### Semi-Annual Environmental Monitoring Report

Project number: 37378-014

Period: July - September 2018 Submission Date: January 2019

### SRI: Jaffna and Kilinochchi Water Supply Project-Additional Financing

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### JAFFNA KILINOCHCHI WATER SUPPLY AND SANITATION

### NATIONAL WATER SUPPLY & DRAINAGE BOARD

# ANNUAL REPORT ON ENVIRONMENTAL MONITORING- 2018

Project Management Coordination and Implementation Unit

Jaffna Kilinochchi Water Supply and Sanitation Project

National Water Supply & Drainage Board

No.127, MPCS building 1st Floor, K.K.S Road, Jaffna

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### 1. INRTODUCTION

Jaffna Kilinochchi Water Supply and Sanitation Project (JKWSSP) was launched in year 2009 with a total cost of US\$ 164.04 million (US\$ 90 million from ADB, US\$ 48 million from AFD France and the balance US\$ 26.04 million being the Government contribution). The objective of the project is to improve the health standard and the enhancement of the standards of living of the people in Jaffna peninsula and to support the resettlement and economic development and social welfare of the entire Northern Province. The project was designed to provide safe drinking water to 300,000 people in water scares areas of Jaffna and Kilinochchi districts and to provide pipe borne sewerage facilities for around 80,000 people in Jaffna Municipal Council area. The initial design of the drinking water scheme was entirely dependent on abstracting water from Iranaimadu Tank but the progress of the project was hampered due to a dispute over water sharing between drinking water requirement and irrigation needs. As consensus could not be reached for sharing water for drinking process due to social and political reasons the Iranaimadu source has to be suspended after lengthy negotiations process which ran over a period of 2 years (2013/14) involving farmers, Provincial Irrigation Department, Northern Provincial Council and the Central Government.

It has been concluded that desalination option combined along with a limited ground water abstraction is the most technically suitable and economically viable option to serve the immediate water need. As a result of restructuring of project the AFD (the co-financing partner) had withdrawn its funding amounting to 35 million euros, dedicated for Iranaimadu based Water Treatment Plant (WTP) and Raw Water conveyance from Iranaimadu Tank to WTP and ADB decided not to fund for Sewerage Component of the project.

After in-depth technical studies and a lengthy evaluation process the consensus has finally been reached to construct a Desalination Plant with 24,000 m³/day capacity at Thalayadi village (Vadamaradchi East DS division) in Jaffna district. All technical, financial, social safeguard studies have been carried out. The donor agency ADB and the Northern Provincial Council have extended their cooperation and now all stakeholders consider the Desalination as the most viable and practical option under the current circumstances. The ADB is committing funds for the Desalination Plant, treated water transmission and the distribution network in Jaffna Municipal Council area and Jaffna Peninsula to cover around 300,000 people with pipe borne drinking water supply. Apart from already committed US\$ 90 million ADB is extending additional financing of US\$ 120 million for this purpose.

ADB has classified the project as environmental Category A (the highest category), because it involves construction and operation of a large industrial complex at a coastal green field site and is therefore expected to have significant adverse impacts. An EIA study was conducted between December 2015 and July 2017 by Lanka Hydraulic Institute Ltd. The study and report are intended to comply with ADB's Safeguard Policy Statement (SPS) 2009, and it is anticipated they may also fulfil the requirements of Sri Lankan EIA law.

EIA approval had been obtained from Central Environmental Authority on 2.06.2017 and ADB approval also obtained for the same.

### 1.1 Scope of the Project

The details of Contract packages in Original loan component and Additional Financing component are given below.

### The following contract packages are coming under Original loan – 90 Million US\$

- AGM building & Quarters 02 Packages
- Distribution network Package 01 DN 1
- Distribution network package 02 DN 2 (part)
- Elevated water Tower 01 ET 1
- Elevated Water Tower 02 ET 2
- Elevated Water Tower 03 ET 3
- Treated water Transmission Main TWTM 1
- Treated Water Transmission Main TWTM 2
- Electro Mechanical & SCADA
- Works under Maruthankerny Development
- Project Engineering Institutional Consultancy PEIC

# The following contract packages are coming under additional financing – 120 million USD

- SWRO plant
- Distribution package 02 (Balance)
- JMC area Distribution network
- Consultancy for supervision of SWRO PMSC
- Consultancy for Social and Environmental Monitoring SWRO -EMC
- Elevated water Tower and Water Distribution Package 04



Fig 1.1: Project implementing area

### 1.2 Environmental category as per ADB Safeguard Policy Statement, 2009

Under ADB guidelines SWRO plant is Category A project, and other all of the sub packages category as B.

### 1.3 Environmental category of each subproject as per national laws and regulations

Under the National Environmental Act (NEA) No 47 of 1980, SWRO plant is category I and other all of the sub packages category as III.

### 1.4 Project Safeguard Team

Nam	Designation/Office	Email Address	Contact	Roles
e			Number	
	Project Director	pdjkwssp@gmail.com		
	Deputy Project Director	malathycejkwssp@gmail.com		
	Chief Engineer	balendrajkwssp@gmail		
		.com	0212220256	
1.PMCIU	Senior Engineer	vijayjkwssp@gmail.co	0212220230	
		m		
	Chemist	s.thas13@gmail.com		
	Sociologist	mayabala_1985@yaho		
		o.com		

### 1.4Overall project and sub-project progress and status

		Contrac t status	Status of Implementa tion		u — going struction
Package No	Components / List of Works	(specify if under bidding or contract awarded ) (Preliminar y Design / Detailed Design / On - going Constructio n / Co		% Physica I Progres s	Expected Completio n Date
	Water Treatme	nt Plant			
PEIC/JKWSSP/SEA WATER REVERSE OSMOSIS PLANT/2015/01	Design, Build and Operate a Sea Water Reverse Osmosis Desalination Plant of 24 MLD Capacity at Thalaiyadi, Jaffna District (SWRO Desalination Plant)	Under b	id evaluation		
PEIC/JKWSSP/TWTM/ 2013/01	Supply and Laying of Treated Water Transmission Mains from Palai Water Treatment Plant and Construction of Two Treated Water Sumps at Nallur and Meesalai	Contract Awarded	On – going	80.03 %	31.01.2019
PEIC/JKWSSP/TWTM/ 2014/02	Supply and Laying of Treated Water Transmission Main and Construction of Three Treated Water Sumps at Kallundai, Pungudutivu and Poonakary	Contract Awarded	On – going	85.20 %	28.02.2019
	Elevated Water	Towers	L		
PEIC/JKWSSP/WATE R TOWERS/2013/01	Construction of Water Towers at Puttur, Meesalai, Poonakari, Navatkuly, Kaddudai, Velanai and Mandaitivu	Contract Awarded	Substantially Completed		Final bill is in progress
PEIC/JKWSSP/WATE R TOWERS/2013/02	Construction of Water Towers at Palai, Kodikamam, Nallur, Karainagar, Pungudutivu, Kayts, Vaddukkodai and Jaffna Municipal Council(Old Park) – Package 02	Contract Awarded	Substantially Completed		Final bill is in progress
PEIC/JKWSSP/ Water Towers/2017/01	Construction of Water Towers at Pommaveli, Karaveddy, Nainathivu, Analaithivu and Eluvaithivu	Under bid evaluation			

	Distribution Netwo	rks Systems	s			
PEIC/JKWSSP/NETW ORK/2013/01	Supplying and Laying of Water Distribution Network in Kayts, Velanai &Mandaitivu	Contract Awarded	Substantially Completed		Final bill is in progress	
PEIC/JKWSSP/Network/2014/02	Supplying and Laying of Water Distribution Networks in Palai, Kodikamam, Meesalai, Poonakary, Puttur, Nawatkuli, Karainagar, Pungudutivu, Vaddukkodai, Kattudai, Nallur Zones, JMC Transmission Pipeline & Construction of Office/Stores, Quarters at Velanai, Kaddudai, Navatkuli, Pokkanai, Poonery and Karaveddy	Contract Awarded	On – going	Mobiliz ation in Progress	02.12.2020	
PEIC/JKWSSP/Distribu tion Networks /2017/01	Supplying and Laying of Water Distribution Networks in Jaffna City Area.	Under bid evaluation				
	Building	S				
	Construction of Quarters at Meesalai and Consultancy Service of Architectural Design & Supervision and Construction of New Building for AGM (N) ,RM (J)	Completed			Hand over to O&M section, NWSDB	
Jaffna - Equipment						
PEIC/JKWSSP/M&E/2 017/01	Supplying and Installation of Mechanical, Electrical, Instrumentation, Control Components and SCADA System	Under document evaluation				

# 2. COMPLIANCE STATUS WITH NATIONAL /STATE/LOCAL STATUTORY ENVIRONMENTAL REQUIREMENTS

Package No.	Subproject Name	Statutor y Environ mental Require ments <sup>1</sup>	Status of Compli ance <sup>2</sup>	Validit y if obtaine d	Actio n Requ ired	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish <sup>3</sup>
PEIC/JKWSSP/ Sea Water Reverse Osmosis Plant/2015/01	Design, Build and Operate a Sea Water Reverse Osmosis Desalination Plant of 24 MLD Capacity at Thalaiyadi, Jaffna District ( SWRO Desalination Plant)	CEA conditions will be implemented during annexed in the Annexure 1).  The validity is obtained up to 1.6.2021				
PEIC/JKWSSP/ Distribution Network/2017/ 01	Supplying and Laying of Distribution Networks in Jaffna City Area	Under bid evaluation stage				

### 3. Compliance status with environmental loan covenants

No. (List schedule and paragraph number of Loan Agreement)	Covenant	Status of Compliance	Action Required
Schedule V – Paragraph 2	The Borrower through the MCPWS shall ensure that the preparation, design, construction, implementation, and operation of the Project and all Project facilities comply with (a) all applicable laws and regulations of the Government relating to environment, health and safety; (b) the Environmental Safeguards as set out in the SPS; and (c) all measures and requirements set forth in the EIA, the EMP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.	Under bid evaluation	

<sup>&</sup>lt;sup>1</sup> Specify (environmental clearance? Permit/consent to establish? Forest clearance? Etc.)

<sup>&</sup>lt;sup>2</sup> Specify if obtained, submitted and awaiting approval, application not yet submitted

<sup>&</sup>lt;sup>3</sup> Example: Environmental Clearance requires ambient air quality monitoring, Forest Clearance/Tree-cutting Permit requires 2 trees for every tree, etc.

# 4. Compliance status with the environmental management plan (refer to EMP tables in approved IEE/S)

Package	Fi	inal IEE based or	n Detailed De	sign	Site-specific	Remarks
Number	Not yet due	Submitted to	Disclosed	Final IEE	EMP (or	
	(detailed	ADB	on project	provided to	Construction	
	design not	(Provide Date	website	Contractor/s	EMP)	
	yet	of	(Provide	(Yes/No)	approved by	
	completed)	Submission)	Link)		Project	
					Director?	
DEICHIANG					(Yes/No)	
PEIC/JKWS						
SP/						
SWRO	Un	der bid evaluation	on			
PLANT						
/2015/01						
PEIC/JKWS		_	_			
SP/Distributi						
on	Un	der bid evaluati	on			
Network/201						
7/01						

4.1 For each package, provide name/s and contact details of contractor/s' nodal person/s for environmental safeguards.

### Package-wise Contractor/s' Nodal Persons for Environmental Safeguards

Package Name	Contractor	Nodal Person	Email Address	Contact Number				
Design, Build and								
Operate a Sea								
Water Reverse								
Osmosis								
Desalination Plant								
of 24 MLD		Under hid evaluation						
Capacity at		Under bid evaluation						
Thalaiyadi, Jaffna								
District ( SWRO								
Desalination Plant)								
Supplying and	_	_	_					
Laying of								
Distribution								
Networks in Jaffna		Under bid evaluation						
City Area								

# 4.2 With reference to approved EMP/site-specific EMP/construction EMP, complete the table below

### Summary of Environmental Monitoring Activities (for the Reporting Period)<sup>4</sup>

Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring
se					
Reverse					
salination					
MLD Capacity					
i, Jaffna			<b>Under bid</b>	l evaluation	
Plant)					
nd Laying of					
Area			<b>Under bid</b>	l evaluation	
action Phase					
n Phase					
Phase					
	Measures (List from IEE)  See d and Operate Reverse salination MLD Capacity i, Jaffna /RO Plant) nd Laying of Networks in Area uction Phase	Measures (List from IEE)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitored (As a minimum those identified in the IEE should be minimum those identified in the IE	Measures (List from IEE)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitoring  Monitoring  Monitoring  Monitoring  Monitoring  Monitoring  Monitoring  Monitoring	Measures (List from IEE)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitoring  Monitoring	Measures (List from IEE)  Monitored (As a minimum those identified in the IEE should be monitored)  Monitoring Conducted  Monitoring Conducted  Work  Work

<sup>&</sup>lt;sup>4</sup> Attach Laboratory Results and Sampling Map/Locations

### Overall Compliance with CEMP/ EMP

No.	Sub-Project Name	EMP/ CEMP Part of Contract Documents (Y/N)	CEMP/ EMP Being Implemented (Y/N)	Status of Implementation (Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfactory)	Action Proposed and Additional Measures Required
01	Design, Build and Operate a Sea Water Reverse Osmosis Desalination Plant of 24 MLD Capacity at Thalaiyadi, Jaffna District ( SWRO Desalination Plant)	Y		Under bid evaluati	ion
02	Supplying and Laying of Distribution Networks in Jaffna City Area	Y		Under bid evaluati	ion

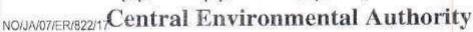
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மத்திய சுற்றாடல் அதிகாரசபை



"සරසර ටියස" 10<sub>7</sub>, ඩෙන්සිල් කොම්බකෙඩුව මාවත, බත්තරමුල්ල, <mark>ශ</mark>ුී ලංකාව,

02.06.2017 13.59 13.59 Farisara Piw

ாந்து டுசு 104, டென்சில் கொப்பேகடுல மாவத்தை, பத்திரமுல்லை, இலங்கை. "Farisara Piyasa" 104, Denzil Kobbekaduwa Mawatha, Battaramulia Sri Lanka. Wab : www.cea.lk Northern Provincial Office, Jaffna, Tel: 021 2224050

0.2 1111 2017

Web : www.cea.lk Northern Provincial Office, Jatha, Tel: 021 2224

Project Director,

Jaffna - Krisochchi Water Supply & Sandation Project,

Jattna:

Environmental Recommendation from Central Environmental Authority for Seawater Desalination

Plant at Thalayady, Maruthankeny

This has reference to the Questionnaire on Environmental Impact Identification and relevant documents dated 23.12.2014 and Shvironmental Study Record prepared by Lanka Hydraulic Institute Ltd. submitted to this Authority on behalf of Jaffna - Kürochchi Water Supery & Sanitation Project on 664 March 2017 for the above subject

According to your latter Not JKWSSP/PMCID/CEA/RO PLANT, dialeg 15.05.2017, the provious Environmental Recommendation saled on 29.03.2017 by this Authority is nevery cancelled Instead, this Environmental Recommendation in respect of the proposed Seawater Desaination Plant at Thalayady, Maruhankery is granted subject to the following terms and conditions, which should be strictly adhered to by the Project Director in order to abate environmental pollution likely to arise from the operation of Sea Water Desaitnation Plant.

This Environmental recommendation is valid only for four years from the date of issue of this letter. The construction work should be completed within this period. Any extension will be considered on recapplication one month prior to expiry of the validity period.

#### Conditions:

### Project Proponent and Location

- 1.1 The Project Orrector Daffna Kilinoclichi Water Supoly & Sanitation Project for Desalination Plant at Thalayady Maruthankeny (hereafter referred to as the Project Proponent) is 'egally bound to ensure the terms and conditions stipulated in this Environmental Recommendation are adhered to and shall not have full control over a third party that may be involve in construction and operating.
- 1.2 The proposed Seswater Desalington plant should be located whilin Let 1 and 2 as shown in the Preliminary Plan Noticol 2779 dated 2017.01.30 of Senior Superintendent of Surveys.

### 32. Noise Control

- 2.1 Noise levels at the boundary of the site during the construction stage should be maintained at or below 755B (A) during day time (between 9800 hrs to 2100 hrs) and at or below 50 dB (A) during hight time (between 21.00 hrs to 96.00 hrs).
- 7.2 Noise levels at the boundary of the site during the operation should be maintained at or below 55dB (A) during day time. (between 06.00 hrs to 18.00 hrs) and at or below 45 dB (A) during night time (between 18.00 hrs to 06.00hrs) as per Gazette Extra Ordinary No: 924/12 dated 23<sup>rd</sup> May 1996.

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Cepncy Director Generals	HRD, Admin & Finance Tel: 2865296 Fax:	2877515	2813453 Fax	-2872N15		: 2872296	Tel: 2872297	& Ayvarianess Division Fax: 2872609
Directors	28/2907 (Admin), 78/ 2872500 (HRD), 7877 2872600 (Admin), 780	288 (Planning)	9599706 (Lab)	2872346 (2 286736) (J Fax : 287	NRM), 25.76643 (EIA) R&D) 2296	E 33.777	200	(Western Province) Tel.: 2892831 Fax: PROSES

### 03. Air Pollution Control

3.1 Dust generated due to vehicle movement, transportation of materials and other construction activities should be minimized by adopting adequate mitigatory measures during constructions period.

### 4.0. Solid waste management

- 4.4. Solid waste arising from any process should be disposed of at regular intervals in consultation with the relevant Local Authority in such way that mere should not be environmental pollution.
- 4.2 Solla waste shall not be burnt within the premises or outside in an open environment.
- 4.3 Discarded RO filters should be stored in safe place and returned to supplier.
- According to the Gazette Extraordinary No: 1486/5 dated 10.10 2006, Polythene or polythene products in thickness 20 micron or less than 20 micron (20µm) shall not be used for industrial or domestic activities.

### 5.0. Waste Water Management

- 5.1. The brine outfall arrangement and diffusor system shall be designed, constructed and operated to allow the salinity to be dissipated rapidly and to reach ambient seawater levels in less than 100 m<sup>-1</sup> from the point of discharge.
- 5.2. Project Proponent should notain dumping permit, thirry days prior to the commencement of operation, to dump treated waste to the sea as per the regulation (Issuance of permits for dumping at sea) of Marine Environmental Protection Authority
- 5.3. Outlet tube/ sampling mannale of the wastewater treatment plant shall always be safe & accessible enabling to collect samples of treated wastewater for analysis at all times to inscenting officers.
- Proper Environmental Control shall be implemented to prevent unineutralized chemicals getting into land surface water or marine environment.
- 6.5. Any correstic wastewater arising from cleaning and washing shall only be released into a properly-designed septic tank and such wastewater shall not be released into storm water drains at any fine.

### 6.0 Sea Water Intake system

- 6.1 Offshore intake structure, grilles and arrangements shall be to minimize and adverse impact to the local fishing community by minimizing entrainment by location of the grilles away from sensitive marine habitats and by generously sizing the intake grilles so that the met velocity is kept low and it allows small fish to swin back without getting sucked into the intake conduit or pipe.
- 6.2. Proper Environmental Control shall be implemented during the deep excavation time for installing seal water conduits and providing foundation for sea water intake pump, buildings, tanks and equipment to prevent excessive drainage of any adulfers.
- 6.3 Sea water intake pipo line should be suitably anomored along the sea bottom profile to minimize grosion.

### 7.0 Sea Water out fall system

7.1 Diffuser arrangement with smooth contours shall be made to mitigate adverse impact to local fishing community.

7.2. Sea water outfall pipe line should be suitably anchored along the sea bottom profile to minimum.

### 8.0 Storm water Management

- 8.1 Removal of trees and shrubs in the proposed site shall be minimized. The construction activity should be carried out in such a way it does not cause any physical damages to the environment like sand deposits, vegetation cover, etc.
- 8.2 A Proper storm water management plan should be prepared in consultation with Sri Lanka Land Reclamation and Development Cooperation and implemented.
- 8.3. Natural drainage network within the site should not be obstructed by any activity of the project.
- 8.4. Suitable soil conservation measures should be adopted during and after construction activities.
- 8.5. Sitt traps should be constructed and properly maintained in order to prevent sill being washed off into Adjacent lands, canal and properties.

### 9.0 Environmental Monitoring

- Environmental Management Plan submitted along with the Environmental Study Report dated on Dec 2016 should be implemented.
- 9.2. A monitoring committee consisting of representatives of Central Environmental Authority (CEA), Coast Conservation and Coastal Resource Management Department, Marine Environmental Protection Authority, Urban Dovelopment Authority, Divisional Secretariat / Vadamaradchi East, Pradeshiya Sabha / Point Pedro and any other members deemed necessary will be appointed by the CEA to monder implementation of mitigationy measures by the Project Proponent.
- 9.3. The Project Proponent shall forward the progress report of Environmental Management Plan (EMP) incorporating the mitigatory measures suggested in the Environmental Study Report dated on Dec. 2016 for every six months.
- 9.4 Suitably trained qualified officeds who would be responsible for implementation of the EMP shall be assigned.
- 9.5. All costs incurred by the monitoring committee appointed by the CEA to over the implementation of the HMP shall be borne by the Project Proponent

#### 10.0 General Conditions

- 10.1 This Environmental Recommendation only covers the Seawater Desaination Plant at Thalayady, Maruthankeny intake and outfail structures and not covers the water distribution system.
- 10.2 Prior approval shall be obtained from Department of Coast Conservation and Coastal Resource Management for the construction of intake and out fall structure and surge chamber within the coastal zone.
- 10.3 Construction and operation of Seawater Desaination Plant shall not affect the local fishing community.

- The health and safety of workers shall be ensured as stipulated in the Factories Ordinance and 10.4 amendments.
- in accordance with section 23 (A) of the National Environmental act No. 47 of 1980 and its 10.5 amendments, one month prior to commencement of operation of the Seawater Desalination Plant the Project Proponent shall submit an Environmental Protection Licence application to the CEA with other necessary approvals.
- Any changes or expansion of the project activities should not be carried out without prior approval 10.6 of the CEA.
- Installation or operation of any machinery other than those stated in the application dated 10.7 23,12 2014 should not be carried out without prior approval of CEA.
- Any additional conditions stipulated by the CEA as and when required for confrolling any kino of 10.8 pollution arising from the operation of the Seawater Desalination Plant shall be strictly achieved to.
- The Environmental Recommendation is issued to carry on only the permitted activities therein, it 10.9 shall not and is not intended to confer the recipient therefore any right to assert ownership to the land where the permitted activities are carried on.

M.A.C. Najeeb Director / Northern Province Central Environmental Authority Central Environmental Authority

Northern Provincial Office Jaffna

Director/Northern Province Northern Provincial Office Jaffna.

Copies:

- Divisional Secretary, Divisional Secretariat, Vademaradchi East, Maruthankeny
- Secretary, Pradeshiya Sabha, Point Pedro
- Director, Environmental Pollution Control, CEA.