

Quarterly Environmental Monitoring Report

Project number: 37378-014

Period: October – December 2019

Submission Date: June 2020

SRI: Jaffna and Kilinochchi Water Supply Project – Additional Financing

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JAFFNA KILINOCHCHI WATER SUPPLY PROJECT
NATIONAL WATER SUPPLY & DRAINAGE BOARD

**FOURTH QUARTER ENVIRONMENTAL
MONITORING REPORT- 2019**

Project Management Coordination and Implementation Unit

Jaffna Kilinochchi Water Supply Project

National Water Supply & Drainage Board

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1. INTRODUCTION

Jaffna Kilinochchi Water Supply Project (JKWSP) 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 enhancement of the standard of living of people in Jaffna peninsula and to support resettlement, 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 scarcity areas of Jaffna and Kilinochchi districts and to provide pipe borne sewerage facilities for around 80,000 people in the Jaffna Municipal Council area. The initial design of the drinking water project was entirely dependent on abstracting raw water from Iranaimadu Irrigation Tank but the progress of the project was hampered due to a dispute over water sharing for drinking water requirement and irrigation needs. As consensus could not be reached for sharing water for drinking purposes due to social and political reasons. Therefore, 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.

As such it was 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 As a result of restructuring of project the AFD (the co-financing partner) had withdrawn its funding amounting to 35 million euros, dedicated for Iranaimadu based Water Treatment Plant (WTP) and Raw Water conveyance from Iranaimadu Tank to WTP and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 of 24,000 m³/day capacity at Thalaiyadi village (Vadamaradchi East DS division) in Jaffna district. All technical, financial and social safeguard studies were 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 providing funds for the Desalination Plant, treated water transmission system 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 the 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 from December 2015 to 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 that they also fulfil the requirements of Sri Lankan EIA regulations. EIA approval for the SWRO had been obtained from Central Environmental Authority on 02.06.2017 and the ADB approval also was obtained for the same.

1.1 Scope of the Project

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 – SEMC

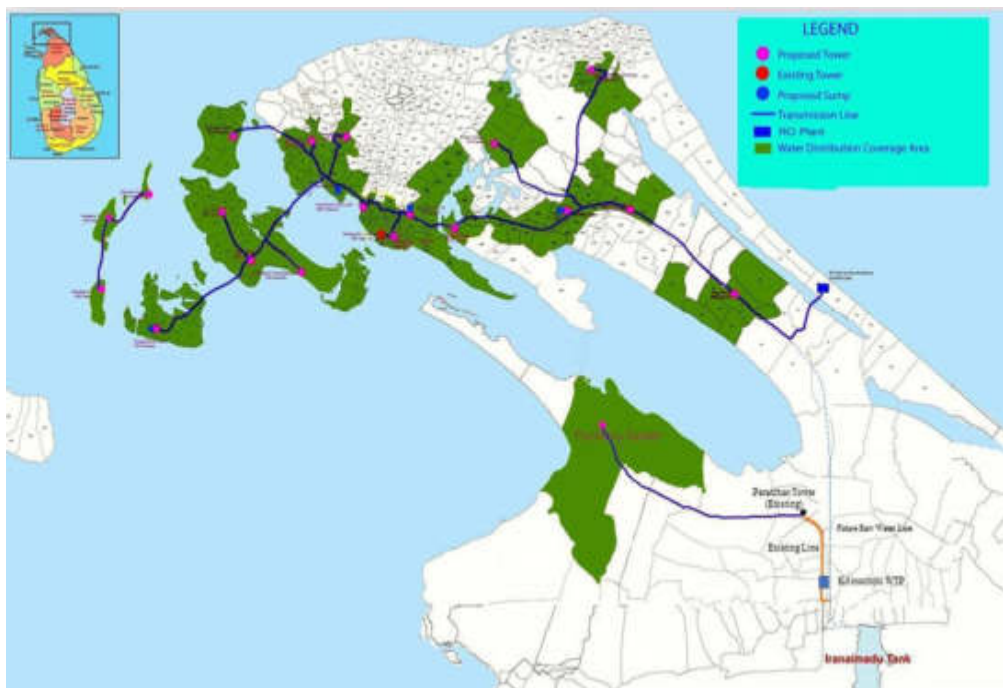


Fig 1.1: Project implementing area

1.2 Environmental category as per ADB Safeguard Policy Statement, 2009

Under the ADB guidelines SWRO plant is a Category A project, and all other sub packages are under category B.

1.3 Environmental category of each sub project as per national laws and regulations

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

2. Environmental Safeguard Team

Name	Name of the Officer	Designation/ Office	Email Address	Contact Number	Roles
PMCIU ¹	T.Barathithasan	Project Director	pdjkwssp@gmail.com	212220256	Review sub-project and activity plan, design, cost, and bid documents to ensure environmental factors and mitigations are incorporated, and sub-project documents and environmental documents are in harmony. PD/DPD/CE /SE are monitoring and checking the reports regularly submitted by Environmental officer assigned for monitoring works.
	S.Malathy	Deputy Project Director	malathycejkwssp@gmail.com		
	R.Balendra	Chief Engineer	balendrajkwssp@gmail.com		
	V.Vijaykanth	Senior Engineer	vijayjkwssp@gmail.com		
	S.Sivathasan	Chemist	s.thas13@gmail.com		Monitor the environmental related issues at the sites during implementation of subprojects and activities, and provide feedback to the PD/DPD/CESE of the PMCIU ² .
	S.Arani	Project Engineer	seearani@gmail.com		
PIU (Contractor Side)	T. Basil Steve	Project Manager	pperera@sierra.lk	112584681 /07187423 06	Review project and activity plan to ensure environmental factors and mitigations are incorporated and environmental documents are in harmony. Monitoring and checking the

¹ Project Engineering and Institutional Consultancy (PEIC) for the Project, a consortium led by Grontmij A/S of Denmark in association with Hifab of Sweden, Green Tech Consultants (Pvt.) Ltd., TMS and the Lanka Hydraulics Institute (LHI) of Sri Lanka has been appointed. Contract of the consultants has been finished and there is not any external monitors engaged for this project except environmental officer of contractor site staff.

² S. Sivathasan – Chemist and S. Arani – Project Engineer assigned for monitoring environmental issues.

					reports regularly submitted by officers assigned for Environmental monitoring works.
		Environmental officer	udayan@sierra.lk	0112-584681	Internal auditing in all sites for monitoring and enforcing health and hygiene legislation. And also investigate when there's an incident, such as pollution, a noise problem, toxic contamination, pest infestation or an outbreak of food poisoning and provide feedback to the PM.
Consultant	S.Thirunavukkarsu	Team Leader (Individual Consultant)	Thirudtladb6@gmail.com	0773521346	Monitoring short coming and taking corrective measure.
Consultancy Firm (PMSC)		Team leader	Negotiation completed and the agreement to be signed. These recruitment will be done after award of the RO plant contract.		
		Environmental Social Compliance Officer			
		Health and Safety Officer			
Consultancy Firm (EMT)		Environmental Compliance Officer	Proposal under review. These recruitment will be done after award of the RO plant contract.		
		Safety Compliance Officer			
		Safety Expert			
		Team Leader/Environmental			

3. Overall project and sub-project progress and status

Package Number	Components/List of Works	Type of Contract (specify if DBO, DB or civil works)	Status of Implementation (specify if Preliminary Design, Detailed Design, On-going Construction, Completed Works, or O&M phase) ³	Contract Status (specify if under bidding or contract awarded)	If On-going Construction	
					%Physical Progress	Expected Completion Date
Water Treatment 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)	DBO	Not yet awarded	Tender notice was advertised on 7th Dec 2016. Pre bid meeting held on 16th Feb 2017 and Bid closed on 17.07. 2017. Technical and Financial evaluation completed. ADB doesn't accept the TEC and PPC decision by the letter dated on 20th June 2019. SCAPC meeting held on 02.07.2019.SCAPC decided to get cabinet approval for further processing & Cabinet Paper submitted. SCAPC requested to submit the revised FBER. SCAPC meeting scheduled on 7 th January 2020.		
Distribution Network Systems						
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	Civil works	Construction is Ongoing.	contract awarded (Awarded (29.10.2018) to M/s Sierra Construction Ltd)	47.90%	02.12.2020
PEIC/JKWSSP/Distribution Networks /2017/ 01	Supplying and Laying of Water Distribution Networks in Jaffna City Area	Civil Works	Not yet awarded	Tender document advertised on 25th July 2018 and closed on 27th September 2018. Technical evaluation completed. Financial evaluation completed and SCAPC decision submitted to ADB. ADB asked clarification and replying for the clarification in progress. NO objection from ADB to be obtained.		

³ If on-going construction, include %physical progress and expected date of completion

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

Package Number	IEE Cleared by ADB (provide date)	Contractor	HSE Nodal Person	Email Address	Contact Number
PEIC/JKWSSP/SEA WATER REVERSE OSMOSIS PLANT /2015/01	<i>The IEE contains an Environmental Management Plan which lists all effects identified in pre-construction, construction and operational phases of each sub-project and describes the recommended mitigation and allocates responsibility for each action. There are also Environmental Monitoring Plans setting out monitoring to be conducted to ensure that all parties provide the mitigation that is their responsibility, that the action protects the environment as intended and to determine the long-term effects of each scheme. If all the mitigatory measures proposed are delivered as recommended in the IEE, all potential negative effects of construction and operation of the sub-projects should be avoided or reduced to acceptable levels and the long-term effects of the schemes should be very positive.</i>	Not yet awarded			
PEIC/JKWSSP/Network/2014/02 ⁴		M/s Sierra Construction Ltd	Project Manager	pperera@sierra.lk	112584681/ 112598171
PEIC/JKWSSP/Distribution Networks /2017/01		Not yet awarded			

⁴ An updated IEE was prepared for the whole the JKWSSP project and that revised report submitted to ADB on 24.07.2014. And additional IEE report was prepared for Supply and Laying of Distribution Network in Jaffna City Area and that revised report submitted to ADB on 22.06.2020

4. STATUS OF IEE PER SUBPROJECT/PACKAGE

Package-wise Implementation Status

Package Number	Final IEE based on Detailed Design				Site-specific EMP (or Construction EMP) approved by Project Director? ⁵ (Yes/No)	Remarks
	Not yet due (detailed design not yet completed)	Submitted to ADB (provide date of submission)	Disclosed on project website (provide link)	Final IEE provided to Contractor/s (Yes/No)		
PEIC/JKWSSP/SEA WATER REVERSE OSMOSIS PLANT /2015/01	<i>Under bid evaluation</i>					
PEIC/JKWSSP/Distribution Networks/2017/01	<i>Under bid evaluation</i>					
PEIC/JKWSSP/Network/2014 /02	<i>Awarded</i>					

⁵ Works will not be allowed until SEMP/CEMP is approved by project implementation unit or project management unit.

5. COMPLIANCE STATUS WITH NATIONAL /STATE/LOCAL STATUTORY ENVIRONMENTAL REQUIREMENTS

Package No.	Statutory Environmental Requirements	Status of Compliance (Specify if obtained, submitted and awaiting approval, application not yet submitted)	Validity Date(s) (if already obtained)	Action Required	Specific Conditions that will require environmental monitoring
PEIC/JKWSSP/ Sea Water Reverse Osmosis Plant /2015/01	<i>Under bid evaluation</i>				
PEIC/JKWSSP/ Distribution Network/2014/02	<ul style="list-style-type: none"> • Environmental Clearance - CEA • Road cutting permit – RDA & Pradeshiya sabha • Mine clearance – Ministry of Resettlement & Rehabilitation & Regional Mine action Office • Construction Materials Transport - Pradeshiya sabha & Police • Consent letter – individual person 	<i>Approval received</i>	<i>Verified</i>	<i>On -going</i>	<i>Attached copies of clearance / Permit⁶</i>
PEIC/JKWSSP/Network/2017 /01	<i>Under bid evaluation</i>				

⁶ We have received permits from the department and here with attached copies of permits or consent letters.

6. Compliance status with environmental loan covenants

Schedule No. and Item <i>(see Project Loan Agreement and list provisions relevant to environmental safeguards, core labor standards and occupational health and safety)</i>	Covenant	Status of Compliance	Action Required
Schedule 4, Item 7: - Condition for Award of contract	The borrower shall not award any works contract which involves environmental consequences until: a. the borrower has obtained the final approval of the EIA, and b. the borrower has incorporated the relevant provisions from the EMP into the works contract.	complied	
Schedule 5, Item 5: - Safeguards environment	The borrower through the MUD, WS & HF shall ensure that the preparation, design, construction, implementation and operation of the 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, 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.	complied	
Schedule 5, Item 6: - Human and financial resources to implement safeguards requirements	The Borrower through the MUD, WS & HF and the NWSDB shall make available necessary budgetary and human resources to fully implement the EMP and the RP.	complied	
Schedule 5, Item 7: - Safeguards-related provisions in bidding documents and works contracts	The Borrower through the MUD, WS & HF and the NWSDB shall ensure that all bidding documents and contract for works contain provision that the contractors to: a. comply with the measures relevant to the contractor set forth in the EIA, the EMP and the RP (to extent they concern impacts on affected people during construction), and any corrective or preventive actions set forth in a SMR. b. provide the borrower with a written notice of any unanticipated environmental, resettlement or indigenous people risks or impacts that arise during construction, implementation or operation of the project that were not considered in the EIA, the EMP and the RP.	complied	
Schedule 5, Item 8: - Safeguards monitoring and reporting	The Borrower through the MUD, WS & HF and the NWSDB shall do the following: a. submit safeguards monitoring Reports to ADB (quarterly during construction and semi-annually during implementation in relation to the environment safeguards requirements, and semi-annually in relation to the social safeguards requirements) and disclose relevant information from such reports to affected persons promptly upon submission; b. if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation	complied	

	<p>of the Project that were not considered in the EIA, the RAP and the RP, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan:</p> <p>c.no later than commencement of construction activities under the Works contract, engage qualified and experienced external experts under a selection process and terms of reference acceptable to ADS, to verify information produced through the Project monitoring process</p>		
Schedule 5, Item 9: - Prohibited list of investments	The Borrower shall ensure that no proceeds of the Loans are used to finance any activity included in the list of prohibited investment activities	complied	
Schedule 5, Item 10: - Labor standards, health and safety	<p>The Borrower shall ensure that the core labor standards and the Borrower's applicable laws and regulations are complied with during Project implementation. The Borrower through the MUD, WS & HF and the NWSDB shall include specific provisions in the bidding documents and contracts financed by ADO under the Project requiring that the contractors, among other things:</p> <p>a. comply with the Borrower's applicable labor law and regulations and incorporate applicable workplace occupational safety norms,</p> <p>b.do not use Child labor</p> <p>c. do not discriminate workers in respect of employment and occupation</p> <p>d.do not use forced labor; and</p> <p>e.disseminate, or engage appropriate service providers to disseminate, information on the risks of sexually transmitted diseases, including HIV/AIDS, to the employees of contractors engaged under the Project and to members of the local communities surrounding the Project area_ particularly women.</p>	complied	

7. Compliance status with the environmental management plan (refer to EMP Tables in APPROVED IEE/S)

Environmental Issues to consider	Mitigation measures	Monitoring Parameter	Mitigation Implemented	Mitigation effectiveness		Status of Corrective Action	Further Corrective Actions Required/ Timely
				Current Quarter	Overall Perform		Nature of Further Corrective Actions
Activity: 1. 1.Site clearing before starting construction							
Removal of greenery by cutting large trees shall tend to pollute environment	(i)To avoid un-necessary tree cutting by demarcating trees exactly to be removed	(i)Trees exactly to be removed are demarcated	Yes	-	-	complied	
	(i)To implement tree re-planting program	(i)Suitable land is selected	Yes	-	-	complied	
Activity: 1.2 Foundation Excavation for structures (buildings)							
Insufficient protective measures around deep excavation shall endanger safety of workers at ground level	(i)To provide adequate warning boards and barricades and maintained	(i)Adequate warning boards and barricades are provided and well maintained	Yes	-	-	complied	
Unstable deep excavation shall endanger safety of workers inside the pit	(i)To provide shoring as per engineer's recommendation	(i)Shoring arrangements are provided as per engineer's recommendations	Yes	-	-	complied	
Activity: 1. 3. Construction of structures (water towers, sumps, pump houses and buildings)							
Occupational injuries and illness caused by substandard working arrangements (warning boards, scaffoldings, safety nets, form work, ladders, temporary access etc.)	(i)To provide adequate warning boards, barricades, safety nets, temporary access and standard scaffoldings, form work and ladders and maintained until construction is over	(i)Adequate warning boards, barricades, safety nets, temporary access are provided and maintained well	Partly	Moderate	To be improved	complied	
Night works disturb neighbors and environment	(i) Minimize the work in night. Schedule the minor works at night. Inform the neighbors regarding the working time prior	(i) Night works are arranged as planned without affecting the neighbors and environment	Yes	-	-	being complied with	
Activity: 1. 4. Excavation of Trial pits and trenches							

[illegible]

Inadequate protective measures taken for storing flammable/hazardous material/lubricant/oils shall endanger occupational safety and health.	(i)To provide adequate protective measures for storing flammable/ hazardous material/ lubricant/oils	(i)Hazardous material (flammable/hazardous material/ lubricant/oils) are separated from human moving area	Partly	Fair	To be continue	being complied with	
		(ii)Adequate protective measures are taken to avoid access of authorized persons	Partly	Fair	To be continue	being complied with	
		(iii)Safety of hazardous material is regularly checked.	Partly	Moderate	To be improved	complied	
Material stockpiles (at open storage) wash away shall pollute surrounding environment.	(i)Washable material stockpiles (at open storage) are protected by rains	(i)Washable material stockpiles (at open storage) are covered by tarpaulins during the rainy seasons and surrounded by small conservation bunds	Partly	Moderate	To be improved	being complied with	
Dust generation inside storage areas shall endanger workers' health.	(i)To provide dust masks for the store labors working in dusty areas.	(i)Dust masks are provided for the store labors working in dusty areas.	Partly	Moderate	To be improved	being complied with	
Activity: 1. 8. Maintenance of office/ labour camps/stores/sites							
Lack of sanitary facilities provided at office/camps shall endanger occupational health	(i)To provide adequate sanitary facilities for the use of office/camp occupants	(i)Adequate sanitary facilities are provided for the use of office/camp occupants	Yes	Fair	To be improved	being complied with	
Lack of safety precautions (e.g. Fire extinguishers, first aide, emergency exits, safe meeting point)shall endanger occupational safety	(i)To provide safety precautions (e.g. Fire extinguishers, first aide, emergency exits, safe meeting point)	(i)Safety precautions such as Fire extinguishers, first aide, emergency exits, safe meeting point have been taken	Partly	Moderate	-	complied	
		(ii)Fire extinguishers are not outdated and first aid requirements are available	Partly	Moderate	-	complied	
Activity: 1. 9. Use of machinery/equipment at construction work							
Construction vibration shall damage nearby public properties	(i)To take safety precautions to avoid damages nearby public properties due to vibration	(i)Crack survey has been carried out, prior to commence the construction.	Partly	Moderate	To be improved	being complied with	
		(iii)Post crack survey has been carried out	No	-	-	being complied with	

Noise generated during construction shall cause public nuisance	(i)To provide noise barriers when and where necessary	(ii)Bi-annual baseline survey is carried out to test the noise level	Yes	Fair	-	being complied with	
Fuel/oil spills shall cause environmental pollution	(i)To deploy quality tested machinery and vehicles	(i)Quality certified machinery and vehicles are deployed	No	-	-	being complied with	
		(ii)Quality of machinery and vehicles are regularly observed	No	-	-	being complied with	
Activity: 1. 10.Common items							
Employees attending work without wearing standard PPEs shall endanger occupational safety	(i)To provide standard PPEs (in correct size) to all employees	(i)To provide standard PPEs (in correct size) to all employees	Partly	Fair	To be continue	being complied with	
		(ii)All employees are fully equipped with standard PPEs while attending work	Partly	Moderate	To be improved	being complied with	
Vehicle exhaust during traffic congestion at roadside construction shall cause atmospheric pollution	(i)To implement engineer approved traffic management plan	(i)Traffic management plan (TMP) is approved by the engineer	Yes	Fair	To be continue	being complied with	
		(ii)Warning boards, speed limits, barricades, luminous stickers, night signal lamps, are adequately provided where necessary as per approved TMP	Partly	Moderate	To be continue	being complied with	
		(iii)Safe temporary access, pedestrian passes and road humps are adequately provided	Partly	Moderate	To be improved	being complied with	
		(iv)Traffic controllers are deployed as and when required	Yes	Moderate	To be improved	being complied with	
Construction waste scattered at sites, yards, public moving areas shall endanger occupational/public health and safety.	(i)To provide construction waste collecting and disposal arrangement and to maintain regularly	(i)Construction waste collecting arrangement is implemented.	Yes	Fair	To be continue	being complied with	

		(ii)Local authority permission is obtained for disposal yards.	Yes	Fair	To be continue	being complied with	
		(iii)Regular construction waste disposal arrangements are implemented	Yes	Fair	To be continue	being complied with	
		(iv)Disposal yards are regularly reinstated	Partly	Moderate	To be improved	being complied with	
		(v)Construction waste is not disposed at unauthorized locations	Yes	Fair	To be continue	being complied with	
		(vi)Construction waste is not scattered at sites, camps and office premises	Yes	Fair	To be continue	being complied with	
Office waste/camp waste scattered around shall pollute surrounding environment	(i)To provide office/camp waste collecting and disposal arrangements	(i)Adequate garbage bins are provided at office/camp to collect segregated waste	Partly	-	-	complied	
		(ii)Waste segregation is introduced and implemented	Partly	-	-	complied	
		(iii)Waste is regularly collected by the local authority	No	-	-	being complied with	
		(iv)Waste is not scattered over the ground	Yes	-	-	complied	
Dust generation during construction under dry weather shall endanger occupational/public health	(i)To provide regular water spreading system or to deploy sprinkler attached water bowsers regularly	(i)Regular water spreading system is provided or sprinkler attached water bowsers are regularly deployed	Partly	-	-	being complied with	
		(ii)Dust is not generated at construction area	Partly	-	-	being complied with	
		(iii)Dust is not deposited over the surrounding area	Partly	-	-	being complied with	
		(iv)Baseline survey for air quality is regularly conducted	No	-	-	being complied with	

Vehicles/machinery/trucks movement during construction without standard signals, warning alarms, helping assistants shall endanger occupational/public safety	(i)To deploy vehicles/ machinery/ trucks having standard signals, warning alarms (in working order) by employing qualified drivers/ operators with helping assistants	(i)All vehicles /machinery trucks deployed are fitted with standard signals, warning alarms and which are working order	Partly	Moderate	To be improved	being complied with	
		(ii)All drivers/operators are qualified and no unqualified driver/ operator is deployed whatsoever	Partly	Moderate	To be improved	being complied with	
		(iii)Helping assistants are employed for all heavy machinery and trucks while working at sites	Partly	Moderate	To be improved	being complied with	
Handling of unsafe power tools and equipment shall endanger safety of workers (substandard insulation, broken plug tops and bases)	(i)To provide standard power tools without substandard insulation, broken plug tops and plug bases etc.	(i)Standard power tools are used by employees without substandard insulation, broken plug tops and plug bases etc.	Partly	Moderate	To be improved	being complied with	
Fine aggregate wash away from material heaps during rains shall pollute surrounding environment	(i)To protect fine aggregate material stockpiles at site from wash away during rains	(i)Washable material stockpiles at site are covered by tarpaulins during the rainy seasons and surrounded by small conservation bunds	Partly	Moderate	To be improved	being complied with	
		(ii)Roads and surrounding environment is not polluted by washed material deposits	Partly	Moderate	To be improved	being complied with	
		(iii)Baseline survey for water quality is regularly conducted	Partly	-	-	being complied with	
Careless handling of tools, equipment, accessories, heavy items, lengthy items shall endanger safety of workers and others around	(i)To train employees for handling tools, equipment, accessories, heavy items, lengthy items associated with construction	(i)Employees are trained for handling tools, equipment, accessories, heavy items, lengthy items associated with construction	Partly	Moderate	To be improved	being complied with	
		(ii)Employee safety programs are conducted	Yes	Fair	To be continue	being complied with	

		(iii)Tool-box meetings are regularly conducted	Yes	Fair	To be continue	being complied with	
Lacking public awareness about safety and construction activities shall endanger community health and safety	(i)To conduct public awareness program about safety and construction activities	(i)Public awareness programs about safety and construction activities were conducted	Yes	-	-	complied	
		(ii)Safety awareness programs for school children are conducted	Yes	-	-	complied	

Overall Compliance with CEMP/ EMP

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
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	Y	Y	Satisfactory	CEA informed that CEA approval/ clearance not required for the pipe laying works and the tower construction works.

Trainings, Workshops and Seminars Conducted⁷

Date	Topic	Conducted by	No. of Participants (Total)	No. of Participants (Female)	Remarks
There are Trainings or Workshops or Seminars not yet conducted during the reporting period. As per the additional loan, the trainings, workshops and seminars will be conducted by separate TA after recruited the PMSC Consultant. PMSC Consultancy recruitment is in progress and the agreement to be signed.					

Summary of Environmental Monitoring Activities (for the Reporting Period)

⁷ There are Trainings or Workshops or Seminars not yet conducted during the reporting period. As per the additional loan, the trainings, workshops and seminars will be conducted by separate TA after recruited the PMSC Consultant. PMSC Consultancy recruitment is in progress and the agreement to be signed.

[illegible]

Inadequate protective measures taken for storing flammable/hazardous material/lubricant/oils shall endanger occupational safety and health.	(i)To provide adequate protective measures for storing flammable/ hazardous material/ lubricant/oils	(i)Hazardous material flammable/ hazardous material/ lubricant/oils) are separated from human moving area	Visual	9.685870, 80.2221150	18/7/2019	S. Sivathasan S. Arani
		(ii)Adequate protective measures are taken to avoid access of authorized persons	Visual	9.685870, 80.2221150	18/7/2019	
		(iii)Safety of hazardous material is regularly checked.	Visual	9.685870, 80.2221150	18/7/2019	
Dust generation inside storage areas shall endanger workers' health.	(i)To provide dust masks for the store labors working in dusty areas.	(i)Dust masks are provided for the store labors working in dusty areas.	Visual	9.685870, 80.2221150	18/7/2019	
Activity: 1. 8. Maintenance of office/ labour camps/stores/sites						
Lack of sanitary facilities provided at office/camps shall endanger occupational health	(i)To provide adequate sanitary facilities for the use of office/camp occupants	(i)Adequate sanitary facilities are provided for the use of office/camp occupants	Visual	9.663440, 80.082109	14/8/2019	S. Sivathasan S. Arani
Unsafe electrical work (unsafe wiring, power outlets, and fixtures) shall endanger occupational safety	(i)To provide safe electrical works at office/camps/stores/sites	(i)To obtain electrical works standards certification by a qualified officer in regular intervals (quarterly)	Visual	9.663440, 80.082109	14/8/2019	
Lack of safety precautions (e.g. Fire extinguishers, first aide, emergency exits, safe meeting point)shall endanger occupational safety	(i)To provide safety precautions (e.g. Fire extinguishers, first aide, emergency exits, safe meeting point)	(i)Safety precautions such as Fire extinguishers, first aide, emergency exits, safe meeting point have been taken	Visual	9.663440, 80.082109	14/8/2019	
		(ii)Fire extinguishers are not outdated and first aid requirements are available	Visual	9.663440, 80.082109	14/8/2019	
		(iii)Fire-drill has been carried out	Visual	9.663440, 80.082109	14/8/2019	
Activity: 1. 9. Use of machinery/equipment at construction work						
Construction vibration shall damage nearby public properties	(i)To take safety precautions to avoid damages nearby public properties due to vibration	(i)Crack survey has been carried out, prior to commence the construction.	Visual	9.663476, 80.082135	18/7/2019	S. Sivathasan S. Arani
		(iii)Post crack survey has been carried out	Visual	9.663476, 80.082135	18/7/2019	
Noise generated during construction shall cause public nuisance	(i)To provide noise barriers when and where necessary	(i)Noise barriers are provided as necessary	Visual	9.663440, 80.082109	14/8/2019	

		(ii)Bi-annual baseline survey is carried out to test the noise level	Visual	9.663440, 80.082109	14/8/2019	
Fuel/oil spills shall cause environmental pollution	(i)To deploy quality tested machinery and vehicles	(i)Quality certified machinery and vehicles are deployed	Visual	9.663440, 80.082109	14/8/2019	
		(ii)Quality of machinery and vehicles are regularly observed	Visual	9.663440, 80.082109	14/8/2019	
Activity: 1. 10.Common items						
Employees attending work without wearing standard PPEs shall endanger occupational safety	(i)To provide standard PPEs (in correct size) to all employees	(i)To provide standard PPEs (in correct size) to all employees	Visual	9.663476, 80.082135	18/7/2019	
		(ii)All employees are fully equipped with standard PPEs while attending work	Visual	9.663476, 80.082135	18/7/2019	
Vehicle exhaust during traffic congestion at roadside construction shall cause atmospheric pollution	(i)To implement engineer approved traffic management plan	(i) Traffic management plan (TMP) is approved by the engineer	Visual	9.663440, 80.082109	14/8/2019	S. Sivathasan S. Arani
		(ii) Warning boards, speed limits, barricades, luminous stickers, night signal lamps, are adequately provided where necessary as per approved TMP	Visual	9.663440, 80.082109	14/8/2019	
		(iii) Safe temporary access, pedestrian passes and road humps are adequately provided	Visual	9.663440, 80.082109	14/8/2019	
		(iv)Traffic controllers are deployed as and when required	Visual	9.663476, 80.082135	22/8/2019	
Construction waste scattered at sites, yards, public moving areas shall endanger occupational/public health and safety.	(i)To provide construction waste collecting and disposal arrangement and to maintain regularly	(i)Construction waste collecting arrangement is implemented.	Visual	9.663476, 80.082135	22/8/2019	S. Sivathasan S. Arani
		(ii)Local authority permission is obtained for disposal yards.	Visual	9.663476, 80.082135	22/8/2019	
		(iii)Regular construction waste disposal arrangements are implemented	Visual	9.663476, 80.082135	18/7/2019	

		(iv) Disposal yards are regularly reinstated	Visual	9.663476, 80.082135	18/7/2019	
		(v) Construction waste is not disposed at unauthorized locations	Visual	9.663476, 80.082135	18/7/2019	
		(vi) Construction waste is not scattered at sites, camps and office premises	Visual	9.663476, 80.082135	18/7/2019	
Office waste/camp waste scattered around shall pollute surrounding environment	(i) To provide office/camp waste collecting and disposal arrangements	(i) Adequate garbage bins are provided at office/camp to collect segregated waste	Visual	9.663476, 80.082135	18/7/2019	
		(ii) Waste segregation is introduced and implemented	Visual	9.663476, 80.082135	18/7/2019	
		(iii) Waste is regularly collected by the local authority	Visual	9.663476, 80.082135	18/7/2019	
		(iv) Waste is not scattered over the ground	Visual	9.663476, 80.082135	18/7/2019	
Dust generation during construction under dry weather shall endanger occupational/public health	(i) To provide regular water spreading system or to deploy sprinkler attached water bowsers regularly	(i) Regular water spreading system is provided or sprinkler attached water bowsers are regularly deployed	Visual	9.663476, 80.082135	18/7/2019	
		(ii) Dust is not generated at construction area	Visual	9.663476, 80.082135	18/7/2019	
		(iii) Dust is not deposited over the surrounding area	Visual	9.663476, 80.082135	14/10/2019	
Vehicles/machinery/trucks movement during construction without standard signals, warning alarms, helping assistants shall endanger occupational/public safety	(i) To deploy vehicles /machinery/trucks having standard signals, warning alarms (in working order) by employing qualified drivers/ operators with helping assistants	(i) All vehicles /machinery trucks deployed are fitted with standard signals, warning alarms and which are working order	Visual	9.663476, 80.082135	14/10/2019	
		(ii) All drivers/operators are qualified and no unqualified driver/ operator is deployed whatsoever	Visual	9.663476, 80.082135	3/10/2019	
		(iii) Helping assistants are employed for all heavy machinery and trucks while working at sites	Visual	9.663476, 80.082135	3/10/2019	

Handling of unsafe power tools and equipment shall endanger safety of workers (substandard insulation, broken plug tops and bases)	(i)To provide standard power tools without substandard insulation, broken plug tops and plug bases etc.	(i)Standard power tools are used by employees without substandard insulation, broken plug tops and plug bases etc.	<i>Visual</i>	9.663476, 80.082135	3/10/2019	
Fine aggregate wash away from material heaps during rains shall pollute surrounding environment	(i)To protect fine aggregate material stockpiles at site from wash away during rains	(i)Washable material stockpiles at site are covered by tarpaulins during the rainy seasons and surrounded by small conservation bunds	<i>Visual</i>	9.663476, 80.082135	3/10/2019	
		(ii)Roads and surrounding environment is not polluted by washed material deposits	<i>Visual</i>	9.663476, 80.082135	3/10/2019	
		(iii)Baseline survey for water quality is regularly conducted	<i>Visual</i>	9.663476, 80.082135	3/10/2019	
Careless handling of tools, equipment, accessories, heavy items, lengthy items shall endanger safety of workers and others around	(i)To train employees for handling tools, equipment, accessories, heavy items, lengthy items associated with construction	(i)Employees are trained for handling tools, equipment, accessories, heavy items, lengthy items associated with construction	<i>Visual</i>	9.663476, 80.082135	11/10/2019	
		(ii)Employee safety programs are conducted	<i>Visual</i>	9.663476, 80.082135	11/10/2019	
		(iii)Tool-box meetings are regularly conducted	<i>Visual</i>	9.663476, 80.082135	11/10/2019	
Lacking public awareness about safety and construction activities shall endanger community health and safety	(i)To conduct public awareness program about safety and construction activities	(i)Public awareness programs about safety and construction activities were conducted	<i>Visual</i>	Awareness programs has been arranged each and every DS Divisions and schools to explaining the tower construction works and the pipe lying works. Public was instructed to inform the disturbances or difficulties during the construction works. Prior information also were given to public and school student regarding the works.		Conducted by Sociologist
		(ii)Safety awareness programs for school children are conducted	<i>Visual</i>			

8. Monitoring of environmental IMPACTS on PROJECT SURROUNDINGS

- Confirm records of pre-work condition of roads, agricultural land or other infrastructure prior to starting to transport materials and construction.

Package No.	Status of Pre-Work Conditions (Recorded / Not Recorded)	Baseline Environmental Conditions (air, water, noise) Documented ⁸ (Yes / No)	Action Proposed and Additional Measures Required
PEIC/JKWSSP/ Distribution Network/2017/01	Recorded	Yes	CEA informed that CEA approval/ clearance not required for the pipe laying works and the tower construction works ⁹

- Provide information on monitoring activities conducted during reporting period. If not conducted, provide justification. Compare results with baseline and internationally recognized standards.

9. INFORMATION DISCLOSURE AND CONSULTATIONS

- Confirm PMU/PIU/contractors provide project-related information to stakeholders, communities and/or affected people before and during construction works.
- Provide information on consultations conducted during reporting period such dates, topics discussed, type of consultation, issues/concerns raised, safeguards team member present. Attach minutes of meetings (ensure English translation is provided), attendance sheet, and photos.

Consultations and Discussions with Stakeholders of the DN 2 Pipe laying Works

Date of Consultation	Location	Number of Participants (specify total, male and female)	Issues/Concerns Raised	Response to issues/concerns
03.10.2019	GA Office, Jaffna	24 (M – 19 & F - 5)	Discussion on the pipe laying works in Puttur Zone as the hard rocks found in the laying area and the rock blasting requested from GSMB	Consulted with officers and arranged the joint inspection. Submitted relevant documents to grant the rock blasting approval.

10. GRIEVANCE REDRESS MECHANISM

Grievances Redress Committee formed in all Divisional Secretariat Divisions and having quarterly meeting to discuss the issues and complaints. After the restructured of the project, now quarterly meetings are ongoing. So far 36 meetings held on DS Offices and it was explained to the community about the complaint

⁸ The client, PMCIU, Jaffna Killinochchi Water Supply and Sanitation Project, requested the Environmental Division of National Building Research Organization (NBRO) to measure the baseline noise levels, vibration and air quality at selected locations within the project area of the proposed Jaffna Killinochchi Water Supply and Sanitation Project, to be located in Jaffna.

⁹ CEA informed Environmental recommendation is not necessary for Laying of pipes for water distribution.

process and the GRC details. If the complaint arise at the site, contractors immediately solve and submit the report to PD/ PMCIU.

All works are monitoring by the PMCIU and the complaints are less. Grievance redress/ suggestion forms, complaints / suggestion boxes and complain register were placed at the following five locations:

1. DS Offices (where the project activities ongoing)
2. PMCIU
3. PEIC
4. NWSDB, Regional Manger's Office
5. Contractor's site Office

- **Grievances Redress Committee formation, Officers and their designation**

This Committee is supported to record and resolve grievances regarding the ongoing project under the guidance of the Divisional Secretary. No GRC were established during the reporting period¹⁰

11.SUMMARY OF KEY ISSUES/CONCERNS Identified during the reporting period AND REMEDIAL ACTIONS

- **Corrective Action Plan Status**

Issues/Concerns	Corrective Action	Status	Remarks
Damage of a fence or boundary wall	Contractor have built a new fence or boundary wall	Work has been completed	
Tree cutting	Compensation paid to the house owner by the contractor under the third party damage and contractor have implemented replanting program	Work has been completed	

¹⁰ The members of this existing GRC already attached in the 3rd QEMR.

12.APPENDIXES

i. Photos



Pipe laying work – Sandilipay -14/10/2019



Pipe laying work – Sandilipay -14/10/2019



Store building – Navatkuli -14/10/2019

Copies of environmental clearances and permits¹¹

අංකය : 02/05/2017
අංකය : 02/05/2017
අංකය : 02/05/2017

මධ්‍යම පරිසර අධිකාරිය

මத்திய පරිසර අධිකාරිය

Central Environmental Authority

"පරිසර පියස" 104, ඩෙන්සිල් කොබ්බෑකුටුව මාවත, බත්තරමුල්ල, ශ්‍රී ලංකා
 "Parisara Priyasa", 104, Denzil Kobbekaduwa Mawatha, Battaramulla, Sri Lanka
 Web : www.cea.lk

02/05/2017

Project Director,
 Jaffna - Kilinochchi Water Supply & Sanitation Project,
 Jaffna

02/05/2017

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 Environmental Study Report prepared by Lanka Hydraulic Institute Ltd. submitted to this Authority on behalf of Jaffna - Kilinochchi Water Supply & Sanitation Project on 06th March 2017 for the above subject.

According to your letter No. JKWSSP/PMCIU/CEA/RO PLANT, dated 15.05.2017, the previous Environmental Recommendation issued on 29.03.2017 by this Authority is hereby cancelled. Instead, this Environmental Recommendation in respect of the proposed Seawater Desalination Plant at Thalayady, Maruthankeny 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 Desalination 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 re-application one month prior to expiry of the validity period.

01. Project Proponent and Location

1.1 The Project Director, Jaffna - Kilinochchi Water Supply & Sanitation Project for Desalination Plant at Thalayady, Maruthankeny (hereafter referred to as the Project Proponent) is legally 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 operation.

1.2 The proposed Seawater Desalination plant should be located within Lot 1 and 2 as shown in the Preliminary Plan No. 2776, dated 2017.01.30 of Senior Superintendent of Surveys.

02. Noise Control

2.1 Noise levels at the boundary of the site during the construction stage should be maintained at or below 75dB (A) during day time (between 0800 hrs to 2100 hrs) and at or below 50 dB (A) during night time (between 21.00 hrs to 06.00 hrs).

2.2 Noise levels at the boundary of this 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 06.00 hrs) Refer to the Guideline for Noise Control No. 02/01/2 dated 23rd May 1996.

Chairman	Tel. : 2872361, 2872348 Fax : 2872347	Director General	Tel. : 2872359 Fax : 2872608	Gen. Office	Tel. : 2872278, 2873447, 2873448 Fax : 287277-280	Complain	Unit : 0713681333, 28869999
Deputy Director : Envt. Admin. & Science Division / Envt. Pollution Control Division / Envt. Mol. & Assess. Division / Envt. Edu. & Awareness Division							
Directors	2872607 (Admin), 287250 (Finance)	287452 (EPC)	287246 (R&D)	287246 (R&D)	287266 (E&A)	287304 (Logis)	287304 (Logis)
Tel.	2872301 (HRD), 287248 (Planning)	2872606 (Lab)	287263 (R&D)	287263 (R&D)	Fax : 2872609	Western Province	Tel. : 2873831, Fax : 2873202
Fax	2872601 (Admin), 287394 (Finance)	2872335 (WMI)	Fax : 2872296	Fax : 2872296	Media Unit : 2873449		

මහවැලි සංවර්ධන හා පරිසර මෙහෙයවීමේ අමාත්‍යාංශය / மாவேலி அபிவிருத்தி மற்றும் சுற்றுலா அமைச்சு Ministry of Mahaweli Development & Environment

¹¹ Copies of environmental clearances and permits already attached in the 3rd QEMR.

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 construction period.



4.0. Solid waste management

- 4.1. Solid waste arising from any process should be disposed of at regular intervals in consultation with the relevant Local Authority in such way that there should not be environmental pollution.
- 4.2. Solid 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.
- 4.4. 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 diffuser 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 from the point of discharge.
- 5.2. Project Proponent should obtain dumping permit, thirty 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 manhole of the wastewater treatment plant shall always be safe & accessible for monitoring to collect samples of treated wastewater. It shall not be used for any other purpose.
- 5.4. Proper Environmental Control shall be implemented to prevent any inadvertent discharging into land, surface water or marine environment.
- 5.5. Any domestic 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 time.

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 inlet velocity is kept low and it allows small fish to swim 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 sea water conduits and providing foundation for sea water intake pump, buildings, tanks and equipment to prevent excessive drainage of any aquifers.
- 6.3. Sea water intake pipe line should be suitably anchored along the sea bottom profile to minimize erosion.

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 minimize erosion.

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 Corporation 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 Silt traps should be constructed and properly maintained in order to prevent silt being washed off into Adjacent lands, canal and properties.


9.0 Environmental Monitoring

- 9.1 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 Development Authority, Divisional Secretariat / Vadamaradoni East, Pradeshiya Sabha / Panchayat and any other independent body will be appointed by CEA to monitor and supervise implementation of the EMP.
- 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 officer/s 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 oversee implementation of the EMP shall be borne by the Project Proponent.

10.0 General Conditions

- 10.1 This Environmental Recommendation only covers the Seawater Desalination Plant at Thalayady, Maruthankery intake and outfall 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 Desalination Plant shall not affect the local fishing community.

- 10.4 The health and safety of workers shall be ensured as stipulated in the Factories Ordinance and its amendments.
- 10.5 In accordance with section 23 (A) of the National Environmental act No: 47 of 1990 and its 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.
- 10.6 Any changes or expansion of the project activities should not be carried out without prior approval of the CEA.
- 10.7 Installation or operation of any machinery other than those stated in the application dated 23.12.2014 should not be carried out without prior approval of CEA.
- 10.8 Any additional conditions stipulated by the CEA as and when required for controlling any kind of pollution arising from the operation of the Seawater Desalination Plant shall be strictly adhered to.
- 10.9 The Environmental Recommendation is issued to carry on only the permitted activities therein, it 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
Northern Provincial Office
Jaffna

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

Copies

1. Director General, National Environment, Richmond Road, Marikavillage
2. Secretary, Pradeshiya Sabha, Point Pedro
3. Director, Environmental Pollution Control, CEA.

Consultations and Discussions with Stakeholders of the Project related to Establishing RO Plant at Thalaiyadi

1	14.01.2019	Project Office	DS Office, Vadamarachchi East	Discussion on Maruthankerny Integrated Development Project	19	16	03	Discussion had with community regarding the M& E works for the Ice factory works.
2	18.03.2019	Project Office	GA Office, Jaffna	Discussion on Maruthankerny Integrated Development Project	19	19	00	Discussion had with community regarding the progress of ongoing Maruthankerny Development Project and other project activities
3	12.07.2019	Project Office	DS Office, Vadamarachchi East	Discussion on Maruthankerny Integrated Development Project	13	09	04	Discussion had with Thalaiyadi Sports Club and RDS regarding the progress of ongoing Maruthankerny Development Project and other project activities
4	01.11.2019	Project Office	GA Office, Jaffna	Discussion on Maruthankerny Integrated Development Project	15	12	03	Discussion had with Stakeholders regarding the RO plant and the Maruthankerny Integrated works

The following photos shown the stakeholders meeting and consultations taken place at proposed RO Plant Site


Stakeholders' Meeting regarding the RO Plant.



ii. Others

Environmental Management Plan, Environmental condition and Contractor's Transmittal already attached in the 3rd QEMR-2019.


Meeting attendance sheets for Discussion on the pipe laying works in Puttur Zone as the hard rocks found in the laying area and the rock blasting requested from GSMB



DISTRICT SECRETARIAT

JAFFNA

MEETING ATTENDANCE SHEET



Title: Discussion on the pipe laying works in Puttur Zone as the hard rocks found in the laying area and the rock blasting requested from GSMB

Date: 03.10.2019 Day: Wednesday Time: 9:00

S.No	Name	Designation	Department	Signature
1	Mr. K. Kanageswaran	Addl. GA		
2	Mrs. S.C.N. Kamalaperumal	ADS		<i>[Signature]</i>
3	T. Anuraj	A.O., I	D.S. office - Kopay	<i>[Signature]</i>
4	A. Sathes	Gr. W. I/204	D.S. office - Kopay	A. Sathes
5	S. Sivaludchamy	Lupo	DS office Kopay	<i>[Signature]</i>
6	A. Srinivasan	SEO	CEA, Jaffna	<i>[Signature]</i>
7	N. Anuraj	Zonal officer	Archaeology	N. Anuraj
8	D. Mayasoran	PIRE	Culture	<i>[Signature]</i>
9	G. Jayaraj	ME	GSMB	<i>[Signature]</i>
10	K. Pirabakaran	DS	Manufacturing	<i>[Signature]</i>
11	D. Krishnasami	ADD	GSMB	<i>[Signature]</i>

SAUW Environmental Monitoring Report Review – Information Log

Instructions: Provide information based on SEMR submitted by Project Management Unit (PMU). This log sheet will serve as record of the review findings, comments, and/or further actions. A copy of the SEMR log sheet should be (i) provided to PMU for their record; (ii) attached to the SEMR to be disclosed on ADB website; (iii) used as reference for review of next SEMRs; and (iv) inputted in the SARD Safeguards Compliance Tracking System.

Project title:	SRI: Jaffna and Kilinochi Water Supply Project			
Loan Number:	2710-SRI and 2711-SRI	Project Number:	37378-014	
Overall Project Objectives	The project supports the improvement of drinking water supply in urban areas of Jaffna peninsula. The additional financing includes (i) improved water supply service infrastructure; (ii) strengthened water resource protection and management; and (iii) strengthened institutional capacity of the National Water Supply and Drainage Board			
Approved Categorization	X	Category A		Category C
		Category B		FI
Loan Effectivity Date:			Frequency of Reporting	Quarterly
Project Officer	S. Mehta/P.Almeida		Project Analyst	E. Moises
Reporting Year	2019	Coverage Period		1 st QMR of the year
				2 nd QMR of the year
				3 rd QMR of the year
			X	4 th QMR of the year
Date of PMU submission to ADB	5 February 2020 25 June 2020 (revised)		Date of ADB's feedback/comment to PMU	10 February 2020 1 July 2020

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
A. Project Safeguards Team (check loan agreement and PAM requirements)				
PMU ¹	Information provided in section 2-Environment safeguards team (including the name of the consultant)	Complied	NONE	
PIU ²				
Consultants				
Others (e.g. auditor, external monitoring team, etc)				
	PAM mentioned that PMCIU will retain independent advisory experts to monitor the implementation of the of the Project's			
	It was mentioned in the report that the negotiation for the consultancy firm is completed and to be engaged after the			

Commented [A1]: PMU to provide detailed response. This log sheet will be attached to the SEMR and disclosed on ADB website.

¹ PMU – project management unit
² PIU – project implementation unit

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
	award of the RO contract.			
B. Overall Project and Subproject Description (summarize number and type of packages)³				
Number of Packages with civil works (check if consistent with latest procurement plan)	Information provided in Section 3.0 – overall project and sub-project progress and status.	Complied	NONE	
Number of DB/DBO packages and status (see footnote 3)	<p>The list of packages provided in the report:</p> <p>(i) PEIC/JKWSSP Seawater reverse osmosis plant (DBO)- <i>Not yet awarded</i></p> <p>(ii) PEIC/JKWSSP/Network (Civil works)- <i>Contract awarded to M/S Sierra Construction Ltd awarded on 29 October 2018)</i></p> <p>(iii) PEIC/JKWSSP/Distribution network (Civil works) – <i>Not yet awarded</i></p>	As per checking, the PEIC/JKWSSP Distribution network is not yet awarded.	NONE	
Number of civil works packages and status (see footnote 3)	<p>Two civil works packages for the distribution network systems.</p> <p>Section 4: Status of IEE per subproject. Kindly remove the PEIC/JKWSSP Distribution networks 2017/01- not yet awarded-</p>	As per checking, the PEIC/JKWSSP Distribution network is not yet awarded.	Section 4: Status of IEE per subproject. Kindly indicate that the PEIC/JKWSSP Distribution networks 2017/01 is not yet awarded	
IEEs cleared for awarded packages?	It was mentioned in the report that an updated IEE was submitted to ADB on 24 July 2014.	<p>The following safeguard documents are disclosed in the ADB website.</p> <p>Category A: EIA of the seawater desalination plant and potable water conveyance system (July</p>	PMCIU to ensure that updated IEEs with site-specific EMP should be submitted prior to the award of contracts.	

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³ DB/DBO – design-build or design, build, and operate or where contractor will finalize the detailed engineering design; civil works contract – enough details of the package is known and used as basis for bid/contract's Technical Specification

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
		2017) Draft IEE for the Jaffna and Kilinochi Water Supply and Sanitation on October 2010		
Safeguard documents disclosed on project website?	Link provided for the EIA prepared in 2017.		Further action: Disclose the safeguard documents in the project's website and provide the link of these documents in the report.	Done http://jkwssp.org/index.php/environmental-issues
SEMR information on package-wise implementation phase (bidding, on-going, construction, completed, under operation, others)	Information provided in Section 3- overall project and subproject progress and status	As per checking, the PEIC/JKWSSP Distribution network is not yet awarded.	Section 4: Status of IEE per subproject. Kindly indicate that the PEIC/JKWSSP Distribution networks 2017/01 is not yet awarded	
C. Status of compliance with statutory clearances (check IEE for the complete list, summarize the findings for each package – obtained/under application and if obtained, specify validity period)				
Environmental Clearance (EC)	EIA was approved by Central Environment Authority on 2017	Provide as an attachment the copy of the environmental clearance for the SWRO plant	Provide as an attachment the copy of the environmental clearance for the SWRO plant- Done-document provided in the revised document	
Forest Clearance	Section 5 – compliance status with national/ state/local statutory environmental requirements. It was mentioned that approval was received from the permits and that the clearance and permits are attached in the submitted QEMR.		Provide as an attachment the copy of the environmental clearance for the SWRO plant. Done-document provided in the revised document. Environmental Clearance for the distribution network was also provided as an attachment to the report.	
No Objection Certificate/Letter				
Site location clearance				
Permit/Consent to Construct (or equivalent)				
Permit/Consent to Operate (or equivalent)				
Road-cutting permit				
Utilities shifting permit				
Tree-cutting permit				
Others (specify)				
D. Status of Compliance with loan covenants (verify items in SEMR with the project's loan agreement)				
Procurement of goods, works and consulting services (Schedule 4, Item 7)	Status of compliance discussed in section 6 of the SEMR. It	Complied	DONE	

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Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
Safeguards environment (Schedule 5, Item 5)				
Human and financial resources to implement safeguards requirements (Schedule 5, Item 9)				
Safeguards-related provisions in bidding documents and works contracts (Schedule 5, Item 10)				
Safeguards monitoring and reporting (Schedule 5, Item 11)				
Prohibited list of investments (Schedule 5, Item 12)				
Labor standards, health and safety (Schedule 5, Item 13)				
E. Contractors Compliance with Environmental Safeguards Requirements				
Appointment of Environment, Health and Safety (HSE) and/or nodal person	It was mentioned in the report that the Project Manager is the HSE nodal person.		Further action: Ensure that the Project Manager is a competent/qualified expert to monitor the implementation of EMP and health and safety measure during civil works.	Appointment of Environment, Health and Safety (HSE) will be appoint under PMSC/EMT consultancy to monitor the environment mitigations. At the same time one of the HSE from contractor site must be recruited.
Submission of site-specific EMPs	Information provided in the submission of the 3 rd QEMR for the awarded package			-
Submission of SEMP implementation report (specify in comments frequency – daily, weekly, monthly or quarterly basis)	No information provided	No information provided	Provide information.-NOT DONE Information to be provided in QEMR January-March 2020.	Satisfactory
Site verification by PMU, PIU, or consultants (verification report should be attached to the SEMR)	Information provided for the summary of environmental monitoring activities (for the reporting period).	However, the information is the same as the submitted report for 3 rd QEMR and date of the monitoring is only up to October 2019.	(i) Provide explanation/justification on why there were no monitoring activities done during the reporting period.-NOT DONE (ii) If monitoring activities were done, provide as an attachment copies of the site verification reports. NOT DONE	-

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Commented [A2]: Kindly provide the requested information on the frequency of submission of the contractors- is it daily, weekly, monthly, or quarterly?

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
SEMR compliance matrix on mitigation measures implementation (matrixes are based on approved SEMP/s)	Section 7 compliance status with the environmental management plan (refer to EMP tables in approved IEE/s)	For the 4 th QEMR, provide corrective actions, responsible person and the timeline for the implementation. Complete the information in the last column of the Table on the compliance status with environmental management plan.	The requested information should be provided in QEMR January-March 2020 Information to be provided in QEMR January-March 2020. (i) Provide corrective actions, responsible person and the timeline for the implementation. Complete the information in the last column of the Table on the compliance status with environmental management plan.	
Other information			-	-
F. Environmental Monitoring based on EMP				
Rationale				
Parameters to be monitored are commensurate to the impacts, mitigation measures, and project/subproject/package	Parameters for the mitigation measures are provide in the Section 7		Information to be provided in QEMR January-March 2020. Provide corrective actions, responsible person and the timeline for the implementation. Complete the information in the last column of the Table on the compliance status with environmental management plan	
Sampling locations identified and appropriate	No information provided	No information provided	Indicate in the report if sampling activities were conducted during the reporting period. For the sampling activities, include the following information: (i) sampling location (ii) discussion and interpretation of the results (iii) provide as an attachment the copy of the laboratory	There is no laboratory test done during the reporting period. <i>Only pipe laying works is ongoing in the reporting period.</i>
Sampling frequency identified and appropriate	No information provided	No information provided		
Sampling collection and analysis are in accordance with internationally-accepted practices	No information provided	No information provided		
Standards and performance indicators are compliant with	No information provided	No information provided		

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Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
ADB SPS requirements ⁴ (provide justification if less stringent standards are used)			results. Provide justification why no baseline environmental monitoring was done prior to civil works in 2018. -Explanation provided-DONE	
G. Environmental monitoring results (narrative based on presented results)				
Visual inspection (refer to EMP tables in the IEE where visual inspections are required to determine if there are environmental impacts)	Visual inspection was done for the project, but the information provided is the same as the 3 rd QEMR.		Provide justification/explanation on why there were no visual inspection during the reporting period. Information to be provided for the submission of the QEMR covering period of January-March 2020. (i) Provide as an attachment The inspection report – what are the conditions on-site? Are the environmental management plan (EMP) and occupational health and safety (OHS) effectively implemented at the work sites? (ii) Provide photo documentation for the site visits.	Visual inspection was done for the reporting period and you can observed in the report visual observation date is change and sub packages nearly to completion stage.
Air quality results	It was mentioned in Section that baseline environmental conditions were documented for air, water, noise.		Information to be provided for the submission of the QEMR covering period of January-March 2020. Confirm if environmental sampling was done during the reporting period. Provide a copy of the results of these documented laboratory	
Water quality results				
Noise level results				

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⁴ ADB SPS (Appendix 1 para 33) requires projects to apply pollution prevention and control technologies and practices consistent with international good practices as reflected in internationally recognized standards such as the World Bank Group's Environmental, Health and Safety Guidelines (<https://www.ifc.org/ehsguidelines>). These standards contain performance levels and measures that are normally acceptable and applicable to projects. When host country regulations differ from these levels and measures, the borrower/client will achieve whichever is more stringent. If less stringent levels or measures are appropriate in view of specific project circumstances, the borrower/client will provide full and detailed justification for any proposed alternatives that are consistent with the requirements presented ADB SPS.

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
			tests. Alternatively, provide an explanation/justification in the report why there were no sampling activities done during the reporting period.	
Others				
H. Consultations and/or FGDs during the reporting period				
Number	One for the DN2 pipe laying works and records of consultations for the RO plant were provided.	The information provided is the same as the report for the 3 rd QEMR	Provide photo documentation and attendance sheet of the consultation done on 3 October 2019. Partially Done	Meeting attendance sheet attached herewith.
Reason/s for consultations/FGDs	Discussion on the pipe laying works in Puttur Zone as the hard rocks found in the laying area and the rock blasting requested from GSMB		Attendance sheet provided	
Number of participants	24			
Number of female participants	5			
I. Trainings, Workshops, Seminars during the reporting period				
Number	It was mentioned in the report that report that there are trainings or workshops or seminars not yet conducted during the reporting period since additional trainings will be conducted by a separate TA.		If no trainings were done, provide an explanation on how the PMU ensures that the contractors are knowledgeable or familiar with environmental safeguards, and construction health and safety.- Explanation/response provided	There are Trainings or Workshops or Seminars not yet conducted during the reporting period. As per the additional loan, the trainings, workshops and seminars will be conducted by separate TA after recruited the PMSC Consultant. PMSC Consultancy recruitment is in progress and the agreement to be signed.
Topics				
Number of participants				
Number of female participants				
J. Grievance Redress Mechanism				
GRM per PAM or IEE/EARF established	Grievance Redress mechanism discussed in Section 10.		Information to be provided for the submission of the QEMR covering period of January-March 2020. Provide the complete information on GRM – flowchart and members to ensure	<i>There is the information provided in the 3rd QEMR.</i> Include the information in the current submission to confirm that the GRM for the project is being implemented and functioning correctly

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Commented [A3]: Include the information in the current submission to confirm that the GRM for the project is being implemented and functioning correctly

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
			<p>transparency and don't just cross-referenced it in the 3rd QEMR.</p> <p>Provide a copy of the official notification of PMU on the GRM and GRC.</p>	
GRM notified via publication or notice boards	No information provided	No information provided	<p>Information to be provided for the submission of the QEMR covering period of January-March 2020.</p> <p>Provide as an attachment the official notification of the GRM</p>	
GRM members identified	Information was provided in the 3 rd QEMR		<p>Information to be provided for the submission of the QEMR covering period of January-March 2020.</p> <p>Indicate in the report the members of the GRM</p>	
GRM members have capacity to address project-related complaints (<i>detailed information on capacity development of GRM members such as trainings, workshops, briefings, etc should be attached in the SEMR</i>)	It was mentioned that the GRC members were already mentioned in the 3 rd QEMR		<p>Information to be provided for the submission of the QEMR covering period of January-March 2020.</p> <p>Provide the information on the members of the GRC in the 4th QEMR.</p>	
Number of meetings conducted (<i>attach minutes of the meeting</i>)	No information provided	No information provided	<p>Information to be provided for the submission of the QEMR covering period of January-March 2020.</p> <p>Provide information on the number of meetings conducted during the reporting period. Clearly indicate if no meetings and done and indicate the frequency of the meeting of the Grievance Redress Committee.</p>	

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Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
K. Complaints Received (detailed information on nature of complaints, summary and status of resolution)				
Number of complaints	No information provided	No information provided	Provide information on the number of complaints and status of resolution received during the reporting period.	There are any complain not yet received during the reporting period.
Nature (provide summary of issues/concerns)	No information provided	No information provided		
Status of resolution	No information provided	No information provided	Confirm if no complaints were received during the reporting period.	
L. Summary of Issues and Corrective Actions				
Major issues/concerns (specify)	Section 11 provides information on the summary of key issues and concerns- damage of a fence or boundary wall and tree cutting.	From the QEMR3, one the key issues identified is the dust generation during pipe-laying. It was mentioned that there is an ongoing implementation of the corrective actions.	Provide the status of the implementation of the corrective actions for the dust generation during pipe-laying activities.	Water sprinkling bowser has been engaged to dust control by the contractor
Corrective Action to be implemented, timeline, responsible person/s, and budget are clearly specified	Corrective action provided and all works were completed	Provide the status of this issue in the QEMR4		
M. Status of Corrective Action Plan from Previous Reporting Period (list all and provide status)				
N. Appendixes				
Photos included?	Yes			
Summary of consultations included?	No	Provide documentation of the consultation done on 3 October 2019		Attached
Copies of environmental clearances and permits included?		Copies of environmental permits provided in the QEMR3		
Site EMPs (attach sample?)		Copy of sample EMP provided in		

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Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
Checklists?		the QEMR3 Sample checklists for December 2019 were provided in QEMR3		
Others				
O. Review and clearance for disclosure				
Reference				
Status/Remarks		1. Recorded as submitted		
		2. Send comments to PMCIU. Actions required to be complied for the submission of QEMR covering period January-March 2020.		

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