Initial Environmental Examination

Document Stage: Draft Project Number: 49107-005

July 2019

IND: Tamil Nadu Urban Flagship Investment Program (Tranche 2) – Dedicated Water Supply Scheme for Madurai Municipal Corporation from Mullai Periyar River at Lower Camp PART C

Prepared by Madurai Municipal Corporation for the Asian Development Bank.

This draft initial environmental examination is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature. Your attention is directed to the "terms of use" section on ADB's website.

In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, the Asian Development Bank does not intend to make any judgments as to the legal or other status of any territory or area.



mage © 2018 digital@ 66em

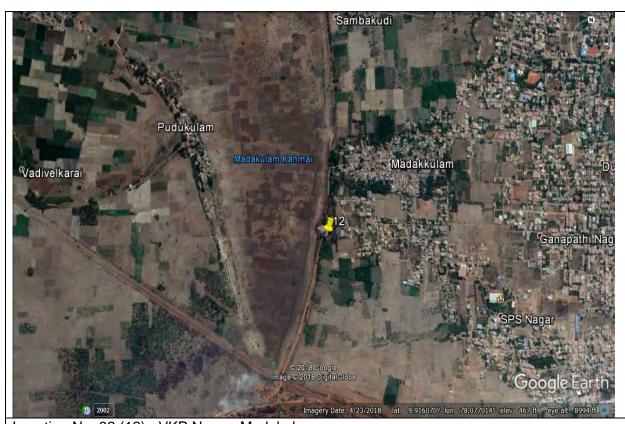
Arappalayam

Madural

Google Earth

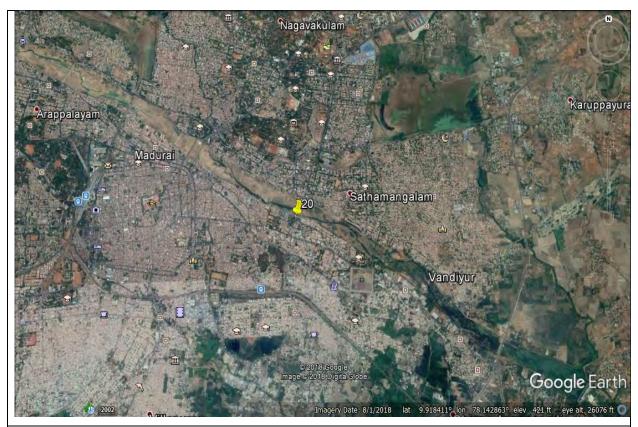
Imagery Date: 4/23/2018 lat 9.941984° lon 78.082381° elev 481 ft eye alt 31715 ft Cocation No: 31 (13) - Kochadai back side of Pumping station

Karadipatti Nagamalai Puthukottai





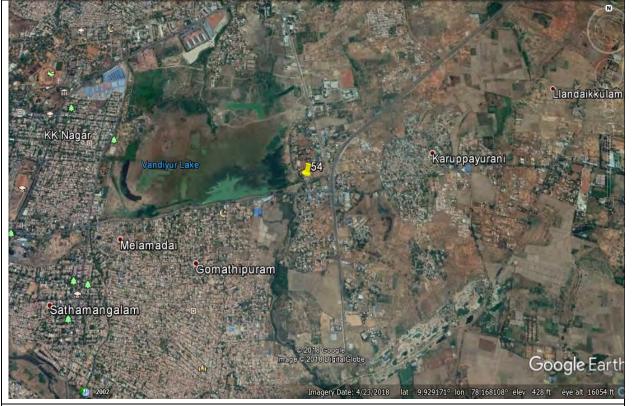
Location No: 33 (10) - Arappalayam Two wheeler Parking







Location No: 36 (53) - Ulaganeri - NZ 11 (Ward - 28)



Location No: 37 (54) - Pandian Nagar - NZ12

Public Consultation at Overhead tank locations

A total of 36 OHT locations has been identified for water distribution under the "**Dedicated Water Supply Scheme for Madurai Municipal Corporation from MullaiPeriyar at Lower camp**". Out of 36 OHT's, 14 OHT locations were identified for conducting public consultations, which was held from 13 February 2019 to 15 February 2019. The locations were selected based on the presence of sociallyimportant locations including the public park area, playground, burial ground, temples etc., consultation was held. The outcome of the consultation has been discussed in the following tables.

I. Minutes of meeting for "Dedicated Water Supply Scheme for Madurai Municipal Corporation from Mullai Periyar at Lower Camp" held on 13 February 2019

		Outcome of the		
S.		Consultation		
N.		and	Response	
0	Participants	Discussions	from PIU	Photographs
1.	OHT # 14 and 15	In general, the		S. C. S.
l	OHT Location: TVS	proposal has		
	Park Sathyasai	been welcomed		
	Nagar	by the local		
	ragai	people and they		
	M. Maheshwari, K.	have shown		
	Marreswari, M.	unanimous		
	Barani, M. Sweety,	support for the	It was	
	R. Ghanam, K.	project	informed	
	Selvarajan, L.	• There is no	by the PIU,	
	Alagiriraj, P.S.	objection	that the	
	Pandiyan, S.G.	for the	work shall	
	Palsamy, K.	constructio	be	
	Alagarsamy, T.K.S.	n of the	completed	
	Omana,	OHT in the	within two	
	omana,	Public	years from	
	N.V. Dhayarathi –	Park.	the date of	
	HM (TVS - HSS)	T GIN.	contract	
	P. Jeyanthi – HM	What		
	(TVS - HSS)	would be		
	,	the project		
		completion		
		date?		
2.	OHT# 47	It was informed	It was	
	OHT location:	that the area is	assured by	
	Vellakal	facing irregular	the PIU to	
	Rasuthevar, Pandi,	water supply	construct	
	M. Karunanithi, P.	and hence it	the OHT at	
	Arunachalam, T. Raj	was requested	the earliest	
	kumar, P. Prabhu, S.	to construct the	so as to	
	Renugadevi, J.	OHT at the	facilitate	
	Pasumpon, R.	earliest so as to	the regular	
	Jeyanthimala, P.	get regular	water	
	Malliga, A.	water	supply	
	Meenakshi,			
	Murugayi, Chitra			

S. N o	Participants	Outcome of the Consultation and Discussions	Response from PIU	Photographs
	Ponnammal, Petchi, Pandiyammal, Reyalakshmi, T. Shanmuganathan			
3.	OHT# 48 OHT location: Harvipatti S. Mariappan, G. Elankumaran, M. Ayyavu, K. Murugan, S. Ramalakshmi, K. Muthu, K. Amutha, P. Ellappan, Ganguly, G. Ramakrishnan, A. Jayabalan, M. Sangaiya, L. Raja murugan, P. Saravanapandi, S. Babu, G. Magudapathy, S. Pathiban (VIII A), G. Chandran (VIII A), R. Ramar, R. Lakshmanan, S. Dharun, K. Manikandan, S. Sanjay Kumar, S. Vetrivelan, R. Harivignesh, R.P. JeevaRagavan	It was informed that due to irregular water supply, there is scarcity of water for drinking purposes and hence the local people have requested to construct the OHT at the earliest. However, it was suggested to shift the location of the OHT near to an existing one, so as to provide space for the children to use it as a play area. It was requested to have proper barricading/fence to prevent children's entering the OHT area. It was suggested not to have borewell in the area	The PIU have accepted the request and assured that the new OHT shall be constructe d near the existing one and it will be properly barricaded to prevent the children's entering the site. It was assured that there borewell will not be constructe d in the OHT area	

S. N		Outcome of the Consultation and	Response	
0	Participants	Discussions	from PIU	Photographs
4.	OHT# 50	Similar	The PIU	
	OHT location:	toHarvipatti	have	
	Balaji Nagar	area, due to	accepted	
	A.A. Sethuram, P.	irregular water	the request	
	Rajendran, V.	supply, the	and	
	Ganapathi, N. Shanmugasundaram	regular activities are getting	assured that the	
	, K. Palanikumar,	hampered.	OHT shall	
	A.J. Abdul nazeer,	Hence, the local	be located	
	R. Amuthavalli, T.	people have	inside the	
	Murugan, V.	requested the	Public park	
	Ganesh, G.	PIU to construct	·	
	Janarthanan	the OHT at the		
		earliest to solve		
		the water		
		related issues		
		and also they		
		have requested		
		the PIU to shift		
		the OHT inside		
		the public park		

Minutes of meeting for "Dedicated Water Supply Scheme for Madurai Municipal Corporation from Mullai Perivar at Lower Camp" held on 14 February 2019

	Corporation from Mullai Periyar at Lower Camp" held on 14 February 2019					
		Outcome of				
		the				
S.		Consultation				
N		and	Response			
0	Participants	Discussions	from PIU	Photographs		
1.	OHT# 19	The local				
	OHT location:	community				
	Vaalaithoppu	have				
	Corporation	requested the				
	Ground	PIU to				
		construct the				
	G. Kumar,	OHT and to				
	Arumugam, V.	provide water				
	Jayarani,	supply at the				
	Pandiamma, A.	earliest				
	Kalieeswari, M.					
	Pooppandi, R.					
	Senthoorpand, A.					
	Kalleswari, N.					
	Katturaja and S.					
	Murugan					
2.	OHT# 21	The local	It was			
	OHT location:	community	assured by			
	Meenakshi Nagar	have	the PIU that			
	I Nogoroj C	requested the PIU to	the PAP's shall be			
	L. Nagaraj, S. Vargeeshbabu, S.	construct the				
	Kannan, Shanthi,	OHT and to	compensated as per the			
	Mary, M.	provide water	provisions			
	Savarimuthu,	supply at the	given in the			
	Lakshmanan, A.	earliest	RP			
	Andisami and	Gariicsi	131			
	Kuruvammal	For the PAP's				
	Rafavailillai	who are				
		losing the				
		structures are				
		requested for				
		appropriate				
		compensation				
L			l			

		Outcome of		
		the		
S.		Consultation	_	
N	Doutioinonto	and	Response	Dhata wan ba
o 3.	Participants OHT# 36	One of the	from PIU PIU have	Photographs
٥.	OHT location:	PAP have	informed that	
	Island Nagar	stated that he	notice has	
	ioiana raga	is a fisherman	been issued	
	M. Ramu, C.	depending on	well in	
	Vetrivel, M.	the nearby	advance for	
	Navaneeth, M.	water tank for	vacating the	
	Ramkumar, PA.	fishing.	place. For the	
	Muthupandi, S. Balamurugan,	However, due to the scarcity	loss of the structure,	
	C. Dhayalammal, D.	of water in the	compensatio	
	Jenifer, R.	tank, he opted	n has been	
	Rathinam, S.	for an	provisioned	
	Yasmai and	alternate job	in the RP,	
	Thangam	(mosaic	PIU have	
		polishing).	assured that	
		Due to his	the PAP shall be	
		absence, his house was	compensated	
		demolished	as per the	
		without prior	provisions of	
		information/	RP.	
		notice.		
		Few of the	The PIU have	
		local	assured that	
		community	2 m width	
		members	approach	
		have	road to the	
		requested for	temple shall	
		an approach	be provided	
		leading to the	for the benefit of the	
		nearby temple.	local people.	
4.	OHT# 38	The local	TOTAL POOPIO	
	OHT location:	community		
	Shenpagathottam	have		
		requested the		
	A. Varusaimohamed,	PIU to construct the		
	A. Ninalan and J.	OHT and to		
	Gabriel	provide water		
		supply at the		
		earliest		
				3

S. N	Participants	Outcome of the Consultation and Discussions	Response from PIU	Photographs
5.	OHT# 41 OHT location: ChinnaAnuppanad i K. Abimani, Vinoth, S. Santhosh, Kumar, N. Amir abbas, R. Vasanth, K. Kandavelpandian, D. Karthikeyan, M. Sathasivam, K. J. Lalitha, T.G. Savithiri, Chellammal, N. Uma, E. Kiruba, M. Kannan, S. SanthanaShanthi, I. Sahayarajan and S. Suresh	The local community have no objection to the construction of the OHT. However, they have requested the PIU to construct the OHT in such a way not to disturb the children's playing activity. Few have also commented that they don't want to have borewell in that location	It was assured by the PIU that the playing activity will not be disturbed during the construction activities. The PIU have clarified that there is no provision to have borewell in this project. The water shall be sourced from Mullaiperiyar dam (not groundwater)	

Minutes of meeting for "Dedicated Water Supply Scheme for Madurai Municipal Corporation from MullaiPeriyar at Lower Camp" held on 15 February 2019

	Corporation from MullaiPeriyar at Lower Camp" held on 15 February 2019					
S.		Outcome of				
No		the				
		Consultation				
		and	Response			
	Participants	Discussions	from PIU	Photographs		
1.	OHT# 42	The local	PIU have			
	OHT location:	community	assured to	21982		
	GurunatharKoil –	have	provide	. 287		
	Chinnthamani	supported the	compound	1		
		project and	wall /			
	S. Chitra, S.	requested the	fencing			
	Vijayalakshmi, T.	PIU to provide	surrounding			
	Mary Joyce, P.	compound	the OHT.			
	PandiSelvan, V.	wall				
	SethuMadhavan,	surrounding		A A		
	S. Ganeshan and	the OHT for				
	V. Ram	safety				
		purposes.				
2.	OHT# 25	The local				
	OHT location:	community				
	Semparuthi	have				
	Nagar	supported the				
		project and				
	C. Prasath, P.	requested the				
	Jeyaprakash, P.	PIÚ to				
	Nagajothi, S.	construct the				
	Shanthi, K.	OHT.				
	Maheswari, A.					
	Gayathiri, A.					
	Sakthivel, Sam					
	George, M.					
	Hemalatha, R.					
	priya, R. Raja, M.					
	Gurusamy, R.					
	Lakshmi and K.					
	Muthulakshmi					
3.	OHT# 32	The local				
	OHT location: EB	community				
	Colony	have				
		supported the				
	P. Manimaran, P.	project and				
	Premalatha, S.	have				
	Steeladevi,	requested the				
	Arammal, S.	PIÙ to				
	Senthilvel, V.	construct the		2		
	Pirathaban,	OHT.				
	Karuppasamy, P.					
	Arivalagan, T.					
	Jeyakodi and P.					
	Madasamy					
<u> </u>		1	<u> </u>			

S. No	Participants	Outcome of the Consultation and Discussions	Response from PIU	Photographs
4.	OHT# 34 OHT location: Bharath Nagar P. Muthuraman, P. Moorthy, J. Hasanbanu and A. Chellama	The local community have supported the project and requested the PIU to construct the OHT.		
5.	OHT# 37 OHT location: Poriyalar Nagar Naveen Yasav, M.A. Shanmugam, K. Karuppiah and S. Vijayalakshmi	The local community have supported the project and requested the PIU to construct the OHT. However, the community have raised a query regarding the technology used in the construction of the OHT. Because, due to the soil instability one of the house got damaged and it was recently renovated.	PIU have clarified the query with respect to the technology used for the construction of the OHT.	