

Attachment 2- Environmental & Social Impacts

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

Attachment 2-4 – Environmental Monitoring Result Reporting Form

Attachment 2-6 – MTHL Land Acquisition Status

Attachment 2-8 – RAP Internal Monitoring Form

Attachment 2-10 – Schedule of the RAP Implementation



No. / Category	Impacted Item on PCA Guidelines	Parameter	Method	Location	Frequency a year	Cost (INR)	Cost Pkg-1 (INR)	Cost Pkg-2 (INR)	Total Cost (INR)	Standard Central Pollution Control Board (CPCB) - Ministry of Environment & Forest (MoEF)	Remarks
4 and 8	Soil Contamination/ sedimentation	Heavy Metals & Oil & Grease (5-10 items shall be selected from Soil pollution standards)	IS / Methods Manual Soil Testing in India by Department of Agriculture and Cooperation, January 2011	2. Nhava 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.	150,000	1,500,000	100,000	1,750,000	Municipal Solid Waste Management Rules, 2013 Construction waste shall be reused or disposed at designated sites. Other wastes are not considered. For Pkg. 2 & 3 is in New Mumbai at Pushpak Node near "Teen Taki Junction" along the Ambar Marg.	72 contractors has considered only Domestic waste in respect to EDCO. Other wastes are not considered. Construction wastes will be
5	Noise and vibration	Ambient and road side noise (BB(A)1,4a)	IS Standard	1. Sewri & Swrvi bay area for package I 2. Nhava temporary bridge & casting yard in Gavhan for package II 3. Gavhan & Chirle for package III	1. 1 Time / Year 2. 4 Times / Year If any spillage / package substance from storage area. One time grab sample to be collected during Bridge Construction *Pre & Post Monsoon at Storage area only Forthnightly 2 Times / Year Forthnightly	150,000	54,000	569,000	573,000	Soil Pollution Standard in India (MOEF) Cd: 0.01mg/l Lead: 0.01mg/l Chromium (VI): 0.05mg/l Arsenic: 0.01mg/l T-Mercury: 0.0005mg/l Copper: 125mg/kg (Some items shall be selected from total 25 standards items) -Construction Noise: 85dBA(A) -Ambient Noise Standards in India (BB (A) 1,4a) 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 standards roadside 1. Commercial / Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) 2. Residential Area: Day Time: 65 (7-20hr) Night Time: 60 (20-7hr)	No applicable for Pkg. 1
9 and 10	Processed Area / Ecosystem	1. Monitoring of mudflat conditions including fauna-flora 2. Monitoring of Cutting Tree and replantation/ transplanting area 3. Monitoring of Mangrove Forest health and species	Ocular inspection and quantitative survey 1-1. Fauna-Flora Line-Point census and species number and species	1. Location Gavhan area for package III Along MTHL alignment and mangrove replant area for Package I Along MTHL alignment and mangrove replant area for package II Not applicable for Package III	Quarterly during the construction period 4 Times / Year	75,000	0	400,000	475,000	15,000,000	Not applicable for Pkg. 3 Significant impacts are not caused by the project (Note)



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

Attachment 2-4
This form is prepared for reporting the monitoring results to JICA India Office. Only minimum required parameters are included in this form, and not all parameters in EMoP are covered.

Area	No.	Item	Parameter	Location	Frequency a year	Item and Standard	Monitoring Result			Remark		
							Location 1- Pkg 1	Location 2 - Package 2	Location 3- Pkg 3		Location 4	
1	Air pollution	SO ₂ , NO _x , PM ₁₀ , PM _{2.5}	National Ambient Air Quality Standards (NAAQS)	1. Sewri & Sewri bay bridge & casting yard area for package I	Quarterly monitoring is conducted at all locations.	Standard for 24hrs: Industrial and Residential) 1. SO ₂ : 80µg/m ³ 2. NO _x : 50µg/m ³ 3. PM ₁₀ : 100µg/m ³ 4. PM _{2.5} : 60µg/m ³ 5. CO: 0.2mg/m ³ 6. VOCs: 1.01	Sewri	Shivaji Nagar	Chirle			
				2. Nhave temporary bridge & casting yard area for package II	4 Times / Year		9.17	BDL	32		BDL- Below Detectable Limit	
				3. Gavhan & Chirle for package III	From March -2019 onwards monitoring is conducted quarterly as per MOEF and CPCB norms		35.58	50	50			
							272.67	91	86			
2	Water pollution	pH, BOD, DO, Turbidity and O&G	Marine water quality Standards – Class SIW-IV Harbour Waters (MPCB)	1. Sewri & Sewri bay area for package I	Quarterly	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		Zone II	Zone III/ Package-03			
				2. Nhave temporary bridge & casting yard area for package II	4 Times / Year		7.5	7.7	Not applicable			
				3. Gavhan & Chirle for package III	Not applicable		4.7	5.8	Not applicable			
							17.2	21.1	Not applicable			
3	Waste	Volume of waste soil, cutting tree and domestic garbage	Municipal Solid Waste Management Rules, 2016	1. Sewri & Sewri bay area for package I	Daily	Generated waste soil (t) total Generated cutting tree (t) total Generated domestic waste (t/month) total Confirmation of adequate disposal (visual survey) Soil Pollution Standard in India (MOEF) 1. Calcium: 0.01mg/l 2. total cyanide : not detected 3. organic phosphorus: not detected		Shivaji Nagar Camp Site	Chirle Camp Site			
				2. Nhave temporary bridge & casting yard area for package II	4 Times / Year		80.6 Tonnas for 3 months	Approx. 2000 CuM Collected in Jumbo bags and Disposed off in EBO Location.	NA			Both of forest and CIDCO area (234*75)= 309
				3. Gavhan & Chirle for package III	Once site clearing work/execution part of work start.				Tree cutting work completed and monthly report submitted to Client (April, 2022)			
									2.1 T for the quarter Waste is disposed through Municipal Corporation.			
				1. Sewri & Sewri bay area for package I	1. Muck: 1 Times / Year 2. Sediments: 4 Times / Year			Muck Testing Done on September 2021 and Reports submitted to GC	Not applicable			Kindly check the letter No. RT/IL/PSL&TGCL/TFSE-2282020 dated on 12.12.2020
				2. Nhave temporary bridge & casting yard area for package II			BDL (DL-2)	BDL				
				3. Gavhan & Chirle for package III	If any spillage/leakage take place from chemical, fuel storage *One time grab sample to be collected during Bridge Construction *Pre & Post Monsoon at		NA	<0.005	There is no reportable Oil spillage in project			
							NA	8.5	One time Soil test done (Report has been submitted)			



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Reporting Form of Environmental Monitoring during Construction
Attachment 2-4
1. Environmental Monitoring during Construction for 4.5 years

Monitoring Period - Jan - March 2023

Natural Environment		Along MTH alignment and mangrove replant area for package II	4 Times / Year	1-1. Fauna-Flora (number of species and quantity)	Bird monitoring is being done by a separate agency BNHS	Bird monitoring is being done by a separate agency BNHS	N/A	N/A	Birds Monitoring report by BNHS has been submitted separately.
6	Protected Area	1. Monitoring of mudflat fauna-flora conditions including sedimentation and siltation. 2. Monitoring of Cutting and re-planting/transplantation area. 3. Monitoring of Mangrove Plantation area appointed by MoEF. 4. Monitoring of sedimentation soil and water. (25 items on EIA main text Table 6.1.15 for soil and 7 items such as 1) Net primary productivity, 2) Chlorophyll-a, 3) Phosphate, 4) Nitrate, 5) Dissolved Organic Carbon, 6) SOD)		(1) Number of species of bird (2) Number of species of fish (3) Estimated number of flamingo 1-2: Mangrove density and community survey (1) Number of species of mangrove (2) Density of mangrove (x trees/10m x 10m) 1-3: Benthos Survey (1) Number of species and quantity by species 2-1: Cutting tree confirmation (1) Number of cutting tree and species 3-1: Mangrove survey in the replant area (1) Number of species of mangrove (2) Density of mangrove (x trees/10m x 10m) 4. Ecological Parameter (1) Net primary Productivity: <1,500 mgC/m ² /day at surface (2) Chlorophyll-a: <4mg/m ³ (3) Phosphate: 0.1-500µg/l (4) Nitrate: 1.0-500µg/l (5) Nitrite: <125µg/l (6) Particulate Organic Carbon: 10-100mg/m ³ (7) SIO2: 10-5,000µg/l	28 25 >20,000 Aboemia marina Dominant - Avicennia sp. EIA - Not disturbed. Flora, fauna, phytoplankton, zooplankton, Benthos	20 trees were cut with approval of Forest Department on 25-10-2018. Compensatory plantation of 40 trees were done in the period 15-10-2020 to 18-10-2020. 20 Being carried out by Mangrove Foundation	341 NA		Mangrove foundation report has been submitted separately.
7	Hydrology	Flooding situation	4 Times / Year	Criteria for evaluation Project activities and structures does not cause flooding and impacts on tidal conditions	Monitoring of flooding situation	No Flooding	No Flooding		
8	Topography and Geology	Conditions in embankment area	4 times / year x 4.5 years	Criteria for evaluation Embankment shall be stabilized without any landslide and cracks	Monitoring of embankment	No changes in the embankment noticed	Shivaji Nagar	Chirke	Rock filling activity is carried out as per agreement.
9	Local conflict of interests	Construction workers township	4 times / year x 4.5 years	Criteria for evaluation Employment opportunity shall be provided fairly Number of hired workers by community Criteria for evaluation Infection disease rate shall not be caused by the project	Monitoring of embankment	No changes in the embankment noticed	Shivaji Nagar Camp Site around 1000	Chirke 125-150	



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Monitoring Period - Jan - March 2023

1. Environmental Monitoring during Construction for 4.5 years

Other	Infectious diseases such as HIV/AIDS patient	Number of infected patient	2 Locations (major camp site in Sewri and Shivaji Nagar)	4 times / year x 4.5 years	Confirmation of health check record and inspect project site	Doctor on call checks site specific infections, minor and major incidents, 24x7 ambulance service available, ERT team with trained first aiders available	Regular health check-ups are done. In-house doctors are appointed at site and labour camps along with Male nurses, Trained first aiders and 24x7 ambulance services.	Regular Health check up is carried out by site Doctor.	
10					Criteria for evaluation "Building And Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1968", "The building and other construction worker's welfare cess Act, 1998" and "Performance Standard 2 Labor and Working Conditions"	Distribution of Safety kits to 225 Workers Medical Camp organised, wherein > 500 workers were consulted. 220 No. of Malaria tests carried out. Glucose Distribution at Site during Summer Season for workers. Stress Play for workers. Health Talk by Dr. Akshay Shah Haemato Oncology on Hazards of Smoking & Chewing Tobacco and Preventive Measures. Inner health incentive program with coordination with Bhramakumars Samstha.	Shivaji Nagar Camp Site	Gavan Camp site	
11	Labour Environment	Construction worker's condition	2 Locations (major camp site in Sewri and Shivaji Nagar)	2 times / year x 4.5 years	Site Visual Inspection	Weekly site inspection	Conforming with BOCW Act 1998	Conforming with BOCW Act 1998	
12	Accident	Number of accidents	2 Locations (major camp site in Sewri and Shivaji Nagar)	4 times / year x 4.5 years	Criteria for evaluation Any accidents are not caused by construction	Sewri Site	Shivaji Nagar Camp Site	Chief/Other area	
					Number of recorded accident	1	Nil	Nil	



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

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

Land acquired by MMRDA – 108.4379 ha

Land in possession of MMRDA – 106.3542 ha

Balance land under acquisition – 0.3937 ha

Note: The acquisition of 0.3937 ha of ROW land is in progress and likely to complete.

ROW Land Required in ha (for Package-3)	ROW land acquired by MMRDA In ha	ROW Land in possession of MMRDA in ha	Balance ROW to be handed over (Possession to be taken + Under acquisition)	Anticipated date for 100% ROW Land Acquisition	Remarks
108.4379	108.0442	108.0442	2.0837 (1.6900+0.3937)	31-1-2023	The payment status to the land owners is awaited from CIDCO. The same would be communicated to JICA on receipt of the same.



Attachment 2-8

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

1. General Information

a. RAP Implementation Monitoring Progress Status Report (PSR) for the 4 th quarter of 2022- 2023	Results:	31-03-2023
b. Date of Preparing This form		
c. Person Preparing This form	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)	231Hhs	Titleholders: 0 Hhs
		Non-titleholders: 231Hhs
Total PAPs	1,282 persons*	Titleholders: 0 persons
		Non-titleholders:1,282 persons*
PAHs who need relocation (as residents)	231Hhs	Titleholders: 0persons
		Non-titleholders:231 (1,088persons) *
PAPs who do not need relocation (as residents)	0 persons	Titleholders: 0 persons
		Non-titleholders: 0 persons
Commercial PAPswho need relocation	66 (194persons) *	Titleholders: 0 persons
		Non-titleholders:66(194persons) *
Commercial PAPswho 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.



Structures

Structures	Residential:231 Commercial:65 Residential + Commercial: 1 (counted in Commercial) Community:9 (Religious Properties 6, Public Toilets3) Government:16 (MbPT Structures 9, Occupants of Leased Plots 6 & Police Chowki 1) Total: 322
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2.2 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 232 nos C1 category fishermen are transferred to Commissioner of Fisheries in 2017-22.
C2: Fishing Stakes and Nets within 500 m. of RoW (Southern side)	268	493	761	1. Funds for 704 nos C2 category fishermen are transferred to Commissioner of Fisheries in 2017-22. 2. 57 nos C2 category fishermen are verified and disbursement in process.
C3: Hand Pickers	1492	4040	5532	Funds for 5229 nos of C3 category fishermen are already transferred to the Commissioner of Fisheries and the balance of 302 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	Will be observed during the construction period	Will be observed during the construction period	—	Nil



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Operating Costs)				
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

2.3 Land Acquisition / Transfer

Location	Land Required in Ha.	Land Acquired in Ha.	Balance ROW to be Handed over in Ha	Remarks
Sewri	10.089	10.089	0	
Navi Mumbai	108.4379	108.0442	2.0837	1.69 Ha yet to over to the Contractor & 0.3937 Ha is under acquisition
Total	118.179	118.1332	2.0837	

3. Monitoring Results

3.1 Sewri Section

Activity	Indicator	Total Target	Progress till Last Quarter	Progress during reporting Quarter	Cumulative Progress till Current Quarter	Cumulative Achievement of Total Target (%)	Remarks, If Any
Resettlement	No. of Residential PAHs provided with Allotment Letters of Alternate Tenements	231	226	0	227	98%	
	No. of Residential PAHs given possession of Alternate Tenements	231	226	0	227	98%	



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Activity	Indicator	Total Target	Progress till Last Quarter	Progress during reporting Quarter	Cumulative Progress till Current Quarter	Cumulative Achievement of Total Target (%)	Remarks, If Any
	No. of Commercial/R+C PAPs provided with Allotment Letters of Alternate Shops/Tenements	66	62	0	62	94%	
	No. of Commercial R+C PAPs given possession of Alternate Shops/Tenements	66	62	0	62	94%	
	No. of Occupants of MbPT Leased Plots provided Compensation	6	6	0	6	100%	
	No. of Religious properties Relocated / Removed	6	6	0	6	100%	
	No. of Other Community properties Relocated / Removed	4	4	0	4	100%	
	No. of Structures in possession of MbPT Dismantled / Cleared	9	9	0	9	100%	
	No. of PAHs/PAPs provided Shifting Charges / Arrangement	297	0	0	0	0%	
Rehabilitation	No. of PAHs / PAPs identified for Livelihood Support in Post Resettlement Assessment						



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



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Activity	Indicator	Total Target	Progress till Last Quarter	Progress during reporting Quarter	Cumulative Progress till Current Quarter	Cumulative Achievement of Total Target (%)	Remarks, if Any
	No. of CHSs' Office Bearers provided training						

SUMMARY OF FISHER FOLKS OF MTHL PROJECT (Influence Zone of 24 villages)						
Up to 31-03-2023						
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	77	604	809
13	Moha	475	22	25	134	181
14	Mora	818	0	102	375	477
15	Morave	539	14	21	88	123
16	Nhava	1646	0	32	307	339
17	Sarsole	266	0	30	83	113
18	Sewri	305	0	1	72	73
19	Shelghar	241	0	0	15	15
20	Shivajinagar	202	1	4	61	66
21	Trombay	1208	49	219	823	1091
22	Ulwe	218	1	3	14	18
23	Uran & Hanuman Koliwada	683	0	11	600	611
24	Vahal	411	0	2	1	3
Total		15097	232	865	5548	6645



QPR No. 24 (Jan to March 2023) Attachment 2-8

Total applications	15097
Duplicate/Repeated Application	2428
Net Applications	12669
Approved applications	6645

Grievance Redressal Committee (GRC) for Fisher-folk Compensation

No. of Cases referred to GRC	No. of Cases		No. of Cases Rejected	No. of Cases under Consideration
	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 - 761 Nos and C3- 5532 Nos are approved.</p>	23-12-2015	<p>Up to 31-03-2023</p> <p>1. Total up to date applications scrutinized = 12669 Nos. 2. Eligible = 6645 Nos. 3. Rejected = 6024 Nos.</p>
	Validation of compensation plan	Fisher-folks Compensation Committee (FCC)	23-12-2015	<p>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.</p>



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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: -

ROW Land Required in Ha.	ROW Land Acquired by MMRDA in Ha.	ROW Land in Possession of MMRDA in Ha	Balance Land to be acquired in Ha	Anticipated date for 100% ROW Land Acquisition	Remarks
108.4379	108.0442	108.0442	0.3937	30-4-2023	



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	Dec. 2022
2.6	Notice of PAPs for shifting (Sewri Section)	December 2018	Nov. 2021
2.7	Allotment of dwelling units to PAPs	September 2016	Dec. 2022
2.8	Shifting of PAPs to resettlement Colony	December 2018	Nov. 2021
2.9	Transfer of compensation/allowance/ assistance to PAPs	December 2018	Dec. 2022
2.10	Creation of Community Revolving fund (within 3 months post handing over)	April 2019	March 2023
2.11	Assessment of economic rehabilitation needs by individual household (within 6 months after handing over)	September 2019	March 2023
2.12	Registration of Co-operative housing societies transfer of maintenance funds. (6 months period)	December 2019	April 2023
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 March 2023

