29-Jan-21	29-Jan-22	0%										: :	 					
P2-2010 Drainage facility including Materials	450	26-Mar-21	19-Jun-22	0%								1 1	—	! !						
P2-1990 Installation of noise barriers	450	30-Mar-21	23-Jun-22	0%										1 1						
P2-2000 Safety fences including Materials	365	19-Jun-21	19-Jun-22	0%																
P2-2020 Kerbs including Materials	365	19-Jun-21	19-Jun-22	0%																
P2-2030 Road furniture including Materials	270	22-Sep-21	19-Jun-22	0%		<u> </u>				<u> </u>		<u>.]</u>	<u> </u>							
P2-2040 Pavement marking including Materials	180	21-Dec-21	19-Jun-22	0%																
P2-2060 Gantry/overhang (cantilever)-type signage support structures including Materials	180	21-Dec-21	19-Jun-22	0%																
P2-2050 Road signage including Materials	120	19-Feb-22	19-Jun-22	0%																
P2-2070 Median openings including Materials	120	19-Feb-22	19-Jun-22	0%																
P2-2080 Traffic signals including Materials and testing	90	23-Jun-22	21-Sep-22	0%		ļ							ļļ							
P2-2090 Restoration of removed items	90	23-Jun-22	21-Sep-22	0%																
P2-2100 Other miscellaneous items including Materials and testing as required	90		21-Sep-22	0%				,												
Schedule No. 13: Provisional Sums	2		01-Jun-18 A	1000/																
P2-2220 Schedule No. 13: Provisional Sums	2	31-May-18 A	01-Jun-18 A	100%			'													
	0	24 Con 22	24 Com 22													J				
Remaining Works & Taking Over Certificate		21-Sep-22		-00/		 							ļ <u>ļ.</u>							
A2360 Achieve Issuance of Taking Over Certificate	0	00 Mar 40 A	21-Sep-22	0%			<u> </u>													
Package 3: 3.6 km long road & bridge(10+187 to 21+800) + interchanges	1317	23-Mar-18 A	7 7 7 7 7																	
Mobilisation	180	23-Mar-18 A	<u> </u>				1													
P3-1950 Mobilisation	30	23-Mar-18 A	22-Apr-18 A	100%			_													
P3-1960 Construction Programme, completion of Soil Investigation, Submit Final plans	150	22-Apr-18 A	19-Sep-18	46%			_													
						ļ <u>.</u>	<u>i</u>					<u> </u>		<u></u>						
Schedule No. 1: General Items	1278																			
P3-1080 Provision and maintenance of health and safety measures during the Time for Completion	1278	23-Mar-18 A	21-Sep-21	7.75%			<u> </u>													
(Section VII GC Sub-Clause 6.7)																				
P3-1090 Provision (construction) of office facilities with furniture and office equipment	1278	23-Mar-18 A	21-Sep-21	7.75%																
								\perp			\perp		L							
P3-1100 Maintenance of above office facilities for the Employer during the Time for Completion	1278	23-Mar-18 A	21-Sep-21	7.75%																
(Section VII GC Sub-Clause 6.6)																				
P3-1150 Supply of vehicles, boats, etc. for the Employer (Section VII GC Sub-Clause 6.6)	1278	23-Mar-18 A	21-Sep-21	7.75%																
						ļ														
P3-1160 Operation and maintenance of above vehicles, boats, etc. for the Employer during the Time	1278	23-Mar-18 A	21-Sep-21	7.75%																
for Completion																				
P3-1000 Performance Security (Section VII. GC Sub-Clause 4.2)	1	22-Apr-18 A	23-Apr-18 A	100%			1													
P3-1010 Insurance for Works (Section VII GC Sub-Clause 18.2)	1	22-Apr-18 A	23-Apr-18 A	100%																
P3-1020 Insurance for Contractor's Equipment (Section VII GC Sub-Clause 18.2)	1	07-May-18 A	08-May-18 A	100%																
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Actual Work Summary

Remaining Work

Critical Remaining Work

Milestone

Project Implementation Programme Progress Updated up to 30th Jun 2018

Page no 12/15

 Date
 Revision
 Checked
 Approved

 30-Jun-18
 Progress Updated
 JS
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Project Implementation Programme

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Ph-1013 Insurance against laying the Protects and Protects and Protecting (Section VIII CC Sub-Clause 1.5)		Activity Name	Duration in Days	Start	Finish		Q1	2017 Q2 Q3	Q4 Q1	Q2 (Q3 Q4	Q1 Q2	2 Q3 (Q4 Q1	Q2 Q3	Q4 Q1	Q2 Q3	3 Q4 C	2022 Q1 Q2 Q	3 Q4 Q1	Q2 Q3	Q4 Q1	Q2 Q
2	P3-1030		2	07-May-18 A	08-May-18 A	100%				1													
P3-1000 Insurance for Ticeting Liability (Section VIII PC Sub-Classe 18.5) 2 22-largy-11A 22-largy-18.5 1005	D2 1040	,	2	07 May 19 A	00 May 19 A	1000/			- 								 						
P3-1070 Alternative I sportly incurance 2 ZAMay-191A 2 AMay-191A 1009 P3-1070 Alter or DNF Services (Scidon VIII CC Classe 11) P3-1070 Alter or DNF Services (Scidon VIII CC Classe 11) P3-1070 Alter or DNF Services (Scidon VIII CC Classe 11) P3-1070 Alter or DNF Services (Scidon VIII CC Classe 11) P3-1070 Alter or DNF Services (Scidon VIII CC Classe 11) P3-1070 Alter or DNF Services (Scidon VIII CC Classe 11) P3-1070 Alter or DNF Services (Scidon VIII CC Classe 41) P3-1070 Alter or DNF Services (Scidon VIII CC Scidon Classe 41) P3-1070 Alter or DNF Services (Scidon VIII CC Scidon Classe 41) P3-1070 Alter or DNF Services (Scidon VIII CC Scidon VIII CC Scidon Classe 42) P3-1070 Alter or DNF Services (Scidon VIII CC Scidon VIII CC Scidon VIII CC Scidon Classe 42) P3-1070 February (Scidon VIII CC Scidon Classe (Scidon VIII CC Scidon VIII CC S	P3-1040	insurance for Contractor's Personner (Section virigo Sub-Clause 16.4)		U7-IVIAY-10 A	Uo-Iviay- 10 A	100%																	
P3-100E Automorbie Landily insurance	P3-1050	Insurance for Design Liability (Section VIII, PC Sub-Clause 18.5)	2	22-May-18 A	23-May-18 A	100%				1													
19-10			_																				
19-3-110	P3-1060	Automobile Liability Insurance	2	22-May-18 A	23-May-18 A	100%				1													
FS-1107 Retinoval clearing of above office families for the Employee and to me Engineer (Section 2 21-Sep-21 09, Whit 19, White Calculates 4.9 19, White In Taliang Deep (Section VIII Calculates 4.2) 2, Honor and Employee and Employee (Section VIII Calculates 4.9 19, White In Taliang Deep (Section VIII Calculates 4.2) 2, Honor and Employee (Section Calculates 4.2) 2, Honor and Employe																							
Will Co. Sub-Clause 4 (5)			2																				
PS-1100 Description and manifestation of the female of Carloption (Section 1) 2 19-58-p.21 21-58-p.21 10 10 10 10 10 10 10			2	19-Sep-21	21-Sep-21	0%												1					
Po-1100 Operation and instrument or of overation roads during the Time for Completion (Section VI) 2 16-56-p.21 27-56-p.21 70 70 70 70 70 70 70 7		,	2	10 Sep 21	21 San 21	00%											· 				·		
CG. Sub. Clause 4 15			2															1					
Schedule No. 2: Contractor's Documents			_	. o oop = .	cop																		
PS-1100 Technical Design documents of entitivoxis PS-1100 Technical Design documents of entitivoxis PS-1100 Technical Design documents of entitivoxis PS-1200 Technical Design documents of mundrion 2:0 30-but-18 2-3-but-19 0.56	P3-1140	Clearing from Site and Works after Taking-Over (Section VII GC SubClause 4.23)				0%												1					
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P3-1200 Technical Design documents of foundation 210 30-Jun-18 25-Jan-18 0% 0% 25-Jan-18 0% 0% 0% 0% 0% 0% 0% 0	P3-1170	Technical Design documents of highway and interchange alignments	90	31-May-18 A	29-Aug-18	33.33%				-	-												
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P3-130 Tennical Design occuments of superstructure (sible)	P3-1190	Technical Design documents of earthwork	90	31-May-18 A	29-Aug-18	33.33%					_												
P3-130 Technical Design documents of superstructure (sites)	D3_1200	Technical Design documents of foundation	210	30_ lun_19	26- lan-10	Ω0/2						•											
Pol-1350 Submission of samples (CC Sub-Clusier 2) 90 30-Jun 18 22-Sep-18 0% Pol-1350 Test Pol-1350 T												•											
Po-13-20 Testinical Design documents of substructure Po-12-20 Technical Design documents of substructure Po-12-20 Technical Design documents of superstructure (concreta) Po-12-20 Technical Design documents of superstructure (concreta) Po-12-20 Technical Design documents of superstructure (concreta) Po-12-20 Construction Design documents of superstructure (seet) Po-13-20 Construction Design documents of superstructure (seet) Po-13-30 Construction Design documents of superstructure (seet) Po-13-30 Construction Design documents of parents Po-13-20 Construction Design documents of substructure Po-12-20 Construction Design documents of substructure Po-13-20 Construction Pesign documents Po-13-20 Construction Pes											-												
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P3-119 Construction Design documents of pavement 180	P3-1260	Construction Design documents of earthwork	150	29-Aug-18	26-Jan-19	0%						•											
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P3-1330 Preparation and supply of ab-billt documents (CG Sub-Clause 5.5) 120 26-Jan-19 26-Apr-19 0% P3-1340 Preparation and supply of Maintenance Manual (Section VII GG Sub-Clause 5.7) 90 26-Jan-19 26-Apr-19 0% Schadule No. 3: Gnastruction of Foundation for Piers and Abutments 570 30-Jun-18 180-Apr-20 193-Jun-18 180-Apr-20 193-J													T										
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P3-142D Loading tests and test reports on abutment foundation piles 90 30-Jun-18 28-Sep-18 0% P3-1370 "Materials on the Site (refer to GC Sub- Clause 14.5 (c) (i)): steel reinforcing bars P3-1380 Ditto: steel iner pipes 50 07-Nov-18 30-Apr-20 0% P3-1390 Construction of piler foundation including geotechnical investigation P3-1410 Construction of abutment foundation piles/Spread foundation including geotechnical investigation P3-1410 Construction of abutment foundation piles/Spread foundation including geotechnical investigation Schedule No. 4: Construction of Piers, Pier caps and Abutments, P3-1480 Construction of cast-in-situ concrete pier and pier caps P3-1490 Construction of cast-in-situ concrete pier and pier caps P3-1490 Construction of cast-in-situ concrete pier and pier caps P3-1490 Construction of cast-in-situ concrete pier and pier caps P3-1490 Construction of cast-in-situ concrete pier and pier caps P3-1490 Construction of cast-in-situ concrete pier and pier caps P3-1490 Construction of cast-in-situ concrete pier and pier caps P3-1490 Construction of cast-in-situ concrete pier and pier caps P3-1490 Construction of cast-in-situ concrete pier and pier caps P3-1490 Construction of cast-in-situ concrete pier and pier caps P3-1490 Construction of cast-in-situ concrete pier and pier caps P3-1440 Ditto: structural steel shapes P3-1440 Ditto: structural steel shapes P3-1440 Ditto: prestressing cables P3-1450 Construction of cast-in-situ concrete pile caps for pier P3-1470 Construction of cast-in-situ concrete pile caps for pier P3-1470 Construction of cast-in-situ concrete pile caps for pier P3-1470 Construction of cast-in-situ concrete pile caps for pier P3-1470 Construction of Concrete Superstructure P3-1510 Materials on the Site (refer to GC Sub-Clause 14.5 (c) (ii)): steel reinforcing bars P3-1510 Materials on the Site (refer to GC Sub-Clause 14.5 (c) (ii)): steel reinforcing bars P3-1510 Materials on the Site (refer to GC Sub-Clause 14.5 (c) (ii)): steel reinforcing bars P3-1510 Materials on the Site (re						00/			·		<u></u>		+		·		 				····		
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Investigation Schedule No. 4: Construction of Piers, Pier caps and Abutments, 672 27-Dec-18 29-Oct-20	P3-1410	Construction of abutment foundation piles/Spread foundation including geotechnical	540	07-Nov-18	30-Apr-20	0%	1		T			:	1 1		-	T	T		T				
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P3-1520 Ditto: pre-stressing cables 600 27-Dec-18 18-Aug-20 0%											_						T						
P3-1520 Ditto: pre-stressing cables 600 27-Dec-18 18-Aug-20 0%																							
P3-1530 Fabrication of precast concrete structural elements for bridges 600 27-Dec-18 18-Aug-20 0%			_								1												
	P3-1530	Fabrication of precast concrete structural elements for bridges	600	27-Dec-18	18-Aug-20	0%																	i_
	Actual Wor	•	4 -		Due aug :	Dresses	, II	-l - 4l	4 - 4	3 UTI-	l ^	040 3	80-Jun-18	3 Pr	ogress Up	dated		JS	3		TL		
Remaining Work Project Implementation Programme Progress Updated up to 30th Jun 2018 So-Jun-18 Progress Updated JS TL TL TL TL TL TL TL T	Remaining	Work																					

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Project Implementation Programme

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Activity Name	Duration in Days	Start	Finish	Activity % Complete 4	Q1 Q2 Q3	Q4 Q	Q2 Q3	Q4 Q1 Q2	Q3 Q4	Q1 Q2 (Q3 Q4 C	Q1 Q2 C	Q3 Q4	Q1 Q2	Q3 Q4 Q1	Q2 Q3	Q4 Q1 Q	Q2 Q3
P3-1540 Fabrication of precast concrete structural elements for electrical platforms	600	27-Dec-18	18-Aug-20	0%	Q1 Q2 Q3													
P3-1550 Transportation and erection of precast concrete structural elements for bridges	730	25-Feb-19	24-Feb-21	0%														
P3-1560 Transportation and erection of precast concrete structural elements for electrical platforms	600	08-Sep-19	30-Apr-21	0%						1 1		7						
DO 4570 Complementing of coat in site company	450	05 Fab 00	20. 4 04	00/								<u> </u>						
P3-1570 Construction of cast-in-situ concrete	450 975	05-Feb-20 29-Aug-18	30-Apr-21	0%			-					-						
chedule No. 6: Fabrication and Erection of Steel Superstructure				00/														
P3-1580 Materials on the Site (refer to GC SubClause 14.5 (c) (i)): structural steel materials P3-1590 Fabrication of steel structural elements for bridges superstructure	600 730	29-Aug-18 28-Oct-18	20-Apr-20 27-Oct-20	0% 0%		·	·		.iii							·····		
P3-1600 Fabrication of steel structural elements for other components	730	28-Oct-18	27-Oct-20	0%														
P3-1610 Transportation to and erection at the Site of fabricated steel structural elements for bridges	540	03-Sep-19	24-Feb-21	0%								•						
To To To Transportation to and credition at the one of labificated steel structural cicinents for bridges	040	00-оср-10	24-1 00-21	0,0														
P3-1620 Transportation to and erection at the Site of fabricated steel structural elements for other components	540	03-Sep-19	24-Feb-21	0%					+									
P3-1630 Surface anti-corrosion coating of erected steel structure for bridges	210	27-Sep-20	25-Apr-21	0%							-	-						
P3-1640 Surface anti-corrosion coating of erected steel structure for other components	210	02-Oct-20	30-Apr-21	0%								-		TT		TTT		·
Schedule No. 7: Construction of Earthworks	660	30-Jul-18	20-May-20				—			 -								
P3-1650 Materials on the Site (refer to GC SubClause 14.5 (c) (i)): steel reinforcing bars for	300	30-Jul-18	26-May-19	0%				+										
retaining walls, etc.																		
P3-1660 Construction of reinforced concrete retaining/compound walls	600	28-Sep-18	20-May-20	0%			ļ ļ			-								
P3-1670 Construction of earthwork (fill, compaction, etc.)	600	28-Sep-18	20-May-20	0%				1	11									
Schedule No. 8: Fabrication and Installation of Bridge Ancillaries	240	01-Nov-20	29-Jun-21															
P3-1710 Installation of expansion joints	60	01-Nov-20	31-Dec-20	0%														
P3-1730 Deck waterproofing including Materials	180	01-Nov-20	30-Apr-21	0%							_	_						
P3-1680 "Materials on the Site (refer to GC Sub-	180	01-Dec-20	30-May-21	0%														
Clause 14.5 (c) (i)): Bridge bearings (shoes)																		
P3-1690 Ditto: expansion joints	180	01-Dec-20	30-May-21	0%		<u> </u>										<u> </u>		
P3-1720 Crash barriers including Materials	210	01-Dec-20	29-Jun-21	0%								:						
P3-1700 Installation of bridge bearings (shoes)	180	31-Dec-20	29-Jun-21	0%									_					
Schedule No. 9: Construction of Asphalt Pavement	270	04-Dec-20											7					
P3-1740 Asphalt pavement including Materials	270	04-Dec-20		0%								: :	<u> </u>					
Schedule No. 10: Fabrication and Installation of Miscellaneous Items	510	07-Jun-20	30-Oct-21															
P3-1760 Drainage facility including Materials	450	07-Jun-20	31-Aug-21	0%									_					
P3-1750 Safety fences including Materials	365	31-Aug-20	31-Aug-21	0%							:	1 1						
P3-1770 Kerbs including Materials	365	31-Aug-20	31-Aug-21	0%								: :						
P3-1780 Road furniture including Materials	270	04-Dec-20	31-Aug-21	0%									_					
P3-1790 Pavement marking including Materials P3-1810 Gantry/overhang (cantilever)-type signage support structures including Materials	180 180	04-Mar-21 04-Mar-21	31-Aug-21 31-Aug-21	0% 0%		·			 							····		
P3-1800 Road signage including Materials	120	03-May-21	31-Aug-21	0%									. !					
P3-1820 Median openings including Materials for movable barrier	120	03-May-21	31-Aug-21	0%									-					
P3-1830 Traffic signals including Materials and testing	60	31-Aug-21	30-Oct-21	0%									÷					
P3-1840 Restoration of removed items	60	31-Aug-21	30-Oct-21	0%									÷					
P3-1850 Other miscellaneous items including Materials and testing as required	60	31-Aug-21	30-Oct-21	0%									-					
Schedule No. 11: Provisional Sums	600	09-Jan-20	31-Aug-21						+				-					
P3-1970 Schedule No. 11: Provisional Sums		09-Jan-20		0%							:	1 1	-					
Remaining Works & Taking Over Certificate		30-Oct-21	30-Oct-21										▼					
A2540 Achieve Issuance of Taking Over Certificate	0	30-Oct-21	30-Oct-21	0%									1					
ickage 4: Intelligent Transport System	963								,	- 					-			
Contractor's Construction and GC Construction Supervision Activities	660									•	+	++	- 					
Contractor's Design, Manufacturing and Delivery of Equipment to Site	420	02-Feb-20							,	- 		→						
A2600 Contractor to Complete Preliminary Design & Detailed Design (As Per Design Submission Programme)	180		31-Jul-20	0%														
A2610 GC to Review / Proof Check / Approve Contractor's Detailed Design	180	02-Apr-20	29-Sep-20	0%						—								
A2620 Manufacturing, Testing and Delivery of ITS Equipment to Site	240	02-May-20	28-Dec-20	0%														
A2630 Manufacturing, Testing and Delivery of O&M Facility & Equipment to Site	240	31-Jul-20	28-Mar-21	0%								-						
Installation, Testing and Pre-Commissioning of ITS Equipment		31-Jul-20	23-Nov-21							4								
A2640 Installation, Testing and Pre-commissioning of Traffic Management System	420	31-Jul-20	24-Sep-21	0%						1								
A2650 Installation, Testing and Pre-commissioning of Toll Management System	420	31-Jul-20	24-Sep-21	0%		ļl				1			<u> </u>					
A2660 Contractor to Achieve Issuance of Completion Certificate	60	24-Sep-21	23-Nov-21	0%														
ntegrated Testing and Commissioning	363	24-Sep-21	22-Sep-22												•			
	00	24-Sep-21	23-Nov-21	0%	- i i '	1	1 1 1	1 1	1 1	i i	1 1			1 1	1 1	1 1 1		
A2670 Integrated Testing with all External Interfaces and Authority Control Centres and Trial Operation	60	24-36p-21	23-1104-21	0 70						- 1		- 1 1	- i - I				1 :	

Actual Work Summary

Remaining Work

Critical Remaining Work

Project Implementation Programme Progress Updated up to 30th Jun 2018

Project Implementation Programme

ANNEXURE VI

Activity ID	Activity Name	Duration in	Start	Finish	Activity %		2017			2018		2019		2020		2021		202	2		2023		2024	2025
		Days			Complete	4 Q1	Q2 C	Q3 Q4	Q1 Q2	2 Q3	Q4 Q1	Q2 Q3	Q4 Q1	Q2 Q3	Q4 Q	1 Q2 C	Q3 Q4	Q1 Q2	Q3 Q4	Q1 C	2 Q3 Q	4 Q1 Q2	! Q3 Q	4 Q1 2
A2680	Commercial Operation Date	1	21-Sep-22	22-Sep-22	0%														1					
DLP Sta	je	1057	30-Oct-21	21-Sep-24																				
A2710	Package 3: 3.6 km long road & bridge(10+187 to 21+800) + interchanges	730	30-Oct-21	30-Oct-23	0%													1 1	;	1	: :			
A2690	Package 1 Sewri Interchange and adjoining 10.38 km bridge (0+000 to 10+380)	730	22-Sep-22	21-Sep-24	0%														-		+ +	++	_	
A2700	Package 2: 7.8 km long bridge (10+380 to 18+187) + interchanges	730	22-Sep-22	21-Sep-24	0%														-		+++	$\overline{}$		
A2720	Package 4: Intelligent Transport System	730	22-Sep-22	21-Sep-24	0%																			

A	Actual Work	_	₹ :	Summary
F	Remaining Work			
	Critical Remaining Work			
◆ • N	Milestone			