

3.0 BENEFITS DERIVED FROM THE PROJECT (EFFECTIVENESS)

3.1 Operational and Physical Condition

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

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

3.2 Precautions (Measures To Be Adopted/ Points Which Require Special Attention)

Original Issues and Countermeasure(s)	Actual Issues and Countermeasure(s)
3.2.1 General Issues 1. Toll Arrangement/ Toll Rate Fixed toll rate as per 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.	(P/R and PCR) Appropriate Tolling Policy/ Rates will be finalized by December 2021.
2. Operation and Maintenance MMRDA proposes to appoint separate agencies for Operation & Maintenance of the bridge and for Toll Management System. Both the agencies for O & M and Toll Management System may be appointed through open tendering process. Overall monitoring of the two agencies would be done by MMRDA in house through a separate cell which could be constituted for the purpose. MMRDA has confirmed to allocate adequate budget for engaging the Contractors.	Single Operation and Maintenance Contractor will be appointed by December 2021.
3.2.2 Environmental and Social Consideration a. CRZ Clearance i. Supplemental EIA has been approved by MMRDA and disclosed on the website of JICA. Supplemental EIA report has been disclosed also on the website of MMRDA. ii. Furthermore, renewed CRZ Clearance has been obtained in January 2016. iii. In accordance with the conditions for	(P/R and PCR) • MMRDA has disclosed Supplemental EIA & SIA on MMRDA website. • The renewed CRZ clearance was granted on 25/1/2016 from MoEF&CC and the approval conditions have been imposed on the Contractors as the Employer's requirements. MMRDA has actively monitored the compliances of the approval conditions and maintains throughout the construction phase. • MMRDA appointed Mangroves & Marine



<p>CRZ Clearance, appropriate measures shall be taken, and necessary budget shall be secured by MMRDA.</p>	<p>Biodiversity Foundation 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.</p> <ul style="list-style-type: none"> • Rs 91.42 Crore has been transferred to Mangroves & Marine Biodiversity Foundation, Mumbai for the development & conservation of mangrove area and its afforestation. Such funds will be managed by the Mangrove Foundation of Maharashtra State. • As per the renewed CRZ clearance condition, IIT Mumbai has been appointed for the DPR study to develop a Mahul creek Effluent Treatment Plant (ETP). Rs 4.98 Crore was secured for IIT services. The Draft DPR has been reviewed and approved.
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b. Required Permits

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

Table 3.2.2 Present Status of some Important Permits

Clearance Required	Approving Authority	Responsible Organization	Obtained by when	Remark /Status
Mangrove Cutting	Hon. Bombay High Court	MMRDA/ Contractor	Approval received from Hon. Bombay High Court on 28 th November 2016	Mangrove cutting operation was completed with full compliance and as of now, no further follow up work is required.
Tree Cutting /Transplantation	Respective Tree Authorities	Contractor for respective Packages	-	Pkg-1: Tree Cutting/ Transplantation permission from the Garden Dept., MCGM obtained on 24 th December 2020. Pkg-2: Tree Cutting/ Transplantation permission obtained & completed. Pkg-3: Forest Department issued a concurrence on 19/05/2019. CIDCO's permission for Tree Cutting/ Transplantation obtained on 25 th November 2019.
Consent to Establish	Maharashtra Pollution Control Board	Contractor for respective Packages	Pkg-1-18.07.2018 Pkg-2-16.08.2018 Pkg-3-29.05.2019	



3.3 Environmental and Social Impacts

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

Issue(s)	Action or countermeasure(s) taken and remaining problem(s)
1. Establishment of Effective Environmental and Social Cell in PIU MMRDA confirmed that Social Development Cell (2 Officers), Land Cell (3 Officers), and Environmental Cell (2 Officers) had been set up.	Cell is established by MMRDA (Annexure III, Organization chart)
2. Rehabilitation and Land Acquisition Issues a. Affected Area and Population Due to the Project, 1282 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 Social Development Cell of MMRDA. Out of 297 Project Affected Households (PAHs) have given consents as follows: <ul style="list-style-type: none"> • 164 PAHs Kanjurmarg for residential • 25 PAHs Kanjurmarg for commercial • 7 PAHs (Satsangi Plot) Kanjurmarg for Commercial • 1 PAHs (commercial to residential) for Bhakti Park • 100 PAHs HDIL Kurla for residential Navi Mumbai: CIDCO has been finalizing the land acquisition closely monitored by Land Cell of MMRDA. Except private land and forest, CIDCO has possessed all required land of 108.09 ha. Out of the 108.09 ha, 106.345 ha has been handed over by CIDCO to MMRDA. CIDCO is going to acquire the balance 1.745 ha with the help of Collector, Raigad.
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)	There have been no changes during the enforcement. As per the Attachment 2-5 of JICA MoD, MMRDA has committed to enforce the agreed/ approved policy.



Issue(s)	Action or countermeasure(s) taken and remaining problem(s)
("Guidelines") (Attachment 2-5).	
c. Compensation to Project affected Fishermen <p>Detailed baseline survey will be undertaken by MMRDA in order to identify fishermen who are affected by the Project. Based on the result of the baseline survey, MMRDA will compensate them in accordance with compensation policy prior to the construction. Monitoring will be conducted by MMRDA with assistance of the Consultant to grasp the exact impact during construction and operation phase.</p>	Updated Attachments 2-8 and 2-10 are enclosed in the report.
d. Implementation Schedule <p>The Implementation schedule for land acquisition, resettlement and rehabilitation is attached as per Attachment 2-10.</p>	Updated Attachment 2-10 is enclosed in the report.
e. Grievance Redressal Mechanism <p>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.</p>	<p>Sewri: FLGRC (Field Level Grievance Redressal Committee) and SLGRC (Senior Level Grievance Redressal Committee) were set as per the RAP and in operation. Compensation Committee has been constituted to address the issues of Compensation to Lease Holders at Sewri.</p> <p>Fishermen: GRC for resolving grievances of the fisherfolk was set up as per the compensation policy and is in operation.</p>
f. Internal Monitoring <p>Internal Monitoring of the 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.</p>	Internal Monitoring updates are mentioned in Attachment 2-8 .



Issue(s)	Action or countermeasure(s) taken and 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.	Updated Attachment 2-10 is enclosed in the report.
h. RAP Implementation Budget The amount of estimated resettlement and compensation budget is Rs.906.26 Cr MMRDA informed to the JICA Mission that RAP implementation cost would be borne by MMRDA and ensured sufficient and timely allocation of funds for smooth implementation.	As updated in MOD dated 03/09/2019 for MTHL- II, the base cost Budget towards RAP Implementation is updated as Rs 1129.3 Cr.
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.	EMP will be updated, if required, in due course of construction activities/progress.
j. Environmental Monitoring Plan (“EMoP”) 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	Environmental Monitoring Plan with the package wise budgeted cost is reported in Attachment 2-3 . Environmental Monitoring Results during the construction phase are reported in Attachment 2-4 .



Issue(s)	Action or countermeasure(s) taken and remaining problem(s)
<p>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.</p>	
<p>k. Long Term Bird Monitoring</p> <p>MMRDA committed to conduct the long-term monitoring of birds and its habitat in Sewri mudflats with the assistance of hired bird expert. During the long-term monitoring, MMRDA will share information and receive advice from external experts including the one from NGOs and civil society.</p>	<ul style="list-style-type: none"> MMRDA has entrusted the work of bird monitoring and implementation of Flamingos and birds related mitigation measures & bird monitoring program to Mangrove and Marine Biodiversity Foundation. Rs. 31.92 Crore deposited to Mangrove foundation, Mumbai for periodical disbursement to BNHS.

3.4 Qualitative and Quantitative Data of Monitoring Indicators

Operation and Effect Indicator EIRR and/ or FIRR

Supporting data for Computing EIRR and/ or FIRR

Indicators	Original (Year 2015)	Target (Year 2024) 2 Years After Commercial Operation
Average Annual Daily Traffic (PCU/ day)	-	47,400
Daily Average Travel Time (min) * 1	61 min	15.8 min
Number of Users (Persons/ year) * 2	-	46,077,504
Cargo Volume (tons/ year) * 3	-	13,511,759

*1 Section on Sewri – Chirle

*2 Assumptions: average passengers of car and taxi (2.6 persons), bus (37.2 persons) based on JICA study. Number of passengers of LCV, HCV and MAV is assumed as 1 person each.

*3 Assumptions: the maximum capacity of respective vehicle (LCV: 1 ton, HCV and MAV: 15 tons) is used for estimation.



Attachment 2- Environmental & Social Impacts Attachments

- Attachment 2-3 – Envi. Monitoring Plan with Package wise Estimated Cost**
- Attachment 2-4 – Environmental Monitoring Result Reporting Form**
- Attachment 2-6 – MTHL Land Acquisition Status**
- Attachment 2-8 – RAP Internal Monitoring Form**
- Attachment 2-10 – Schedule of the RAP Implementation**



Environmental Monitoring Plan with Packagewise Estimated Cost

Attachment 2-3

Category	No.	Impacted Item on JICA Guidelines	Parameter	Method	Location	Frequency a year	Cost (INR)	Cost Pg.1 (INR)	Cost Pg.2 (INR)	Cost Pg.3 (INR)	Standard Central Pollution Control Board (CPCB) - Ministry of Environment & Forest (MoEF)		Remarks
											Total Cost (INR)	Cost Pg.3 (INR)	
	1	Air pollution	SO ₂ , NO _x , PM ₁₀ , PM _{2.5} , O ₃ , CO (6 items)	National Ambient Air Quality Standards, 2009	1. Sewri & Sewari bay area for package I	Fortnightly at all locations except 2 locations each near Batches & plants	1,500,000	15,00,000	1,60,000	742,500	17,542,500	National Ambient Air Quality Standards (NAAQS) by Central Pollution Control Board (CPCB)	P1 contractor team is conducting ambient air quality monitoring with reference to National Standards and clause 1.2 of Employer's Requirement.
					2. Nhava temporary bridge & casting yard in Gavhan for package II							(Standard for 24hrs Industrial and Residential / Ecological Sensitive area)	P2 contractor Monitoring plan has been designed as per EIA of 2015
					3. Gavhan & Chitrifor package III	Fortnightly only for 3 months (Jun-2019 to Mar-2019). Then quarterly monitoring as per MoEF and CPCB norms						SO ₂ : 80 / 80µg/m ³	P3 contractor team is conducting Ambient air quality monitoring with reference to National Standards and clause 1.2 of Employer's Requirement.
												NO ₂ : 80 / 80µg/m ³	P1 received Consents CTE & CTO from NCPB and they are following NCPB frequency in addition to frequency set by Environment Expert from GC. The NAAQ standards are showing High rate as that is the usual procedure. The frequency of monitoring is set by us which varies for different parameters as either Statutory requirements or as required by us to ensure we have sufficient data in hand; if there are additional claims for compensation in C5 category.
												PM ₁₀ : 100 / 100µg/m ³	Summary: Although the contract conditions for all packages were same at the time of bidding. Later modifications suggested by GC were not accepted by P2. P1 and P3 accepted the modifications and hence the difference. Second point is P1 carrying out monitoring as per the submitted CTE and CTO. Both other packages have applied for CTE but haven't obtained it yet. So we expect the monitoring frequency would change after obtaining CTE.
												PM _{2.5} : 60 / 60µg/m ³	
												O ₃ : 180 / 180µg/m ³	
												CO: 0.4 / 0.4 mg/m ³	
												Turbidity: 30 NTU	Marine water quality Standards - Class SW/IV Harbour Waters (MPCB)
												pH: 6.5-9	Water Pollution not applicable for Pg. 3
												DO: 3 mg/l	
												BOD: 5 mg/l	
												O & G: 10 mg/l	
													The cost of waste disposal for P1 includes C&D waste, pile muchie etc. from all areas like, interchange, inner tidal and marine. The disposal location is an MCGM approved location IBB band area. Phane.
Total Cost (INR)													
	2	Water pollution	pH, BOD, DO, Turbidity and DSG	IS / AWWA	1. Sewri & Sewari bay area for package I	Quarterly	810,000	2,400,000	810,000	0	3,210,000		
					2. Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year							
					3. Gavhan & Chitrifor package III	Not applicable							
	3	Waste	Volume of waste soil, cutting tree and domestic garbage	Volumetric	1. Sewri & Sewari bay area for package I	Daily	500,000	29,200,000	500,000	600,000	30,300,000		



Category	No.	Impacted Item on ICA Guidelines	Parameter	Method	Location	Frequency / year	Cost (INR)	Cost Phg.1 (INR)	Cost Phg.2 (INR)	Cost Phg.3 (INR)	Total Cost (INR)	Standard Central Pollution Control Board (CPCB) – Ministry of Environment & Forest (MoEF)	Remarks	
					2. Navai temporary bridge & casting yard in Gavhan for package II	4 Times / Year						Municipal Solid Waste Management Rules, 2013 designated waste shall be reused or disposed at designated site. Sites have been identified and the location for Phg. 1 is at Bhayandar Pada in Thane. For Phg. 2 & 3 is in New Mumbai at Pashan Naka near Teen Taluk junction along the Aman Marg.	P2 contractor has considered only Domestic Garbage with respect to GOCO. Other wastes are not considered. Construction wastes will be.	
4 and 9		Soil Contamination / sedimentation	Heavy Metals & Oil & Grease	IS / Methods Manual Soil Testing for package I	1. Sewari & Sewari bay area in India by Department of Agriculture and Cooperation, January 2011	1. Muck: 1 Time / Year 2. sediments: 4 Times / Year	150,000	1,500,000	150,000	10,000	1,750,000	Soil Pollution Standard in India (MoEF)		
5		Noise and vibration	Ambient and road side noise (dB(A) L _{eq})	IS Standard for package I	2. Navai temporary bridge & casting yard in Gavhan for package II							Gr: 0.01mg/l		
					3. Gavhan & Chinch for package III	"any spilling / leakage take place from chemical, fuel storage area." *one time grab sample to be collected during Bridge Construction *Pre & Post Monsoon at Survey area only.						Lead: 0.01mg/l Chromium (VI): 0.5mg/l Arsenic: 0.01mg/l T-Mercury: 0.0005mg/l Copper: 12.5mg/kg (some items shall be selected from totally 25 standards items)		
					1. Sewari & Sewari bay area 2. Navai temporary bridge & casting yard in Gavhan for package II	1. Sewari & Sewari bay area 2 Times / Year	150,000	54,000	150,000	399,000	577,000	-Construction Noise; IS69(BA) Ambient Noise Standards in India (dB (A) _{eq})		
					3. Gavhan & Chinch for package III	Fortnightly						1. Industrial Area Day Time: 75 (6-22hr) Night Time: 70 (22-6hr) 2. Commercial Area Day time: 65 (6-22hr) Night Time: 55 (22-6hr) 3. Residential Area Day Time: 55 (6-22hr) Night Time: 45 (22-6hr) 4. Silence Zone Day time: 50 (6-22hr) Night Time: 40 (22-6hr) - Construction Vibration 75dB		
		Vibration (dB L10 or mm/sec)		1. Location Gavhan area for package III	Half yearly	75,000	0	75,000	400,000	475,000		Not applicable for Phg. 1		
9 and 10		Protected Areas / Ecosystem		1. Monitoring of Ocular inspection and quantitative mudflat conditions including fauna-flora survey	Along MTHL alignment and quarterly mangrove replant area for package I	During the construction Period	6,500,000	7,200,000	6,500,000	0	13,700,000	Not applicable for Phg. 3	Significant impacts are not caused by the project	
				2. Monitoring of Cutting Tree and replantation/ transplanting area	Along MTHL alignment and mangrove replant area for package II	4 Times / Year								
				1. Fauna-Flora	Not applicable for Package III									
				3. Monitoring of Mangrove plantation area appointed by MoEF	Line-Point census and record number species									





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

Attachment 2-4

1. Environmental Monitoring during Construction for 4.5 years

Monitoring Period: January 2022 to March 2022

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

Attachment 2-4

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

Area	No.	Item	Parameter	Location	Frequency a year	Item and Standard	Monitoring Result				
							Location 1- Pkg 1	Location 2- Pkg 2	Location 3- Pkg 3	Location 4	
1	Air pollution	SO ₂ , NO _x , PM ₁₀ , PM _{2.5}		1. Sewri & Sevri bay area for package I 2. Nava temporary bridge & casting yard in Gavhan for package II 3. Gavhan & Chirle for package III	4 Times / Year	Quarterly monitoring is conducted at all locations. (Standard for 24hrs: Industrial and Residential)	Sewri Shivaji Nagar Chirle				
						1. SO ₂ : 80 $\mu\text{g}/\text{m}^3$ 2. NO _x : 80 $\mu\text{g}/\text{m}^3$ 3. PM ₁₀ : 100 $\mu\text{g}/\text{m}^3$ 4. PM _{2.5} : 60 $\mu\text{g}/\text{m}^3$ 5. CO: 0.5mg/m ³ 6. VOCs	9.67 30.25 249.17 63.33 1.38 1.18	BDL BDL BDL BDL BDL BDL	12 21 66 27 ^a 31 0.6	28	
2	Water pollution	pH, BOD, DO, Turbidity and O&G		1. Sewri & Sevri bay area for package I 2. Nava temporary bridge & casting yard in Gavhan for package II 3. Gavhan & Chirle for package III	4 Times / Year	Quarterly monitoring is conducted at all locations. (Standard for 24hrs: Industrial and Residential)					
						1. pH: 6.5-9 2. DO: 3 mg/l 3. Turbidity: 30 NTU 4. BOD: 5 mg/l 5. O & G: 10 mg/l 6. COD	8.1 5 4.3 BDL(BDL) BDL(BDL)	8.3 6 7.6 Not applicable Not applicable Not applicable	Zone II Zone II	Zone III/ Package-3	
3	Waste	Volume of waste soil, cutting tree and domestic garbage		1. Sewri & Sevri bay area for package I 2. Nava temporary bridge & casting yard in Gavhan for package II 3. Gavhan & Chirle for package III	4 Times / Year	Once site clearing work/execution part of work start.					
						1. Mock 1 Time / Year 2. Sediments: 4 times / Year 3. Cadmium for cadmium II 4. Cyanide & Salage take place from chemical fuel storage area. *One time grab sample to be collected during Bridge Construction *Pre & Post Monsoon at Storage area only	1.1 1.1 1.1 1.1 18	Not applicable Not applicable Not applicable Not applicable Not applicable			
						5. Chromium (VI): 0.05mg/l 6. Arsenic: 0.01mg/l or 15mg/kg (soil-land soil) 7. total mercury: 0.05mg/l 8. alkyl mercury: no detected 9. PCBs: no detected	0.17 BDL BDL BDL BDL	Not applicable for junksite-3 Not applicable Not applicable Not applicable			
						Hazardous Storage is situated in low laying area at Gavhan area. Due to thin topsoil, complete ground logging in rainy season. Therefore soil sample is impossible to taken out from in and around the Oil & chemical storage area. Same has witnessed by GC during February-2020 monitoring.					
						Regarding soil contamination/sedimentation some items shall be selected from the total 25 standards items during the Detailed Design. Only the selected items shall be reported to the total					
						Pollution					
						Heavy Metals & Oil & Contamination/sedim					
						4					



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

Attachment 2

Attachment 2-4

110

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

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MTHL Land Acquisition Status (Attachment 2-6):

The total land required on Navi Mumbai side- 108.09 ha
Land in possession in MMRDA – 106.345 ha
Balance land acquisition- 1.745 ha

Note: The acquisition of 1.745 ha is in progress by CIDCO. The balance acquisition would be likely completed by the end of June 2022.

Land Required in ha		Land Acquired in ha		Balance Land to be acquired in ha	Anticipated date for Land Acquisition	Payment status (Payment made to Land Owners by CIDCO)	Remarks
Govt.	Private	Govt.	Private	Private*			
98.75	9.34	98.75	7.595	1.745	31-07-2022	--	The payment status to the land owners is awaited from CIDCO. The same would be communicated to JICA on receipt of the same.
Total		98.75	7.595	1.745			
108.09							

***Portions of Private Land**

Sr. No.	Name of Village	Area (Hectare)	Acquired	Non-acquired
1	Gavhan	0.15	0.15	0.00
2	Jasai	8.72	7.306	1.414
3	Chirle	0.47	0.139	0.331
Total Area		9.34	7.595	1.745



Attachment 2-8

**RAP Implementation Monitoring Form
For Mumbai Trans Harbour Link Project (MTHL)**

1. General Information

- a. RAP Implementation Monitoring Results:
- b. Date of Preparing This form
- c. Person Preparing This form

Progress Status Report (PSR) for the 1st quarter of 2022

31-03-2022

Name: Robin Sham

Position: Engineer and Team Leader

Department/Organizations: General Consultants

2. Scale of Impact

2.1 Project Affected Households (PAHs) and Project Affected Persons (PAPs) for Sewri side

Total Project Affected Households (PAHs)	297 Hhs	Titleholders: 0 Hhs
		Non-titleholders: 297 Hhs
Total PAPs	1,282 persons*	Titleholders: 0 persons
		Non-titleholders: 1,282 persons*
PAHs who need relocation (as residents)	231 Hhs	Titleholders: 0 persons
		Non-titleholders: 231 (1,088 persons) *
PAPs who do not need relocation (as residents)	0 persons	Titleholders: 0 persons
		Non-titleholders: 0 persons
Commercial PAPs who need relocation	66 (194 persons) *	Titleholders: 0 persons
		Non-titleholders: 66 (194 persons) *
Commercial PAPs who do not need relocation	0 persons	Titleholders: 0 persons
		Non-titleholders: 0 persons

* - Figures for number of persons do not include no. of family members of few additional PAPs.

2.2 Structures

Structures	Residential: 231 Commercial: 65 Residential + Commercial: 1 (counted in Commercial) Community: 9 (Religious Properties 6, Public Toilets 3) Government: 16 (MbPT Structures 9, Occupants of Leased Plots 6 & Police Chowki 1) Total: 322
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2.3 Fishery

Categories of Fisher-folks	Identified Number		Total	Remarks
	Mumbai side	Navi Mumbai side		
C1: Fishing stakes and nets in RoW (250 m.)	178	54	232	Funds for 230 nos C1 category fishermen are transferred to Commissioner of Fisheries on 17.03.2020 for payment to the beneficiaries. 2. The list of balance 2 Nos. of C1 category fishermen are in process of fund transfer to the



QPR No. 20 (January to March 2022) Attachment 2-8

				Commissioner of Fisheries.
C2: Fishing Stakes and Nets within 500 m. of RoW (Southern side)	296	567	863	1. Funds for 496 nos C2 category fishermen are transferred to the Commissioner of Fisheries in 2017-18. 2. The list of balance 367 Nos. of C2 category fishermen are under verification of validity.
C3: Hand Pickers	1498	4051	5549	Funds for 4141 nos of C3 category fishermen are already transferred to the Commissioner of Fisheries and the balance of 1408 Nos. of C3 category fishermen are in process of fund transfer to the Commissioner of Fisheries.
C4: Commercial and Artisanal Fisher-folks (Loss of Time and Increased Operating Costs)	Will be observed during the construction period	Will be observed during the construction period	---	Nil
C5: Fisher-folks with Loss due to Turbidity	Will be observed during the construction period	Will be observed during the construction period	----	Nil
C6: Fisher-folks with Damages due to Accidents	Will be observed during the construction period	Will be observed during the construction period	----	Nil

2.4 Land Acquisition / Transfer

Location	Land Required in Ha.		Land Acquired in Ha.		Balance Land to be acquired in Ha	Remarks
	Govt.	Private	Govt.	Private		
Sewri	10.089	0	10.089	0	0	
Navi Mumbai	98.75	9.34	98.75	7.595	1.745	
Total	118.179		108.839	7.595	1.745	

QPR No. 20 (January to March 2022)



3. Monitoring Results

3.1 Sewri Section

Activity	Indicator	Total Target	Progress till Last Quarter	Progress during reporting Quarter	Cumulative Progress till Current Quarter	Cumulative Achievement of Total Target (%)	Remarks, If Any
Resettlement	No. of Residential PAHs provided with Allotment Letters of Alternate Tenements	231	197	29	226	97%	
	No. of Residential PAHs given possession of Alternate Tenements	231	197	29	226	97%	
	No. of Commercial/R+C PAPs provided with Allotment Letters of Alternate Shops/Tenements	66	23	38	61	92%	
	No. of Commercial R+C PAPs given possession of Alternate Shops/Tenements	66	23	38	61	92%	
	No. of Occupants of MbPT Leased Plots provided Compensation	6	5	1	6	100%	
	No. of Religious properties Relocated / Removed	6	1	5	6	100%	
	No. of Other Community properties Relocated / Removed	4	0	4	4	100%	
	No. of Structures in possession of MbPT Dismantled / Cleared	9	0	9	9	100%	
	No. of PAHs/PAPs provided Shifting Charges / Arrangement	297	0	0	0	0%	
Rehabilitation	No. of PAHs / PAPs identified for Livelihood Support in Post Resettlement Assessment						
	No. of PAHs / PAPs provided Livelihood Support under Program-I (to be identified)						
	No. of PAHs / PAPs provided Livelihood Support under Program-II (to be identified)						
	No. of PAHs / PAPs provided Livelihood Support under Program-III (to be identified)						
	No. of new enterprises started						



QPR No. 20 (January to March 2022) Attachment 2-8

Activity	Indicator	Total Target	Progress till Last Quarter	Progress during reporting Quarter	Cumulative Progress till Current Quarter	Cumulative Achievement of Total Target (%)	Remarks, If Any
Grievance Redress	No. of Grievances Received by FLGRC	4					
	No. of Grievances Disposed by FLGRC	2	1	1	2	100%	
	No. of Grievances Received by SLGRC	2					
	No. of Grievances Disposed by SLGRC	0					
Post Resettlement Assistance	No. of CHSs Registration helped						
	No. of CHSs provided Tenements for Social Amenities						
	No. of CHSs' Maintenance Fund Invested						
	No. of CHSs' Office Bearers provided training						

QPR No. 20 (January to March 2022)



SUMMARY OF FISHER FOLKS OF MTHL PROJECT (Influence Zone of 23 villages)						
Up to 31-03-2022						
Sr. No.	Village Name	Total number of forms Received	Total approved eligible family units			
			C1	C2	C3	Total
1	Bamandongri	273	1	1	28	30
2	Belapur	110	0	5	15	20
3	Belpada	1185	0	7	478	485
4	Diwale	455	12	201	52	265
5	Ganeshpuri	276	0	37	35	72
6	Gavhan	2162	0	14	1317	1331
7	Jasai	926	0	0	18	18
8	Jawale	51	0	1	0	1
9	Kombadbhuja	413	1	23	134	158
10	Kopar	994	2	5	228	235
11	Karave	178	0	44	67	111
12	Mahul	1062	129	76	604	809
13	Moha	475	22	25	134	181
14	Mora	818	0	102	375	477
15	Morave	539	14	21	88	123
16	Nhava	1646	0	32	307	339
17	Sarsole	266	0	30	83	113
18	Sewri	305	0	1	72	73
19	Shelghar	241	0	0	15	15
20	Shivajinagar	202	1	4	61	66
21	Trombay	1208	49	219	823	1091
22	Ulwe	218	1	3	14	18
23	Uran & Hanuman Koliwada	683	0	11	600	611
24	Vahal	411	0	2	1	3
Total		15097	232	864	5549	6645
Total applications						
Duplicate/Repeated Application						
Net Applications						
Approved applications						

Grievance Redressal Committee (GRC) for Fisher-folk Compensation

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



Implementation Schedule for Fisher-folks Compensation & Land Acquisition in Navi Mumbai

A. Implementation Schedule for Fisher-folks Compensation: -

Sr. No.	Task Designation	Approving authority	Start Date	Completion Date
1	Approval of fisherfolk's compensation Policy	Fisher-folks Compensation Committee (FCC)	08-10-2015	23-12-2015
2	Approval by MMRDA	MMRDA	10-12-2015	23-12-2015
3	Submission to JICA	MMRDA	--	04-01-2016
4	A detailed list of PAP and compensation plan	<p>1. Detailed list of Fisher-folk PAP up to list 1 (1165 Nos) & 2 (1399 Nos) are finalized by the Fisheries Department.</p> <p>2. From 2018, FEVC committee is the approval authority of PAF and approved C1-232 Nos. C2 - 368 Nos and C3- 3481 Nos are approved.</p>	23-12-2015	Up to 31-03-2022 <ul style="list-style-type: none"> 1. Total up to date applications scrutinized = 12669 Nos. 2. Eligible = 6645 Nos. 3. Rejected = 6024 Nos.
	Validation of compensation plan	Fisher-folks Compensation Committee (FCC)	23-12-2015	<ol style="list-style-type: none"> 1. Approval to the Fisher-folk PAP list obtained from Fisheries Department for Fisherfolk from Sewri, Mahul & Trombay (Mumbai side) – 12th September 2017 and 20th November 2018 for C-2 & C3 Category only.



Sr. No.	Task Designation	Approving authority	Start Date	Completion Date
			23-12-2015	2. Approval to the Fisher-folk PAP list obtained from Fisheries Department for Fisherfolk of Navi Mumbai of C2 & C3 on 25th April 2018. 3. Validation of compensation is in progress and would be completed in phases.
6	Approval of compensation plan	FCC	23-11-2015	28-12-2017
7	Approval by MMRDA	MMRDA	23-11-2015	09-03-2021

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

Land Required in Ha.	Land Acquired in Ha.	Balance Land to be acquired in Ha	The anticipated date for Land Acquisition	Payment status (Payment made to Landowners by CIDCO)	Remarks
Govt.	Private	Govt.	Private		
98.75	9.34	98.75	7.595	1.745 31-07-2022 --	1. CIDCO is the land acquisition authority for land acquisition for Navi Mumbai 2. MMRDA has paid an amount of INR 59.16 Cr to CIDCO as per their demand. 3. The payment status to the landowners is awaited from CIDCO. The same would be communicated to JICA on receipt of the same.
Total	108.09		106.345	1.745	



Implementation Schedule for SIA (Sewri Section)

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

